

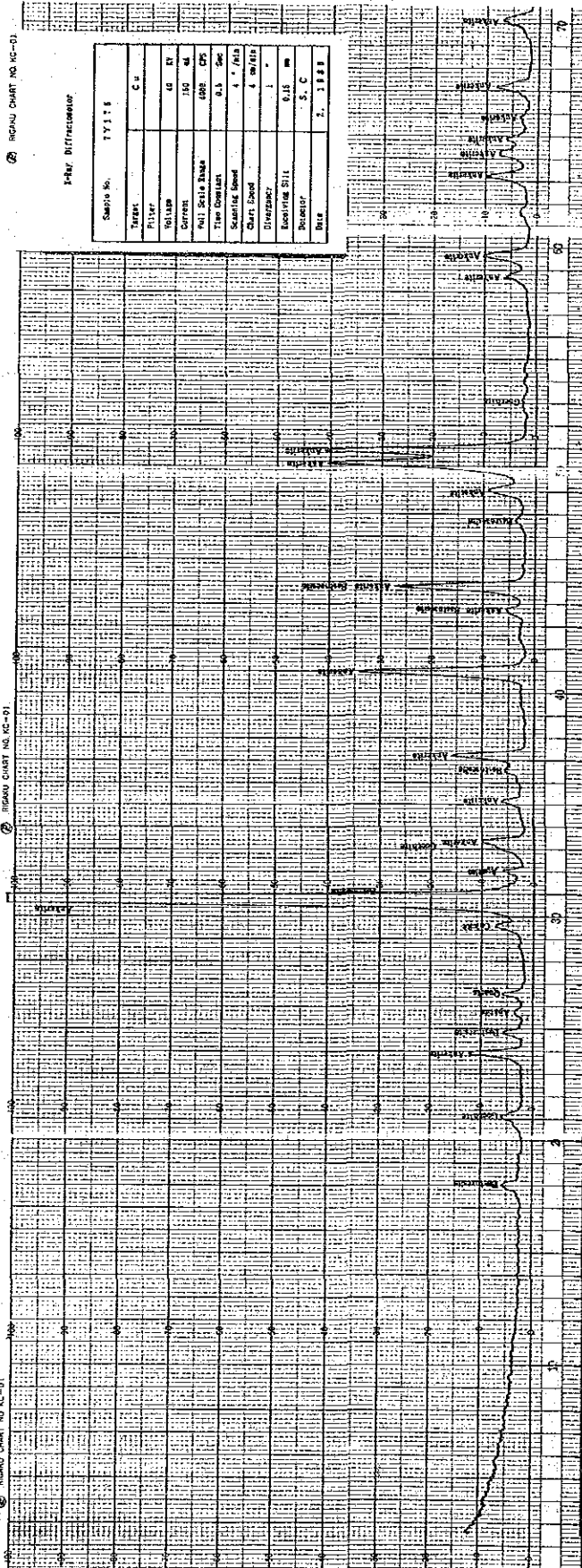
IRISAU CHART NO. KC-D1

IRISAU CHART NO. KC-D1

IRISAU CHART NO. KC-D1

1-4-62 Diffraction

Sample No. TY 115		C-1	
TARGET			
FILTER			
VOLTAG	45 TV		
CURRENT	150 mA		
Full Scale Range	400 CPS		
Time Constant	0.1 Sec		
Scanning Speed	4" / Min		
Chart Speed	4 cm/Min		
Divergency	1°		
Electrode Spill	0.15 mm		
Detector	S. C		
Date	2. 1953		



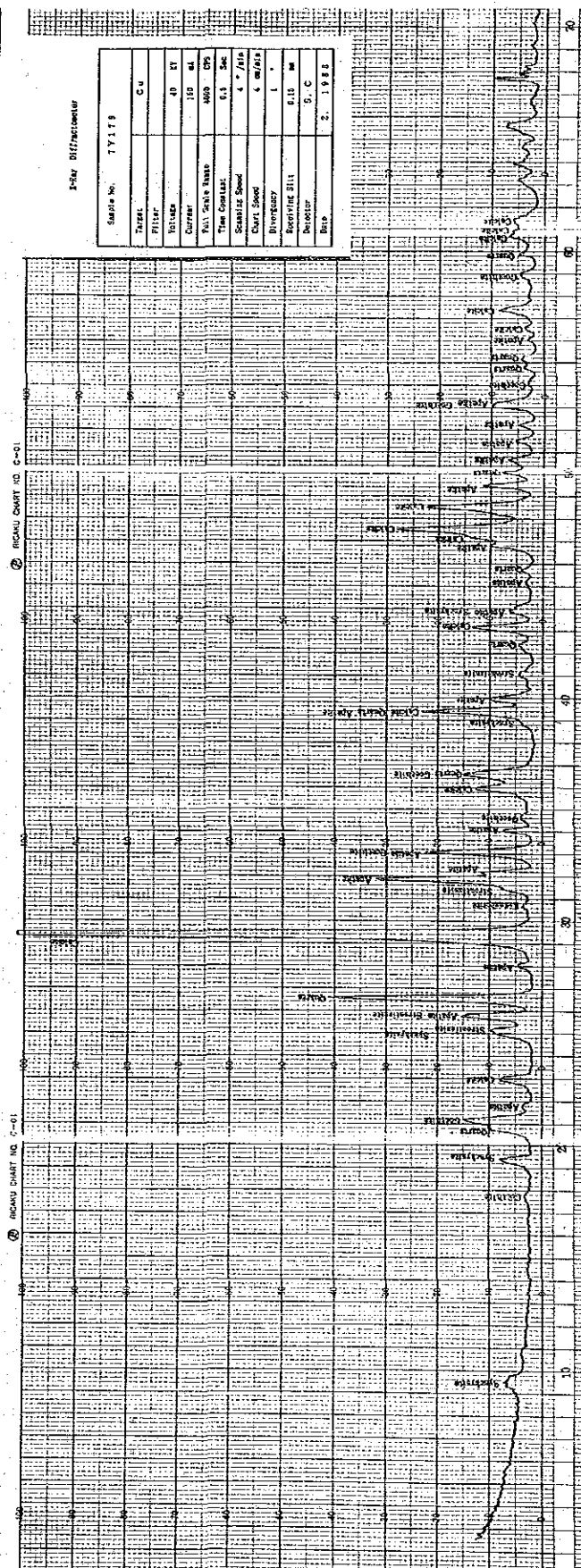
IRISAU CHART NO. C-1

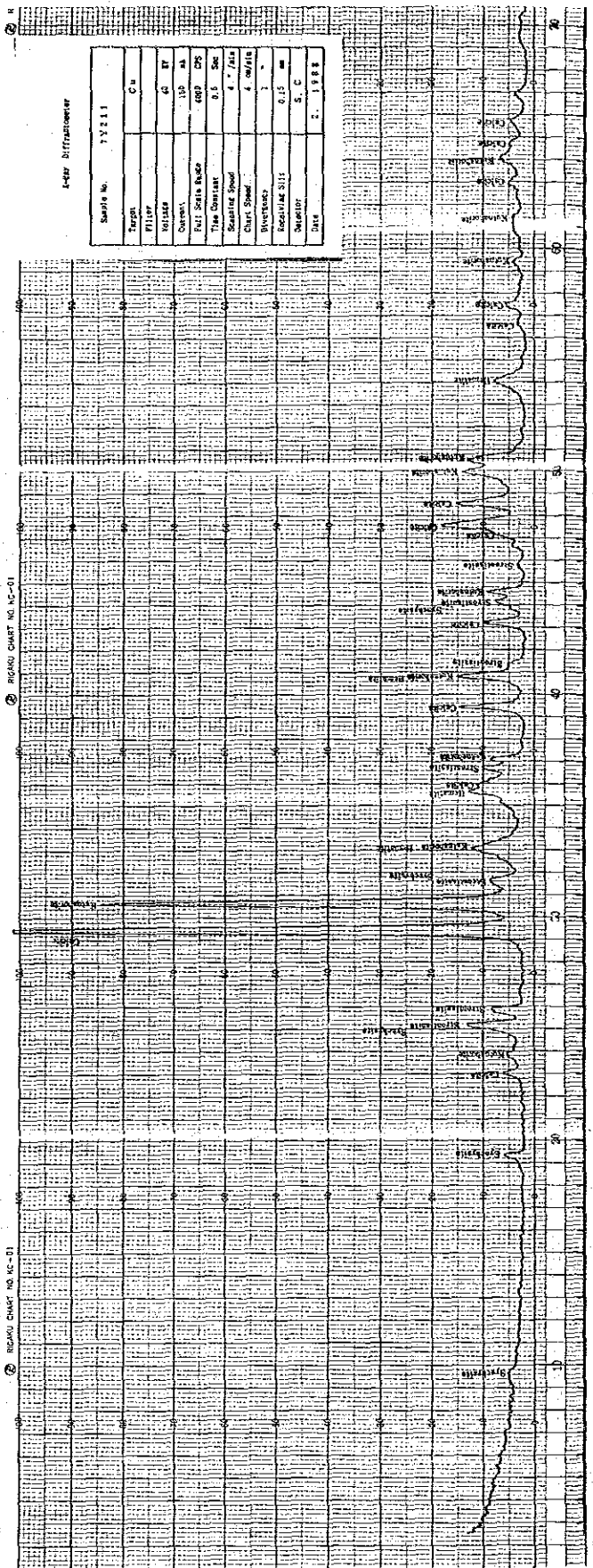
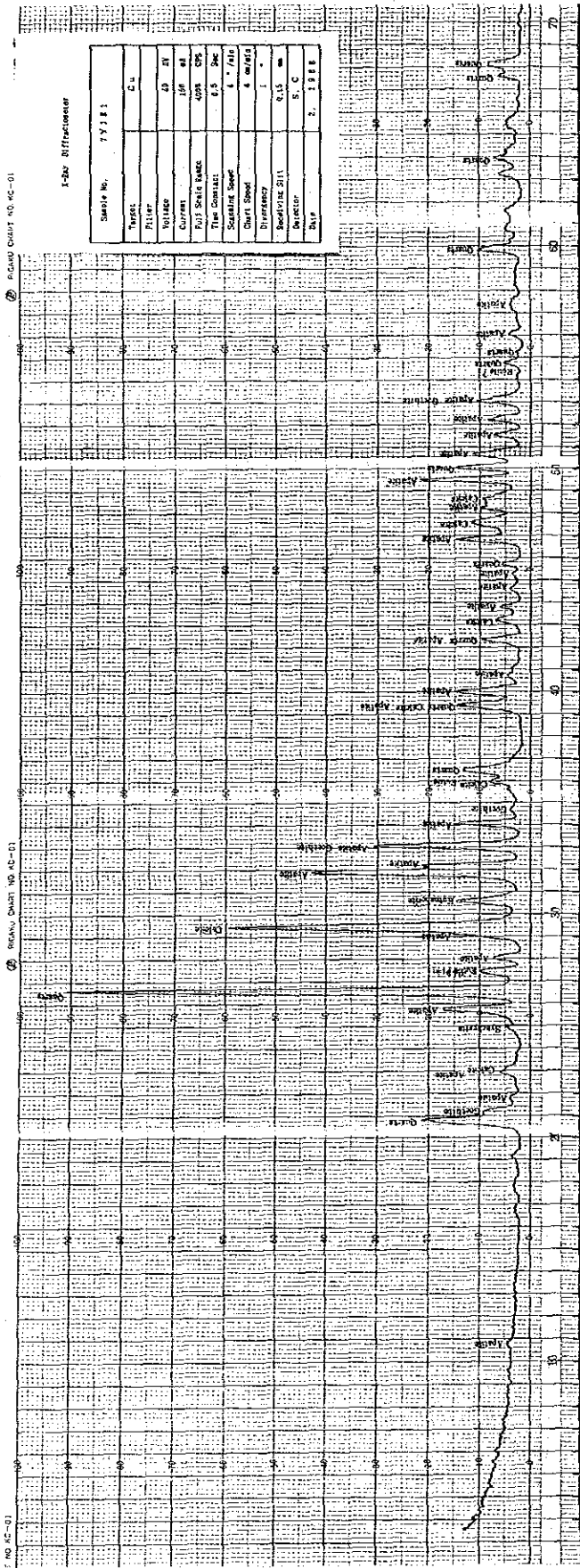
IRISAU CHART NO. C-1

