3. Work Procedure

3.1 General

The test equipment and procedure other than specified herein shall conform with the requirements described in ASTM.

3.2 Mechanical boring

(1) Mechanical boring

A total of 12 borings shall be carried out. The details of each borehole are shown in the following table.

Borehole number	Boring	depth (m)	SPT	Thin-wall tube sampling
	soil	rock	(times)	(samples)
B-1	25	5	25	
B-2	25	5	25	
B-3	25	5	25	
B-4	25	5	22	3
B-5	25	5	25	
B-6	25	5	23	2
B-7	25	5	25	
B-8	25	5	22	3
B-9	25	5	25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
B-10	25	5	23	2
B-11	25	- 5	25	
B-12	25	5	25	
Total	300	60	290	10

Diameter of boreholes shall be more than 86 mm. Every effort should be made for 100 % core recovery.

Elevation survey

Before and after boring works, survey of the ground elevation in each borehole shall be conducted by the Contractor at his own equipment and expense. Expenses for the elevation survey are deemed to be included in relevant items of work in the Bill of Quantities.

(2) Standard Penetration Test

Standard penetration test with split-barrel sampling (disturbed sample) shall be carried out at every one (1) meter or every changed stratum of depth in order to evaluate the

mechanical strength of ground.

(3) Thin-wall tube sampling

This sampling shall be conducted for a soft soil. Sampling points shall be determined under the discussion between the Consultant and the Contractor. This sample shall be kept a natural condition and used for the laboratory test of triaxial compression test and consolidation test.

(4) Others

Contractor has to prepare tess than 3 numbers of the boring machine to complete the Works in the short period.

3.3 In-situ tests

(1) Detection of unexploded bombs

This investigation shall be conducted at each boring sites (1m²x12 sites) before the commencement of boring works. Magnetic survey method shall be adopted basically.

(2) Tests pit

Test pit shall be excavated at seven sites (F-1 to T-7) to conduct the undisturbed block sampling, disturbed soil sampling, plate bearing tests, and CBR tests. The size of test pit is as follows:

width I meter.

length 2 meters, and

depth 2 meters.

(3) Undisturbed block sampling

The sample shall be obtained at the depth of 1.5 meters which is used for the laboratory tests of triaxial compression test and consolidation test.

This sample shall be concealed at once by a polyester and or other materials to keep a natural condition. It is also used for the laboratory test of triaxial compression test, consolidation test, and CBR test.

(4) Plate bearing test

Plate bearing test shall be conducted at the bottom of the test pit.

(5) Field CBR test

Field CBR test shall be conducted at the bottom of the test pit.

3.4 Laboratory test

Laboratory test consists of Triaxial compression test, Consolidation test, Compaction test, CBR test, and Physical property test. Physical property test is composed of Water content, Fine fraction content, Particle size, Liquid and Plastic limit, and Bulk density.

The details of laboratory tests are shown the following table.

İtem	Number	Sample			
Compression	17	10 from thin-wall sample for soft soil			
		7 from block sample for sandy soil			
Consolidation	17	10 from thin-wall sample for soft soil			
		7 from block sample for sandy soil			
Compaction	14	disturbed samples from test pit			
CBR	21	7 from block sample			
		14 from disturbed samples from test pit			
Water content	80	(ASTM D-2216)			
		10 from thin-wall sample			
	14 from block sample				
		14 from disturbed samples from test pit			
计多数 化双氯化物 医电流		46 from split barrel sample of SPT			
Fine fraction content	- 80	(ASTM D-1140) ditto			
Particle size	80	(ASTM D-854) ditto			
Liquid and Plastic limit	80	(ASTM D-4318, D-427) ditto			
Bulk density	80	(ASTM D-1556) ditto			

Note) Thin-wall sample

Block sample Split barrel sample : undisturbed sample taken from borehole : undisturbed sample taken from test pit

: disturbed sample taken from SPT

4. Final Results

(1) General

The CONTRACTOR shall keep accurate mechanical boring log and records of all the work accomplished under this Contract and deliver complete legible copy of log and records to the CONSULTANT upon completion of the work or at such other time or times as he may be directed by the CONSULTANT. The CONSULTANT has the right to examine such records at any time prior to the CONTRACTOR'S delivery to the

CONSULTANT. All depth and elevations shall be measured in meter based on the ground level that will be indicated from time to time by the CONSULTANT.

(2) Records and photos

Records shall contain the following items.

Borchole logs

Borehole logs shall present a continuous record of borehole to the scale of 1/100 in vertical length containing the following information:

- Borehole number and location
- Elevation at the top of borehole
- Inclination and depth
- Model name of boring machine utilized
- Dates of boring
- Total core recovery
- Geological description of the borehole, including classification of soil, color etc.
- Results of the standard penetration test
- Water level in borehole
- Location of samples for laboratory tests and sounding test

Test pits

Sketch of soil occurrence in test pit, photos of all equipment used for the work, samples obtained in the test pits.

5. Preparation of Report

After the completion of laboratory tests, a final report summarizing all the work performed, findings, and recommendations for the work shall be prepared and submitted in original.

The report shall be properly bound in a folder and shall contain a description of the test procedure, number of tests performed, pit logs or maps, summary tables of the results and complete details of the test results both in tabular and graphical forms.

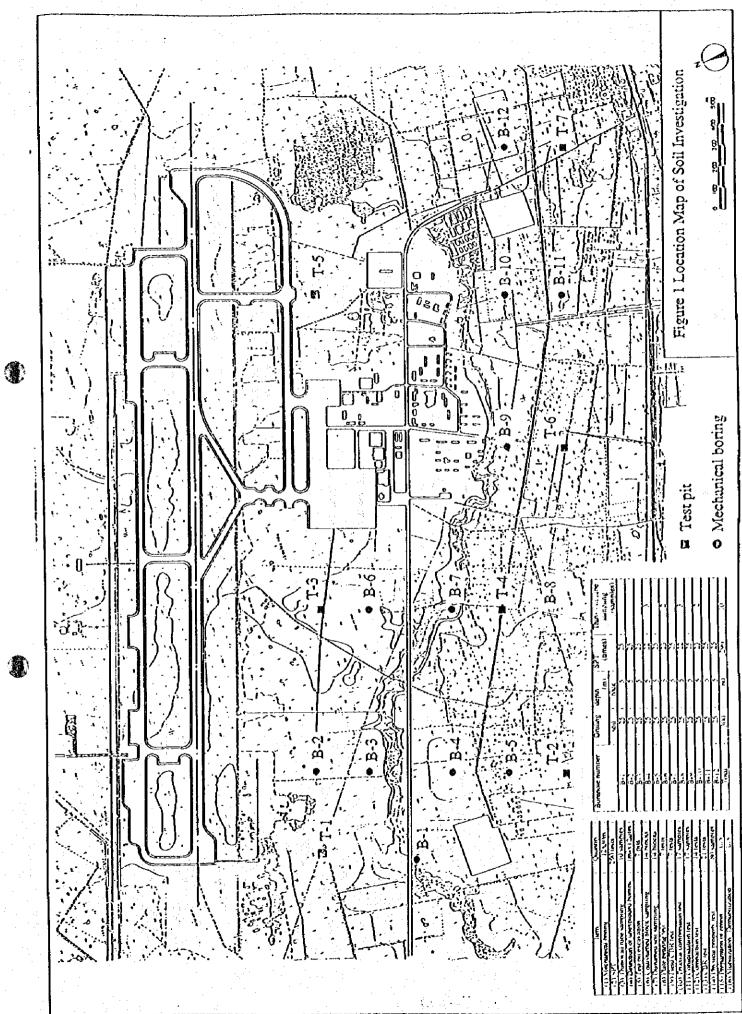


Fig.2 Tentative Work Schedule

						A 5.1	13 April. 1995
Item of Work	April		:	May		June	
1. Mechanical boring			2				
(1) preparation							
(2) Mobilization/Demobilization						-	
(3) Detection of unexploded bombs				:			
(4) Installation of drilling machine		:	0230				
(5) Boring with SPT test, Sampling			BELLEVISIBERE	encentrisa interassistementisia appresentation on telepistementisias (interassistementis)	ekonikas sarataran saratara		
(6) Elevation survey and others					Jeneses S		
2. In-situ test							
(1) Test pit excavation							
(2) Undisturbed block sample			HARRISTERINE NEW TOTAL COME		27.2		
(3) Disturbed soil sampling		-	RESOURCE PROPERTY.				
(4) Plate bearing test					autaranasea		
(5) Field CBR test			oReignationage				
3. Laboratory test			20020000000	5560055665665	000000000000000000000000000000000000000		
4. Preparation of report	·			20000000000			
5. Submission of report					Draft		The second second

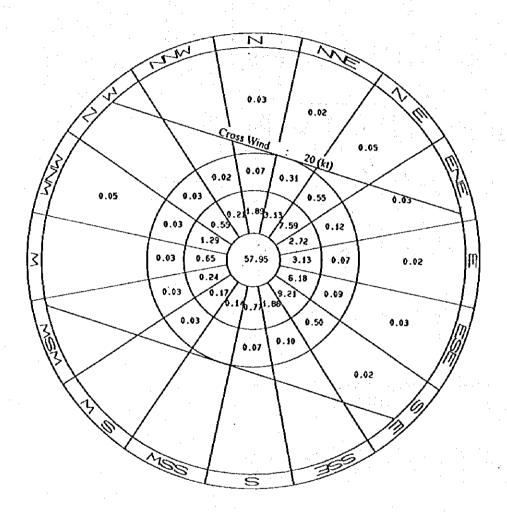
International Passenger Forecast for Whole Victuam

Year		TOP Case	Sase			Medica Case	Case	-		LOW Case	Case	
	GDP Growth	Elasticity	Pax Growth	P &X	GDP Growth	Elasticity	Pax Growth	Pax	GDP Growth	Elasticity	Pax Growth	Pax
	Rate (%)	•	Rate (%)		Rate (%)		Rate (%)		Rate (%)		Rate (%)	
7861		,	- -	1,687,845			•	1,687,845	٠	•	ŧ	1,687,845
500	950%	3,000	28.50%	m	%05.6	2.800	26.60%	2,136,812	809.6	2.600	24.70%	2,104,743
900,	11.00%	2.646	20.10%		8026	2.471	23.48%	2,638,501	8.50%	2297	19.53%	2,515,724
822	700	2333	25.66%	~	9.50%	2.181	20.72%	3,185,280	8.50%	2:030	17.25%	2,949,752
800	%00.1	2027	22.63%		9.50%	1.925	18,29%	3,767,905	8,50%	1.793	15.24%	3,399,397
8 8	11 00%	4	%96.61	5 176 137	909	1.699	16.14%	4376220	8.50%	1.585	13.47%	3,857,242
38	11.00%	009	17.60%	6.087.138	%05.6	86.	14.25%	4,999,831	8.50%	94.	11.90%	4,316,254
38	10 00%	8	%00.4		%00.6	98.	11.70%	5,584,811	8.00%	128	809.6	4,730,614
88	40.00%	4	%00.41	7,910,844	800.6	98.	11.70%	6.238.234	8.00%	1,200	9.60%	5,184,753
188	20.00%	64	%00.41	00	%00.0	1,300	11.70%	6.968,108	8008	1,28	%09.6	5,682,489
8 8	%0000	9	%00.4	. 0	800.6	08:1	11.70%	7,783,376	8.00%	1.20	809.6	6,228,008
2002	10.00%	400	4.00%	11,720,263	800.6	08:1	11.70%	8,694,031	8008	1,200	9.60%	6,825,897
2008	800 6	200	10.80%	12,986,052	800.8	1.28	9.60%	9,528,658	7.00%	1,200	8.40%	7,399,272
2002	800	200	10.80%	14,388,545	8008	1.28	9.60%	10,443,410	7.80%	1.20	8.40%	8,020,811
2008	%00.6	1200	10.80%	15,942,508	8.00%	1,200	9.60%	11,445,977	7.00%	1.200	8.40%	8,694,559
800	8006	1.200	10.80%	17,664,239	8.00%	128	%09'6	12,544,791	7.00%	1.200	8.40%	9,424,902
2020	%006	1200	10.80%	19.572.044	8008	128	809.6	13,749,091	7.00%	128	8.40%	10,216,594
Ŕ	8008	1100	8,80%	21 294 383	7.00%	1,180	7.70%	14,807,771	6.50%	31.1	7.15%	10,947,081
8	%008	100	808.8	ന	7.00%	1.18	7.70%	15,947,969	6.50%	5.1	7.15%	11,729,797
1 6	%00%	8	8.80%		7.00%	1,100	7.70%	17,175,962	6.50%	81.1	7.15%	12,568,477
\$ \ \ \ \	800%	100	%08.8	. 161	400%	8	7.70%	18,498,512	6.50%	1.18	7.15%	13,467,123
20,00	8008	100	8,80%	29.838.752	7.8%	1.18	7.70%	19,922,897	6.50%	1.18	7.15%	14,430,023

(Pax G/R) = (GDP G/R) x (Elasticity), Pax (n) = (Pax G/R) x Pax (n-1)

Analysis of Wind, Cloud Height and Visibility

Wind direction and velosity, cloud height and visibility at NBIA are analised based on the meteorological data for the years 1993 and 1994. As a result of analysis, a wind rose and a cloud height and visibility matrix were prepared as shown below.



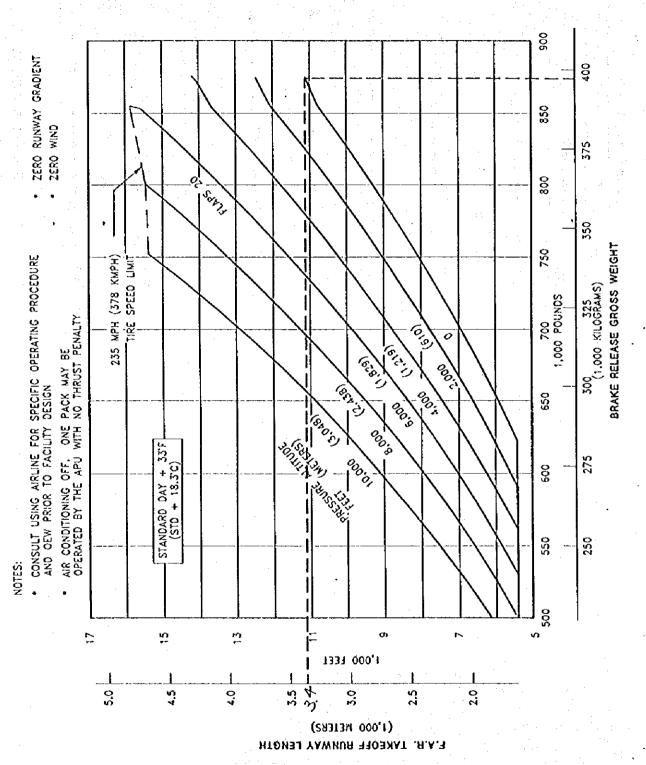
All Weather Wind Coverage: 99.89% (Closs Wind 20kt)

Figure A5.2.1 Wind Rose

Table A5.2.1 Cloud Height and Visibility Matrix

					Visibili	ty (m)	100			en andere.	in .
		0-400 -	800 -1	200	-1400	-1600	-2400)	-3200	3200-	Tot.
٠,	0- 100	0	0	0	0		0	0	0	1	1
	- 200	0	. 0	. 0	0		0	. 0	0	. 0	0
	~ 300	: 4	4	1	0		1	0	7	7	24
1	- 400	2	3	22	- 10	11.	4	5	7	7	60
\odot	- 500	. 0	1	. 8	4		6 .	16	3	2	40
(££)	- 600	2	0	7	8	1	1	11	17	12	68
	- 700	0	1	4	4		9	4	9	9	40
Height	- 800	1	1	2	7	1	3	25	36	38	123
le i	- 900	- 0	0	7	6	100	8	29	43	96	189
	~ 1000	. 0	0	. 0	0		2	2	1	4	9
Cloud	- 1100	0	0	3	9	1	6.	45	104	638	815
បី	- 1200	0	0	. 0	0		0	. 0	0	1	1
	- 1300	0	0	1	2		2	10	21	369	405
:	- 1400	1	. 0	· i	3		3	12	39	1,035	1,094
	- 1500	0	0	0	0		0	0	0	0	0
	1500 -	1	2	- 8	6	1	3	36	58	2,098	2, 222
	< 5/8	0	1	7	1	. 1		38	64	596	721
	Total	11	13	71	60	10	2	233	409	4, 913	5, 812

