

TRAFFIC COUNT FORM

BASIC DESIGN STUDY ON THE PROJECT FOR ROAD IMPROVEMENT WORKS
IN TONGATAPU IN THE KINGDOM OF TONGA

Station No.: 10 Road Name : VAEA Rd Date: 20/10/93

Direction :from NORTH to SOUTH Weather: Sunny

Hour	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	Total
Truck Heavy										1			1
Truck Light	3	9	3	5	2	3	4	3	3	5	4	6	50
Horse & Cart								1					1
Bus Heavy													
Bus Light													
Car	1	2	5	4	2	3	1	3	1	4	2	7	35
Motor Cycle													
Tractor													
Others													
Total	4	11	8	9	4	6	5	7	4	10	6	13	(2) * 87

[100]**

* The ratio of heavy vehicle by percentage
** Dairy traffic volume converted by the ratio of dairy traffic to daytime traffic (r=1.15)

TRAFFIC COUNT FORM

BASIC DESIGN STUDY ON THE PROJECT FOR ROAD IMPROVEMENT WORKS
IN TONGATAPU IN THE KINGDOM OF TONGA

Station No: 11 Road Name : LIKU Rd Date: 21/10/93

Direction :from EAST to WEST Weather: Sunny

Hour	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	Total
Truck Heavy									1				1
Truck Light	3	1	3	2	8	4		1			3	3	28
Horse & Cart			1	1	1				1				4
Bus Heavy	1												1
Bus Light						1	1						2
Car	3	3	5	2	1	6	8	6	4	10	3	8	59
Motor Cycle					2				1				4
Tractor						1							1
Others													
Total	7	4	10	5	12	12	9	7	7	10	6	11	(2) * 100

[115]**

* The ratio of heavy vehicle by percentage
** Dairy traffic volume converted by the ratio of dairy traffic to daytime traffic (r=1.15)

TRAFFIC COUNT FORM

BASIC DESIGN STUDY ON THE PROJECT FOR ROAD IMPROVEMENT WORKS
IN TONGATAPU IN THE KINGDOM OF TONGA

Station No: 11 Road Name : LIKU Rd Date: 21/10/93

Direction : from WEST to EAST Weather: Sunny

Hour	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	Total
Truck Heavy											1	1	2
Truck Light		4	3	3	4	5	3			3	2	3	30
Horse & Cart				1	1		1			1			4
Bus Heavy	1					1					1		2
Bus Light						1	1						2
Car	2	6	5	3	5	5	7	7	6	8	7	8	69
Motor Cycle					1								1
Tractor					1	1				1			3
Others													
Total	3	10	8	7	12	13	12	7	6	13	10	12	(4) 113 *

[130]**

* The ratio of heavy vehicle by percentage
** Dairy traffic volume converted by the ratio of dairy traffic to daytime traffic (r=1.15)

TRAFFIC COUNT FORM

BASIC DESIGN STUDY ON THE PROJECT FOR ROAD IMPROVEMENT WORKS
IN TONGATAPU IN THE KINGDOM OF TONGA

Station No: 12 Road Name : HIHI FO Rd Date: 22/10/93

Direction :from WEST to EAST Weather: Sunny

Hour	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	Total
Truck Heavy	1	1	1	3	4	3	2	3	4	3	2	1	28
Truck Light	5	22	13	12	3	10	7	10	13	11	8	13	127
Horse & Cart													
Bus Heavy		4	1			1					1		7
Bus Light	2	2	4	2	2	2	2	3	2	4	2	3	30
Car	13	36	21	27	10	15	19	18	21	16	13	25	234
Motor Cycle	1						1					1	3
Tractor									1				1
Others					1				3				4
T o t a l	22	65	40	44	20	31	31	34	44	34	26	43	(9) * 434

[499]**

* The ratio of heavy vehicle by percentage
** Dairy traffic volume converted by the ratio of dairy traffic to daytime traffic (r=1.15)

TRAFFIC COUNT FORM

BASIC DESIGN STUDY ON THE PROJECT FOR ROAD IMPROVEMENT WORKS
IN TONGATAPU IN THE KINGDOM OF TONGA

Station No: 12 Road Name : HIHIFO Rd Date: 22/10/93

Direction :from EAST to WEST Weather: Sunny

Hour	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	Total
Truck Heavy			4	3	2	4	3	3		1	1	3	24
Truck Light	1	8	9	10	6	7	7	11	11	18	12	16	116
Horse & Cart						1						1	2
Bus Heavy			1			1				1	1	1	5
Bus Light	3	4	3	3	2	3	5	1	3	3	2	6	38
Car	7	12	13	14	13	21	22	18	21	21	31	41	240
Motor Cycle				1			1					2	4
Tractor													
Others				1	1	1							3
T o t a l	11	24	30	32	30	38	38	33	35	44	47	70	(7) * 432