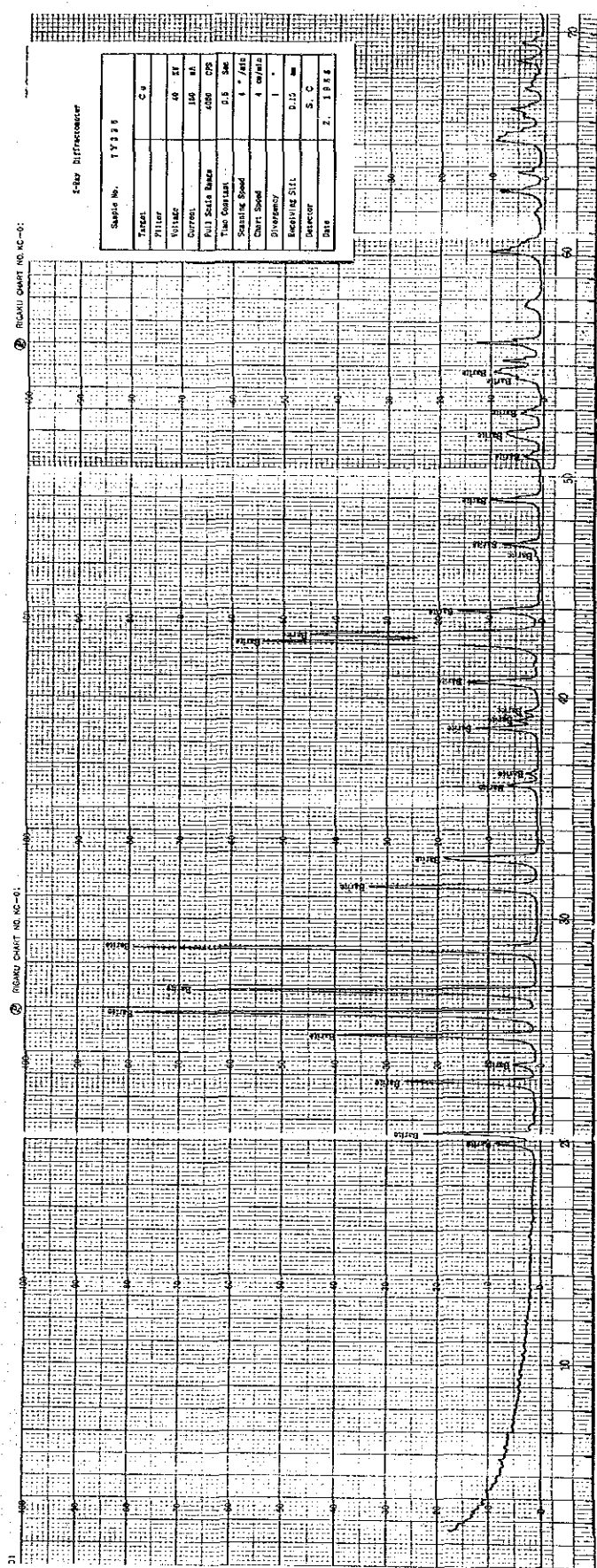
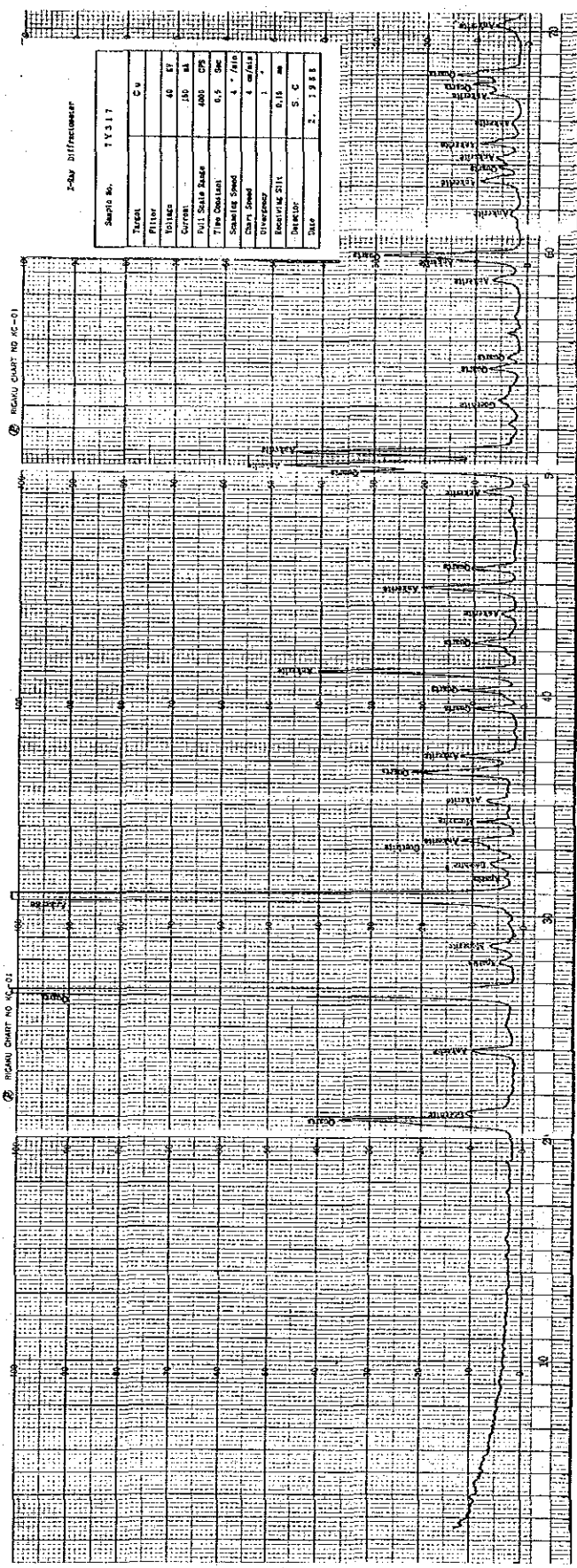
IRISAU CHART NO. C-1

1-4-62 Diffraction

Sample No. TY 115		C-1	
TARGET			
FILTER			
VOLTAG	45 TV		
CURRENT	150 mA		
Full Scale Range	400 CPS		
Time Constant	0.1 Sec		
Scanning Speed	4" / Min		
Chart Speed	4 cm/Min		
Divergency	1°		
Electrode Spill	0.15 mm		
Detector	S. C		
Date	2. 1953		









**Appendix 6**  
**Summarized operational data**



Working Time of Each Drill Hole

Thundulu

Drill Hole	Drilling Length		Shift of Workers		Number of Workers		Working Time					Grand Total			
	Length Drilled	Core Length	Drilling Shift	Oil Shift	Engineer	Worker	Drilling	Out Drilling	Regain of Accident	Sub Total	Constr-uct		Take to Pieces	Moving of Water	Rated Others
JMT	m	m	S	S	man	man	H	H	H	H	H	H	H	H	H
1	50.30	46.40	5	9	16	186	32°00'	28°00'	-	60°00'	27°00'	-	45°00'	-	132°00'
2	50.30	49.40	5	8	8	167	36°00'	24°00'	-	60°00'	18°00'	-	9°00'	-	87°00'
3	50.30	50.30	5	11	8	182	36°00'	24°00'	-	60°00'	30°00'	-	24°00'	-	114°00'
4	50.30	47.90	5	10	8	242	31°00'	29°00'	-	60°00'	27°00'	-	18°00'	-	105°00'
5	50.30	49.00	5	9	7	179	36°00'	24°00'	-	60°00'	22°00'	-	14°00'	-	96°00'
6	50.40	49.00	5	7	7	135	38°00'	22°00'	-	60°00'	18°00'	-	-	-	78°00'
7	50.20	47.00	5	8	8	126	33°00'	27°00'	-	60°00'	27°00'	-	-	-	87°00'
8	50.20	48.10	5	6	7	126	31°00'	24°00'	-	55°00'	32°00'	-	36°00'	-	123°00'
9	50.10	48.10	4	8	6	146	29°00'	19°00'	-	48°00'	23°00'	-	13°00'	-	84°00'
10	50.10	48.40	5	9	7	138	36°00'	24°00'	-	60°00'	25°00'	-	20°00'	-	105°00'
11	50.20	48.80	4	8	6	171	25°30'	22°30'	-	48°00'	24°00'	-	60°00'	-	132°00'
12	50.20	47.00	4	8	7	136	26°00'	22°00'	-	48°00'	27°00'	-	9°00'	-	84°00'
13	50.30	49.00	4	7	6	109	27°00'	21°00'	-	48°00'	27°00'	-	18°00'	-	93°00'
14	50.20	49.90	4	6	6	85	28°00'	20°00'	-	48°00'	22°00'	-	4°00'	-	74°00'
15	50.20	50.20	4	7	6	120	29°00'	19°00'	-	48°00'	27°00'	-	9°00'	-	84°00'
16	50.10	49.10	5	8	8	141	34°00'	26°00'	-	60°00'	27°00'	-	27°00'	-	114°00'
17	50.10	47.40	5	7	8	189	33°00'	27°00'	-	60°00'	31°00'	-	104°00'	-	195°00'
18	50.10	49.80	5	8	7	126	35°00'	25°00'	-	60°00'	28°00'	-	18°00'	-	106°00'
19	50.10	38.90	13.5	24	20	270	84°30'	69°30'	60°00'	214°00'	45°00'	-	4°00'	-	263°00'
20	50.20	48.20	5	8	7	117	34°00'	26°00'	-	60°00'	27°00'	-	-	-	87°00'
21	50.10	49.30	4	7	7	113	27°30'	20°30'	-	48°00'	27°00'	-	9°00'	-	84°00'
22	50.20	41.80	5	8	9	106	35°30'	24°30'	-	60°00'	18°00'	-	-	-	78°00'
23	50.20	45.70	5	7	7	131	33°30'	26°30'	-	60°00'	18°00'	-	9°00'	-	87°00'
24	50.10	44.70	5	8	8	130	31°30'	28°30'	-	60°00'	27°00'	-	-	-	87°00'
Total	1204.80	1143.40	121.5	208	194	3571	822°00'	623°00'	60°00'	1505°00'	624°00'	-	450°00'	-	2578°00'