Calculation of Take-off Runway Length at the Maximum Take-off Weight



3.3.4 FAA TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY +33°F (STD + 18.3°C) MODEL 747-400 (PW4056 ENGINES)

TABLE 41. AIRCRAFT PERFORMANCE, TAKEOFF (BOEING 747 SERIES)
JT9D-7A ENGINE, 10° FLAPS

MAXIMIM ALLOWABLE TAKEOFF WEIGHT (1000 LBS)

TEMP		1	A1	RPORT E	LEVATIO	N (PEET	•		
· P	0	1000	2000	3000	4000	2000	6000	7000	8000
50	785.0	785.0	785.0	763.0	742.5	720.0	697.5	615.5	653.5
55 .	785.0	785.0	785.0	763.0	742.5	720.0	697.5	675.5	653.5
60	785.0	785.0	785.0	763.0	742.5	720.0	697.5	675.5	649.0
65	785.0	785.0	785.0	763.0	742.5	720.0	696.1	663.5	641.5
70	785.0	785.0	785.0	763.0	742.5	714.8	686.6	659.3	632.9
75	785.0	785.0	785.0	763.0	732.9	704.0	676.2	649.3	623.3
80	785.0	785.0	781.1	750.5	721.0	692.5	665.0	638.6	613.1
85	785.0	785.0	767.7	737.7	703.6	680.5	653.5	627.4	
90	785.0	784.5	754.2	724.7	696.0	668.4	641.7	616.1	602.4
95	785.0	770.5	740.7	711.6	683.5	656.3	630.1	604.9	591.6
100	785.0	756.7	127.4	698.8	671.2	644.4	618.7		580.9
105	772.9	743.3	714.4	686.4	659.3	633.1		594.0	570.4
110	759.5	730.3	702.0	674.6	648.1		607.9	583,7	560.6
	7,7,7,7	,,,,,,	10210	0,4.0	040*1	622.5	597.9	574.2	551.5
w=	<i>784</i> .8	af 91.	2ºF	39 fi					

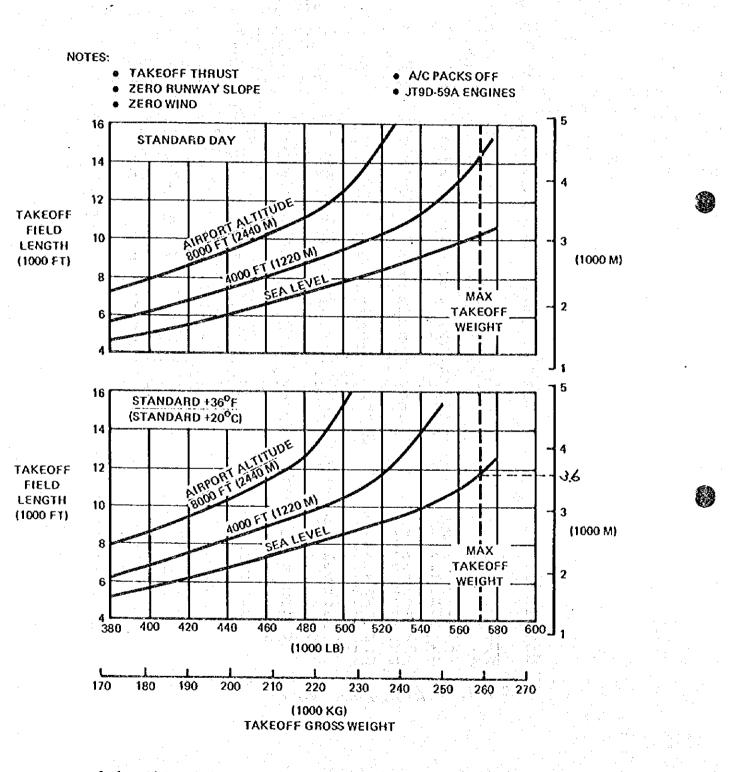
REFERENCE PACTOR "R"

50 68.3 55 69.0 60 69.7 65 70.2 70 70.8 75 71.3 80 71.9 85 72.5	72.4 73.0 73.7 74.3 74.9 75.6	76.7 77.4 78.1 78.7 79.4 80.1	3000 81.6 92.3 83.0 83.7 84.3	86.9 87.8 88.5 89.2 89.9	92.9 93.9 94.6 95.4 96.4	99.5 100.6 101.4 101.9	7000 106.9 108.1 109.0 110.7	\$000 115.2 116.3 117.5 120.8
55 69.0 60 69.7 65 70.2 70 70.8 75 71.3 80 71.9 85 72.5	73.0 73.7 74.3 74.9	77.4 78.1 78.7 79.4	92.3 83.0 83.7 84.3	87.8 88.5 89.2	93.9 94.6 95.4	100.6 101.4 101.9	108.1 109.0 110.7	116.3 117.5
60 69.7 65 70.2 70 70.8 75 71.3 80 71.9 85 72.5	73.7 74.3 74.9	78.1 78.7 79.4	83.0 83.7 84.3	88.5 89.2	93.9 94.6 95.4	100.6 101.4 101.9	108.1 109.0 110.7	116.3 117.5
65 70.2 70 70.8 75 71.3 80 71.9 85 72.5	74.3 74.9	78.7 79.4	83.7 84.3	89.2	94.6 95.4	101,4 101,9	109.0 110.7	117.5
70 70.8 75 71.3 80 71.9 85 72.5	74.9	79.4	84.3		95.4	101.9	110.7	
75 71.3 80 71.9 85 72.5				89.9	96.4			
80 71.9 85 72.5	75.6	84 1				104.3	113.7	124.3
85 72,5		00.4	85.0	91.5	98.9	107.3	116.9	127.9
	76.2	81.0	87.1	94.0	101.6	110.3	120.3	131.6
	77.3	83.2	89.5	95.6	104.6	113.6	123.9	135.5
90 73.8	79.4	85.4	92.0	99.4	107.7	117.1	127.6	139.6
95 75.7	31.4	87.7	94.6	102.3	110.9	120.7	131.6	143.9
100 77.7	83.5	90.0	97.2	105.3	114.3	124.4	135.7	148.3
105 79.9	85.8	92.5	100.0	108.4	117.8	128.4	140.0	21404
110 82,3	88.2	95.0	102.8	111.6	121.4	132.4	,,,,	

RUNWAY LENGTH (1000 PEET)

	eicht	1 3			REFE	RENCE P	ACTOR "	R ^H			
10	00 LBS	60	70	80	90	100	110	120	130	140	150
	550	4.43	5.15	5.85	6,52	7,18	7.82	8.46	9.09	9.72	10.36
1	570	4.73	5.51	6,27	7.02	7.74	8.46	9.17	9.87	10.58	11.29
:	590	5.04	5.90	6.73	7.55	8.35	9.14	9.92	10.70	11.48	12.27
	610	5.39	6.31	7.22	8.11	8.99	9.86	10.72	11.58	12.45	13.31
	630	5.76	6.76	7.74	8.71	9.67	10.62	11.57	12.52	13.47	14.43
	650	6.15	7,23	8.29	9,34	10.39	11.44	12.48	13.52	14.57	15.61
- (670	6.57	7.73	8.87	10.02	11.17	12.31	13.45	14.60	15.74	
. !	690	7.01	8.25	9.50	10.74	11.99	13.24	14.49	15.75	*****	
į	710	7.47	8.81	10.16	11,51	12.87	14.24	15.61			
	730	7.96	9.40	10.86	12.33	13.81	15.30				
	750	8.46	10,01	11.59	13.20	14.81	16.44				
į.	770	8.98	10.66	12,37	14,12	15.88	_				
	790 -	9.52	11.34	13.20	15.09	4					

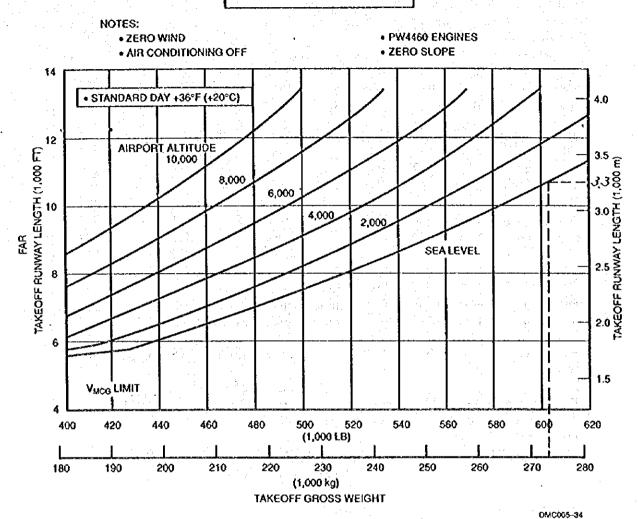
L=11,240ft at R=75.4, W=784.8



3.3 FAR TAKEOFF RUNWAY LENGTH REQUIREMENTS MODEL DC-10 SERIES 40 AND 40CF

PRELIMINARY

NOT TO BE USED FOR FLIGHT PLANNING PURPOSES



3.3.6 STANDARD DAY +36°F (+20°C) MODEL MD-11 P&W ENGINES

REV A

TRAFFIC SURVEY - VEHICLE COUNT

Passenger Traffic Data

Flight schedule for the three days is shown in pages 2 through 4 together with the number of passengers carried. The numbers of arrival and departure passengers were totaled as follows. (See pages 2 through 4 for detail.)

Landside passenger flow volume was estimated, with some assumptions below.

	International	Domestic	
Arrival passengers	10 to 40 minutes	10 to 25 minutes	after plane arrived
Departure passengers	90 to 45	minutes	before time of departure

In this airport terminal, international and domestic buildings are located close. Therefore, the number of landside passengers is not figured out separately in the estimation hereinafter. Total of the landside passengers during 8:30 am and 5:00 pm (8.5 hours, while the survey was done) is counted as follows. (See pages 5 and 6.)

	26 April	27 April	28 April
Arrival passengers (both int'l & dom.)	1,477	1,067	1,253
Departure passengers (both int'l & dom.)	1,409	1,170	1,661
Total	2,886	2,237	2,914

2. Access Vehicle per Passenger per Day

Number of incoming vehicle in every one hour is given in pages 7 through 9. Access traffic is a mixture of various sizes of vehicles. All sizes of vehicle are converted into PCU.

The ratio of number of hourly access PCU (Passenger Car Unit) vs. hourly passenger (2-way) is gotten in the table below.

2. Total number of access PCU from 8:30 2,019	2,237 1,716	2,914 1,969	
	1,716	1,969	
1 17000001			
through 17:00 (8.5 hours)			
Ratio 2. / 1. 0.70	0.77	0.68	0.72

3. Parking Vehicles per Passenger per Hour

Number of parking vehicles is given in pages 10 through 12. Since these car parks (P-1, P-2 and P-3) are dominantly used by passenger-related cars, it can be said that the number of parking cars has relation to the number of passengers.

The ratio of number of car park slots required for small cars (private car + minibus + taxi) vs. hourly passenger (2-way, i.e. arrival + departure) is gotten in the table below.

	26 April	27 April	28 April	<u>Average</u>
1. Passengers 8:30 ~ 17:00 (8.5 hours)	2,886	2,237	2,914	
2. Average number of parking small cars	136.9	102.9	99.8	
Ratio 2. / (1./ 8.5)	0.40	0.39	0.29	0.36
[Number of car park slots required] = 0.4 x	c (Hourly pass	engers (2-way))]	

4. Through Traffic Volume of Airport Access Road

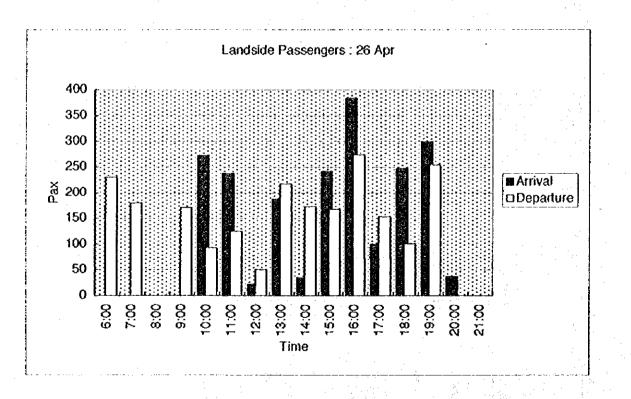
Number of passing vehicle at the end of airport access toll road is given in pages 10 through 12. The road has traffic volume of about twice of passenger-related vehicles. It was observed that there is large traffic by commuting airport staff's motorcycles in the morning, evening and lunch time.

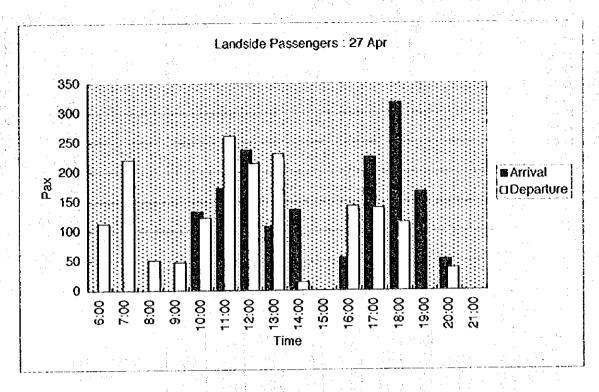
	Stav Time		NightStay	NightStay	NightStay			, NightStay				: ::	SightS					2:00		6 1:55		NightStay	NightStay	NightStay	NightStay	NightStay	NightStay	0	
• .	Load F.	87%	101%	86%	95%	868	%99	43%	41%	% 8%	100%	72%	73%	61%	101%	80%	95%	94%	19%	36%	102%	:						(72%)	11
	Dep Pax	8	152	62	142	134	ጽ	31	62	8	225	52	₹		•		:	141									i.	Den 2 189 (72%)	
	Load F.				<i>i</i>	%98	95%		%16	%68	88%	24%		26%	101%	%89	9229	45%	39%	33%	40%	%68	95%	%68	97%	78%	75%	(689%)	
	Ап Рах					129	143		136	\$	187	17		106	251	8	101	67	117	117	45	59	8	2	5	711	113	Today's total: A = 2 060 (68%)	. 711.4,000
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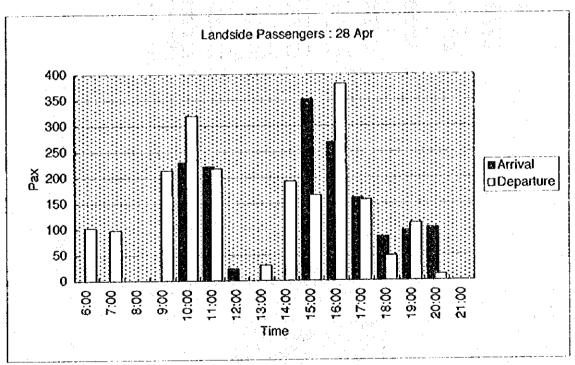
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ਾਹਂ	CI3	6:30	7:00	7:20	I 9:55	10:00	. 10:30	I 10:35	11:00	I 11:30	11:40	14:00	14:30	15:00	15:30	16:00	16:30	1 16:50	17:00	18:00	19:50				٠	Today's total: A	Three day's total: Arr.	•	Apron
Freighter and test flights are omitted	Seat No Destination	66 VN249-HUI	72 VN311-DAD	150 VN741-SGN	150 VN790-HKG	150 VN2111-SGN	150 VN217-SGN	72 VN918-CAN	66 VN271-DIN	150 VN831-BKK	72 VN313-DAD	72 VN315-DAD	66 VN247-HUI	248 VN531-SGN	72 VN919-SGN	•	•	132 SUS42-SVO	150 VN229-SGN	150 VN231-SGN	124 BL791-SGN	72 –	72 -	- 99	150 -	a	Three		
• Freighter	I ETA Aircraft	~	TU134	A320	9:00 A320	9:10 A320	9:30 A320	9:35 TU134	10:20 ATR72	10:30 A320	10:40 TUI34	TU134	13:50 ATR72	14:00 B767	14:25 TU134	15:00 A320	I 15:30 A320	I 14:15 IL62	15:30 A320	I 16:00 A320	18:50 B737	15:10 TU134	17:20 TU134	17:30 ATR72	18:30 A320	Fri.			
	Date Origin - No.	78-	28 -	28 –	28 SGN-VN210	28 SGN-VN2100	28 SGN-VN212	28 SGN-VN918	28 HUI-VN244	28 SGN-VN214	28 DAD-VN310	28-	28 HUI-VN246	28 SGN-VN220	28 CAN-VN919	28 SGN-VN222	28 HKG-VN791	28 MOW-SU	28 SGN-VN274	28 BKK-VN830	28 SGN-BL		28 DAD-VN314	28 DIN-VN270	28 SGN-VN740	April 28	April 26 thru 28		