[497]**

* The ratio of heavy vehicle by percentage
** Dairy traffic volume converted by the ratio of dairy traffic to daytime traffic (r=1.15)

APPENDIX 4

PHOTOGRAPHS

OF

THE REQUESTED ROADS

ROAD CONDITION SURVEY SHEET

Sub Section		1 - 1	Length (km)		7.5	Part	0 ~ 0.5 km									
Survey Date		10 / 9	Weather		Sunny	Cross Section (m) <table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center;">9</td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">5</td><td style="text-align: center;">2</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table>		9			2	5	2			
9																
2	5	2														
Pavement	Type	Paved	Roadside	Right	House											
	Cond.	Bad	Landuse	Left	Sea											
Shoulder	Type	Unpaved	Waterway		---											
	Cond.	Bad	Crossing													
Side	Type	NA	Remarks		40 km/h											
Ditch	Size															
	Cond.															

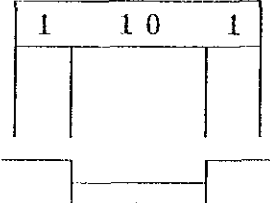


ROAD CONDITION SURVEY SHEET

Sub Section		1-1	Length (Km)		7.5	Part	0.5 ~ 3.0 Km									
Survey Date		10/9	Weather		Sunny	Cross Section (m) 1 1 <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1.5</td> <td style="width: 40px; text-align: center;">8</td> <td style="width: 20px; text-align: center;">1.5</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>		1.5	8	1.5						
1.5	8	1.5														
Pavement	Type	Paved	Roadside	Right	House											
	Cond.	Fair	Landuse	Left	Sea											
Shoulder	Type	Unpaved	Waterway		---											
	Cond.	Bad	Crossing													
Side	Type	NA	Remarks		50 Km/h											
	Size															
Ditch	Cond.															
		(Running Speed)														



ROAD CONDITION SURVEY SHEET

Sub Section		1 - 1	Length (Km)		7. 5	Part	3.0 ~ 3.5 Km
Survey Date		10 / 9	Weather		Sunny	Cross Section (m)	
Pavement	Type	Paved	Roadside	Right	Office		
	Cond.	Fair	Landuse	Left	Office		
Shoulder	Type	Paved	Waterway		—	<div style="text-align: center;"> 1 2  </div>	
	Cond.	Fair	Crossing				
Side	Type	NA	Remarks		30 Km/h		
Ditch	Size		(Running Speed)				
	Cond.						



ROAD CONDITION SURVEY SHEET

Sub Section		1 - 1	Length (Km)		7. 5	Part	3.5 ~ 6.0 Km									
Survey Date		1 0 / 9	Weather		Sunny	Cross Section (m) <div style="text-align: center; margin-bottom: 5px;">1 2</div> <table border="1" style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">2</td> <td style="width: 40px; text-align: center;">8.5</td> <td style="width: 20px; text-align: center;">1.5</td> </tr> <tr> <td style="height: 20px;"> </td> <td style="height: 20px;"> </td> <td style="height: 20px;"> </td> </tr> <tr> <td style="height: 20px;"> </td> <td style="height: 20px;"> </td> <td style="height: 20px;"> </td> </tr> </table>		2	8.5	1.5						
2	8.5	1.5														
Pavement	Type	Paved	Roadside	Right	Hotel											
	Cond.	Fair	Landuse	Left	Sea											
Shoulder	Type	Paved	Waterway		—											
	Cond.	Fair	Crossing													
Side	Type	N A	Remarks		4 0 Km/h											
	Size															
Ditch	Cond.					(Running Speed)										

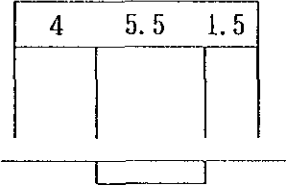


ROAD CONDITION SURVEY SHEET

Sub Section		1 - 1	Length (Km)		7. 5	Part	6.0 ~ 6.8 Km
Survey Date		1 0 / 9	Weather		Sunny	Cross Section (m) 1 1 4 5.5 1.5	
Pavement	Type	Paved	Roadside	Right	Field		
	Cond.	Very bad	Landuse	Left	Sea		
Shoulder	Type	Unpaved	Waterway		—		
	Cond.	Very bad	Crossing				
Side Ditch	Type	N A	Remarks (Running Speed)		2 0 Km/h		
	Size						
Cond.							



ROAD CONDITION SURVEY SHEET

Sub Section		1 - 1	Length (Km)		7.5	Part	6.8 ~ 7.5 Km
Survey Date		10/9	Weather		Sunny	Cross Section (m) 11 4 5.5 1.5 	
Pavement	Type	Paved	Roadside	Right	Field		
	Cond.	Very bad	Landuse	Left	Sea		
Shoulder	Type	Unpaved	Waterway		—		
	Cond.	Very bad	Crossing				
Side	Type	NA	Remarks (Running Speed)		20 Km/h		
Ditch	Size						
	Cond.						