Working Time of Each Drill Hole

Songwe

Drill Hole	Drilling		Shift of Workers		Number of Workers		Working Time						Grand Total		
	Length Drilled	Core Length	Drilling Shift	Old Shift	Engineer	Worker	Drilling	Out Drilling	Regain of Accident	Sub Total	Construct	Take to Pieces		Moving of Water	Rated Others
1	50.45	48.95	5	8	33	262	35°00'	16°00'	-	51°00'	22°00'	-	76°00'	-	149°00'
2	50.10	47.50	10	15	21	205	51°00'	69°00'	-	120°00'	27°00'	-	27°00'	-	174°00'
3	58.00	55.90	8	13	13	179	48°00'	48°00'	-	96°00'	31°00'	-	9°00'	-	136°00'
4	53.30	50.80	6	10	10	197	37°00'	35°00'	-	72°00'	36°00'	-	-	-	108°00'
5	53.20	51.30	6	10	10	190	32°00'	40°00'	-	72°00'	36°00'	-	63°00'	-	171°00'
6	50.10	43.20	7.5	14	14	296	42°00'	48°00'	-	90°00'	30°00'	-	27°00'	-	147°00'
7	50.10	40.90	6	9	9	145	33°00'	39°00'	-	72°00'	39°00'	-	18°00'	-	129°00'
8	42.20	38.35	5	9	9	191	26°00'	34°00'	-	60°00'	27°00'	-	9°00'	-	96°00'
9	50.20	44.30	6	10	10	203	32°00'	40°00'	-	72°00'	27°00'	-	27°00'	-	126°00'
10	51.00	47.10	5	9	9	150	40°00'	32°00'	-	72°00'	24°00'	-	21°00'	-	117°00'
11	50.20	42.40	6	10	15	284	29°00'	43°00'	-	72°00'	36°00'	-	-	-	108°00'
Total	558.85	510.70	70.5	117	153	2302	405°00'	444°00'	-	849°00'	335°00'	-	277°00'	-	1461°00'

Efficiency of Each Drill Hole

Hole No.	Depth of Hole			Core Recovery 0 ~ 50	Size of Drilling				Efficiency		
	Planned Length m	Increase or Decrease Length m	Length Drilling m		Core Length m	73mm		56mm		m/day	m/s
						Length Drilling m	Length m	Length Drilling m	Core Length m		
JMT-1	50.00	0.30	50.30	46.40	3.90	0.00	46.40	46.40	16.76	10.06	
2	50.00	0.30	50.30	49.40	1.80	0.90	48.50	48.50	16.76	10.06	
3	50.00	0.30	50.30	50.30	1.80	1.80	48.50	48.50	16.76	10.06	
4	50.00	0.30	50.30	47.90	1.80	0.30	48.50	47.60	16.76	10.06	
5	50.00	0.30	50.30	49.00	1.80	0.50	48.50	48.50	16.76	10.06	
6	50.00	0.40	50.40	49.00	1.80	0.60	48.60	48.40	16.80	10.08	
7	50.00	0.20	50.20	47.00	2.80	0.00	47.40	47.00	16.73	10.04	
8	50.00	0.20	50.20	48.10	2.10	0.80	48.10	47.30	16.73	10.04	
9	50.00	0.10	50.10	48.10	1.80	0.50	48.30	47.60	16.70	12.52	
10	50.00	0.10	50.10	48.40	1.80	0.30	48.30	48.10	16.70	10.02	
11	50.00	0.20	50.20	48.80	1.80	0.80	48.40	48.00	16.73	12.55	
12	50.00	0.20	50.20	47.00	3.80	0.60	46.40	46.40	16.73	12.55	
13	50.00	0.30	50.30	49.00	1.80	0.50	48.50	48.50	16.76	12.57	
14	50.00	0.20	50.20	49.90	1.60	1.60	48.60	48.30	25.10	12.55	
15	50.00	0.20	50.20	50.20	1.90	1.90	48.30	48.30	25.10	12.55	
16	50.00	0.10	50.10	49.10	1.80	0.80	48.30	48.30	16.70	10.02	
17	50.00	0.10	50.10	47.40	1.80	0.20	48.30	47.20	16.70	10.02	
18	50.00	0.10	50.10	49.80	1.90	1.70	48.20	48.10	16.70	10.02	
19	50.00	0.10	50.10	38.90	3.30	0.00	46.80	38.90	3.85	3.71	

Hole No.	Depth of Hole			Core Recovery 0 ~ 50 %	Size of Drilling				Efficiency		
	Planned Length m	Increase or Decrease Length m	Length Drilling m		Core Length m	73mm		56mm		Drilling Period m/day	Drilling Shift m/s
						Length Drilling m	Core Length m	Length Drilling m	Core Length m		
JMT-20	50.00	0.20	50.20	48.20	1.90	0.30	48.30	47.90	16.73	10.04	
21	50.00	0.10	50.10	49.30	2.00	2.00	48.10	47.30	16.70	12.52	
22	50.00	0.20	50.20	41.80	2.00	0.20	48.20	41.60	16.73	10.04	
23	50.00	0.20	50.20	45.70	2.30	0.00	47.90	45.70	16.73	10.04	
24	50.00	0.10	50.10	44.70	1.80	0.50	48.30	44.20	16.70	10.02	
Total	1200.00	4.80	1204.80	1143.40	51.10	16.80	1153.70	1126.60	15.06	9.91	

Efficiency of Each Drill Hole

Hole No.	Depth of Hole			Core Recovery 0 ~ 50 %	Size of Drilling			Efficiency		
	Planned Length m	Increase or Decrease Length m	Length Drilling m		73mm		56mm		Drilling Period m/day	Drilling Shift m/s
					Core Length m	Core Length m	Length Drilling m	Core Length m		
JMS-1	50.00	0.45	50.45	48.95	1.80	1.40	48.65	47.55	12.61	10.09
2	50.00	0.10	50.10	47.50	1.90	0.50	48.20	47.00	8.35	5.01
3	50.00	8.00	58.00	55.90	2.90	1.00	55.10	54.90	14.50	7.25
4	50.00	3.30	53.30	50.80	1.80	1.60	51.50	49.20	17.76	8.88
5	50.00	3.20	53.20	51.30	1.90	0	51.30	51.30	17.73	8.86
6	50.00	0.10	50.10	43.20	5.60	0.00	44.50	43.20	12.52	6.68
7	50.00	0.10	50.10	40.90	2.00	0.40	48.10	40.50	16.70	8.35
8	50.00	7.80	42.20	38.35	2.00	0.30	40.20	38.05	14.06	8.44
9	50.00	0.20	50.20	44.30	1.80	0.80	48.40	43.50	16.73	8.36
10	50.00	1.00	51.00	47.10	2.80	0.50	48.20	46.60	17.00	10.20
11	50.00	0.20	50.20	42.40	1.80	1.10	48.40	41.30	10.04	8.36
Total	550.00	8.85	558.85	510.70	26.30	7.60	532.55	503.10	14.33	7.92



**Appendix 7**  
**Operational results of drill hole**



Operational Results by Drill Hole

JMT-1

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	13th Spt. '87~16th Spt. '87		4	4	-	64
		20th Spt. '87~23rd Spt. '87		4	3.5	-	94
	Drilling	23rd Spt. '87~25th Spt. '87		3	2.5	-	44
	Removing			-	-	-	
Total		13th Spt. '87~16th Spt. '87	20th Spt. '87~25th Spt. '87	11	10	-	202
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.30 m	Core Length	46.40 m	0 ~ 50.30 m	100 %	100 %
	Length Drilled	50.30 m	Core Recovery	100 %			
	Drilling	32°00' <sup>H</sup>	53.3 %	24.3 %			
Working Time	Out Drilling	28°00'	46.7	21.2			
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	45.5	50.30 m/Working Period		4.57 m/day
	Construct	18°00'		13.6	50.30 m/Working Days		5.03 m/day
	Take to pieces	9°00'		6.8	50.30 m/Drilling Period		16.76 m/day
	Moving of water	-		-	50.30 m/Net Drilling Days		20.12 m/day
	Road · others	45°00'		34.1	Total workers/ 50.30 m		4.01 Man/m
	G · Total	132°00'		100			
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/50.30 m		0.87 Man/m
	BW-CP 3.90 m	7.75 %		100 %	Drilling of Size		
	m	%		%	Bit size	BW	56-T
	m	%		%	Drilling	3.90 m	46.40 m
					Core Length	0.00	46.40



Operational Results by Drill Hole

JMT-2

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	23rd Spt. '87~25th Spt. '87		3	3	-	71
	Drilling	26th Spt. '87~28th Spt. '87		3	2.5	-	104
	Removing			-		-	-
	Total	23rd Spt. '87~28th Spt. '87		6	5.5	-	175
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	0.30 m	Core Length	49.40 m	0 ~ 50.30 m	100 %	100 %
	Length Drilled	50.30 m	Core Recovery	100 %	m	%	%
Working Time	Drilling	36°00' <sup>H</sup>	60.0 %	41.4 %	m	%	%
	Out Drilling	24°00'	40.0	27.6	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	69.0	50.30 m/Working Period		8.38 m/day
	Construct	10°00'		11.5	50.30 m/Working Days		9.14 m/day
	take to pieces	8°00'		9.2	50.30 m/Drilling Period		16.76 m/day
	Moving of water	-		-	50.30 m/Net Drilling Days		20.12 m/day
	Road · others	9°00'		10.3	Total workers/ 50.30 m		3.48 Man/m
Casing Pipe Inserted	G · Total		87°00'	100	Total Drilling Workers/ 50.30 m		2.06 Man/m
	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 1.80 m	3.6 %	100 %	Bit size	BW	56-T	
	m	%	%	Drilling	1.80 m	48.50 m	
	m	%	%	Core Length	0.90	48.50	