	26 Apr		27-Apr		28-Apr	
	<u>Arrival</u>	<u>Departure</u>	Arrival	Departure	<u>Arrival</u>	<u>Departure</u>
5:00 ~ 6:00	0	230	0	113	0	103
6:00 ~ 7:00	0	180	0	221	0	98
7:00 ~ 8:00	0	0	0	51	0	0
8:00 ~ 9.00	0	171	gr 0	48	0	214
9:00 ~ 10:00	272	93	133	123	230	319
10:00 ~ 11:00	237	125	173	261	221	217
11:00 ~ 12:00	22	50	237	215	23	. · · · · O
12:00 ~ 13:00	187	217	108	231	0	30
13:00 ~ 14:00	35	173	136	14	0	193
14:00 ~ 15:00	241	168	0	0	351	166
15:00 ~ 16:00	383	274	55	142	268	381
16:00 ~ 17:00	100	153	225	139	160	157
17:00 ~ 18:00	247	101	317	115	85	48
18:00 ~ 19:00	299	254	166	0	97	112
19:00 ~ 20:00	37	0	52	38	103	12
20:00 ~ 21:00	0	0	0	0	0	• 0
Total	2,060	2,189	1,602	1,711	1,538	2,050
8:30 ~ 9:00	0	156	0	45	0	198





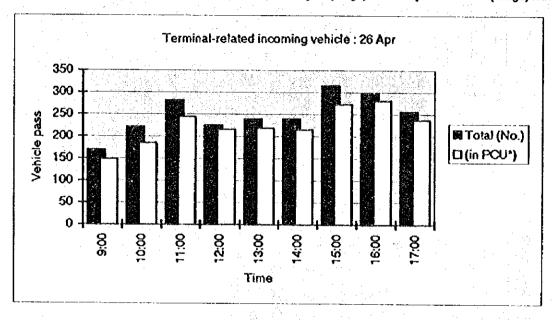


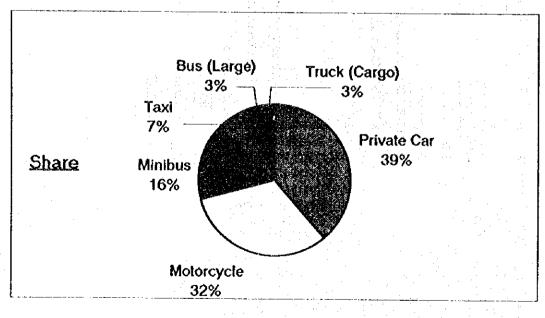
Terminal-related incoming vehicle = [Entrance(from East+ From West)]

	Private Car	Motorcycle	<u>Minibus</u>	Taxi	Bus (Large)	Truck (Cargo)	Others	Total (No.)	(in PCU*)
8:30 ~ 9:00	49	63	27	19	4	7	0	169	149
9:00 ~ 10:00	48	- 88	39	38	2	4	2	221	185
10:00 ~ 11:00	34	129	53	39	12	12	3	282	245
11:00 ~ 12:00	73	68	40	19	18	7	0	225	216
12:00 ~ 13:00	112	67	39	8	7	6	0	239	219
13:00 ~ 14:00	105	72	39	11	3	8	1	239	215
14:00 ~ 15:00	151	110	33	8	5	7	1	315	273
15:00 ~ 16:00	169	60	43	11	5	8	1	297	281
16:00 ~ 17:00	128	63	51	1	10	2	1	256	238
	869	720	364	154	66	61	9	Total	2,019

*:Passenger Car Unit

= [Private Car + Minibus + Taxi] + Motorcycle x 0.33 + [Bus(Large) + Others] x 2.5 + Truck(Cargo) x 2.2



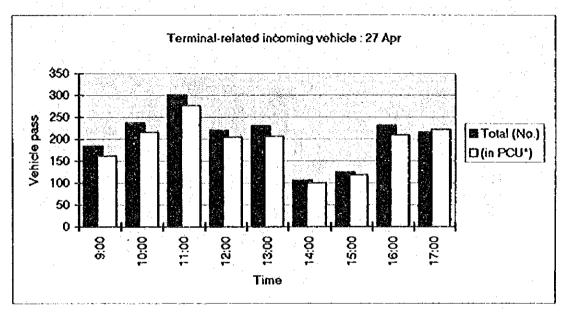


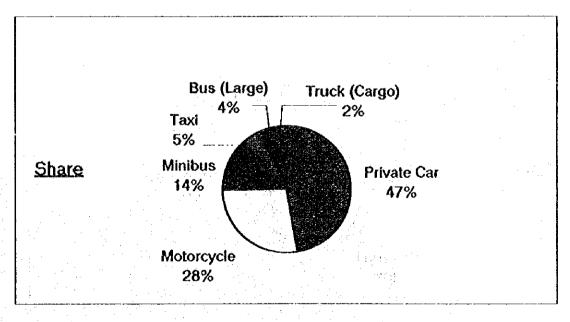
Terminal-relat	ed incomin	g vehicle :	= [Entran	ce(from	East+ Fro	m West)]	Latin		
	Private Car	Motorcycle	<u>Minibus</u>	Taxi	Bus (Large)	Truck (Cargo)	Others -	Total (No.)	(in PCU*)
8:30 ~ 9:00	74	66	20	13	3	5	3	184	162
9:00 ~ 10:00	106	76	25	13	10	6	. 1	237	216
10:00 ~ 11:00	151	. 83	37	11	8	6	4	300	277
11:00 ~ 12:00	103	62	28	- 11	10		- 2	220	205
12:00 ~ 13:00	122	61	23	. 17	1	6	7 F O	230	207
13:00 ~ 14:00	45	28	19	6	4	· 3	1	106	100
14:00 ~ 15:00	56	35	20	3	6	5	<i>i</i> 0	125	119
15:00 ~ 16:00	. 104	63	47	j . 7	5	2	3	231	210
16:00 ~ 17:00	110	39	32	10	19	. 6	. 0	216	222
4	871	513	251	91	66	43	. 14	Total	1,716

*:Passenger Car Unit

= [Private Car + Minibus + Taxi] + Motorcycle x 0.33

+ [Bus(Large) + Others] x 2.5 + Truck(Cargo) x 2.2

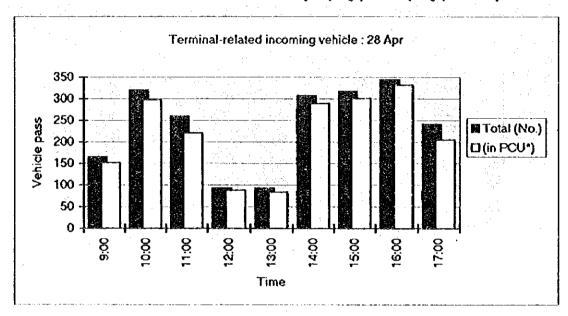


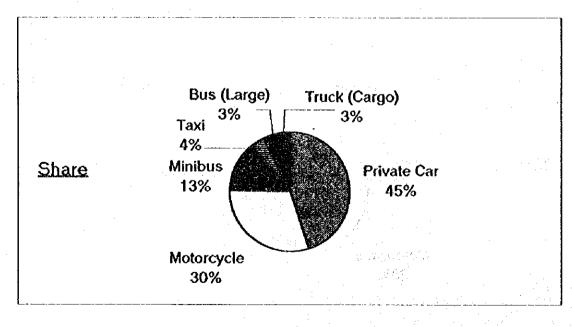


Terminal-related incoming vehicle = [Entrance(from East+ From West)]

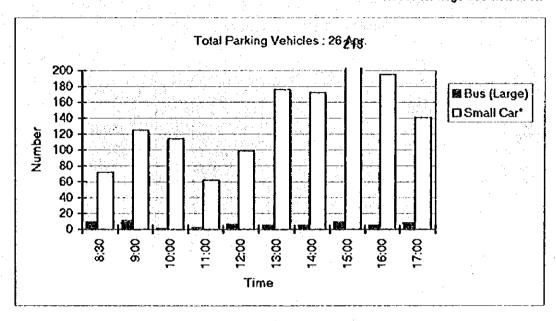
	Private Car	Motorcycle	<u>Minibus</u>	<u>Taxi</u>	Bus (L	arge)	Truck (Cargo)	Others	Total (No.)	(in PCU1)
8:30 ~ 9:00	79	48	- 19	8		6	4	1	165	152
9:00 ~ 10:00	169	79	48	7		9	7	1	320	298
10:00 ~ 11:00	93	-111	26	12		8	9	0	259	221
11:00 ~ 12:00	11	49	10	3		11	7	2	93	89
12:00 ~ 13:00	35	32	14	5	1.	4	2	1	93	84
13:00 ~ 14:00	142	- 86	42	12		6	15	3 4	307	289
14:00 ~ 15:00	169	- 68	45	17	:	9	7	2	317	301
15:00 ~ 16:00	185	74	49	11		11	10	4	344	332
16:00 ~ 17:00	80	103	34	⊕ 9	*	5	9	1	241	205
	963	650	287	84	2007	69	70	16	Tolal	1,969

- *:Passenger Car Unit = [Private Car + Minibus + Taxi] + Motorcycle x 0.5 + [Bus(Large) + Truck(Cargo) + Others] x 2.0





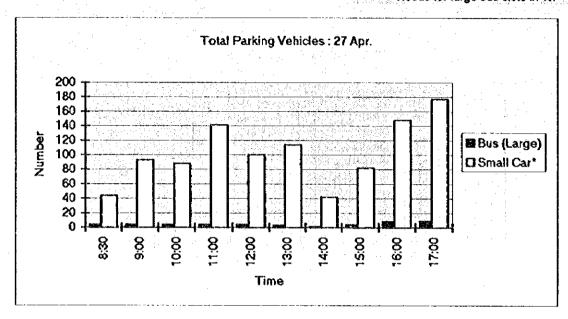
	Private Car	<u>Motorcycle</u>	<u>Minibus</u>	<u>Taxi</u>	Bus (La	ge) <u>I</u>	ruck (Cargo)	Others	Total (No.)	Small Car*
8:30	- 37	0	- 18	17		9 .	5	4	90	72
9:00	44	; O	41	40	:	11	5	- 1	142	125
10:00	39	0	34	41	. F	1	. 3	0	118	114
11:00	± 19	4	19	24		2	: 0	Ó	68	62
12:00	42	0	31	26	1.3	6	0	0	105	99
13:00	91	3. O	49	36	433	5	1	1	183	176
14:00	74	÷ 0	58	40	+(*	5	• 1	6	184	172
15:00	120	:: 0	43	50		9	1	. 8	231	213
16:00	116	:: · O	44	35	1.4	5	2	10	212	195
17:00	78	. 0	33	30		8	. 0	8	157	141
*. *		taran .			*:Private	Car +	Minibus + Ta	xi (Average:	136.9
							Needs for	large bus	siots in %:	2.4%



Thru traffic-E						·	:		
	Private Car	<u>Motorcycle</u>	Minibus	<u>Taxi</u>	Bus (Large)	Truck (Cargo)	Others	Total (No.)	(in PCU*)
8:30 ~ 9:00	: 0	46	5	0	1	3	0	55	29
9:00 ~ 10:00	0	74	13	27	0	2	. 2	118	74
10:00 ~ 11:00	- 0	64	16	38	0	5	1	124	89
11:00 ~ 12:00	0	36	0	9	2	4	0	51	35
12:00 ~ 13:00	9	43	0	1	4	. 3	0	60	41
13:00 ~ 14:00	2	51	0	1	0	5	1	60	33
14:00 ~ 15:00	. 0	- 88	0	5	. 0	6	0	99	47
15:00 ~ 16:00	11	53	0	4	0	: 5	0	73	43
16:00 ~ 17:00	27	33	23	0	0	2	0	85	65
8:30 ~ 17:00	49	488	57	85	. 7	35	4	725	457
Thru traffic-W									
	Private Car		Minibus	Taxi	Bus (Large)	Truck (Cargo)	Others		(in PCU')
8:30 ~ 9.00	3	39	0	0	0	0	4	46	26
9.00 ~ 10.00	. 1	31	3	0	0	1	2	38	21
10:00 ~ 11:00	0	35	14	7	1	0	1	58	38
11:00 ~ 12:00	2	145	0	. 0	0	8	2	157	72
12:00 ~ 13:00	0	- 68	0	0	7	: 3	0	78	47
13:00 ~ 14:00	11	113	11	0	2	10	1	148	89
14.00 ~ 15.00	0	126	10	· · 2	4	4	4	150	82
15:00 ~ 16:00	0	132	0	0	3	4	3	142	67
16:00 ~ 17:00	18	66	15	8	0	3	3	113	77

Total Parking	Vehicles =	(P-1 +	P-2 + P	-3]
----------------------	------------	--------	---------	-----

	Private Car	Motorcycle	Minibus	<u>Taxi</u>	Bus (Large)	Truck (Cargo)	<u>Others</u>	Total (No.)	Small Car*
8.30	14	0	. 17	13	1 1800 4	0	1	49	44
9:00	40	0	20	33	4	2	1	100	93
10:00	25	0	27	36	4	1	0	93	- 88
11:00	70	0	35	36	4	0	0	145	141
12:00	46	. 0	22	32	4	0	1	105	100
13:00	46	0	23	45	3	0	2	119	114
14:00	15	0	12	15	1	; O	0	43	42
15:00	43	0	20	19	4	0	1	87	82
16:00	81	0	40	27	* : 8	- Page 0	6	162	148
17:00	97	: 0	41	39	9	0	: 5	191	177
			- "		*:Private Ca	r + Minibus + Ta	xi	Average:	102.9
•				100		Needs	for large bu	s slots in %:	4.7%

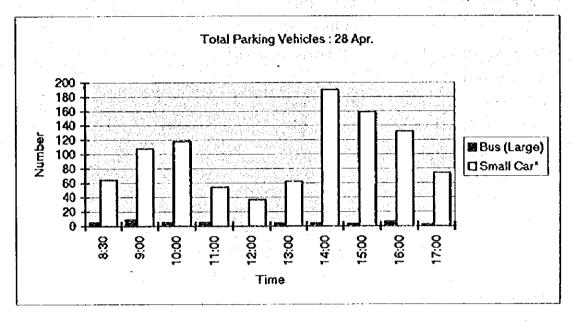


Thru traffic-Ea	st bound A [Road-1(f	rom Wes	st)]-[Ent	rance(Fron	n West)]			
	Private Car M					Truck (Cargo)	Others	Total (No.)	(in PCU1)
8:30 ~ 9:00	- 5	53	0	0	0	3	3	64	37
9.00 ~ 10:00	18	55	0	0	0	3	1	77	45
10:00 ~ 11:00	. 4	56	0	0	1	2	4	67	39
11:00 ~ 12:00	0	50	0	. 0	0	3	0	53	23
12:00 ~ 13:00	35	31	2	- 15	0	6	0	89	75
13:00 ~ 14:00	17	22	3	- 0	0	1	1	44	32
14:00 ~ 15:00	12	25	4	0	0	4	0	45	33
15:00 ~ 16:00	0	0	12	0	0	1	2	15	19
16:00 ~ 17:00	19	. 18	7	0	1	4	0	49	43
8:30 ~ 17:00	110	310	28	15	2	27	11	503	347

Thru traffic-West bound A [Road-2(from East)]-[Entrance(From East)]

4	Private Car I	Molorcycle	<u>Minibus</u>	Taxi	Bus (L	arge)	Truc	k (Car	(00	Othe	rs.	Total	(No.)	(in PCU1)	
8:30 ~ 9:00	Q	28	0	0	24.	_ O	¢	11.0	0		: 0	it phil	28	9	
9:00 ~ 10:00	4	48	0	Ó		0	,		1	:	2		55	27	
10:00 ~ 11:00	0	38	0	Ô		Ó			: 3		6		47	34	
11:00 ~ 12:00	14	100	0	0		: 4	4		0		4		122	67	
12:00 ~ 13:00	18	50	5	0		2	1		6		4		85	68	
13.00 ~ 14:00	20	87	9	4	-	0	44		0		4		124	72	
14:00 ~ 15:00	4	101	• 0	2	1	4	. 1		5		2		118	65	
15:00 ~ 16:00	. 0	87	0	1	4.	1	fil.		1		2		92	39	
16:00 ~ 17:00	20	100	7	4	1 13	0	:		3		0		134	71	
8:30 ~ 17:00	80	639	21	11		11			19		24		805	452	•

otat I	Parking	Vehicles =	(P-1 + P-2	+ P-3]						
		Private Car	Motorcycle	Minibus	<u>Taxi</u>	Bus (Large)	Truck (Cargo)	Others	Total (No.)	Small Car*
	8:30	20	0	19	25	. 5	Ó	• 0	69	. 64
	9:00	40	3	25	43	9	0	. 1	121	108
	10:00	. 55	0	24	39	5	0	0	123	118
	11:00	17	0	15	. 22	5	0	1	60	- 54
	12:00	9	. 0	10	: 18	0	. 2	0	39	37
	13:00	29	. 0	20	13	4	1	1	68	62
	14:00	91	. 0	50	49	. 4	0	. 2	196	190
	15:00	89	. 0	35	35	3	2	. 1	165	159
	16:00	85	. 0	25	22	. 6	0	2	140	132
	17:00	27	0	23	24	2	2 0	1	. 77	74
						*:Private Ca	r + Minibus + Ta	va 💮	Average:	99.8
							Needs	for large bu	s slots in %:	4.3%