ROAD CONDITION SURVEY SHEET

Sub Section		1 - 2	Length (Km)		5. 6	Part	0 ~ 1 Km									
Survey Date		1 0 / 9	Weather		Sunny	Cross Section (m) 1 0 <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">1</td> <td style="width: 40px; height: 20px;">8</td> <td style="width: 20px; height: 20px;">1</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>		1	8	1						
1	8	1														
Pavement	Type	Paved	Roadside	Right	Office											
	Cond.	Bad	Landuse	Left	House											
Shoulder	Type	Unpaved	Waterway		—											
	Cond.	Very bad	Crossing													
Side	Type	NA	Remarks		4 0 Km/h											
Ditch	Size															
	Cond.															



ROAD CONDITION SURVEY SHEET

Sub Section		1 - 2	Length (Km)		5.6	Part	1 ~ 5.6 Km						
Survey Date		10/9	Weather		Sunny	Cross Section (m) <div style="text-align: center;">10</div> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">2</td> <td style="width: 40px; height: 20px;">6</td> <td style="width: 20px; height: 20px;">2</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>		2	6	2			
2	6	2											
Pavement	Type	Paved	Roadside	Right	House								
	Cond.	Bad	Landuse	Left	Coconut								
Shoulder	Type	Unpaved	Waterway		3								
	Cond.	Very bad	Crossing										
Side	Type	NA	Remarks		40 Km/h								
Ditch	Size												
	Cond.												
				(Running Speed)									



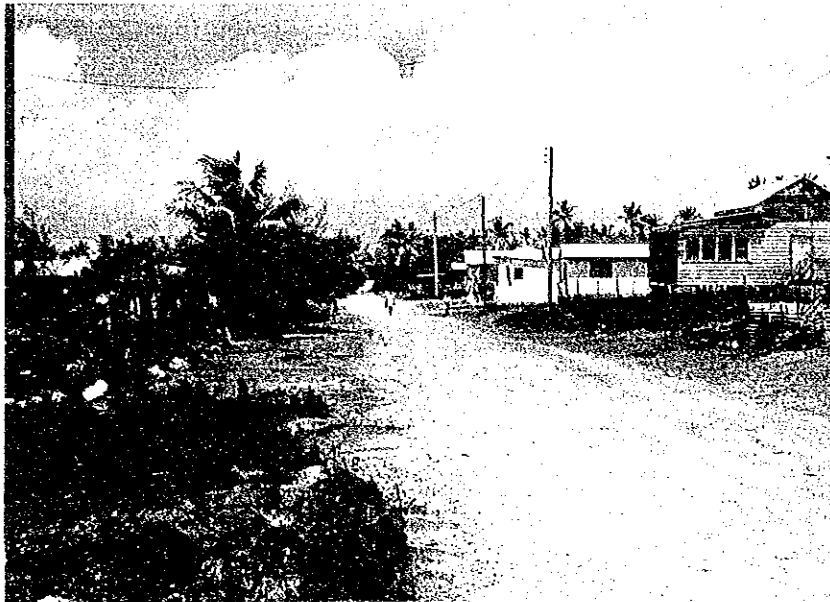
ROAD CONDITION SURVEY SHEET

Sub Section		3 - 1	Length (Km)		10. 6	Part										
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m) <div style="text-align: center;">9</div> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">1</td> <td style="width: 40px; height: 20px;">7</td> <td style="width: 20px; height: 20px;">1</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>		1	7	1						
1	7	1														
Pavement	Type	Paved	Roadside	Right	Coconut											
	Cond.	Very bad	Landuse	Left	Coconut											
Shoulder	Type	Unpaved	Waterway		—											
	Cond.	Bad	Crossing													
Side	Type	N A	Remarks		4 0 Km/h											
	Size															
Ditch	Cond.		(Running Speed)													



ROAD CONDITION SURVEY SHEET

Sub Section		3 - 2	Length (Km)		9. 7	Part							
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m) 6.5 <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1</td> <td style="width: 40px; text-align: center;">4.5</td> <td style="width: 20px; text-align: center;">1</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> </table>		1	4.5	1			
1	4.5	1											
Pavement	Type	Unpaved	Roadside	Right	Coconut								
	Cond.	Very bad	Landuse	Left	Coconut								
Shoulder	Type	Unpaved	Waterway		---								
	Cond.	Very bad	Crossing										
Side	Type	NA	Remarks		3 0 Km/h								
Ditch	Size												
	Cond.												