Operational Results by Drill Hole

JMT-3

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	28th Spt. '87~ 3rd Oct. '87		6	5.5	-	144
	Drilling	3rd Oct. '87~ 5th Oct. '87		3	2.5	-	46
	Removing			-	-	-	-
	Total	28th Spt. '87~ 5th Oct. '87		9	8	-	190
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	0.30 m	Core Length	50.30 m	0 ~ 50.30 m	100 %	100 %
	Length Drilled	50.30 m	Core Recovery	100 %	m	%	%
Working Time	Drilling	36°00' <sup>H</sup>	60.0 %	31.6 %	m	%	%
	Out Drilling	24°00'	40.0	21.1	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	52.7	50.30 m/Working Period		5.58 m/day
	Construct	12°00'		10.5	50.30 m/Working Days		6.28 m/day
	take to pieces	18°00'		15.8	50.30 m/Drilling Period		16.76 m/day
	Moving of water	-		-	50.30 m/Net Drilling Days		20.12 m/day
	Road · others	24°00'		21.0	Total workers/ 50.30 m		3.77 Man/m
G · Total	114°00'		100				
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/ 50.30 m		0.91 Man/m
	BW-CP 1.80 m	3.6 %		100 %	Drilling of Size		
	m	%		%	Bit size	BW	56-T
	m	%		%	Drilling	1.80 m	48.50 m
	m	%		%	Core Length	1.80	48.50

Operational Results by Drill Hole

JMT-4

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	24th Spt. '87~28th Spt. '87		5	4.5	-	140
	Drilling	28th Spt. '87~30th Spt. '87		3	2.5	-	110
	Removing			-		-	-
	Total	24th Spt. '87~30th Spt. '87		8	7	-	250
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Overburden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	0.30 m	Core Length	47.90 m	0 ~ 50.30 m	98.2 %	98.2 %
	Length Drilled	50.30 m	Core Recovery	98.2 %	m	%	%
					m	%	%
Working Time	Drilling	31°00' <sup>H</sup>	51.7 %	29.6 %	m	%	%
	Out Drilling	29°00'	48.3	27.6	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	57.2	50.30 m/Working Period		6.28 m/day
	Construct	13°00'		12.4	50.30 m/Working Days		7.18 m/day
	take to pieces	14°00'		13.3	50.30 m/Drilling Period		16.76 m/day
	Moving of water	-		-	50.30 m/Net Drilling Days		20.12 m/day
	Road - others	18°00'		17.1	Total workers/ 50.30 m		4.97 Man/m
G - Total	105°00'		100	Total Drilling Workers/ 50.30 m		2.18 Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 4.0 m	8.0	%	100 %	Bit size	BW	56-T
	m		%	%	Drilling	1.80 m	48.50 m
	m		%	%	Core Length	0.30	47.60

Operational Results by Drill Hole

JMT-5

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
		Working Period		Preparation	27th Spt. '87~30th Spt. '87	4	4
Drilling	1st Oct. '87~ 3rd Oct. '87			3	2.5	-	99
Removing				-	-	-	-
Total	27th Oct. '87~ 3rd Oct. '87			7	6.5	-	186
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.30 m	Core Length	49.00 m	0 ~ 50.30 m	99.4 %	99.4 %
	Length Drilled	50.30 m	Core Recovery	99.4 %	m	%	%
					m	%	%
Working Time	Drilling	36°00' <sup>H</sup>	60.0 %	37.5 %	m	%	%
	Out Drilling	24°00'	40.0	25.0	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	62.5	50.30 m/Working Period		7.18 m/day
	Construct	13°00'		13.5	50.30 m/Working Days		7.73 m/day
	take to pieces	9°00'		9.4	50.30 m/Drilling Period		16.76 m/day
	Moving of water	-		-	50.30 m/Net Drilling Days		20.12 m/day
	Road & others	14°00'		14.6	Total workers/ 50.30 m		3.69 Man/m
	G · Total	96°00'		100	Total Drilling Workers/50.30 m		1.96 Man/m
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 1.80 m	3.6 %	100 %	Bit size	BW	56-T	
	m	%	%	Drilling	1.80 m	48.50 m	
	m	%	%	Core Length	0.50	48.50	

Operational Results by Drill Hole

JMT-6

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	4th Oct. '87~5th Oct. '87		2	2	-	81
	Drilling	6th Oct. '87~8th Oct. '87		3	2.5	-	61
	Removing			-	-	-	-
	Total	4th Oct. '87~8th Oct. '87		5	4.5	-	142
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Overburden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	0.40 m	Core Length	49.00 m	0 ~ 50.40 m	99.6 %	99.6 %
	Length Drilled	50.40 m	Core Recovery	99.6 %	m	%	%
Working Time	Drilling	38°00' <sup>H</sup>	63.3 %	48.7 %	m	%	%
	Out Drilling	22°00'	36.7	28.2	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	76.9	50.40 m/Working Period		10.08 m/day
	Construct	5°00'		6.4	50.40 m/Working Days		11.20 m/day
	take to pieces	13°00'		16.7	50.40 m/Drilling Period		16.80 m/day
	Moving of water	-		-	50.40 m/Net Drilling Days		20.16 m/day
Road · others	-		-	Total workers/ 50.40 m		2.81 Man/m	
Casing Pipe Inserted	G · Total	78°00'		100	Total Drilling Workers/ 50.40 m		1.21 Man/m
	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 1.80 m	3.6 %	100 %	Bit size	BW	56-T	
	m	%	%	Drilling	1.80 m	48.60 m	
	m	%	%	Core Length	0.60	48.40	

Operational Results by Drill Hole

JMT-7

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	1st Nov. '87~3rd Nov. '87		3	2.5	-	86
	Drilling	3rd Nov. '87~5th Nov. '87		3	2.5	-	43
	Removing						
	Total	1st Nov. '87~5th Nov. '87		6	5	-	129
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Overburden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.20 m	Core Length	47.00 m	0 ~ 50.20 m	99.2 %	99.2 %
	Length Drilled	50.20 m	Core Recovery	99.2 %	m	%	%
Working Time	Drilling	33°00' <sup>H</sup>	55.0 %	37.9 %	m	%	%
	Out Drilling	27°00'	45.0	31.0	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	68.9	50.20 m/Working Period		8.36 m/day
	Construct	21°00'		24.1	50.20 m/Working Days		10.04 m/day
	take to pieces	6°00'		7.0	50.20 m/Drilling Period		16.73 m/day
	Moving of water	-		-	50.20 m/Net Drilling Days		20.08 m/day
Road · others	-		-				
G · Total	87°00'		100	Total workers/ 50.20 m		2.66 Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/ 50.20 m		0.10 Man/m
	BW-CP 2.80 m	5.6 %	100 %	Drilling of Size			
	m	%	%	Bit size	BW	56-T	
	m	%	%	Drilling	2.80 m	47.40 m	
				Core Length	0	47.00	

Operational Results by Drill Hole

JMT-8

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
		Working Period		Preparation	29th Oct. '87~1st Nov. '87	4	3.5
		Drilling	1st Nov. '87~3rd Nov. '87	3	2.5	-	53
		Removing		-	-	-	-
		Total	29th Oct. '87~3rd Nov. '87	7	6	-	133
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	0.20 m	Core Length	48.10 m	0 ~ 50.20 m	98.4 %	98.4 %
	Length Drilled	50.20 m	Core Recovery	98.4 %	m	%	%
Working Time	Drilling	31°00' <sup>H</sup>	56.4 %	25.2 %	m	%	%
	Out Drilling	24°00'	43.6	19.5	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	55°00'	100	44.7	50.20 m/Working Period		7.17 m/day
	Construct	32°00'		26.0	50.20 m/Working Days		8.36 m/day
	take to pieces	-		-	50.20 m/Drilling Period		16.73 m/day
	Moving of water	-		-	50.20 m/Net Drilling Days		20.08 m/day
Road - others	36°00'		29.3	Total workers/ 50.20 m		2.64 Man/m	
	G - Total	123°00'		100	Total Drilling Workers/ 50.20 m		1.05 Man/m
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 2.10 m	4.2 %		100 %	Bit size	BW	56-T
	m	%		%	Drilling	2.10 m	48.10 m
	m	%		%	Core Length	0.80	47.30

Operational Results by Drill Hole

JMT-9

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	11th Oct. '87~14th Oct. '87		4	3.5	-	98
	Drilling	14th Oct. '87~16th Oct. '87		3	2	-	54
	Removing			-	-	-	-
	Total	11th Oct. '87~16th Oct. '87		7	5.5	-	152
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	0.10 m	Core Length	48.10 m	0 ~ 50.10 m	98.6 %	98.6 %
	Length Drilled	50.10 m	Core Recovery	98.6 %	m	%	%
					m	%	%
Working Time	Drilling	29°00' <sup>H</sup>	60.4 %	34.5 %	m	%	%
	Out Drilling	19°00'	39.6	22.6	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	48°00'	100	57.1	50.10 m/Working Period		7.15 m/day
	Construct	14°00'		16.7	50.10 m/Working Days		9.10 m/day
	take to pieces	9°00'		10.7	50.10 m/Drilling Period		16.70 m/day
	Moving of water	-		-	50.10 m/Net Drilling Days		25.05 m/day
	Road · others	13°00'		15.5	Total workers/ 50.10 m		3.03 Man/m
G · Total	84°00'		100	Total Drilling Workers/ 50.10 m		1.07 Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 1.80 m	3.6 %		100 %	Bit size	BW	56-T
	m	%		%	Drilling	1.80 m	48.30 m
	m	%		%	Core Length	0.50	47.60



Operational Results by Drill Hole

JMT-10

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	13th Oct. '87~16th Oct. '87		4	3.5	-	88
	Drilling	16th Oct. '87~18th Oct. '87		3	2.5	-	57
	Removing			-	-	-	-
	Total	13th Oct. '87~18th Oct. '87		7	6	-	145
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	0.10 m	Core Length	48.40 m	0 ~ 50.10 m	99.6 %	99.6 %
	Length Drilled	50.10 m	Core Recovery	99.6 %	m	%	%
Working Time	Drilling	36°00' <sup>H</sup>	60.0 %	34.3 %	m	%	%
	Out Drilling	24°00'	40.0	22.9	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	57.2	50.10 m/Working Period		7.15 m/day
	Construct	16°00'		15.2	50.10 m/Working Days		8.35 m/day
	Take to pieces	9°00'		8.6	50.10 m/Drilling Period		16.70 m/day
	Moving of water	-		-	50.10 m/Net Drilling Days		20.04 m/day
Road · others	20°00'		19.0	Total workers/ 50.10 m		2.89 Man/m	
G · Total	105°00'		100	Total Drilling Workers/ 50.10 m		1.13 Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 1.80 m	3.6	%	100 %	Bit size	BW	56-T
	m		%	%	Drilling	1.80 m	48.30 m
	m		%	%	Core Length	0.30	48.10