•	Private Car	Motorcycle	<u>Minibus</u>	Taxi	Bus (Large)	Truck (Cargo)	Others	Total (No.)	(in PCU*)
8:30 ~ 9:00	0	36	1	0	0	1	0	38	18
9:00 ~ 10:00	. 0	49	0	. O	1	4	1 1	55	- 30
10:00 ~ 11:00	0	51	0	0	0	7	0	58	32
11.00 ~ 12.00	2	21	0	1	2	5	1	32	28
12:00 ~ 13:00	14	30	2	2	2	2	1	53	40
13:00 ~ 14:00	34	45	5	4	0	12	0	100	84
4:00 ~ 15:00	21	30	2	12	3	0	0	68	52
15:00 ~ 16:00	29	40	0	6	2	10	. 3	90	83
16:00 ~ 17:00	0	23	0	4	0	9	1	37	34
8:30 ~ 17:00	100	325	10	29	10	50	7	531	399
์ไท ณ t raffic-W	est bound a	A [Road-2(from Eas	it)]-[Ent	rance(From	n East)]		•	
Thru traffic-W		A [Road-2(Motorcycle		it)]-[Ent <u>Taxi</u>		East)] Truck (Cargo)	Others	Total (No.)	(in PCU*)
Thru traffic-W							Others 0	Total (No.)	
		Motorcycle					_		•
8:30 ~ 9:00 9:00 ~ 10:00		Motorcycle 19					_	19	37
8:30 ~ 9:00 9:00 ~ 10:00 10:00 ~ 11:00		Motorcycle 19 30					_	19 43	37 56
		Motorcycle 19 30 50					_	19 43 66	97 56 74
8:30 ~ 9:00 9:00 ~ 10:00 10:00 ~ 11:00 11:00 ~ 12:00 12:00 ~ 13:00		Motorcycle 19 30 50 67					_	19 43 66 104	37 56 74
8:30 ~ 9:00 9:00 ~ 10:00 10:00 ~ 11:00 11:00 ~ 12:00 12:00 ~ 13:00 13:00 ~ 14:00	Private Car 0 0 0 17 11	Motorcycle 19 30 50 67 44					_	19 43 66 104 62	37 56 74 41 69
8:30 ~ 9:00 9:00 ~ 10:00 10:00 ~ 11:00 11:00 ~ 12:00 12:00 ~ 13:00 14:00 ~ 15:00	Private Car 0 0 0 17 11	Motorcycle 19 30 50 67 44 121 136	Minibus 0 0 0 0 0 0				_	19 43 66 104 62 137	69 37 56 74 4 69 83
8:30 ~ 9:00 9:00 ~ 10:00 10:00 ~ 11:00 11:00 ~ 12:00 12:00 ~ 13:00 13:00 ~ 14:00	Private Car 0 0 0 17 11 0	Motorcycle 19 30 50 67 44 121	Minibus 0 0 0 0 0 0				_	19 43 66 104 62 137 162	(in PCU*) 37 56 74 41 69 83 96

Appendix 6.2.1

8.

Calculation of Allowable Take-off Weight from the Existing Runway

1. Runway Length: 3,200 m (10,500 ft)

2. Elevation: 12 m (39 ft)

3. Slope: Negligible

4. Wind: Zero

5. Reference Temperature: 32.9°C (91.2°F)

6. Aircraft Type: B747-200B

JT9D-7A, 10° Flaps

7. Maximum Takeoff Weight: 785,000 lbs (356,100 kg)

Weight plus Service Fuel: 414,000 lbs

Typical Operating Empty

9. Maximum Payload: 160,700 lbs

10. Average Fuel Consumption: 47 lbs/mile

11. Reference Factor "R": 75.6

12. Allowable Takeoff Weight: 738,300 lbs (334,900 kg)

13. Weight Restriction: 46,700 lbs (21,200 kg)

Equivalent to 29% of maximum pay load, or

14. Maximum Length of Haul

with Maximum Pay Load: (738,300 - 414,000 - 160,700) / 47 = 3,480 miles (5,600 km)

Equivalent to Hanoi to

Note: Calculation is based on "AC-150/5325-4A, Runway Length Requirements for Airport Design" by Federal Aviation Administration (FAA)

TRAFFIC SURVEY - PASSENGER INTERVIEW

As a part of work item 18, Traffic Survey for Hanoi International Airport New Development Plan was conducted on 26 through 28 April, 1995. It consists of 1) Passenger Interview; 2) Processing time; and 3) Vehicle Count. Passenger Interview is described here.

1. Survey Items Collection

Number of effective answers is as follows:

	26 April	27 April	<u> 28 April</u>	<u>3 days</u>
Domestic departure passengers	174	531	393	1,098
International departure passengers	240	282	352	874
Total	414	813	745	1,972

Query Form (in English) is shown in page 2. (Vietnamese edition was also prepared) List of flights that the survey targeted of is shown in page 3

Results of each survey items are given in the tables in pages 4 through 7.

2. Comments on Passenger Terminal Facilities

The most request from both domestic and international passengers is on air conditioning. The top ten comments are listed below.

1) By international passengers:

- 1 Air-conditioning
- 2 Cafeteria / Restaurant / Snack bar
- 3 Seating at lounges
- 4 Processing time of passport control
- 5 Baggage handing
- 6 Duty free shop
- 7 Telephone
- 8 Spaces of the facilities
- 9 Sign / public announcement
- 10 Language (use of French)

2) By domestic passengers:

- 1 Air-conditioning
- 2 Seating at lounges (especially, insufficient before check-in)
- 3 Toilet facility
- 4 Guidance (procedure, flight information / use of Vietnamese)
- 5 Cafeteria / Restaurant / Snack bar
- 6 No smoking area
- 7 Taxi from / to Hanoi city
- 8 Business class lounge
- 9 Shops (smaller choice of newspapers / higher prices than in Hanoi)
- 10 Spaces of the facilities

CIVIL AVIATION ADMINISTRATION OF VIETNAM PASSENGER SURVEY FOR HANOI INTERNATIONAL AIRPORT

NO.	DATE:		HME:	- SURVETOR N	AME:
	FLIGHT NO.		PLACE:	Signature:	
	(Inte	ernational or Domestic)			
4	till at in more	01. Viet Nam	East Asia	South Asia	The Americas
1.	What is your	U1. VICE Main	21. Hong kong	31. India	51. U.S.A.
	Nationality?			32. Others	52. Canada
			22. Singapore	52. Others	
			23. Taiwan)	53. Others
			24. Malaysia		
		Indochina	25. China	Pacific	Europe
	1. 以 1. 4.	11. Cambodia	26. Japan	41. Australia	61. France
		12. Laos	27. Korea	42. New Zealand	62. U.K.
		13. Thailand	28. Others	43. Others	63. Germany
		14. Myanmar	<u> </u>	<u> </u>	64. Russia
		71. Middle East	81. Africa	91. Others	65. Others
•		()	()	()	()
2.	Are you starting	Yes.	No.	Viet Nam	04. Hna Trang
	your air trip from	(From Honoi)	(Transit pax from:)	01. Ho Chi Minh	05. Dien Bien Phu
	Hanoi		11. Foreign	02. Hue	06. Others
	Airoprt?		(03. Da nang	
	Where is your	Viet Nam	04. Hna Trang	11. Foreign	
J.,	today's	01. Ho Chi Minh	05. Dien Bien Phu	99 (799) - 4.2 - 4"
	destination	02. Hue	06. Others		
	Airport?	03. Da nang	()	1	
	What is your	01. Professional	05. Agriculture	09. Retired	
4.	Occupation?	02. Manufacturing	06. Education	10. Others	
ŀ	Occupacion	03. Service/Sales	07. Student	(1
		04. Government	08. Housewife		. • •
	What is the purpose	01. Holiday/Vacation			· ·
٠.	of your	02. Business	05. Visiting friends/	relatives	er en
	travel?	03. Convention	06. Others()	
	By what Mode did	01. Private car	04. Taxi		
٥.	you come to	02. Rental/Hotel car			
	the airport?	03. Company car	06. Others()	
7	When did you arrive	os. company cor	00. 01.0.01		
l ''	at the airport		minutes before depar	rture time	
	before departure?				
	How many persons			10 10 10 10 10 10 10 10 10 10 10 10 10 1	
۰°.	do you travel with?		persons (including yo	in the state of	
	do you travel with:		percons (morasmy)		West of the second
	How many				
J 3.	well-wishers saw you	:	persons		
]		POIOONS	i detar pakin we i	
10	off at the airport?				
10.	How many baggages did you check in?		pieces		
	did you check its	describe the residence of the second	pieces		
 					
'''	How much did you	Don	or US		
	spend at terminal	DON	VI UJ		
	shops?	Cartina if a second			
1 15.	Suggestions for airport	racinty if any:			
]			1		
1					

April	~	111 1
Anna	. 11	Wed.
73111111	233	** 54.

<international dep<="" p=""></international>	parture>	
Time No	Destination	Aircraft
7:20 VN741	-SGN-SIN	A320
9:55 VN790	HKG	A320
10:00 VN924	TPE	A320
10:30 VN821-	VTE	TU134
11:30 VN831-	BKK	A320
13:20 TG683-	BKK	A300
14:45 SQ175-	SIN	A310
16:50 SU542-	VIN	IL62
18:40 CX792	HKG	L1011
1930 AFI71	BKK-CDG	A340

<Domestic Departure>

Time	No Destination	Aircraft
6:30	VN249-HUI-SGN	ATR72
7:00	VN2111-SGN	A320
7:00	VN321-DAD-SGN	TU134
11:40	VN313-DAD	TUI34
14:00	VN315-DAD	TU134
14:30	VN247-HUI-SGN	ATR72
16:00	VN225-SGN	B767
17:00	VN229-SGN	A320
18:00	VN231-SGN	A320
19:30	BL793-SGN	B737

April 27 Thu. <International Departure>

	Destination	Aircraft
9:30 QV322	-VTE	YAK40
10:15 VN790	HKG	A320
10:30 VN821	-VTE	TU134
11:30 VN831	-BKK	A320

<Domestic Departure>

<u>Time</u>	No Destination	Aircraft
6:30	VN249-HUI	ATR72
7:00	VN311-DAD	TU134
7:20	VN741-SGN	A320
8:00	VN211-SGN	A320
11:40	VN313-DAD	TU134
12:00	VN217-SGN	A320
12:40	VN269-NHA	ATR72
13:00	VN219-SGN	A320
13:30	VN221-SGN	A320
14:00	VN315-DAD	TU134
16:45	VN227-SGN	A320
17:30	VN229-SGN	A320
18:30	BL791-SGN	B737
20:20	VN521-SGN	A320

April 28 Fri.

<International Departure>

	<u>Time</u> No Destination	 Aircrast
ĺ	9:55 VN790-HKG	A320
1	10:35 VN918-CAN	TU134
1	11:30 VN831-BKK	A320
l	16:50 SU542-SVO	IL62

<Domestic Departure>

<u>Time</u>	No Destination	<u>Aircraft</u>
6:30	VN249-HUI	ATR72
7:00	VN311-DAD	TU134
	VN741-SGN	A320
10:00	VN2111-SGN	A320
10:30	VN217-SGN	A320
11:00	VN271-DIN	ATR72
11:40	VN313-DAD	TU134
14:00	VN315-DAD	TUI34
14:30	VN247-HUI	ATR72
15:00	VN531-SGN	B767
15:30	VN919-SGN	TU134
16:00	VN225-SGN	A320
16:30	VN227-SGN	A320
17:00	VN229-SGN	A320
18:00	VN231-SGN	A320
19:50	BL791-SGN	B737

- LEGEND -

Answers were taken from passengers of these.

- CITY/AIRPORT CODE -

BKK	Bangkok	HKG	Hong Kong
CAN	Guangzhou	HUL	
CDG	Paris-C. de Gaulle	NHA	Nha Trang
DAD	Da Nang		Ho Chi Minh
DIN	Dien Bien Phu		Singapore

Moscow-Sheremethyevo Taipei Vientiane VTE VIN -Vinnitsa

I. Preliminary Results of Interview Survey of Domestic Passengers

Q1. Nationality (%)

Vietnam	58.4	Taiwan	5.3	Other South Asia	0	France	6.7
Cambodia	0.1	Malaysia	1.1	Australia	3.3	U.K.	2.7
Laos	0	China	2.3	New Zealand	0.3	Germany	1.7
Thailand	0.6	Japan	4.1	Other Pacific	0	Russia	0.2
Myanmar	0	Kores	2.3	U.S.A.	3.3	Other Europe	2.3
Hong Kong	1.0	Other East Asia	0.2	Canada	1.9	Middle East	0.1
Singapore	1.6	India	0.2	Other America	0.2	Africa	0.1
			·	Total (1,091 samp	les)		100.0

O2. Origin of Trip (%)

Qz. Ongili or mp (70	y .
Hanoi	95,8
Foreign Countries	0.6
Ho Chi Minh City	2.3
Hue	0
Danang	0.6
Nha Trang	0
Dien Bien Phu	0.1
Other Cities in Vietnam	0.6
Total (1,083 samples)	100.0

Q4. Occupation (%)

VI. Ovenhaumiting	
Professional	25.0
Manufacturing	21.6
Service/Sales	11.7
Government	3.8
Agriculture	2.9
Education	5.2
Student	5.6
Housewife	3.3
Retired	7.0
Others	13.9
Total (1,092 samples)	100.0

Q6. Access Mode (%)

•
10.0
13.1
23.7
20.9
29.7
2.6
100.0

Q3. Destination of Trip (%)

Ho Chi Minh City	68.2
Hue	5.4
Danang	16.6
Nha Trang	2.6
Dien Bien Phu	0
Other City in Vietnam	4.9
Foreign Countries	2.3
Total (1,096 samples)	100.0

Q5. Purpose of Trip (%)

Qs. Impose of trip ((0)
Holiday/Vacation	21.0
Business	30.7
Convention	6.8
Officials	21.9
Visiting Friend/Relatives	15.2
Others	4.4
Total (1,085 samples)	100.0

Q7. Arrival Time before STD (%)

Less than 30 mins	3.9
From 30 to 59 mins	24.2
From 60 to 89 mins	43.8
From 90 to 119 mins	16.3
From 120 to 149 mins	9.9
From 150 to 179 mins	0.9
From 180 to 239 mins	0.5
More than 240 mins 🔧	0.5
Total (1,092 samples)	100.0
Average	70 mins

Q8.	Number	of	Trave	ellers	ina	Group	(%)

20.	
0	2.4
l	36.1
2	35.9
3	11.1
4	5.4
5	2.5
6 - 10	2.8
More than 11	3.8
Total (1,093 samples)	100.0
Average	2.8

Q9. Number of Well Wishers (%)

V. Huntour of Hon	11 1311015 (70)
0	63.8
1	15.4
2	13.0
3	2.9
4	1.8
5	1.7
6 - 10	1.2
More than 11	0.2
Total (1,011 samples)	100.0
Average	0.8

Q10. Number of Check-in Baggage (%)

Q10. Humber of Cheek	-ui Daggago (.
0	25.5
	41.3
2	20.2
3	6.2
4	3.7
5	1.0
6 - 10	1.0
More than 11	1.1
Total (1,049 samples)	100.0
Average	2.8

Q11. Expences at Terminal Shops Average Expences US\$ 10.1

2. Preliminary Results of Interview Survey of International Passengers

Q1. Nationality (%)

Vietnam	30.6	Taiwan	1.1	Other South Asia	0.1	France	13.5
Cambodia	0.4	Malaysia	1.6	Australia	4.0	U.K.	5.0
Laos	0.5	China	1.6	New Zealand	0.9	Germany	5.1
Thailand	2.0	Japan	3.2	Other Pacific	0.1	Russia	5.4
Myanmar	0	Kores	2.6	U.S.A.	5.9	Other Europe	6.1
Hong Kong	2.6	Other East Asia	0	Canada	2.7	Middle East	0.3
Singapore	3.2	India	1.2	Other America	0.3	Africa	0
				Total (741 sample	s)		100.0