ROAD CONDITION SURVEY SHEET

Sub Section		3 - 3	Length (Km)		4. 2	Part							
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m) <div style="text-align: center; margin: 10px 0;">6</div> <table border="1" style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1</td> <td style="width: 40px; text-align: center;">4</td> <td style="width: 20px; text-align: center;">1</td> </tr> <tr> <td style="height: 30px;"></td> <td></td> <td></td> </tr> </table>		1	4	1			
1	4	1											
Pavement	Type	Unpaved	Roadside	Right	House								
	Cond.	Very bad	Landuse	Left	House								
Shoulder	Type	Unpaved	Waterway		—								
	Cond.	Very bad	Crossing										
Side	Type	NA	Remarks		2 0 Km/h								
Ditch	Size												
	Cond.												
		(Running Speed)											



ROAD CONDITION SURVEY SHEET

Sub Section		3 - 4	Length (km)		5.7	Part							
Survey Date		10/8	Weather		Sunny	Cross Section (m)							
Pavement	Type	Paved	Roadside	Right	Coconut	<div style="text-align: center;">10</div> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1.5</td> <td style="width: 20px; text-align: center;">7</td> <td style="width: 20px; text-align: center;">1.5</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>		1.5	7	1.5			
	1.5	7	1.5										
Cond.	Fair	Landuse	Left	Coconut									
Shoulder	Type	Unpaved	Waterway		—								
	Cond.	Bad	Crossing										
Side Ditch	Type	NA	Remarks (Running Speed)		ADB								
	Size				50 Km/h								
Cond.													



ROAD CONDITION SURVEY SHEET

Sub Section		4 - 1	Length (Km)		15. 3	Part							
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m)							
Pavement	Type	Unpaved	Roadside	Right	Coconut	<div style="text-align: center;">7</div> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1</td> <td style="width: 40px; text-align: center;">5</td> <td style="width: 20px; text-align: center;">1</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>		1	5	1			
	1	5	1										
Cond.	Very bad	Landuse	Left	Coconut									
Shoulder	Type	Unpaved	Waterway		—								
	Cond.	Very bad	Crossing										
Side	Type	N A	Remarks		2 5 Km/h								
	Size												
Ditch	Cond.		(Running Speed)										



ROAD CONDITION SURVEY SHEET

Sub Section		5 - 1	Length (Km)		5. 7	Part										
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m) <div style="text-align: center; margin: 10px 0;">7.5</div> <table border="1" style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1</td> <td style="width: 40px; text-align: center;">5.5</td> <td style="width: 20px; text-align: center;">1</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>		1	5.5	1						
1	5.5	1														
Pavement	Type	Paved	Roadside	Right	Coconut											
	Cond.	Bad	Landuse	Left	Coconut											
Shoulder	Type	Unpaved	Waterway		---											
	Cond.	Bad	Crossing													
Side	Type	N A	Remarks		4 0 Km/h											
Ditch	Size															
	Cond.															



ROAD CONDITION SURVEY SHEET

Sub Section		5 - 2	Length (Km)		7.3	Part										
Survey Date		10/8	Weather		Sunny	Cross Section (m) <div style="text-align: center;">7.5</div> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1</td> <td style="width: 40px; text-align: center;">5.5</td> <td style="width: 20px; text-align: center;">1</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>		1	5.5	1						
1	5.5	1														
Pavement	Type	Paved	Roadside	Right	Coconut											
	Cond.	Bad	Landuse	Left	Coconut											
Shoulder	Type	Unpaved	Waterway		—											
	Cond.	Bad	Crossing													
Side	Type	NA	Remarks		40 Km/h											
	Size															
Ditch	Cond.					(Running Speed)										



ROAD CONDITION SURVEY SHEET

Sub Section		5 - 3	Length (Km)		5. 7	Part	0 ~ 3.0 Km						
Survey Date		10 / 9	Weather		Sunny	Cross Section (m) <div style="text-align: center;"> 9 <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">1</td> <td style="width: 40px; height: 20px; text-align: center;">7</td> <td style="width: 20px; height: 20px; text-align: center;">1</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> </div>		1	7	1			
1	7	1											
Pavement	Type	Paved	Roadside	Right	Coconut								
	Cond.	Bad	Landuse	Left	Coconut								
Shoulder	Type	Unpaved	Waterway		—								
	Cond.	Bad	Crossing										
Side	Type	NA	Remarks		40 Km/h								
Ditch	Size		(Running Speed)										
	Cond.												



ROAD CONDITION SURVEY SHEET

Sub Section		5 - 3	Length (Km)		5.7	Part	3.0 ~ 5.7 Km									
Survey Date		10 / 9	Weather		Sunny	Cross Section (m) <div style="text-align: center; margin: 10px 0;">7</div> <table border="1" style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">1</td> <td style="width: 40px; height: 20px;">5</td> <td style="width: 20px; height: 20px;">1</td> </tr> <tr> <td style="width: 20px; height: 20px;"> </td> <td style="width: 40px; height: 20px;"> </td> <td style="width: 20px; height: 20px;"> </td> </tr> <tr> <td style="width: 20px; height: 20px;"> </td> <td style="width: 40px; height: 20px;"> </td> <td style="width: 20px; height: 20px;"> </td> </tr> </table>		1	5	1						
1	5	1														
Pavement	Type	Paved	Roadside	Right	Coconut											
	Cond.	Very bad	Landuse	Left	Coconut											
Shoulder	Type	Unpaved	Waterway		—											
	Cond.	Bad	Crossing													
Side	Type	NA	Remarks		35 Km/h											
Ditch	Size															
	Cond.															