Operational Results by Drill Hole

JMT-11

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	9th Oct. '87~12th Oct. '87		4	3.5	-	125
	Drilling	12th Oct. '87~14th Oct. '87		3	2	-	52
	Removing			-	-	-	-
	Total	9th Oct. '87~14th Oct. '87		7	5.5	-	177
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.20 m	Core Length	48.80 m	0 ~ 50.20 m	99.2 %	99.2 %
	Length Drilled	50.20 m	Core Recovery	99.2 %	m	%	%
					m	%	%
Working Time	Drilling	25°30' <sup>H</sup>	53.1 %	19.3 %	m	%	%
	Out Drilling	22°30'	46.9	17.1	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	48°00'	100	36.4	50.20 m/Working Period		7.17 m/day
	Construct	15°00'		11.4	50.20 m/Working Days		9.12 m/day
	take to pieces	9°00'		6.8	50.20 m/Drilling Period		16.73 m/day
	Moving of water	-		-	50.20 m/Net Drilling Days		25.1 m/day
	Road · others	60°00'		45.4	Total workers/ 50.20 m		3.52 Man/m
Casing Pipe Inserted	G · Total	132°00'		100	Total Drilling Workers/ 50.20 m		1.03 Man/m
	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 1.80 m	3.6 %		100 %	Bit size	BW	56-T
	m	%		%	Drilling	1.80 m	48.40 m
	m	%		%	Core Length	0.80	48.00

Operational Results by Drill Hole

JMT-12

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
		Working Period		Preparation	5th Oct. '87~ 8th Oct. '87	4	3.5
		Drilling	8th Oct. '87~10th Oct. '87	3	2	-	37
		Removing		-	-	-	-
		Total	5th Oct. '87~10th Oct. '87	7	5.5	-	143
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.20 m	Core Length	47.00 m	0 ~ 50.20 m	100 %	100 %
	Length Drilled	50.20 m	Core Recovery	100 %	m	%	%
Working Time	Drilling	26°00' <sup>H</sup>	54.2 %	31.0 %	m	%	%
	Out Drilling	22°00'	45.8	26.2	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	48°00'	100	57.2	50.20 m/Working Period		7.17 m/day
	Construct	9°00'		10.7	50.20 m/Working Days		9.12 m/day
	take to pieces	18°00'		21.4	50.20 m/Drilling Period		16.73 m/day
	Moving of water	-		-	50.20 m/Net Drilling Days		25.10 m/day
Road - others	9°00'		10.7	Total workers/ 50.20 m		2.84 Man/m	
G - Total	84°00'		100				
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/ 50.20 m		0.73 Man/m
	BW-CP 4.40 m	8.8 %		100 %	Drilling of Size		
	m	%		%	Bit size	BW	56-T
	m	%		%	Drilling	3.80 <sup>m</sup>	46.40 <sup>m</sup>
					Core Length	0.60	46.40

Operational Results by Drill Hole

JMT-13

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
		Working Period		Preparation	8th Oct. '87~10th Oct. '87	3	2.5
		Drilling	10th Oct. '87~12th Oct. '87	3	2	-	50
		Removing		-	-	-	
		Total	8th Oct. '87~12th Oct. '87	6	4.5	-	115
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Overburden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.30 m	Core Length	49.00 m	0 ~ 50.30 m	100 %	100 %
	Length Drilled	50.30 m	Core Recovery	100 %			
Working Time	Drilling	27°00' <sup>H</sup>	56.3 %	29.0 %			
	Out Drilling	21°00'	43.7	22.5			
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	48°00'	100	51.5	50.30 m/Working Period		8.38 m/day
	Construct	18°00'		19.4	50.30 m/Working Days		11.17 m/day
	take to pieces	9°00'		9.7	50.30 m/Drilling Period		16.76 m/day
Casing Pipe Inserted	Moving of water	-		-	50.30 m/Net Drilling Days		25.15 m/day
	Road · others	18°00'		19.4	Total workers/ 50.30 m		2.28 Man/m
	G · Total	93°00'		100	Total Drilling Workers/ 50.30 m		0.99 Man/m
	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
BW-CP 1.80 m	3.6 %		100 %	Bit size	BW	56-T	
m	%		%	Drilling	1.80 m	48.50 m	
m	%		%	Core Length	0.50	48.50	

Operational Results by Drill Hole

JMT-14

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	4th Nov. '87~5th Nov. '87		2	2	-	59
	Drilling	6th Nov. '87~7th Nov. '87		2	2	-	32
	Removing			-	-	-	-
	Total	4th Nov. '87~7th Nov. '87		4	4	-	91
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Overburden	m	Depth of Hole	Section	Total
	Increase or decrease in Length	0.20 m	Core Length	49.90 m	0 ~ 50.20 m	99.4 %	99.4 %
	Length Drilled	50.20 m	Core Recovery	99.4 %	m	%	%
Working Time	Drilling	28°00'	58.3 %	37.8 %	m	%	%
	Out Drilling	20°00'	41.7	27.1	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	48°00'	100	64.9	50.20 m/Working Period		12.55 m/day
	Construct	12°00'		16.2	50.20 m/Working Days		12.55 m/day
	Take to pieces	10°00'		13.5	50.20 m/Drilling Period		25.10 m/day
	Moving of water Road - others	4°00'		5.4	50.20 m/Net Drilling Days		25.10 m/day
G - Total	74°00'		100	Total workers/ 50.20 m		1.81 Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/ 50.20 m		0.63 Man/m
	EW-CP 1.60 m	3.2 %	100 %	Drilling of Size			
	m	%	%	Bit size	BW	56-T	
	m	%	%	Drilling	1.60 m	48.60 m	
				Core Length	1.60	48.30	

Operational Results by Drill Hole

JMT-15

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	27th Oct. '87~29th Oct. '87		3	3	-	92
	Drilling	30th Oct. '87~31st Oct. '87		2	2	-	34
	Removing			-	-	-	-
	Total	27th Oct. '87~31st Oct. '87		5	5	-	126
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.20 m	Core Length	50.20 m	0 ~ 50.20 m	100 %	100 %
	Length Drilled	50.20 m	Core Recovery	100 %		%	%
Working Time	Drilling	29°00' <sup>H</sup>	60.4 %	34.5 %		%	%
	Out Drilling	19°00'	39.6	22.6		%	%
	Regain of Accident	-	-		Efficiency of Drilling		
	Total	48°00'	100	57.1	50.20 m/Working Period		10.04 m/day
	Construct	13°00'		15.5	50.20 m/Working Days		10.04 m/day
	take to pieces	14°00'		16.7	50.20 m/Drilling Period		25.10 m/day
	Moving of water	-		-	50.20 m/Net Drilling Days		25.10 m/day
Road · others	9°00'		10.7	Total workers/ 50.20 m		2.50 Man/m	
G · Total	84°00'		100	Total Drilling Workers/ 50.20 m		0.67 Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 1.90 m	3.8 %		100 %	Bit size	BW	56-T
	m	%		%	Drilling	1.90 <sup>m</sup>	48.30 <sup>m</sup>
	m	%		%	Core Length	1.90	48.30

Operational Results by Drill Hole

JMT-16

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	22nd Oct. '87~24th Oct. '87		3	3	-	102
	Drilling	25th Oct. '87~27th Oct. '87		3	2.5	-	47
	Removing			-	-	-	-
	Total	22nd Oct. '87~27th Oct. '87		6	5.5	-	149
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Overburden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.10 m	Core Length	49.10 m	0 ~ 50.10 m	100 %	100 %
	Length Drilled	50.10 m	Core Recovery	100 %			
Working Time	Drilling	34°00' <sup>H</sup>	56.7 %	29.8 %			
	Out Drilling	26°00'	43.3	22.8			
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	52.6	50.10 m/Working Period		8.35 m/day
	Construct	14°00'		12.3	50.10 m/Working Days		9.10 m/day
	take to pieces	13°00'		11.4	50.10 m/Drilling Period		16.70 m/day
	Moving of water	-		-	50.10 m/Net Drilling Days		20.04 m/day
	Road · others	27°00'		23.7	Total workers/ 50.10 m		2.97 Man/m
Casing Pipe Inserted	G · Total	114°00'		100	Total Drilling Workers/ 50.10 m		0.93 Man/m
	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 1.80 m	3.6 %	100 %		Bit size	BW	56-T
	m	%	%		Drilling	1.80 m	48.30 m
					Core Length	0.80	48.30

Operational Results by Drill Hole

JMT-17

Working Period	Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers	
	Preparation	11th Oct. '87~19th Oct. '87	9	9	-	149	
	Drilling	20th Oct. '87~22nd Oct. '87	3	2.5	-	48	
	Removing		-	-	-	-	
Total	11th Oct. '87~22nd Oct. '87	12	11.5	-	197		
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	m	Over-burden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	0.10	Core Length	47.40	0 ~ 50.10 m	97.7 %	97.7 %
	Length Drilled	50.10	Core Recovery	97.7	m	%	%
Working Time	Drilling	33°00' <sup>H</sup>	55.0 %	16.9 %	m	%	%
	Out Drilling	27°00'	45.0	13.8	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	30.7	50.10 m/Working Period		4.17 m/day
	Construct	14°00'		7.2	50.10 m/Working Days		4.35 m/day
	take to pieces	17°00'		8.7	50.10 m/Drilling Period		16.70 m/day
	Moving of water	-		-	50.10 m/Net Drilling Days		20.04 m/day
Road · others	104°00'		53.4	Total workers/ 50.10 m		3.93 Man/m	
G · Total	195°00'		100				
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/ 50.10 m		
	BW-CP 1.80 m	3.6	%	100 %	0.96 Man/m		
	m		%	%	Drilling of Size		
	m		%	%	Bit size	BW	56-T
				Drilling	1.80 <sup>m</sup>	48.30 <sup>m</sup>	
				Core Length	0.20	47.20	



Operational Results by Drill Hole

JMT-18

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers		
		Working Period		Preparation	19th Oct. '87~21st Oct. '87	3	3	-	85
Drilling	22nd Oct. '87~24th Oct. '87			3	2.5	-	48		
Removing				-	-	-	-		
Total	19th Oct. '87~24th Oct. '87			6	5.5	-	133		
Depth of Drilling				Core Recovery for each 100 m section					
Drilling Length		Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total	
		Increase or Decrease in Length	0.10 m	Core Length	49.80 m	0 ~ 50.10 m	99.8 %	99.8 %	
		Length Drilled	50.10 m	Core Recovery	99.8 %				
Working Time		Drilling	35°00' <sup>H</sup>	58.3 %	33.0 %				
		Out Drilling	25°00'	41.7	23.6				
		Regain of Accident	-	-	-	Efficiency of Drilling			
		Total	60°00'	100	56.6	50.10 m/Working Period		8.35 m/day	
		Construct	15°00'		14.2	50.10 m/Working Days		9.10 m/day	
		take to pieces	13°00'		12.3	50.10 m/Drilling Period		16.70 m/day	
		Moving of water	-		-	50.10 m/Net Drilling Days		20.04 m/day	
Road & others	18°00'		16.9						
G - Total	106°00'		100	Total workers/ 50.10 m		2.65 Man/m			
Casing Pipe Inserted		Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/ 50.10 m		0.95 Man/m	
							Drilling of Size		
		BW-CP 1.90 m	3.8	%	100	%	Bit size	BW	56-T
		m		%		%	Drilling	1.90 <sup>m</sup>	48.20 <sup>m</sup>
m		%		%	Core Length	1.70	48.10		