O2. Origin of Trin (%)

Qr. Ongmoring()	υ <i>)</i>
Hanoi	92.6
Foreign Countries	0.1
Ho Chi Minh City	4.7
Hue	0.5
Danang	0.1
Nha Trang	0
Dien Bien Phu	0.1
Others	1.9
Total (735 samples)	100.0

O4. Occupation (%)

32.8
16.3
19.3
4.7
0.9
4.9
7.7
4.1
2.4
6.9
100.0

Q6. Access Mode (%)

12.7
20.5
26.3
19.2
20.1
1.2
100.0

Q3. Destination of Trip (%)

0.1
U.1
0
0
0
0
0
99.9
100.0

O5 Purpose of Trin (%)

As respect trib (ve	"
Holiday/Vacation	34.2
Business	31.1
Convention	7.2
Officials	8.8
Visiting Friend/Relatives	17.1
Others	1.6
Total (737 samples)	100,0

Q7. Arrival Time before STD (%)

Less than 30 mins	10.0
·	
From 30 to 59 mins	27.4
From 60 to 89 mins	33.2
From 90 to 119 mins	9,3
From 120 to 149 mins	6.6
From 150 to 179 mins	2.5
From 180 to 239 mins	4.2
More than 240 mins	6.8
Total (731 samples)	100.0
Average	105 mins

Q8. Number of Travel	llers in a Grou	p (%)
0	10.0	
	27.4	
2	33.2	· .
3	9.3	
4	6.6	
5	2.5	
6-10	4.2	· .
More than 11	6.8	
Total (731 samples)	100.0	
Average	3.3	

0	5.6
1	51.6
2	26.4
3	7.7
4	4.4
5	1.4
6 - 10	2.6
More than 11	0.3
Fotal (727 samples)	100.0
Average	3.2

Q9. Number of Well Wishers (%)		
0	41.9	
1	19.1	
2	16.6	
3	6.8	
4	5.1	
5	5.6	
6 - 10	4.2	
More than 11	0.7	
Total (711 samples)	100.0	
Average	1.7	

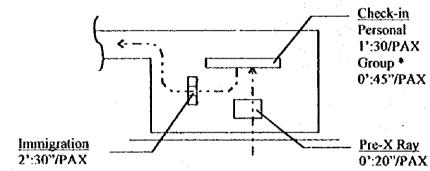
Q11.	Expences at Term	inal Shops
Ave	erage Expences	US\$ 17.3

TRAFFIC SURVEY - PROCESSING TIME

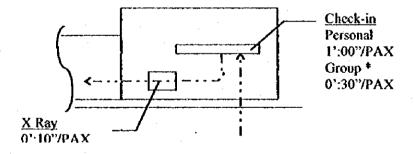
1. Survey Items

The following items were measured. For result of the measurement, see pages 2 through 4.

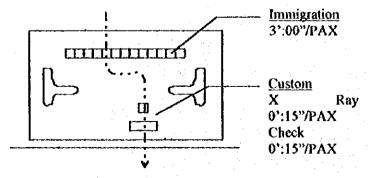
- 1) International Departure
 Pre-X Ray -> Check-in -> Immigration
- 2) <u>Domestic Departure</u> Check-in -> X Ray
- 3) <u>International Arrival</u> Immigration -> X ray -> Custom Check
- 2. Proposed Processing Time for Design and Evaluation
- 1) International Departure



2) Domestic Departure



3) International Arrival



International Departure

Check-in			
Date	Time Sampl	e Class	Process Time
[Personal passens	ger - Business class	3]	gradient de la company
		1 Business	3:18
		l –ditto–	2:00
	4.4	l –ditto–	2:28
		1 -ditto-	3:44
english and the state of		1 -ditto-	1:00
		5	12:30
	Avei	rage	2:30
	The Control of the Co	e ja sa	State of the State
[Personal passens	ger - Economy clas	s!	
27-Apr	9:50~	2 Economy	4:07
		3 -ditto-	2:43
	A Company	1 -ditto-	3:20
	• • • • • • • • • • • • • • • • • • •	2 -ditto-	1:21
		8	11.31
	Aver	age	1:26
[Group passenger	r]		
27-Apr	9:50~	17 Economy	8:00
•	Avei	age	0:28 sec.
•		. –	
immigration			
Date	<u>Sampl</u>	e	Process Time
			10.27

Average

10:37 2:26

International Arrival

27-Apr

Immigration Date 27-Apr	<u>Time</u>	Sample 7	Process Time 22:54
•		Average	3:16
28-Apr	15:21~	7	21:25
		12	38:30
		- 7	21:16
		20	50:10
		46	11:21
		Average	2:51

Processing time varies 2 to 4 minutes depend on individual officers.

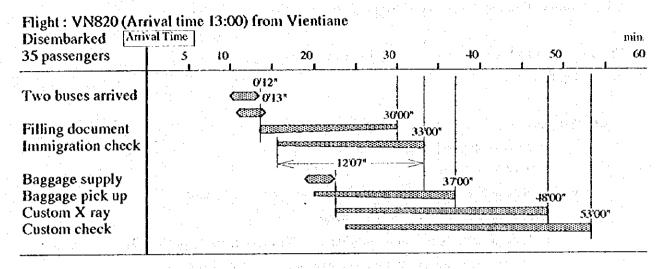
Domestic Departure

Check-In <u>Date</u>	<u>Time</u>	Sample	Class	Process Time
[Business class] 26-Apr	12:07~	13. 13.	Business	0:47
		1 . 1	-ditto- -ditto-	1:09 0:50
	_	3 Average		2:46 0:55 sec.
[Economy class]				
28-Apr	12:30~	1:	Economy :	11:03
		1 18	-ditto-	11:03
		Average ((solo)	0:36 sec.
28-Apr	12:30~	2 : 2	Economy: -ditto-	9:26
	~	12 Average (9:26 0:47 sec.
28-Apr	12:30~	3	Economy -ditto-	5:01
	_	Ayoroga (3~4 group)	5:01 0:43 sec

X-Ray Date	<u>Time</u>	Sample	Class	Process Time
26-Apr	12:22~	12		113 sec.
<u> </u>	16:11~	17	· _ ·	175 sec.
		29		288 sec.
		Average		9.9 sec.

International Arrival Flow

Observation notes



Arrival flight from Vientiane (Tu-134 aircraft :seat capacity = 72)
35 passengers were disembarked (load factor was 49%), carried by two ramp buses to the terminal. Passengers, they did not seem to be given any document form on board, started to fill the document first of all. Most of the passengers on the next arrival flight by Thai International had the document filled on board contrary. (Some did not though.) 13 officers, out of 15 immigration booths, processed the passengers. There are few queue generated. Some officers processed only three or four passengers. The longest time was 5 minutes 30 second.

Calculation of Existing Capacity of Major Passenger Processing Facilities

The following IATA formulae are used for calculating handling capacity of existing passenger processing facilities.

1. Check-in Desks:

N=[(a+b)t1/60]x1.1

a=60N/t1/1.1-b

where N:Number of check-in desk ; existing=Int,113, Dom. 7

a: Number of peak hour passengers

b: Number of peak hour landside transfer passengers, estimated=0

tl: Average processing time per passenger at check-in desks ;estimated=Int'l 1.5, Dom. 1.0 mins.

Therefore,

Int'l a=60x13/1.5/1.1-0=473

Dom. a=60x7/1.0/1.1-b=382

2. Departure Passport Control:

N=[(a+b)t2/60]1.1

a=60N/t2/1.1-b=240

where N:Number of departure passport control ;existing=11

a: Number of peak hour passengers

b: Number of peak hour landside transfer passengers estimated=0

t2: Average processing time per passenger at departure passport control :estimated=2.5 mins.

Therefore,

a=60x11/2.5/1.1-0=240

3. Departure Lounge:

A=[c(ui+vk)/30]x1.1

c=30A/(ui+vk)/1.1

where A:Area of departure lounge

;existing=Int'l 597, Dom. 829 sq.m

c: Number of peak hour departing passengers

i: Proportion of long haul departing passengers during peak hour ;esternated=Int'l 100%, Dom. 0%

k: Proportion of short haut departing passengers during peak hour ;estimated=Int10%, Dom. 100%

- u: Average occupancy time of departure lounge per departing tong-haul passengers ;estimated=Int,'I 50, Dom. 50 mins.
- v: Average occupancy time of departure lounge per departing short-haul passengers ;estimated=Int'l 30, Dom. 30 mins.

Therefore,

Int'l c=30x597/(50x1.0+30x0)/1.1=326 Dom. c=30x829/(50x0+30x1.0)/1.1=754

4. Arrival Passport Control:

N=[(d+b)t3/60]x1.1

d=60N/t3/1.1-b=273

where N:Number of arrival passport control

;existing=15

- b: Number of peak hour landside transfer passengers, estimated=0
- d: Number of peak hour terminating passengers
- t3: Average processing time per passenger at arrival passport control ;estimated=3.0 mins.

Therefore,

d=60x15/3.0/1.1-0=273

5. Arrival Customs:

N=eft4/60

e=60N/f/t4

where N:Number of arrival customs

;existing=26

- e: Number of peak hour terminating and Int'l/Dom. passengers ,estimated=d
- f: Proportion of passengers to be customs checked ;estimated=100%
- t4: Average processing time per passenger at arrival customs ;estimated=0.5 mins.

Therefore,

e=60x26/1.0/0.5=3120

EXAMPLE SKETCHES OF RAIL ACCESS

1. Existing Rail Network in Hanoi

There exists a rail network of Vietnam Railway (VNR) around Hanoi area as shown in 6.4.1.1. All lines are single track and are not electrified. Rolling stock consists of diesel/steam locomotives and trailers, but no diesel railcars. There are numbers of level crossing in down town. Long Bien Bridge on Red River, between Hanoi central station (Ga Hanoi) and Gia Lam, is so worn that the speed and load on the bridge are restricted to 15km/h and 12ton/axle, respectively. Tracks are in meter gauge (MtG) or mixed gauge (MxG) of standard gauge (StG) and meter gauge. Unification into meter gauge is being considered for the whole nation. Signaling system is out of date. Existing facilities and rolling stock do not have potential as airport access system at present.

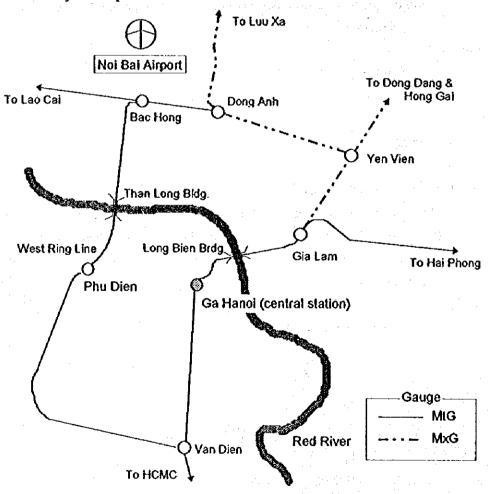


Figure 6.4.1.1 Existing VNR Network around Hanoi

2. Possibility of Airport Rail Access

1) By Utilizing the Existing VNR Lines

Railway has advantages in the following roles among the other mode of transportation.

- · Inter city passenger transportation, such as Hanoi Hai Phong
- · Urban transportation in Hanoi for city commuters
- · Freight transportation of bulk cargo

Upgrading and rehabilitation of the existing VNR network and rolling stocks must be done to accomplish the roles. Airport access can be planned on this strengthened facilities.

It will need a new line from a branch point on the existing railway. The nearest branch point to Noi Bai Airport is on Don Anh - Luu Xa line, 5-6 km north from Don Anh station. Branch from Bac Hong station will be another alternative.

Noi Bai Express - A¹

Route: Noi Bai Airport - Dong Anh - Yen Vien - Gia Lam - Ga Hanoi

This route connects the existing down town to the airport. Long Vien bridge should be replaced, but this is not only for airport access. Hanoi - Hai Phong route (MtG) passes on this bridge. Since this corridor will have huge transportation demand, "Hai Phong express" has been suggested in "The Master Plan Study on the Transport Development in the Northern Part in the Socialist Republic of Vietnam", JICA, 1994. Noi Bai Express train can be commonly operated with Hai Phong express's diesel rail car to maximize the productivity.

Noi Bai Express - B

Route: Noi Bai Airport - Bac Hong - Tang Long - Phu Dien "Hanoi West"

This route utilizes "Hanoi West Ring Line" which is almost abandoned except for some occasional operations. On the other hand, Thang Long Bridge on Red River has double deck of road and double- tracked railway. Since density area of Hanoi sprawls to the west, the city side terminal can be planned near the existing Phu Dien station.

¹ A request has been made for grade separation at Hanoi station, which influences planning for the track section approaching Long Bien bridge. On the other hand, local authorities have called for closure of Long Bien bridge and Hanoi central station for reasons of other urban planning considerations. This description assumes continuous use of Hanoi station as a central station.

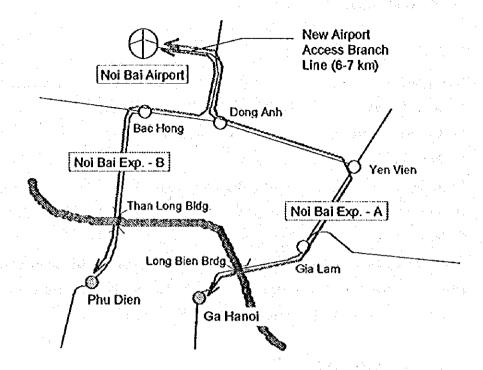


Figure 6.4.1.2 Route of Noi Bai Express by VNR

2) By Utilizing Future Hanoi City Urban Rail Transportation System²

The needs for mass transportation system in Hanoi already exist. All new mass rapid transportation system will be focused sooner or later. Airport access train can be planned as a part of the network.

² Timely, JICA is going to implement a study on urban transportation system in Hanoi in response to the request of the Government of Viet Nam from the latter of 1995.

Light Rail Transit (LRT)

In case LRT system will be developed for urban transportation, through operation of LRT train to the airport can be an alternative. This is an idea of combination use of new LRT in the city, and the existing VNR lines in suburb.

"LRT" means light standard electric railway system, which has been closed-up since 1970's as economic and environmental friendly medium capacity transportation mean. Many of European and American cities have modern LRT system whose origin was tramway. Some Asian cities has newly developed LRT, for example Manila's Metrorail. Since LRT is less expensive mode of rail transportation system, it is easier to introduce it to this country than full-sized new railway.

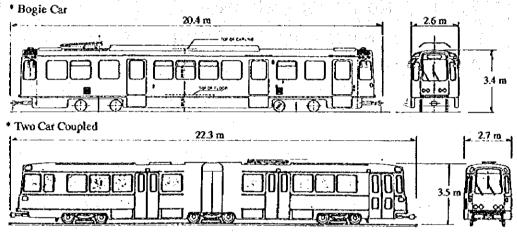


Figure 6.4.1.3 Example of LRT Train

Though LRT train is normally one to three cars train by 15 to 20 meter long, light weight electric railcars, latest technology enables its high speed operation especially in suburban section.

Table 6.4.1.1 Example of through operation of LRT into Ordinary Railway (recent cases)

City - Country	Description	Remarks
Buffalo - USA	Renovation of the existing tramway. Transit mall in down town section and underground in	_
	suburban section.	
Kartsruhe - Germany	Expansion of existing LRT to	New LRT stations were
	connect to existing local line of National Railway.	

Appendix 7.6.1 Air Passenger Traffic used for the

	inancial Evaluation		·
V		Passengers	it in the contract of the cont
Year	intl	Dóm.	Total
1995	472,000	950,000	1,422,000
1996	587,000	1,202,000	1,789,000
1997	713,000	1,455,000	2,168,000
1998	849,000	1,698,000	2,547,000
1999	992,000	1,923,000	2,915,000
2000	1,141,000	2,126,000	3,267,000
2001	1,282,000	2,337,000	3,619,000
2002	1,441,000	2,569,000	4,010,000
2003	1,620,000	2,823,000	4,443,000
2004	1,821,000	3,103,000	4,924,000
2005	2,047,000	3,411,000	5,458,000
2006	2,047,000	3,411,000	5,458,000
2007	2,047,000	3,411,000	5,458,000
2008	2,047,000	3,411,000	5,458,000
2009	2,047,000	3,411,000	5,453,000
2010	2,047,000	3,411,000	5,458,000
2011	2,047,000	3,411,000	5,458,000
2012	2,047,000	3,411,000	5,458,000
2013	2.047,000	3,411,000	5,458,000
2014	2,047,000	3,411,000	5,458,000
2015	2.047.000	3.411.000	5,458,000

tops of the management decisions

Appendix 7.6.2 Annual Requirements of Capital Investment Cost of the T1 Project

			<u> </u>			Unit: US\$ '000
Year	Civil Works	Building Works	Special Equipment	Consulting Services	Contin- gencies	Total
	(1)	(2)	(3)	(4)	(5)	(6)=(1)++(5)
1995						
1996						
1997				4,556	456	5,012
1998	1,100	9,790		2,278	1,317	14,485
1999	5,500	48,950	1,500	3,417	5,937	65,304
2000	4,400	39,160	3,500	1,139	4,820	53,019
2001					11	
2002			100			
2003				5 NR 75	< :	
2004	·			1.1	•	
2005		1.00				
2006						
2007						
2008			, A			¥
2009		* * * .	5 S			
2010		and the				
2011	ŀ	- 1		1		
2012]		1, 15			
2013	1					
2014	. 1	100				
2015	-5,500	48,950			2 -	-54,450
Total						
T1 Project	11,000	97,900	5,000	11,390	12,529	137,819

Note 1: Total cost of each work is distributed by the following percentage distribution rates based on the anticipated implementation schedule of the Protect.