ROAD CONDITION SURVEY SHEET

Sub Section		6 - 1	Length (Km)		5. 4	Part	0 ~ 1.2 Km						
Survey Date		1 0 / 9	Weather		Sunny	Cross Section (m) <div style="text-align: center; margin: 10px 0;">1 3</div> <table border="1" style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">2</td> <td style="width: 40px; height: 20px; text-align: center;">9</td> <td style="width: 20px; height: 20px; text-align: center;">2</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>		2	9	2			
2	9	2											
Pavement	Type	Poved	Roadside	Right	House								
	Cond.	Fair	Landuse	Left	House								
Shoulder	Type	Unpaved	Waterway		—								
	Cond.	Bad	Crossing										
Side	Type	N A	Remarks		5 0 Km/h								
Ditch	Size												
	Cond.												



ROAD CONDITION SURVEY SHEET

Sub Section		6 - 1	Length (Km)		5. 4	Part	1.2 ~ 5.4 Km									
Survey Date		10 / 9	Weather		Sunny	Cross Section (m) <div style="text-align: center;">9.5</div> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1</td> <td style="width: 40px; text-align: center;">7.5</td> <td style="width: 20px; text-align: center;">1</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>		1	7.5	1						
1	7.5	1														
Pavement	Type	Paved	Roadside	Right	Coconut											
	Cond.	Fair	Landuse	Left	Coconut											
Shoulder	Type	Unpaved	Waterway		—											
	Cond.	Bad	Crossing													
Side Ditch	Type	NA	Remarks		50 Km/h											
	Size															
Cond.																



ROAD CONDITION SURVEY SHEET

Sub Section		6 - 2	Length (Km)		2. 7	Part										
Survey Date		1 0 / 9	Weather		Sunny	Cross Section (m) <div style="text-align: center; margin: 10px 0;"> 9.5 <table border="1" style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1</td> <td style="width: 40px; text-align: center;">7.5</td> <td style="width: 20px; text-align: center;">1</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table> </div>		1	7.5	1						
1	7.5	1														
Pavement	Type	Paved	Roadside	Right	House											
	Cond.	Fair	Landuse	Left	Coconut											
Shoulder	Type	Unpaved	Waterway		—											
	Cond.	Bad	Crossing													
Side	Type	N A	Remarks		5 0 Km/h											
Ditch	Size		(Running Speed)													
	Cond.															



ROAD CONDITION SURVEY SHEET

Sub Section		6 - 3	Length (Km)		6.7	Part										
Survey Date		10/9	Weather		Sunny	Cross Section (m) <div style="text-align: center;">9.5</div> <table style="margin: auto; border: 1px solid black;"> <tr> <td style="width: 20px; text-align: center;">1</td> <td style="width: 40px; text-align: center;">7.5</td> <td style="width: 20px; text-align: center;">1</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>		1	7.5	1						
1	7.5	1														
Pavement	Type	Paved	Roadside	Right	House											
	Cond.	Bad	Landuse	Left	House											
Shoulder	Type	Unpaved	Waterway		—											
	Cond.	Very bad	Crossing													
Side	Type	NA	Remarks		40 Km/h											
Ditch	Size		(Running Speed)													
	Cond.															



ROAD CONDITION SURVEY SHEET

Sub Section		7 - 1	Length (Km)		4. 5	Part	0 ~ 0.3 Km						
survey Date		1 0 / 8	Weather		Sunny	Cross Section (m) 1 5 <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1.5</td> <td>1.2</td> <td>1.5</td> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>		1.5	1.2	1.5			
1.5	1.2	1.5											
Pavement	Type	Paved	Roadside	Right	House								
	Cond.	Bad	Landuse	Left	House								
Shoulder	Type	Paved	Waterway		—								
	Cond.	Bad	Crossing										
Side	Type	N A	Remarks		3 0 Km/h								
Ditch	Size		(Running Speed)										
	Cond.												