Operational Results by Drill Hole

JMT-19

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	25th Oct. '87~27th Oct. '87		3	5	-	170
		6th Nov. '87~ 7th Nov. '87		2			
	Drilling	28th Oct. '87~ 5th Nov. '87		9	13	-	120
		8th Nov. '87~11th Nov. '87		4			
	Removing			-	-	-	-
Total		25th Oct. '87~11th Nov. '87		18	18	-	290
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	0.10 m	Core Length	38.90 m	0 ~ 50.10 m	83.1 %	83.1 %
	Length Drilled	50.10 m	Core Recovery	83.1 %	m	%	%
					m	%	%
Working Time	Drilling	84°30' <sup>H</sup>	39.5 %	32.2 %	m	%	%
	Out Drilling	69°30'	32.5	26.4	m	%	%
	Regain of Accident	60°00'	28.0	22.8	Efficiency of Drilling		
	Total	214°00'	100	81.4	50.10 m/Working Period		2.78 m/day
	Construct	18°00'		6.8	50.10 m/Working Days		2.78 m/day
	Take to pieces	27°00'		10.3	50.10 m/Drilling Period		3.85 m/day
	Moving of water	-		-	50.10 m/Net Drilling Days		3.85 m/day
	Road · others	4°00'		1.5	Total workers/ 50.10 m		5.78 Man/m
G · Total		263°00'		100	Total Drilling Workers/ 50.10 m		2.39 Man/m
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe Length	Drilling of Size		
	BW-CP 11.30m	22.6 %	100 %	Bit size	BW	56-T	
	m	%	%	Drilling	3.30 m	46.80 m	
	m	%	%	Core Length	0.00	38.90	

Operational Results by Drill Hole

JMT-20

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	19th Nov. '87~21st Nov. '87		3	2.5	-	68
	Drilling	21st Nov. '87~23th Nov. '87		3	2.5	-	56
	Removing	22nd Nov. '87~30th Nov. '87		9	9	-	-
	Total	19th Nov. '87~30th Nov. '87		15	14	-	124
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 <sup>m</sup>	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.20 <sup>m</sup>	Core Length	48.20 <sup>m</sup>	0 ~ 50.20 <sup>m</sup>	99.2 %	99.2 %
	Length Drilled	50.20 <sup>m</sup>	Core Recovery	99.2 %		%	%
Working Time	Drilling	34°00' <sup>H</sup>	56.7 %	39.1 %		%	%
	Out Drilling	26°00'	43.3	29.9		%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	69.0	50.20 m/Working Period		3.34 m/day
	Construct	18°00'		20.7	50.20 m/Working Days		3.58 m/day
	take to pieces	9°00'		10.3	50.20 m/Drilling Period		16.73 m/day
	Moving of water	-		-	50.20 m/Net Drilling Days		20.08 m/day
Road · others	-		-	Total workers/ 50.20 m		2.47 Man/m	
G · Total	87°00'		100	Total Drilling Workers/ 50.20m		1.11 Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 1.90 m	3.8	%	100 %	Bit size	BW	56-T
	m		%	%	Drilling	1.90 <sup>m</sup>	48.30 <sup>m</sup>
	m		%	%	Core Length	0.30	47.90

Operational Results by Drill Hole

JMT-21

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	17th Nov. '87~19th Nov. '87		3	2.5	-	76
	Drilling	19th Nov. '87~21st Nov. '87		3	2	-	44
	Removing			-	-	-	-
	Total	17th Nov. '87~21st Nov. '87		6	4.5	-	120
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.10 m	Core Length	49.30 m	0 ~ 50.10 m	98.4 %	98.4 %
	Length Drilled	50.10 m	Core Recovery	98.4 %			
Working Time	Drilling	27°30' <sup>H</sup>	57.3 %	32.7 %			
	Out Drilling	20°30'	42.7	24.4			
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	48°00'	100	57.1	50.10 m/Working Period		8.35 m/day
	Construct	18°00'		21.5	50.10 m/Working Days		11.13 m/day
	Take to pieces	9°00'		10.7	50.10 m/Drilling Period		16.70 m/day
	Moving of water	-		-	50.10 m/Net Drilling Days		25.05 m/day
	Road - others	9°00'		10.7	Total workers/ 50.10 m		2.39 Man/m
G - Total	84°00'		100				
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/ 50.10 m		1.13 Man/m
					Drilling of Size		
	BW-CP 2.00 m	4.00 m	%	100 %	Bit size	BW	56-T
			%	%	Drilling	2.00 m	48.10 m
			%	%	Core Length	2.00	47.30

Operational Results by Drill Hole

JMT-22

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
		Working Period		8th Nov. '87~11th Nov. '87	4	3	1
		12th Nov. '87~14th Nov. '87	3	2.5	-	45	
Removing			-	-	-	-	
Total		8th Nov. '87~14th Nov. '87	7	5.5	1	115	
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.20 m	Core Length	41.80 m	0 ~ 50.20 m	86.4 %	86.4 %
	Length Drilled	50.20 m	Core Recovery	86.4 %	m	%	%
Working Time	Drilling	35°30' <sup>H</sup>	59.2 %	45.5 %	m	%	%
	Out Drilling	24°30'	40.8	31.4	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	76.9	50.20 m/Working Period		7.17 m/day
	Construct	12°00'		15.4	50.20 m/Working Days		9.12 m/day
	take to pieces	6°00'		7.7	50.20 m/Drilling Period		16.73 m/day
	Moving of water	-		-	50.20 m/Net Drilling Days		20.08 m/day
Road · others	-		-	Total workers/ 50.20 m			2.29 Man/m
G · Total	78°00'		100	Total Drilling Workers/ 50.20 m			0.89 Man/m
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 2.80 m	5.6 %	100 %	Bit size	BW	56-T	
	m	%	%	Drilling	2.00 m	48.20 m	
	m	%	%	Core Length	0.20	41.60	

Operational Results by Drill Hole

JMT-23

Working Period		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Preparation		15th Nov. '87~16th Nov. '87		2	2	-	83
Drilling		17th Nov. '87~19th Nov. '87		3	2.5	-	55
Removing				-	-	-	-
Total		15th Nov. '87~19th Nov. '87		5	4.5	-	138
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.20 m	Core Length	45.70 m	0 ~ 50.20 m	95.4 %	95.4 %
	Length Drilled	50.20 m	Core Recovery	95.4 %	m	%	%
Working Time	Drilling	33°30' <sup>II</sup>	55.8 %	38.5 %	m	%	%
	Out Drilling	26°30'	44.2	30.5	m	%	%
Working Time	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	69.0	50.20 m/Working Period		10.04 m/day
	Construct	11°00'		12.6	50.20 m/Working Days		11.15 m/day
	take to pieces	7°00'		8.1	50.20 m/Drilling Period		16.73 m/day
	Moving of water	-		-	50.20 m/Net Drilling Days		20.08 m/day
	Road · others	9°00'		10.3	Total workers/ 50.20m		2.74 Man/m
	G · Total	87°00'		100	Total Drilling Workers/ 50.20 m		1.09 Man/m
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 2.30 m	4.6	%	100 %	Bit size	BW	56-T
	m		%	%	Drilling	2.30 m	47.90 m
	m		%	%	Core Length	0.00	45.70

Operational Results by Drill Hole

JMT-24

Working Period	Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers	
	Preparation	12th Nov. '87~14th Nov. '87	3	2.5	-	84	
	Drilling	14th Nov. '87~16th Nov. '87	3	2.5	-	54	
	Removing		-	-	-	-	
<b>Total</b>	<b>12th Nov. '87~16th Nov. '87</b>	<b>6</b>	<b>5.0</b>	<b>-</b>	<b>138</b>		
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.10 m	Core Length	44.70 m	0 ~ 50.10 m	91.6 %	91.6 %
	Length Drilled	50.10 m	Core Recovery	91.6 %	m	%	%
Working Time	Drilling	31°30' <sup>H</sup>	52.5 %	36.2 %	m	%	%
	Out Drilling	28°30'	47.5 %	32.8 %	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	60°00'	100	69.0	50.10 m/Working Period		8.35 m/day
	Construct	18°00'		20.7	50.10 m/Working Days		10.02 m/day
	take to pieces	9°00'		10.3	50.10 m/Drilling Period		16.70 m/day
	Moving of water	-		-	50.10 m/Net Drilling Days		20.04 m/day
Road · others	-		-	Total workers/ 50.10 m		2.75 Man/m	
<b>G · Total</b>	<b>87°00'</b>		<b>100</b>	Total Drilling Workers/ 50.10 m		<b>1.07 Man/m</b>	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 1.80 m	3.6	%	100 %	Bit size	BW	56-T
	m		%	%	Drilling	1.80 m	48.30 m
	m		%	%	Core Length	0.50	44.20

Operational Results by Drill Hole

JMS-1

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers	
Working Period	Preparation	6th Aug. '87~12th Aug. '87		7	7	-	236	
	Drilling	13th Aug. '87~16th Aug. '87		4	4	-	43	
	Removing	17th Aug. '87~17th Aug. '87		1	1	-	16	
	Total	6th Aug. '87~17th Aug. '87		12	12	-	295	
Depth of Drilling				Core Recovery for each 100 m section				
Drilling Length	Planned Length	50.00 m	Overburden		Depth of Hole	Section	Total	
	Increase or Decrease in Length	0.45 m	Core Length	48.95 m	0 ~ 50.45 m	97.8 %	97.8 %	
	Length Drilled	50.45 m	Core Recovery	97.8 %				
Working Time	Drilling	35°00' <sup>H</sup>	68.6 %	23.5 %				
	Out Drilling	16°00'	31.4	10.7				
	Regain of Accident	-	-	-	Efficiency of Drilling			
	Total	51°00'	100	34.2	50.45 m/Working Period		4.20 m/day	
	Construct	18°00'	-	12.1	50.45 m/Working Days		4.20 m/day	
	take to pieces	4°00'	-	2.7	50.45 m/Drilling Period		12.61 m/day	
	Moving of water	-	-	-	50.45 m/Net Drilling Days		12.61 m/day	
Road · others	76°00'	-	51.0	Total workers/ 50.45 m		5.84 Man/m		
G · Total	149°00'	-	100					
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/ 50.45 m			0.85 Man/m
					Drilling of Size.			
	BW-CP 1.80 m	3.6	%	100 %	Bit size	BW	56-T	
			%	%	Drilling	1.80 m	48.65 m	
		%	%	Core Length	1.40	47.55		