Year	Civil	Building	Special Eq.	Consul.
1996				. ,
1997				40%
1998	10%	10%	1	20%
1999	50%	50%	30%	30%
2000	40%	40%	70%	10%

Note 2: Contingencies (10% of each work) are assumed to be used at each time of construction/installation/consulting work.

Note 3: Residual values are considered for civil facilities and buildings with 30 year depreciation period.

Appendix 7.6.3 Maintenance Cost of the T1 Project

Year	Civil Works (1)	Building Works (2)	Special Equipment (3)	Total (4)=(1)++(3)
1995	1		<u> </u>	177.77
1996				
1997			1	
1998				
1999		1.	100	
2000				
2001	110	979	250	1,339
2002	110	979	250	1,339
2003	110	979	250	1,339
2004	110	979	250	1,339
2005	110	979	250	1,339
2006	110	979	250	1,339
2007	110	979	250	1,339
2008	110	979	250	1,339
2009	110	979	250	1,339
2010	110	979	250	1,339
2011	110	979	250	1,339
2012	110	979	250	1,339
2013	110	979	250	1,339
2014	110	979	250	1,339
2015	110	979	250	1,339

2015 110 979 250 1,339

Note: Maintenance cost is estimated by the following percentage rates on the construction cost of each airport facility.

Civil Works				1%
Building Works	- :	:		1%
Special Equipment			 -	5%

Appendix 7.6.4 Personnel Cost, Overhead and Other Labor Costs of the T1 Project

• •				**									:						;				٠	,	
Total	Sost	(\$SO 000.)		(12)=(9)+(10)+(11)							2,538	2,814	3,160	3,539	3,950	4,197	4,470	4,756	5,055	5,380	5,652	5,938	6,237	65.69	6.874
Other	Cost	(2001 US\$)		(11)	142	183	8	398	308	***	385	427	479	537	599	637	678	22	292	316	857	901	946	993	2
Overhead	Š	(1000 USS)		(30)	268	345	424	503	581	658	727	908	88	1 914	1.132	1,203	1,281	1,363	1 448	1.541	1,620	1,701	1 787	1,876	1 969
Personnel	T S	(3SD 000)		(9)=(1)x(8)	525	676	830	986	1,140	1,290	1,426	1,581	1,776	1,988	2,219	2,358	2,511	2,672	2,840	3,022	3,176	3,336	3,504	3,679	3,862
Number	ŏ	Staff		8)	350	420	480	230	570	009	620	3	670	700	85	730	35	730	8	730	730	28	82	738	730
Staff	Growd	Rate	-	(7)=(5)+(6)		19,3%	14.7%	10.6%	7.5%	5.0%	4.0%	4.0%	4.0%	4.0%	4.1%	0.0%	0.0%	%0.0	0.0%	0.0%	%0.0	%0.0	%0.0	%0.0	%0.0
Productivity	Improve	ment		(Q)		7.5%	7.5%	7.5%	7.5%	7.5%	7.2%	7.2%	7.2%				6.4%	6.4%	6.4%	6.4%	2.0%	5.0%	2.0%	5.0%	2.0%
Traffic	5	Growth		9		26.8%	22.2%	18.1%	15.0%	12.5%	11.2%	11.2%	11.2%	11.2%	11.3%	%0.0	%0:0	%0.0	%0:0	0.0%	%0.0	%0.0	%0:0	%0.0	%0:0
Traffic	Chrits		(4)=(2)/1000	+(3)/100	1,644	2,085	2,548	3,010	3,460	3,893	4,329	4,814	5,355	5,955	6,625	6,625	6,625	6,625	6,625	6,625	6,625	6,625	6,625	6,625	6,625
Cargo		(ton)		<u>.</u>	22,200 }	23,600	38,000	46,300	54,500	62,600	71,000	80,400	91,200	103,100	116,700	116,700 (116,700	116,700	116,700	116,700	116,700	116,700	116,700	116,700	116,700
Passengers				ઈ	1,422,000	1,789,000	2,168,000	2,547,000	2,915,000	3,267,000	3,619,000	4,010,000	4,443,000	4,924,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000
Unit Staff	Š	(US\$/Year)		3	1,500	1,610	1,730	1,860	2,000	2,150	2,300	2,470	2,650	2,840	3,040	3,230	3,440	3,660	3,890	4.140	4,350	4,570	4,800	5,040	5,290
	Year		1		1995	1986	1997	1998	1599	2000	2001	2002	2003	88	2005	2006	2002	88	88	2010	2011	2012	823	2014	2015

Vote 1: The number of staff in 1995 includes those who mainly work for terminal operatinos within 5 line departments of the NAR. Note 1. Personnel cost includes basic salaries, bonuses, pension and insurance.

The average cost is estimated to increase at the same rate GDP per capita growth rate as follows: 1995-2000 7.5% per annum 2005-2010 6.4% per annum

995-2000 7.5% per annum 2005-2010 6.4% per annum 200-2005 7.2% per annum 2010-2015 5.0% per annum

Note 2: Traffo unit is defined as 1/1000 of annual number of passengers plus 1/100 of annual tonnage of cargo.

Note 3: The number of staff is assumed to increase in proportion with the growth of traffic units less productivity improvement of the staff which is equal to the increase in their real income.

Note 4: Overhead cost includes professional management expenditure, travel cost, stationary supply, telephone charge, uniform, land tax and training cost. It is estimated as 51% of personnel cost based on the financial statement of the NAR in 1994.

Note 5: Other labor cost includes payments to workers for cleaning and gardening of terminal area, etc. it is estimated as 27% of personnel cost based on the financial statement of the NAR in 1994.

Appendix 7.6.5 Utility Cost of the T1 Project

	Electricity	Electricity	Fuel	Total
Year	Consump.	Cost	Cost	Cost
	(MWH)	(000 US\$)	(0000 US\$)	(000 US\$)
	(1)	(2)	(3)	(4)=(2)+(3)
1995				
1996				
1997		2.53		1.7
1998				4, 4
1999			14	
2000				
2001	15,125	756	38	794
2002	15,125	756	38	794
2003	15,125	756	38	794
2004	15,125	756	38	794
2005	15,125	756	38	794
2006	15,125	756	38	794
2007	15,125	756	38	794
2008	15,125	756	38	794
2009	15,125	756	38	794
2010	15,125	756	38	794
2011	15,125	756	38	794
2012	15,125	756	38	794
2013	15,125	756	38	794
2014	15,125	756	38	794
2015	15,125	756	38	794

Annual consumption of electricity is from the Fasibility Study of the T1 Project. The rate of electricity is US\$0.05 per KWH Fuel cost is 5% of electricity expenses. Note 1: Note 2: Note 3:

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Total	(8)=(1)+ +(7)				• .		16.175	20.06	20,00	20,172	22,530	25,167	25,167	74.167	2	/01.62	25,167	25,167	25,167	25,167	25.167	28.167		682 4,094 682 1,983
Car Parking Charge	8					- - -	1316		2	1,616	1,791	1 985	1 985	700	3 6	606	- 283	1,985	1,985	1,985	1.985	700	36	(286)
Dom. Bidg. Concession Fee	(9)		:				237		410	88	8	283	83		8	252	682	682						682
Inti Bidg. Concession Fee	(5)						CASA	1	2,822	3,240	3,642	7007	7007		\$ \$ \$	7 094	4,094	460,4	4 094	4.094	700		5	4 094
Dom. Bidg. Equipment Charge	•			-	urarilar Pari		1.3	Ì	514	565	23	683	100	700	682	88	682	582	288	283	8	7	3	682
inti Bidg. Equipment Chargo	(0)							ezo'.	1,153	1286	1 487	003	333	9	- 538	1,638	1,638	1,638	1,638	824	3 5	3	1,638	1638
Dom. Pax Service	200							3,02/	3,328	3,657	5 6	070.4	5 4	S14.4	4.419	4.419	4.419	4419	4419			D 4.	4,419	4,419
Service	3 E							7,307	8.214	0 224	0000	0000	200	300	- 888	11.668	11.668	899	11,668	999 **	8	288	11,668	11,668
Year		1995	1986	1997	1998	1989	88	Š	2002	1 8	3 3	\$	co Ri	88	2002	2008	2000		200	3	21.02	2013	2014	2015

stic passengers. Passenger service charges are calculated with USS12 per departing internation Note 1:

The current rates are US\$7 and US\$1.4 respectively.

The collection rate of 95% is used for calculation.

Terminal equipment charges will be collected from airline companies for the use of passenger boarding bridges, check-in tables, baggage conveyors and baggage claim equipment. The charges are assumed to be US\$0.8 per international passengers and US\$0.2 per domestic passenger. Note 2:

Concession fee will be collected from business entities for commercial rights at the airport. Note 3:

USS2.0 per international passengers and USS0.1 per domestic passengers are reasonable estimates for the terminal buildings of comparative size.
Charge per one time of car parking is assumed to be USS0.9, twice the present rate. Based on the traffic survey conducted by the JICA Study Team in May 1995, the parking rate of Note 4:

0.4 car/passenger is used to estimate the number of cars to be parked.

Appendix 7.6.7 Passenger Terminal Rent and Advertisement Revenues of the T1 Project

			<u> </u>		Unit: 'UUU US\$
Year	Int'l Pax Terminal	Dom. Pax Terminal	Int'l Bidg. Advertise	Dom. Bldg. Advertise.	Total
	Rent	Rent -	Revenue	Revenue	
	(1)	(2)	(3)	(4)	(5)=(1)++(4)
1995					1 1
1996					
1997					i .
1998			· ·		<u> </u>
1999					
2000	1000	42.5			
2001	1,350	300	150	50	1,850
2002	1,350	300	150	50	1,850
2003	1,350	300	150	50	1,850
2004	1,350	300	150	50	1,850
2005	1,350	300	150	50	1,850
2006	1,350	300	150	50	1,850
2007	1,350	300	150	50	1,850
2008	1,350	300	150	50	1,850
2009	1,350	300	150	50	1,850
2010	1,350	300	150	50	1,850
2011	1,350	300	150	50	1,850
2012	1,350	300	150	50	1,850
2013	1,350	300	150	50	1,850
2014	1,350	300	150	50	1,850
2015	1,350	300	150	50	1,850

Note 1: Terminal rent is calculated based on the following conditions.

	Percentage Rentable Area	Rent/sq.m/month
Int1 Passenger Terminal	15%	US\$25.0
Dom. Passenger Terminal	10%	US\$12.5

Note 2: Advertise revenue is estimated for US\$5 per sq m per year for international passenger terminal building, and US\$2.5 per sq m per year for domestic passenger terminal building.

Appendix 7.6.8a Comparison of Costs and Revenues - 71 Project (Case A: Int'l PSC = US\$9, Dom. PSC = VND20,000)

	Operating [Profits		(17)a (18) - (5)			C 50 A	7 7 7	700	53.019	10,518	11.803	13.201	14.773	16 544	16,297	16,025	15 739	15,440	15 115	14 842	14.556	14.257	13,945	68,071	7.3%	4,951
	Total	 		(16)=(6)+, +(15) (17							15,189	16,750	18.494	20,445	22 628	22,628	22,628	22,628	22,628	22 628	22,628	22 628	22 628	22 628	22,628		NPV (at 8% discount rate)
	Adver-	tisement	Revenue	т-	Γ						8	88	800	88	800	200	200	200	200	200	200	200	200	200	200	FIRE	VPV (at 8% c
	Оот. Рах	Terminal	Rent	(14)		~					300	300	300	8	300	300	300	8	8	300	8	300	900	8	300		-
	Intl Pax	Terminal	ž Ž	(13)			;	:			1,350	1,380	350	1350	1 350	1,350	1 350	1,350	1,350	1 350	1,350	1 350	1,350	1,350	1 350		
	ğ	Parking	Charge	(12)						: .	1,316	1.458	1,676	1.791	1,985	1,985	1,985	1,985	1,985	1 985	1,985	1 985	1,985	1 985	1 985		
Revenues	Dom. Bidg.	Concession	Fee.	(11)							467	514	268	ន	682	682	682	682	682	682	682	682	682	682	682		
	Inti Bido.	Concession	9 6	610							2,564	2,882	3240	3,642	4,094	4,094	4,094	4,094	4,094	4,094	4,094	4,094	4.094	4,094	4,094		
	Dom. Bidg.	Equipment Equipment Concession Concession	Charge	<u>@</u>				:		2	467	5.4	585	8			682	682	682	682	682	682	682	682	682		
	Intl Bldg.	Equipment	Charge	(8)						-	920	1,153	1,296	1,457	1,638	1,638	1,638	1,638	1,638	1,638	1,638	1 638	1,638	1 638	1 638		
	Dom. Pax	Service		6		• ••••		-			2,018	2,219	2,438	2,680	2,946	2,946	2,946	2,9461	2,946	2 946	2,946	2.946	2,946	2,946	2.946		
	And Lini	Service	Charge	(e)							5,481	6,160	6,926	7,785	8,751	8,751	8,751	8,751	8,751	8.751	8.751	8 751	8 751	8 751	8,751		
	Totak	Š		(5)=(1)++(4)			5.012	14 485	65 304	53,019	4,671	4,947	5,293	5,672	6,083	025'9	6,603	6889	7,188	7,513	7 785	8,071	8,370	8,682	45,443		
	Colities	Š		(₹)							794	797	ğ	72	794	784	784	784	784	794	194	28	28	<u>8</u>	794		-
Costs	Personnel,	Overhead	s Office	(3)							2,538	2,814	3,160	3.538	3,950	4.197	4.470	4.756	5,055	5,380	5,652	5,938	6.237	9 54 9	6.874		
	Mainte	nance	Cost	3							1,339	1,339	1,339	- CE	1,339	988	1,339	1,339	1,339	1,339	1,339	1,339	1,339	1,339	1 339		
	Const-	rotton	Coat	(1)			5012	14.485	65 304	53,019													-	_	-54,450		
	Year	:			1995	986	1997	1998	8	2000	2001	303	88	8	2005	8	- 82 -	2008	888	2010	8	8 22	8	20.24	2015		;} ;;

Appendix 7.6.8b

Appendix 7,6,85 Comparison of Costs and Revenues - T1 Project (Case B: Int! PSC = US\$12, Dom. PSC = VND30,000)

5.012 4.4.485 4.4.485 4.4.486 4.4.486 4.4.486 4.4.486 4.4.486 4.4.486 4.4.486 4.4.886 Juit: US\$ '000 Operating Profits (18)=(5)+..+(15)/..(17)=(18)-..(5)76,025 22,022 22,022 24,380 27,017 7,017 7,017 7,017 27,017 27,017 27,017 27,017 27,017 FIRR NPV (at 8% discount rate) Revenue Total Adver-teement Revenue (32) Terminal E e (4 Int! Pax Terminal 8 8 8 8 8 38 38 38 Rent (13) Car Parking Cherge Concession Dom. Bidg. 2,584 2,882 3,240 3,642 4,094 4,094 4,094 4,094 4,094 4,094 4,094 4,094 4,094 4,094 4,094 Conceesion Int'l Blog. **₹** 6 Dom. Bidg. Equipment Charge , 638 638 638 638 638 638 638 638 Equipment 8 8 8 8 8 Charge Dom. Pax 3,027 3,328 3,328 4,4020 4,419 4,419 4,419 Service 4.3 Charge 11,668 11,668 11,668 intì Pax Service Charge 7,307 8,214 9,234 10,380 17,668 11,668 11,868 11,568 11,668 5,012 14,485 65,304 53,019 4,671 4,947 5,293 5,672 6,083 6,603 6,603 7,788 7,788 8,071 8,370 6,443 10 ta 10 ta 10 ta Care 28 3 Personnel, Overhead 2,538 2,814 3,160 3,539 3,950 5,197 7,470 5,055 5,055 5,055 5,055 7,552 8,533 8,549 Maintenance Š 5.012 14.485 65.304 53.019 Const-ruction (5) \$ 450 2002 2003 2004 2005