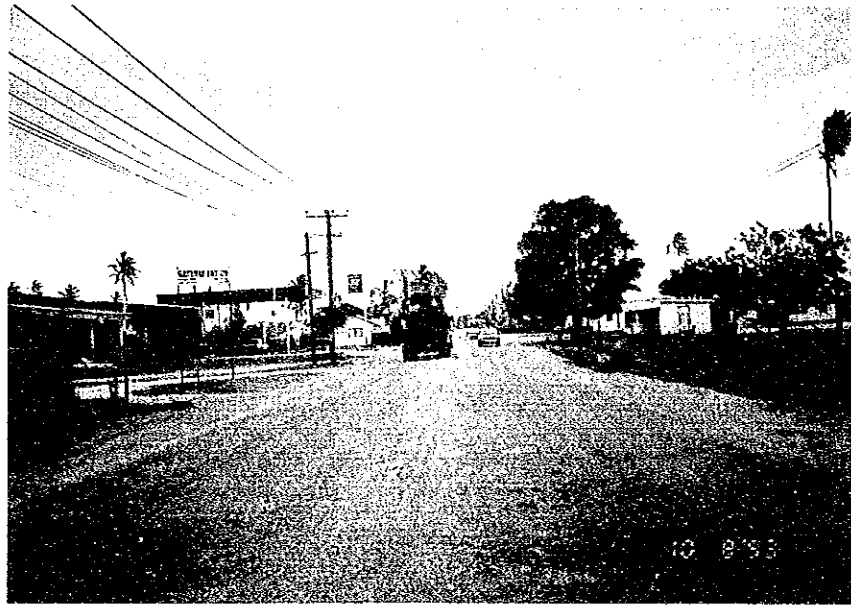
ROAD CONDITION SURVEY SHEET

Sub Section		7 - 1	Length (Km)		4. 5	Part	0.3 ~ 4.5 Km									
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m) <div style="text-align: center;"> 1 2 <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">2</td> <td style="width: 40px; height: 20px;">8</td> <td style="width: 20px; height: 20px;">2</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> </div>		2	8	2						
2	8	2														
Pavement	Type	Paved	Roadside	Right	House											
	Cond.	Fair	Landuse	Left	Coconut											
Shoulder	Type	Unpaved	Waterway		—											
	Cond.	Bad	Crossing													
Side	Type	N A	Remarks		5 0 Km/h											
Ditch	Size															
	Cond.															



ROAD CONDITION SURVEY SHEET

Sub Section		7 - 2	Length (Km)		10. 6	Part							
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m)							
Pavement	Type	Paved	Roadside	Right	House	<div style="text-align: center;"> <p>1 2</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">2</td> <td style="width: 40px; height: 20px;">8</td> <td style="width: 20px; height: 20px;">2</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> </div>		2	8	2			
	2	8	2										
Cond.	Fair	Landuse	Left	Field									
Shoulder	Type	Unpaved	Waterway		—								
	Cond.	Bad	Crossing										
Side	Type	NA	Remarks		5 0 Km/h								
	Size												
Ditch	Cond.		(Running Speed)										



ROAD CONDITION SURVEY SHEET

Sub Section		7 - 3	Length (Km)		3. 7	Part							
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m) 1 1 <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1.5</td> <td style="width: 20px; text-align: center;">8</td> <td style="width: 20px; text-align: center;">1.5</td> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>		1.5	8	1.5			
1.5	8	1.5											
Pavement	Type	Paved	Roadside	Right	Coconut								
	Cond.	Fair	Landuse	Left	House								
Shoulder	Type	Unpaved	Waterway		—								
	Cond.	Bad	Crossing										
Side	Type	N A	Remarks		5 0 Km/h								
Ditch	Size												
	Cond.												
(Running Speed)													



ROAD CONDITION SURVEY SHEET

Sub Section		7 - 4	Length (Km)		2. 6	Part										
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m) 1 0 <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 30px; text-align: center;">1.5</td> <td style="width: 30px; text-align: center;">7</td> <td style="width: 30px; text-align: center;">1.5</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>		1.5	7	1.5						
1.5	7	1.5														
Pavement	Type	Paved	Roadside	Right	Coconut											
	Cond.	Fair	Landuse	Left	Coconut											
Shoulder	Type	Unpaved	Waterway		—											
	Cond.	Bad	Crossing													
Side	Type	N A	Remarks		5 0 Km/h											
Ditch	Size		(Running Speed)													
	Cond.															



ROAD CONDITION SURVEY SHEET

Sub Section		8 - 1	Length (Km)		7. 0	Part							
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m) <div style="text-align: center; margin: 10px 0;">11.5</div> <table border="1" style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">2</td> <td style="width: 40px; height: 20px; text-align: center;">7.5</td> <td style="width: 20px; height: 20px; text-align: center;">2</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>		2	7.5	2			
2	7.5	2											
Pavement	Type	Paved	Roadside	Right	Coconut								
	Cond.	Bad	Landuse	Left	Coconut								
Shoulder	Type	Unpaved	Waterway		---								
	Cond.	Bad	Crossing										
Side	Type	N A	Remarks		4 0 Km/h								
Ditch	Size												
	Cond.												



ROAD CONDITION SURVEY SHEET

Sub Section		8 - 2	Length (Km)		2. 6	Part							
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m) 11.5 <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">2</td> <td style="width: 40px; height: 20px;">7.5</td> <td style="width: 20px; height: 20px;">2</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>		2	7.5	2			
2	7.5	2											
Pavement	Type	Paved	Roadside	Right	House								
	Cond.	Bad	Landuse	Left	House								
Shoulder	Type	Unpaved	Waterway		—								
	Cond.	Bad	Crossing		—								
Side	Type	N A	Remarks		4 0 Km/h								
Ditch	Size												
	Cond.												