Operational Results by Drill Hole

JMS-2

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	13th Aug. '87~16th Aug. '87		4	4	-	100
	Drilling	17th Aug. '87~22nd Aug. '87		6	5	-	126
	Removing			-	-	-	-
	Total	13th Ago. '87~22nd Aug. '87		10	9	-	226
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Overburden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	0.10 m	Core Length	47.50 m	0 ~ 50.10 m	97.5 %	97.5 %
	Length Drilled	50.10 m	Core Recovery	97.5 %	m	%	%
Working Time	Drilling	51°00' <sup>H</sup>	42.5 %	29.3 %	m	%	%
	Out Drilling	69°00'	57.5	39.7	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	120°00'	100	69.0	50.10 m/Working Period		5.01 m/day
	Construct	9°00'	-	5.2	50.10 m/Working Days		5.56 m/day
	Take to pieces	18°00'	-	10.3	50.10 m/Drilling Period		8.35 m/day
	Moving of water	-	-	-	50.10 m/Net Drilling Days		10.02 m/day
Road · others	27°00'	-	15.5	Total workers/ 50.10 m		4.51 Man/m	
G · Total	174°00'	-	100	Total Drilling Workers/50.10 m		2.51 Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 12.90 m	25.7	%	100 %	Bit size	BW	56-T
	m		%	%	Drilling	1.90 m	48.20 m
	m		%	%	Core Length	0.50	47.00

Operational Results by Drill Hole

JMS-3

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	17th Aug. '87~20th Aug. '87		4	4	-	99
	Drilling	23rd Aug. '87~26th Aug. '87		4	4	-	82
	Removing	27th Aug. '87~27th Aug. '87		1	1	-	11
	Total	17th Aug. '87~20th Aug. '87 23rd Aug. '87~27th Aug. '87		9	9	-	192
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Overburden		Depth of Hole	Section	Total
	Increase or Decrease in Length	8.00 m	Core Length	55.90 m	0 ~ 58.00 m	99.6 %	99.6 %
	Length Drilled	58.00 m	Core Recovery	99.6 %		%	%
Working Time	Drilling	48°00' <sup>H</sup>	50.0 %	35.3 %		%	%
	Out Drilling	48°00'	50.0	35.3		%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	96°00'	100	70.6	58.00 m/Working Period		6.44 m/day
	Construct	15°00'	-	11.0	58.00 m/Working Days		6.44 m/day
	take to pieces	16°00'	-	11.8	58.00 m/Drilling Period		14.50 m/day
	Moving of water	-	-	-	58.00 m/Net Drilling Days		14.50 m/day
Road · others	9°00'	-	6.6	Total workers/ 58.00 m		3.31 Man/m	
G · Total	136°00'	-	100	Total Drilling Workers/58.00 m		1.41 Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 16.20 m	27.9	%	100 %	Bit size	BW	56-T
	m	%	%	%	Drilling	2.90 m	55.10 m
	m	%	%	%	Core Length	1.00	54.90

Operational Results by Drill Hole

JMS-4

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
		Working Period		Preparation	30th Aug. '87~3rd Sep. '87	5	4.5
Drilling	3rd Sep. '87~5th Sep. '87			3	2.5	-	64
Removing				-	-	-	-
Total	30th Aug. '87~5th Sep. '87			8	7	-	207
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	3.30 m	Core Length	50.80 m	0 ~ 53.30 m	95.7 %	95.7 %
	Length Drilled	53.30 m	Core Recovery	95.7 %	m	%	%
Working Time	Drilling	37°00' <sup>H</sup>	51.4 %	34.3 %	m	%	%
	Out Drilling	35°00'	48.6	32.4	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	72°00'	100	66.7	53.30 m/Working Period		6.66 m/day
	Construct	14°00'	-	13.0	53.30 m/Working Days		7.61 m/day
	take to pieces	22°00'	-	20.3	53.30 m/Drilling Period		17.76 m/day
	Moving of water	-	-	-	53.30 m/Net Drilling Days		21.32 m/day
	Road - others	-	-	-	Total workers/ 53.30 m		3.88 Man/m
Casing Pipe Inserted	G - Total	108°00'	-	100	Total Drilling Workers/53.30 m		1.20 Man/m
	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 1.80 m	3.4 %	100 %	Bit size	BW	56-T	
	m	%	%	Drilling	1.80 m	51.50 m	
	m	%	%	Core Length	1.60	49.20	

Operational Results by Drill Hole

JMS-5

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	21st Aug. '87~24th Aug. '87		4	4	-	137
	Drilling	27th Aug. '87~29th Ago. '87		3	3	-	63
	Removing			-	-	-	-
	Total	21st Aug. '87~24th Aug. '87 27th Aug. '87~29th Aug. '87		7	7	-	200
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 <sup>m</sup>	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	3.20 <sup>m</sup>	Core Length	51.30 <sup>m</sup>	0 ~ 53.20 m	100 %	100 %
	Length Drilled	53.20 <sup>m</sup>	Core Recovery	100 %		%	%
Working Time	Drilling	32°00' <sup>H</sup>	44.4 %	18.7 %		%	%
	Out Drilling	40°00'	55.6	23.4		%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	72°00'	100	42.1	53.20 m/Working Period		7.60 m/day
	Construct	27°00'	-	15.8	53.20 m/Working Days		7.60 m/day
	take to pieces	9°00'	-	5.3	53.20 m/Drilling Period		17.73 m/day
	Moving of water	-	-	-	53.20 m/Net Drilling Days		17.73 m/day
	Road · others	63°00'	-	36.8	Total workers/ 53.20 m		3.75 Man/m
G · Total	171°00'	-	100	Total Drilling Workers/ 53.20 m		1.18 Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 2.10 m	3.9 %	100 %	Bit size	BW	56-T	
	m	%	%	Drilling	1.90 <sup>m</sup>	51.30 <sup>m</sup>	
	m	%	%	Core Length	0.00	51.30	

Operational Results by Drill Hole

JMS-6

Working Period	Period			Number of Days	Actual Working Days	Day Off	Total Number of Workers	
	Preparation	24th Aug. '87~29th Ago. '87			6	6	-	190
	Drilling	30th Aug. '87~ 2nd Sep. '87			4	3.5	-	109.5
	Removing	2nd Sep. '87~ 2nd Sep. '87			1	0.5	-	10.5
Total	24th Aug. '87~ 2nd Sep. '87			11	10	-	310	
Depth of Drilling				Core Recovery for each 100 m section				
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total	
	Increase or Decrease in Length	0.10 m	Core Length	43.20 m	0 ~ 50.10 m	97.1 %	97.1 %	
	Length Drilled	50.10 m	Core Recovery	97.1 %	m	%	%	
Working Time	Drilling	42°00' <sup>H</sup>	46.7 %	28.6 %	m	%	%	
	Out Drilling	48°00'	53.3	32.7	m	%	%	
	Regain of Accident	-	-	-	Efficiency of Drilling			
	Total	90°00'	100	61.3	50.10 m/Working Period		4.55 m/day	
	Construct	14°00'	-	9.5	50.10 m/Working Days		5.01 m/day	
	take to pieces	16°00'	-	10.9	50.10 m/Drilling Period		12.52 m/day	
	Moving of water	-	-	-	50.10 m/Net Drilling Days		14.31 m/day	
Road - others	27°00'	-	18.3	Total workers/ 50.10 m		6.18 Man/m		
G - Total	147°00'	-	100	Total Drilling Workers/ 50.10 m		2.18 Man/m		
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size			
	BW-CP 5.60 m	11.2	%	100 %	Bit size	BW	56-T	
	m		%	%	Drilling	5.60 m	44.50 m	
	m		%	%	Core Length	0.00	43.20	

Operational Results by Drill Hole

JMS-7

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	11th Sep. '87~13th Sep. '87		3	3	-	78
	Drilling	14th Sep. '87~16th Sep. '87		3	3	-	76
	Removing			-	-	-	-
	Total	11th Sep. '87~16th Sep. '87		6	6	-	154
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.10 m	Core Length	40.90 m	0 ~ 50.10 m	84.3 %	84.3 %
	Length Drilled	50.10 m	Core Recovery	84.3 %			
Working Time	Drilling	33°00' <sup>H</sup>	45.8 %	25.5 %			
	Out Drilling	39°00'	54.2	30.2			
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	72°00'	100	55.7	50.10 m/Working Period		8.35 m/day
	Construct	21°00'	-	16.3	50.10 m/Working Days		8.35 m/day
	take to pieces	18°00'	-	14.0	50.10 m/Drilling Period		16.70 m/day
	Moving of water	-	-	-	50.10 m/Net Drilling Days		16.70 m/day
Road : others	18°00'	-	14.0				
G - Total	129°00'	-	100	Total workers/ 50.10 m		3.07 Man/m	
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/ 50.10 m		1.51 Man/m
	BW-CP 2.00 m	4.0 %	100 %	Drilling of Size			
		%	%	Bit size	BW	56-T	
		%	%	Drilling	2.00 m	48.10 m	
	%	%	Core Length	0.40	40.50		



Operational Results by Drill Hole

JMS-9

Working Period	Period			Number of Days	Actual Working Days	Day Off	Total Number of Workers
	Preparation	2nd Sep. '87~ 5th Sep. '87		4	4	-	108
	Drilling	6th Sep. '87~ 8th Sep. '87		3	3	-	105
	Removing			-	-	-	-
Total	2nd Sep. '87~ 8th Sep. '87		7	7	-	213	
Drilling Length	Depth of Drilling			Core Recovery for each 100 m section			
	Planned Length	50.00 m	Overburden	m	Depth of Hole	Section	Total
	Increase or Decrease in Length	0.20 m	Core Length	44.30 m	0 ~ 50.20 m	90.0 %	90.0 %
	Length Drilled	50.20 m	Core Recovery	90.0 %	m	%	%
Working Time	Drilling	32°00' <sup>H</sup>	44.4 %	25.4 %	m	%	%
	Out Drilling	40°00'	55.6	31.8	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	72°00'	100	57.2	50.20 m/Working Period		7.17 m/day
	Construct	14°00'	-	11.1	50.20 m/Working Days		7.17 m/day
	take to pieces	13°00'	-	10.3	50.20 m/Drilling Period		16.73 m/day
	Moving of water	-	-	-	50.20 m/Net Drilling Days		16.73 m/day
Road . others	27°00'	-	21.4	Total workers/ 50.20 m		4.23 Man/m	
G - Total	126°00'	-	100				
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/ 50.20 m		2.09 Man/m
	BW-CP 1.80 m	3.6	%	100 %	Drilling of Size		
	m		%	%	Bit size	BW	56-T
	m		%	%	Drilling	1.80 m	48.40 m
				Core Length	0.80	43.50	



Operational Results by Drill Hole

JMS-10

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	5th Sep. '87 ~ 8th Sep. '87		4	4	-	127
	Drilling	9th Sep. '87 ~ 11th Sep. '87		3	3	-	32
	Removing			-	-	-	-
	Total	5th Sep. '87 ~ 11th Sep. '87		7	7	-	159
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Overburden		Depth of Hole	Section	Total
	Increase or Decrease in Length	1.00 m	Core Length	47.10 m	0 ~ 51.00 m	91.9 %	91.9 %
	Length Drilled	51.00 m	Core Recovery	91.9 %			
Working Time	Drilling	40°00' <sup>H</sup>	55.6 %	34.2 %			
	Out Drilling	32°00'	44.4	27.4			
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	72°00'	100	61.6	51.00 m/Working Period		7.28 m/day
	Construct	15°00'	-	12.8	51.00 m/Working Days		7.28 m/day
	take to pieces	9°00'	-	7.7	51.00 m/Drilling Period		17.00 m/day
	Moving of water	-	-	-	51.00 m/Net Drilling Days		17.00 m/day
	Road - others	21°00'	-	17.9	Total workers/ 51.00 m		3.11 Man/m
G - Total	117°00'	-	100				
Casing Pipe Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Total Drilling Workers/51.00 m		0.62 Man/m
	BW-CP 2.80 m	5.5 %		100 %	Drilling of Size		
	m	%		%	Bit size	BW	56-T
	m	%		%	Drilling	2.80 m	48.20 m
					Core Length	0.50	46.60

Operational Results by Drill Hole

JMS-11

		Period		Number of Days	Actual Working Days	Day Off	Total Number of Workers
Working Period	Preparation	13th Sep. '87~16th Sep. '87		4	4	-	85
	Drilling	17th Sep. '87~19th Sep. '87		3	3	-	73
	Removing	17th Sep. '87~19th Sep. '87 20th Sep. '87~21st Sep. '87		5	5	-	141
	Total	13th Sep. '87~21st Sep. '87		12	12	-	299
Depth of Drilling				Core Recovery for each 100 m section			
Drilling Length	Planned Length	50.00 m	Over-burden		Depth of Hole	Section	Total
	Increase or Decrease in Length	0.20 m	Core Length	42.40 m	0 ~ 50.20 m	85.7 %	85.7 %
	Length Drilled	50.20 m	Core Recovery	85.7 %	m	%	%
					m	%	%
Working Time	Drilling	29°00' <sup>H</sup>	40.3 %	26.8 %	m	%	%
	Out Drilling	43°00'	59.7	39.8	m	%	%
	Regain of Accident	-	-	-	Efficiency of Drilling		
	Total	72°00'	100	66.6	50.20 m/Working Period		4.18 m/day
	Construct	18°00'	-	16.7	50.20 m/Working Days		4.18 m/day
	Take to pieces	18°00'	-	16.7	50.20 m/Drilling Period		10.04 m/day
	Moving of water	-	-	-	50.20 m/Net Drilling Days		10.04 m/day
	Road - others	-	-	-	Total workers/ 50.20 m		5.95 Man/m
Casing Pipe Inserted	G - Total	108°00'	-	100	Total Drilling Workers/ 50.20 m		1.45 Man/m
	Pipe Size & Meterage	Inserted Length Drilling Length	%	Recovery of Casing Pipe	Drilling of Size		
	BW-CP 5.30 m	10.6 %	100 %	Bit size	BW	56-T	
	m	%	%	Drilling	1.80 m	48.40 m	
	m	%	%	Core Length	1.10	41.30	



## Appendix 8

### List of the used equipments for drilling



List of the Used Equipments for Drilling

Item	Model	Quantity	Capacity, Type, and Specification
Drilling Machine	YBM-05DA	2	Capacity 56mm 55m Inner Diameter of Spindle 42mm
Engine for Drill	DY-41B	2	Diesel Engine 7.5PS/1800rpm
Pump	MG-5A	1	Piston $\phi$ 68mm Capacity 35~42 l/min.
Engine for Drill	NFA-70	1	Diesel Engine
Generator	XG 38L	1	3.4KVA, 220V, 50 c/s
Engine for Generator	EY27-2D	1	Gasoline Engine 7.0PS/1800rpm
Pump	TAA600K	2	Capacity 42.8 l/min. Pressure 40 kg/cm <sup>2</sup>
Engine for Pump	L60SSNT	2	Diesel Engine 6.0PS/1800rpm
Derrick			
Rod Holder	RH-45	1	Hand Type
Drill Rods	40.5	25	3.00 M/pc
	40.5	25	1.50 M/pc
Casing Pipes	BW	5	1.5 M/pc
	"	5	1.0 M/pc
	"	5	0.5 M/pc
	"	5	0.3 M/pc
Double Core Barrel	56-T	2	3.00 M/pc
	"	3	1.50 M/pc
Inner Tube	56-T	1	3.00 M/pc
	"	1	1.50 M/pc



## Appendix 9

### Articles of consumption and drilling parts





Articles of Consumption and Drilling Parts

Description	Specification	Unit	Quantity			Total
			JMS Songue	JMT Thundulu	JMT Natach	
Light Oil	40#	ℓ	54	35	22	111
Mobil Oil	30#	ℓ	58	28	38	124
Hydraulic Oil	90#	ℓ	65	30	60	155
Solblu	EM	ℓ	160	73	372	461
TK-60		kg	77.6	26.5	36.7	140.8
Cement		kg	200	-	280	480
Casing Metal Shoe		pc	6	1	2	9
Double Core Barrel Assy	56mmx3.00m	set	1	1		2
Double Core Barrel Assy	56mmx1.50m	set	1	1	1	3
Inner Tube	56mmx3.00m	set			1	1
Inner Tube	56mmx1.50m	set			1	1
Extension Tube		pc	4	5	5	14
Core Lifter		pc	5	5	6	16
Core Lifter Case		pc	3	4	6	13
Drill Rod	40.5mmx3.00m	pc	4	6	6	16
Drill Rod	40.5mmx1.50m	pc	3	7	8	18
Drill Rod Coupling	40.5mm	pc		3	5	8
Casing Pipe	BWx1.50m	pc	1	1	1	3
Casing Pipe	BWx1.00m	pc	1	1	1	3
Casing Pipe	BWx0.50m	pc	1	1	1	3
Casing Pipe	BWx0.30m	pc	1	1	2	4
Core Box		pc	107	110	126	343
Wire	9mmx	kg	1			1
Wire Rope	9mmx100m	roll		1	1	2
Manila Rope	12mmx100m	"	1		1	2
Vinyl Rope	10mmx200m	pc	1		1	2
Piston Rod	MG-5A	pc		1		1
Piston Rubber	68mmφ	pc			2	2
V-Packing	MG-5A	pc		8	8	16
Steel ball	MG-5A 1-1/2	pc			4	4

Description	Specification	Unit	Quantity			Total
			JMS Songue	JMT Thundulu	JMT Natach	
Spark Plug		pc	3	3	4	10
Air Element		pc			1	1
Brush		pc		3	3	6
Steel Ball		pc			4	4
V-Packing	DY-41B	pc		7	7	14
Water Swivel Packing	40.5mm	pc		2	2	4
Water Swivel Oil Seal	40.5mm	pc		1	1	2
Water Swivel Felt Ring		pc		1	1	2
V-Belt	TA-600K				1	

## Appendix 10

### Drilling meterage of diamond bits



Drilling Meterage of Diamond Bits

JMT Tundulu (Tundulu)

Item	Type	Bit No.	Drilling Meterage by Drill Hole, Unit Meter										Total		
			JMT 1	JMT 2	JMT 3	JMT 4	JMT 5	JMT 6	JMT 9	JMT 10	JMT 11	JMT 12		JMT 13	
Bit	56T	E-177356	22.60						11.10						33.70
		E-177357	23.80										7.35		31.15
		E-177358		24.05											24.05
		C-177359		24.45											24.45
		C-177360			23.80										23.80
		C-177361			24.70										24.70
		C-177362				22.60			13.20						35.80
		C-177363				25.90									25.90
		C-177364					23.80					14.10			37.90
		C-177365					24.70		11.35						36.05
		C-177366						24.30				9.10			33.40
		C-177367							24.15	5.20					29.35
		S530							12.80	21.00					33.80
		S531								22.10				5.50	27.60
		S532									23.80			6.00	29.80
		S533									24.60			5.30	29.90
		S534										23.20			23.20
		S535											24.35		24.35
		Total	46.40	48.50	48.50	48.50	48.50	48.60	48.30	48.30	48.40	46.40	48.50	528.90	

Drilling Meterage of Diamond Bits

JMS Songwe

Item	Type	Bit No.	Drilling Meterage by Drill Hole, Unit Meter											Total			
			JMS 1	JMS 2	JMS 3	JMS 4	JMS 5	JMS 6	JMS 7	JMS 8	JMS 9	JMS 10	JMS 11				
Bit	56T	E-177336	23.50													23.50	
		E-177337	25.15														25.15
		E-177338		17.10													17.10
		E-177339		15.80													15.80
		E-177340		15.30													15.30
		E-177341			17.20												17.20
		E-177342			18.70												18.70
		E-177343			19.20												19.20
		E-177344				26.30											26.30
		E-177345				25.20											25.20
		E-177346					25.90										25.90
		E-177347					25.40										25.40
		E-177348						23.50									23.50
		E-177349						21.00									21.00
		E-177350							24.10								24.10
		E-177351							24.00								24.00
		E-177352								19.70							19.70
		E-177353								20.50							20.50
		E-177354									23.90						23.90
		E-177355									24.50						24.50
		C-177372										24.00					24.00
		C-177373										24.20					24.20
		C-177374											22.40				22.40
C-177375											26.00				26.00		
		Total	48.65	48.20	55.10	51.50	51.30	44.50	48.10	40.20	48.40	48.20	48.40		532.55		

Drilling Meterage of Diamond Bits

JMT Tundulu(Nathace)

Item	Type	Bit No.	Drilling Meterage by Drill Hole, Unit Meter													Total	
			JMT 7	JMT 8	JMT 14	JMT 15	JMT 16	JMT 17	JMT 18	JMT 19	JMT 20	JMT 21	JMT 22	JMT 23	JMT 24		
Bit	56T	S536	23.70			9.30											33.00
		S537		24.30		9.70											34.00
		S538		23.80				7.20									31.00
		S539			25.10		10.00										35.10
		S540				29.30		12.40									41.70
		S541					26.10		7.60								33.70
		S542						31.10			9.60						40.70
		S543							28.20		6.40						34.60
		S544										7.10		10.40	11.50		29.00
		S545									19.40		7.60				27.00
		C-177368										32.30		10.50			42.80
		C-177369									27.40		4.10				31.50
		C-177370												29.70		10.70	40.40
		C-277730											29.30		16.10	26.10	71.50
		E-177358		8.30													8.30
		C-177359		6.10													6.10
		C-177360		9.30													9.30
		C-177361				12.10											12.10
		C-177363				11.40											11.40
		S-534						12.20									12.20
		S-535						10.00									10.00
		E-177342													21.40		21.40
		E-177340												8.00			8.00
		Total	47.40	48.10	48.60	48.30	48.30	48.30	48.20	46.80	48.30	48.10	48.20	47.90	48.30	624.80	