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Appendix 7.8.8c Comparison of Costs and Revenues - T1 Project (Case C; Int1 PSC = USS15, Dom. PSC = VND40,000)

			1														OD 380 FILE
		1	1000								Revenues						
. ee	ts co		Personnel,	885	Total	Inti Pex	Dom. Pax	Inti Bidg.	Dom. Bldg.	Int'l Bidg.	Dom. Bldg.	Š	Int! Pax	Dom. Pax	Adver-	EG-	Coeration
-	LCB9	nance	Overhead	ğ	Cost	Service	Service	Equipment	Equipment Equipment Concession Concession	Concession	Concession	Parkino	Terminal	Termine	theament	Daverite	Orași de
	Š	Cost	8 Other			Charge		Charge	Charge	*	ů.		a	i to	Daven	0710	5
	0	(2)	(2)	(4)	(2)=(1)+ +(4)	9	É	6	Ó	ć	1	É			7	(4.6)	
1995							†		†		† 		1	†		101-01-01	(C) - (QL)=(/L)
1996					_		•	•		:							
1997	5,012				5 012				:	-		-		-			
1998	14,485				14.485								-				-5,012
1999	65,304				65.304				1		<u> </u>		:				-14,485
2000	53,019			1. 1. 1.	53.019			: **		1.							-65,304
2001		1,339	2.538	794	4.671		4 037	1 008	1487	2,664	46.7	010	10,50	1000	-		
2002		1 330	2854	707	270			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7	3 6	Ì	0	20.	3	8	20,861	
2002		200	1 4	į	\th.'+		?	3	41.0	7,887	514	1,458	058,	300	8	23,075	
300		2 6	3	7	567.0		4,876	- X	5	3240	265	1,618	1,350	8	30	25,549	
3 6		866,	3,539	<u>8</u>	5.672		5,360	1,457	8	3,842	621	1,791	1,350	300	200	28315	
8		1339	3,950	794	6,083		5,892	1,638	682	4 094	682	1.985	1,350	300	8	31 407	4
2006		338	4.197	700	6,330	٠	5,892	1,638	682	4 094	682	1 085	036.	300	C	24 407	
2804	_	1,339	4.470	7	6.603	_:	5 892	1 638	C89	7007	000	900	046.	3 6	3 8) i i	
2000		339	4.756	78	688.9	;	, cox	, 4 8 8 8 8 8	4 6	100	700	0 0	000	3 8	8	31,407	
5002	Police	1,339	5.055	797	7.188	14.585	200	900	8 6	7 60	8 8	C 0 6	200	3 3	8	31,407	24,548
2010		1 330	5380	8	7.513		(C) (C)	9 00	400	100	700	2 4	000	3	8	31,407	:
8		1330	5,652	702	7778	ı	2000	000	700	70.0	700	008	200	ğ	3 3 3 3	31,407	
2012	-	330	900	Š	3 6		7000	000	780	4 084	682	1.985	1,350	S S S	Š Š	31,407	23,622
2012		330	9 0	4 6			762'0	8	987	4094	882	1,985	1,350	ခွ ဗ	8	31,407	23,336
		900	70.00	3	0/2/0	:	5,892	1,638	682	4 8 8	887	1,985	1,350	8	8	31,407	23.037
200		7	3	3	8,682		5,892	1.638	682	4,094	682	1,985	1,350	30	200	31,407	22,725
613	000	(SCC)	6,874	794)	45,443	14,585	5,892	1,638	682	4 094	682	1,985	1,350	300	Š	31,407	76,850
: '														"	FIRE		10.704
2°														•	/60 00/ /10		
															₹01e) ∧4.	NAV (at 8% decount rate)	37,983

Appendix 9.7.1 Air Traffic at Noi Bai International Airport in the WP Case

	Į stoji		(tol)				40.00	least								
	<u> </u>						International	ē					EOC)	Comestic		
	_	Ē	Ė	Total	J,	3	W.	ઝ	TP	Total	3	3	ΜJ	კ	٦ <u>٠</u>	Total
	(E)	(\$)	(2)	- (e)	<u>-</u>	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	1,422,000	6,600	15,600	22,200	<u>\$</u>	88	ğ	2,400	510	4,120		630	630	5,920	3,500	10,680
· ·	1,789,000	8,400	3,78	29,600	220	98	8	2,920	820	5,080		3	8.		3,530	12,570
		10,700	27,300	38,000	88	8	220	3,460	8	818		1 870	1,870		3,36	14,260
		13,400	32,900	46,300	3	8	88	4,020	8	7.180		2,590	2 590		2,970	15,660
1,923,000 2,9		16,400	38,100	24,500	88	-46	8	4,580	8	8 230	1.	3,320	3,320	7,720	2,470	16,830
٠,		19,700	42,900	62,600	710	089,	840	5,120	1,070	9,430	:	4,070	4070	7.360	2,480	17,980
2,337,000 3,6	3,619,000	23,200	47,800	71,000	8	1,900	036	5,610	1,160	10,470		4,920	4,920	6,730	2,620	19,190
	4,010,000	27,200	53,200	80,400	ģ Š	2,150	1,070	6,120	38	38		2000	2,900		2.770	8 4
	4,443,000	31,900	59,300	91,200	286	2,420	1,210	6,650	38	12,900	8	0989	098'9		2,910	2 8
	Š	37,300	65,800	103,100	1,530	2,730	98	728	8	14,280	3	7 320	7,320		3,060	23,48
1		43,600	3,18	116,700	98.	3,080	35	7.760	1 550	15,790	1 110	7,810	7,810		3,210	25,260
L	Ļ	50,000	80,200	130,200	2,180	3,410	87,	8,220	8	17,150	1.700	8,230	8,230	5,310	3,340	26,930
1		57,300	8,5	145,400	2,580	3,770	8	9,680	989	18,590	84,0	8,780	8,780	5,180	3,460	28,600
		85.50	36,700	162,200	30,00	8	2,080	80,0	8	8,14	82	9,320	9320		3,590	38,380
٠. ١.			38,180	181,000	3,580	629,	2,310	9,470	8,	21,770	8,4	088'6	068'6		3,78	32,200
	4		116,600	202,400	4,210	5,120	2,560	9,810	1,810	23,510	5,330	10.490	10,490	,	3,790	34,040
1_	9,157,000	_		222,180	4,810	5,570	2,790	10,030	1.810	25.010	6,390	10.960	10,960		3,890	35,590
				243,700	84.6	090'9	3,030	10,200	8	26.570	7 590	1.450	11.450		3,990	37,180
	111	_		267,500	6,270	9,59	330	10,280	35,	28,200	8,00	1.98	1.00	1,860	4,080	38,780
			·	283,500	81.7	7.170	3,580	10,280	88.	29,870	10,450	12,470	12,470	8	8	40,420
				322,400	8,130	7,800	3,900	10,200	1,570	31,600	12,280	12,720	12,720	:	4,270	2. 8
L	13,050,000	62,500	184,900)	349,400	060'6	3,400	4,200	10,020	1,460	33,170	14,460	12,470	12,470		4,430	260,4
8,215,000 13,9		•	99,400	378,900	10,150	000	4.510	9,740	1,310	87.78	16,910	12,110	12,110	ž	65,5	80,080
	14,876,000 1	195,800	215,200	411,000	1.340	9,710	4,860	9330	5	36,360	19 650	11 620	11,620	\$3 \$3	4,740	090,84
8,749,000 14,6	14,876,000	195,800	215,200	41.00	£,28	9,710	4,860	08.0	5	36,360	19 650	1.820	11.93	8	47,4	88
8,749,000 14,8	14,876,000 11		215,200	411,000	11,340	9.710	4,860	9,330	1,120	36,360	19,650	11,620	11,620	430	4,740	48.060
8,749,000 14,8	14,876,000 1	195,800	L_	411,000	£,2	9,710	4,860	065,e	1,120	36,360	19,650	11,620	11,620	620	4,740	48,060
8,749,000 14,8	14,876,000	38,800		411,000	± 86.	9,710	4,860	088	<u>8</u>	36,360	19,650	1,620	11,620	8	4,74	8,060
8,749,000 14,8		95,800	215,200	411,000	86.	9,710	4,860	8,330	<u>8</u>	36,36	19 650	11.620	11,620	8	4,740	48,060
8,749,000 14,8	14,876,000	35,800	215,200	411,000	1,36	9,710	4,860	9330	138	36,360	19,650	11 620	11 620	8	4,740	48,060
8,749,000 14,8	14,876,000 1	95,800	215,200	411,000	13,340	9,710	4 860	9,330	1.120	36,360	19 650	11 620	11 620	8 . 4	4,740	48,060

Appendix 9.7.2. Air Traffic at Noi Bai International Airport In the WOP Case

		Total	(36)	10,680	12,570	14,260	15,660	16,830	17.980	19 190	84	23.88	23.48 084.00	25,260	25,260	28,260	28.28	25.260	25,260	25,260	25,260	28,280	25,260	25,260	25,260	28,260	25,260	25,260	25,260	25,260	25 260	25,260	25,260	25.260
		TP	(35)	3,500	3,530	8	2,970	2,470	2,480	2,620	2.770	2910	90°C	3,210	3,210	370	3,210	3,210	3,210	3,210	3,210	3,210	3,210	3,210	3,210	3,210	3,210	3,210	3,210	3,210	3210	3,210	3,210	3270
	stic	ઢ	(34)	2,920	6,680	7,180	7,510	27.7	7,360	6.730	5,870	5,080	5,240	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5,320	5320
	Domestic	ΝΩ	(33)	833	8	1,870	2,590	3,320	4,070	4,920	2,900	6,860	7,320	7,810	7,810	7,810	7,810	7,810	7.810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7.810
		3	(32)	630	3	1,870	2,590	3,320	4,070	4,920	2,900	98.9	7,320	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7,810	7.810
vements		3	(31)									8	3	1,110	1,110	1,110	1,110	1,110	1,110	1,110	1,110	1,10	1,110	1,110	1,110	1,110	1,110	1,110	1,110	1,110	1,110	1,110	011.1	1110
Aircraft Movements		Total	(30)	4,120	2,080	8,18	7,18	86,230	9,430	10,470	3	12,900	14,280	15,790	15,790	15,730	15,730	15,790	15,790	15,790	15,790	15,730	15,790	15,790	15,790	15,790	15,790	15,790	15,790	15,790	15,730	15,790	15,790	15 700
		TP	(62)	510	8	4	8	8	1,070	1,160	98.	380	8	1,550	055,1	35	98	1,550	.550	1,550	1,550	33	956	1,550	1,550	1,550	033	33	1.550	1,550	1.550	1,550	83	9
	tional	3	(28)	2,400	2920	3,450	8	4,580	5,120	5,610	6,120	6,650	2,2	7,760	7,760	7.7	7,760	7,760	7 760	7,760	7.7	7,760	7,78	7,760	7,760	7,760	7,760	7,7	7,760	7,760	7.760	7 760	7,760	7.750
	International	ΜÜ	(22)	88	8	88	8	8	8	98	1,070	9 74 7	86	1,540	0,5,0	8	2 8	<u>2</u>	1.540	1,540	30	2. 8	2 8	8	1,540	8	2 3	<u> </u>	1.540	1,540	<u>y</u>	38	3	97
		3	(32)	069	88	8	8	8	1.690	1.900	2 150	243	2,73	3,080	3,080	3000	3000	3000	3,080	080°C	3,080	3,080	3,080	3,080	3,080	3,080	3,080	88	3,080	3,080	080 0	3 080	88	080
		<u>بر</u>	(52)	180	S X	8	3	8	710	959	8	38	8	1 860	1,860	8	980	98	1.860	08.	380	980	.880	1.860	1,860	1,860	86	8	1,860	1,860	86	1 860	1 860	1 850
		Total	(24)	22 200	888	88	8	88	62,600	71,000	80 400	8	8,18	116,700	116,700	116,700	116 700	116 700	116,700	116,700	116,700	116,700	116,700	116,700	116,700	116,700	116,700	116,700	116,700	116,700	116 700	116,700	116,700	116 700
Sargo	(tou)	Dom.	(23)	15,600	8 %	27.30	32,98	8,18	42,900	47,800	2320	89	88,88	3,18	73,100	8	ا ا	8 8	73,100	73,100	8	ا 8	3,10	73,18	73,100	5 8	ક ક	8	73,100	73,100	ಕ 8	23,100	8	73,00
		inti	(22)	009'9	8	0,70	13,400	16,400	19,700	23,200	27.20	<u>8</u>	37,300	43,600	43,600	83,88	8 8	8,80	43,600	43,600	43,600	\$ 00,5	43,600	43,600	43,600	8	43,600	8,88	43,600	43,600	88.8	3 600	8 8 8	43,600
		Total	(53)	1,422,000	1 789 000	2,168,000	2,547,000	2,915,000	3,267,000	3,619,000	4,010,000	443,000	4,924,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5,458,000	5 458 000
Passengers		Dom.	(02)	000'096	202,000	455,000	.000.809.	923,000	2,126,000	2,337,000	2,569,000	2,823,000	3,103,000	3,411,000	3,411,000	3,411,000	3,411,000	3,411,000	3.411,000	3,411,000	3,411,000	3,411,000	3,411,000		3,411,000	3,411,000	3,411,000	3,411,000	3,411,000	3,411,000	3,411,000	3,411,000	3,411,000	3.411,000
Pass		-		472,000	***	713,000	949,000 1.	992,000 1,	,141,000 2,	282,000 2;	41.000	,620,000	,821,000		2,047,000 3,	2,047,000 3,	2,047,000 3,	2,047,000 3,						2,047,000 3,				2,047,000 3,			2,047,000 3,			:
_	 تر	Ë	(19)						_	_		-			<u> </u>			2 5						_						-4.74				
	Year			1995	986	1887	1988	488	88	200	88	88	8	2000	8	11 11	88	88	8	<u>ج</u>	2012	2013	2014	2015	2016	\$	2018	ह्य	2020	2021	202	8	202	2025

Appendix 9.7.3 Incremental Air Traffic at Noi Bai International Airport by the Project