ROAD CONDITION SURVEY SHEET

Sub Section		9 - 1	Length (Km)		2. 6	Part							
Survey Date		1 0 / 8	Weather		Sunny	Cross Section (m) 6 <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">4</td> <td style="width: 20px; height: 20px;">1</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>		1	4	1			
1	4	1											
Pavement	Type	Unpaved	Roadside	Right	Coconut								
	Cond.	Very bad	Landuse	Left	Coconut								
Shoulder	Type	Unpaved	Waterway		---								
	Cond.	Very bad	Crossing										
Side	Type	NA	Remarks		4 0 Km/h								
Ditch	Size												
	Cond.												



ROAD CONDITION SURVEY SHEET

Sub Section		9 - 2	Length (km)		2.5	Part							
Survey Date		10 / 8	Weather		Sunny	Cross Section (m) 6 <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">1</td> <td style="width: 40px; text-align: center;">4</td> <td style="width: 20px; text-align: center;">1</td> </tr> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </table>		1	4	1			
1	4	1											
Pavement	Type	Unpaved	Roadside	Right	Coconut								
	Cond.	Very bad	Landuse	Left	Coconut								
Shoulder	Type	Unpaved	Waterway		---								
	Cond.	Very bad	Crossing										
Side	Type	NA	Remarks		40 Km/h								
Ditch	Size												
	Cond.												
(Running Speed)													

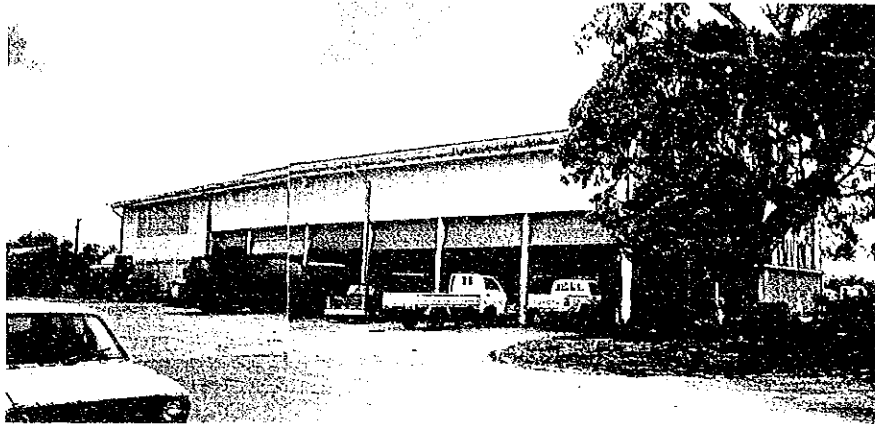


APPENDIX 5

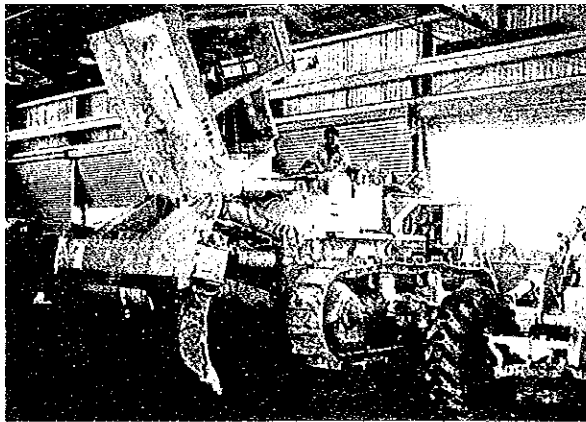
PHOTOGRAPHS

OF

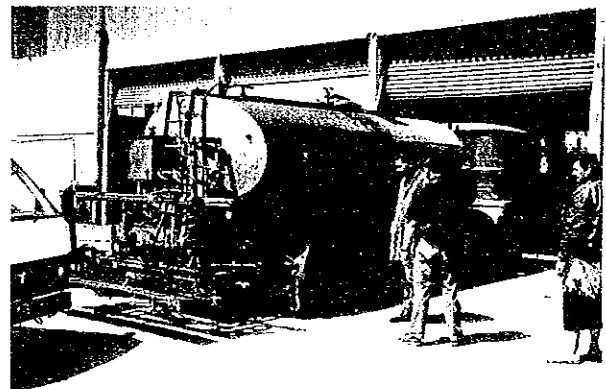
EQUIPMENT



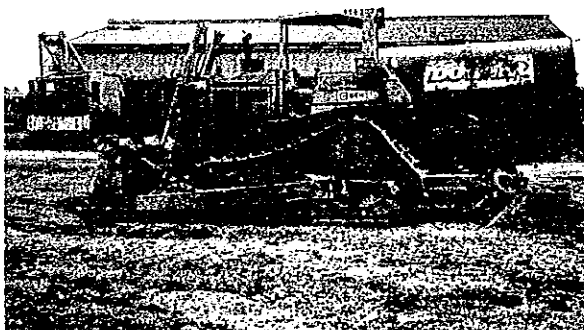
A view of workshop house



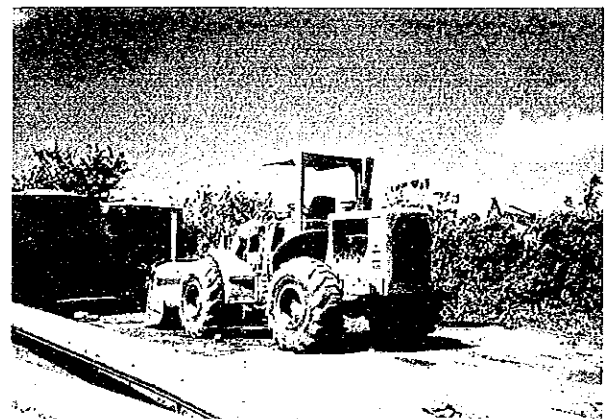
Area for repairing heavy equipment



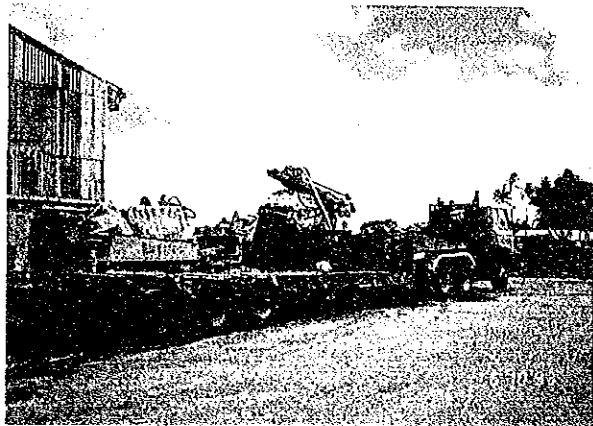
Area for repairing vehicles



Area for parking after repairing



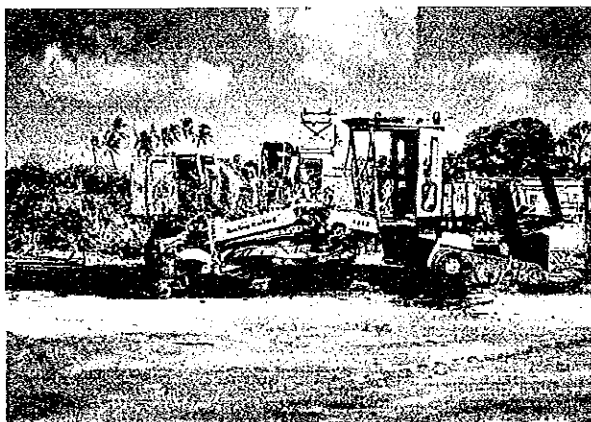
Area for washing equipment



Trailer for heavy equipment



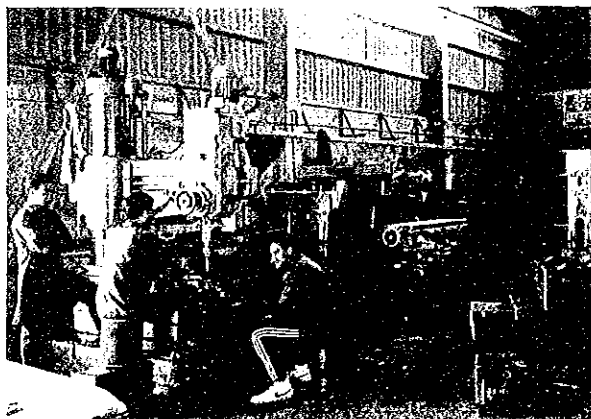
Service car



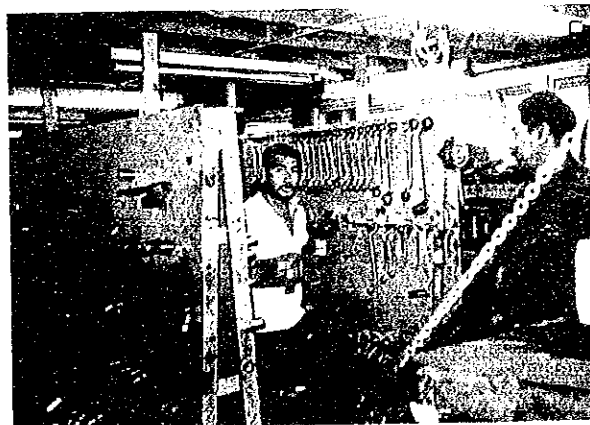
A equipment with parts being taken out to repair others



A equipment with parts being taken out to repair others



Machine tools



Tools storage