_									_				· ——	r <u>-</u> -						<u> </u>				-				_	-				_
		Tota!	18) - (36)											1,670	3,340	5,120	8,9	8,780	10,330	11,920	13,520	15,160	16,920	18,830	20,88	22,88	22,880	2,80	22,800	22,28	22,88	22,800	22,80
		ΔL	(35) (1 38	8	88	8	88	089	8	870	970	1,060	, 82	88.	83	33	1,530	1,530	83	8	88,	5
	Q	જ	(34)						-					-10	6	88	8	1,380	-1,930	-2,620	გ 8	0.470	-5,130	090'5-	8	880	4. 89.	4.890 0.890	4.890	68,4	88,	4. 86.	7 890
	Domestic	MJ	- (33)(1(8	970	1,510	2,080	2,680	3,150	0.00 0.00	4.18	4,660	4,910	4,660	8,30	3,810	3,810	3,810	3,810	3,810	3,810	3,810	3.840
		3	-(28)[(11) - (29)](12) - (30)[(13) - (31)](14) - (32)[(15) - (33)](16) - (34)[(17) - (35)](18) - (36)[(18) - (36)](18)				•		l					88	970	1,510	2,080	2,680	3,150	049.	04.14	660	4,910	4,660	98,	3,810	3,810	3,810	3,810	3,810	3,810	3,810	3,810
ents		11	(31)(14)						<u> </u>				· .	280	8	2,110	3,090	4,220					1,170			18,540	18,540	18,540	18,540	18,540		18,540	540
Aircraft Movements	_	- -	(30)(02)	<u> </u>	1	<u></u>		· ·	-		-	• .	- <u></u>	1,360	8				_	08/0		:	15,810 11			20,570 18			Ĺ			÷.	
Aircra		Tot	⊗)(12) - (<u>.</u>	-					80		:	240 5,					130							82				_
		ď.	0 (11)			-					·				<u>.</u>																		
	International	3	(10) - (28					4. 						460	8	1,32	1,710	2,050	2,27	2,440				2		1,57	1,57	1.570	1,57	1,57	, ,	1,570	157
	Intern	₹	(9) - (27)											36	8	8	2	1,020	1,250	64.	1,760	2,050	2,360	2,660	2,970	3,320	3,320	3,320	3,320	3,320	3,320	3,320	3330
		3	(9) - (26)		·									330	8	8	8,	20.0	2,490	2,980	3,510	4,090	4,720	5,320	5,950	989	6,630	6,630	6,630	6,830	6,630	6.630	S
		3	(2)					-		ud-dou	imert e			330	8	8	27.	2,350	2,980	3,630	4,410	5,280	6.270	7,230	8,230	9,480	9,480	9,480	9,430	9,480	9,480	9,480	0.480
-	<u>.</u>	Total	(6) - (24)	-										13,500	28.700	45,500	64,300	85,700	105,400	127,000	150,800	176,800	205,700	232,780	262,200	294,300	294,300	294,300	284,300	284,300	234.300	284,300	200
Cardo	(ton)	E B B	(5) - (23)						Ì					7.18	15,000	23.68	33,000	\$5,500	52,900	8,13	74,000	85,700	98,500	11,800	126,300	142,100	142,100	42,18	142,100	8,13	81.24	142,100	42.100
		124	(4) - (22)				,			·				6,400	13,700	86.	31,300	42,200	52,500	8	76,800	8	107,200	120,900	135,900	152,200	152,200	152,200	152,200	152,200	152,200	152,200	150 200
		leto!	(3) - (21)								•			508,000	000 200	67.00	2,336,000	3,062,000	3,699,000	4 384 000	5,121,000	5,914,000	6,766,000	7,592,000	8,475,000	9,418,000	9,418,000	9,418,000	9,418,000	9,418,000	9,418,000	9,418,000	0.418 000
Passenders		Dom.							1					298,000	621 000	920	356,000	772,000	2,130,000	2,514,000	2,924,000	3,363,000	3,832,000	4,302,000	4,804,000	5,338,000	5,338,000	338 000	5,338,000	5,338,000	5,338,000	5,338,000	A 228 000
Pas		Ē	(1) - (1)							-	* :			210,000	42 000	000 300	980,000	290,000	569,000					L.					<u> </u>		~ V		2 000 000
-	ē		Ξ	1995 1996	1007	800	0000	200	3 6		3 8	3 3	2 8	<u> </u>				·						L			· ·	:	L				_
	Year			1985 2885	į	o Ç		2 8		3 6	₹ 8	3	8 8 8 8	8	2007	8	8	8	8	8	8	84	2015	2016	8	2018	8	8	8	8	83	2024	202

Airport	Sylom	Special	Aurport	Supply	Fire Fighting	Mainte.	Navigation	and and	Ston and	Services	gencies	Total
WORKS (1)	(z)	(2)	(4)	(5)	(6)	(1)	(8)	(B)	(10)	(4.1)	(2,1)	(13)=(1)++(12)
									1-000 0.000 0.000 0.000 0.000 0.000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	711, 1,989 1,989	- 122 2,12 2,12 2,12 1,12 1,13 1,13 1,13 1
8,790 2,790 2,790 32,548 848,77	9,569 28,707 38,276	2,000 5,000	- 4.0.8.4 - 4.0.8.4 - 0.08.8.4 - 0.08.8.4 - 0.08.8.4	25.00 25.00	1,050	888	3,540 8,850 3,310	1,428 1,428 1,428		44480 4480 4480 8446 8444 8444	7,427 7,015 8,04,21 8,7,89	4,077 77,14 1,0,000 1,0,000 1,0,000 1,0,000 1,0,000 1,0,000 1,000
8.8.8 6.900 7.000			200	10,000 10,000			3,250 3,250		9/2 324 648 648 648		132 258 1,658 4,020 4,230	2.842 2.842 44.223 46.533
	4											
-67,241	51,503										10 m	-118,744
otal 175,160	95,690	11,890	22,200	17,600	2,100	400	17,700	7,140	23,490	34,980	40,650	449,000
		2,100	8	20,000 20,000	o besed seter o	or the anticipal	20,000 6,500 6,500 page distribution rates based on the anticipated implementation	18	3,240	9,040	10,280	113,000
LE	Civil	Building	ë	Otilities	Fuel	FFV	Mainte. Eq.		Officer	Compen.	Consul.	
1998 1998 1998 2002 2002 2003 2004 2004 2005 2006	25% 25% 30% 10%	24 900 2008 2008 2008	%% 800 800 800 800 800 800 800 800 800 8	200 200 200 200 200 200 200 200 200 200	25.50 30.50 80 80.50 80 80 80 80 80 80 80 80 80 80 80 80 80	8008 808	8.60 8.80 8.80 8.80 8.80 8.80 8.80 8.80	2008 3008 3008	20% 60% 20%	\$ 25 \$ 26 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20	፟ አይኮ አሜሪካ አሜሪካ አሜሪካ አሜሪካ አሜሪካ አሜሪካ አሜሪካ አሜሪካ አማሪካ አ አ አ አ አ አ አ አ አ አ አ አ አ	
2003 2004 2008 2008 2009 2010	Long-lerm Development 2007 2007 2008 33% 20% 2010 33% 40%	20 804 804 804	180%	%0s	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	*001	100%	20% 50%	33%	20% 20% 20% 20%	25% 25% 25% 25%	

Appendix 9.7.5 Incremental Maintenance Cost by the Project - Alternative-2(a)

(2) (3) (4) Supply Pigning Figning Mainte. Raylation Navigation System Assistem (e) (6) (7) (8) (2) (3) (4) (5) (6) (7) (6) (7) (8) 722 (2) (3) (4) (5) (6) (7) (6) 722 (2) (3) (4) (6) (7) (6) (7) (6) 722 (2) (2) (2) (2) (2) (6) (7) (6) 723 (2) (2) (2) (2) (3) (7) (8)		Airport	Building	Special	Airport	Fuel	Fire	Airport	Air	Total
(1) (2) (3) (4) (5) (6) (7) (9) (9) (1) (1) (2) (1) (2) (1) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	'ear	Vorks	Works	Equipment	Otinies	Supply	Fighting Vehicles	Mainte. Equipment	Navigation System	
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1,929 1,349 700 271 1,128 63 12 1 1,929 1,349 700 271 1,128 63 12 1 Maintenance cost is estimated by the following percentage rates on the construction cost of each airport facility. 12 1 Aurport Civil Works 1% 1% 1% 12 1 Special Equipment 5% 3% 12 1 Fire Fighting Vehicles 3% 3% 3% Airport Maintenance Equipment 3% 3% Air Navigation System 5% 3%	2	1,929	-	7007		1,128	ம்	12	1,210	:
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Maintenance cost is estimated by the following percentage rates Airport Civil Works Special Equipment Airport Utilities Fire Fighting Vehicles Airport Maintenance Equipment Six Airport Maintenance Equipment	24	1,929		700	271	1,128	හ	3	1,210	6,661
Maintenance cost is estimated by the following percentage rates Airport Civil Works Airport Utilities Fire Fighting Vehicles Airport Maintenance Equipment Airport Maintenance Equipment Six Airport System Six Airport System Six Airport System Six Airport Maintenance Equipment Six Airport System Six Airport System Six Airport System Six Airport System	22	1,929	1346	7007	٠ [1,128	త	3 12	1,210	99'9
pment	ote:	Maintenance cos	ě	the following perce	<u>ي</u> ا	construction cos	t of each airport	facility.		
pment		איניסטן כיואוי אאסוו	2		Ŗ					
pment		Building Works			1%					
pment		Special Equipme	ent		8% 8%					
pment		Airport Utilities			1%					
pment		Fuel Supply Syst	tern		3%					
pment		Fire Fighting Ver	ricles		3%	: .				
	,	Airport Maintenai	nce Equipment		3%				-	
		Air Navigation Sy	vstem		2%			-		

Appendix 9.7.6 Incremental Personnel Cost, Overhead and Other Labor Costs by the Project

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incre	mental	3	(SSD 000)	(16)-(9)-(10)-(11	(13)-(14)-(15)												91	356	22		1,14	1,43	1,74	2,09	2,47	2,88	3,32	3,79	16,4	4,53	4,76	4,99	5,24	5.51	5,79	80'9
	Sper	Ses	(330 LSS)		(35)	149	193	239	282	327	371	413	460	512	886	936	9/9	718	764	812	8	8 06	8	90,	8	1,120	1,176	1,235	1,298	88	1,432	1,503	1,578	1,658	1,741	1.829
ď.	Overhead	Cost	(SSD 000)		(J.4)	331	427	529	929	724	822	915	1,020	1,135	1,260	1.411	1,499	1,592	469,	1,801	1,912	2,014	2,121	2,237	2,358	2,483	2,608	2,738	2,877	3,021	3,174	3,332	3,499	3,676	3,861	4,056
W	Personnel	S	(880 000)	(13)=(1)x(1	ন	023	837	1 038	1 228	1 420	1,613	1,794	2,001	2,226	2,471	2,766	2,939	3,121	3,322	3,531	3,749	3,949	4,159	4,386	4,623	4.869	5,114	5,369	5,642	5,924	6,224	6,534	6,861	7,207	7,571	7,953
	Peder	ŏ	Staff		3										1		l .		_ :					. 1.							910		٠			900
	Other	Cost			(11)	149	193	239	282	327	371	413	460	512	88	936	869	765	8 64 64	919	4.0	860,1	1.188	1,286	1,390	8	919'1	757.	88	8.	2,061	2,163	2,272	2,386	2,507	2,633
	Overhead	Š	(ssn coo)		(O)			529			822		_	_	<u>.</u>	_						L	· .			<u>:</u>	_								5,559	
	Personnel	Cost	(3SD 000)		(9)=(1)x(8)	939	83,	1,038	1,228	1,420	1,613	1,794	2,001	2,226	2,471	2,766	900'6	3,327	3,650	3,996	4.408	4,774	5,164	5,591	6,045	6,527	7,025	7,552	8,12	8,528	096'8	9,406	9,877	10,375	10,899	11,449
	Number	ŏ	Staff		(9)					: '. :	:														_	-	•		•-	_	1,310	1,310	1,310	1,310	1,310	1,310
L	L.		Rate		(0)-(2)-(6)		19.3%	14.7%	10.6%	7.5%	5.0%	%0.4	4.0%	4.0%	4.0%	4.1%	3.4%	3,4%	3.4%	3.4%	3.5%	2.5%	2:5%	2.5%	2.5%	2.6%	2.1%	2.1%	81.18							
ďΜ	Productivity	Improve-	ment		6				1	1:	7.5%			_			6.3%	6.3%				٠.					-		80.0 0.08	5.0%	5.0%	2.0%	808	5.0%	5.0%	
	Traffic	Ç	Growth		0		26.8%	22.2%	18.1%	15.0%	12.5%	11.2%	11.2%	11.2%	112%	11.3%	8.7%	9.7%	9.7%	9.7%	9.8%	%67	7.9%	7.9%	7.9%	8.0%	%1.7	7.1%	7.1%	· .			:	: .		
	Traffic	Ş		(4)- $(2)/1000$	+(3)/100	1,644	2,085	2,548	3,010	3,460	3,393	626,4	4,814	5,355	5,955	6,625	7,268	7,975	8,751	89,6	10,544	11,378	12,279	13,254	14,307	15,448	16,544	17,722	18,986	18,986	18.986	18,986	18,986	18,986	18,986	18,986
	Sargo	1	(Go		ô	22,200	20,600	38,000	46,300	54,500	62,600	71,000	80,400	91,200	103,180	116,700	130,200	145,400	162,200	181,000	202,400	222,100	243,700	267,500	293,500	322,400	349,400	378,900	00:11	411,000	411,000	411,000	80,1	411,000	00,114	411,000
	Passengers)			0	1,422,000	789,000	2,168,000	2,547,000	2,915,000	3,267,000	3619,000	4,010,000	4,443,000	4,924,000	5,458,000	000,396,3	6,521,000	7,129,000	7,794,000	8,520,000	9,157,000	9,842,000	10,579,000	11,372,000	12,224,000	13,050,000 }	13,933,000	14,876,000	14,876,000	14,876,000	14,876,000	14,876,000	14,876,000	14,876,000	2025 8,740 14,876,000 411,000 18,986
Ont Staff	L		(US\$/Year)		£	1,005,1	019.1	5,730	088.	2,000	2,150	2,300]	2,470	2,650	2,840	3000	3230	3,430	3,650	3,880	4,120	04,340	4,570	4,820	5,080	5,350	5,620	2,900	6200	6,510	6.840	7,180	7,526	7,920	8,320	8.740
	Year			4		19861	8	1997	388	986	2002	002	2002	203	Š	200	- 30% 50%	2002	2008	88	2010	2011	2012	823	8.4.4	2015	2016	842	8	2013	88	2021	8	2023	2024	2025

. rersonner cost includes pasts saarres, contases, perison and insurance.
The average cost is estimated to increase at the same rate CDP per capita growth rate as follows:

1995-2000 7.5% per annum 2010-2010 6.3% per annum 2015-2020 5.0% per annum 2000-2005 5.0% per an

The number of staff is assumed to increase in proportion with the growth of traffic units less productivity improvement of the staff, which is equal to the increase in their real income. The number of staff in 1995 is the indicative staffing target by the organizational study in Section 13.6.3, in stead of the actual number of 856. Note 2: Traffic unit is defined as 1/1000 of annual number of passengers plus 1/100 of annual tonnage of cargo. Note 3: The number of staff is assumed to increase in proportion with the growth of traffic units less productivity i Note 4:

It is recommeded in Section 13.7.5 that the current overstaffed situation be corrected to these staffing targets in 4 years after a decidion to proceed is made. Note 5: Overhead cost includes professional management expenditure, travel coat, stationary supply, telephone charge, uniform, land tax and training cost.

It is estimated as 51% of personnel cost based on the financial statement of the NAR in 1994.

Note 6: Other labor cost includes payments to workers for cleaning and gardening of terminal area, etc. it is estimated as 23% of personnel cost based on the financial statement of the NAR in 1994.

incremental		Expenses	(SSU 000)	(9)=(4)-(8)						i.i.						446	34	3	94	34	8 8	8	8	996	88	9 3	996	8	986	998	986	996	996	986	996
	ल 6	3	(\$SD 000)	(8)=(6)+(7)	289	882	289	280	289	780	1,086	1,065	1,065	1,065	356	1,055	1,055	198	1,055	1,055	1,055	133	385	1,055	1,055	350,	380,	586	1,055	1,055	38.	1,065	1,055	388	1,065
	3	8	(\$SO 000)	ϵ	4-	4	4	4	4	4	ß	S	8	B	B	જ	ß	B	8	ጽ	જ	B	8	S	S	ያ	ያ	8	B	ያ	3	8	ያ	8	ន
φ O	Electricity	šš	(\$50 000)	(<u>s</u>)	275	275	275	275	275	275	1,005	8	1.005	1 88	1005	1,85	1,005	1005	8	188	1,005	505.	8.	1,88	1,88	1,005	38.	1,005	1,005	200.	1,005	- 88	1005	1,005	1,005
	Fiechcity	Consumb.	(MWH)	(c)	5,500	5,500	2,500	5,500	5,500	5,500	20,180	20,18	8,78	80,18	8,18	20,100	8,18	8,18	20,100	20,100	20,100	8,5	80,18	20,180	20,100	20,100	818	8,18	8,18	20,18	20,100	20,18	8,5	20,18	20,180
	ETO-	ğ	(\$50 000)	(4)=(2)+(3)	286	882	887	289	280	289	1,065	1,055	350,1	1,065	1,055	1,502	1,502	1,502	1,502	1,502	2,021	2,021	2,02	2,02	2,021	2,021	2,024	7,027	2,021	2,024	2,021	2,021	2024	2,02	2.021
ı	6	ğ	(3SO 0SS)	(6)	14	4	4	4	4	4	ያ	ያ	ន	8	S	72	2	2	2	72	38	8	8	8	98	8	8	8	8	8	8	8	ક્ષ	8	1,925 96 2,021
A A	Fiections	8	(\$\$0 000)	(2)	275	275	275	275	275	275	1,005	1,005	589.	1.005	1,005	1,430	- 43	087	85.	1,430	1,925	1,925	1,925	.985	1,925	1,925	1,925	526.	1,925	1,925	1,926,1	526.	525.	326	1,925
	record	Consumb.	(MWH)	(1)	9,500	2,500	5,500	2,500	5,500	5,500	80,18	8,18	8,18	8,18	20,100	28,600	28,600	28,600	28,600	28,600	38,500	38,500	8,500	38,500	38,500	38,500	38,500	38,500	38,500	38,500	38,500	38,500	38,500	38,500	38,500
3	rear				1995	986	1997	1998	1999	2000	2001	2002	2003	2002	2005	2006	2007	8	500	2010	2011	2012	2013	2014	2015	20:6	84	82	849	2020	2021	222	888	2024	2025

Note 2: