Project:
The River Sediment Survey
For
The Study on Comprehensive
Management Plan Of Muda River Basin
in Malaysia

Section Two - Attachment Three. Results of Bed Load Sampling..

Client:
JICA Study Team.
CTI Engineering Co Ltd.
In association with
INA Corporation.

Contractor.
Pembinaan Jitu Padat.
282, Jalan Kangar, Perils,
01000 Kangar, Perils.

### DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: PT 1
- 2. Sampling site: Pinang Tunggal
- 3. Time and Data Sampling: 10am 19th November 94
- 4. Name of Survey Team Leader: Abd Karib.
- 5. Waterlevel H: 1.93 ( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 57 m
- 8. Time Period of Keeping Sampler Mouth Open T:3600 sec.
- 9. Sample Weight:

Left w1:

0.5 gr

Center wc: 15.1 gr

Right wr:

gr

Total wt: 15.6 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.00054(kg / sec)$ 

Bed Load Survey Pg 1

Pembinaan Jitu Padat.

### COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: PT 2
- 2. Sampling site: Pinang Tunggal
- 3. Time and Data Sampling: 7.12am 26th November 94.
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 2.06 ( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 57 m
- 8. Time Period of Keeping Sampler Mouth Open T:1800 sec.
- 9. Sample Weight:

Left w1:

104.7 gr

Center wc: 188.6

Right wr: 66

663.0 gr

Total wt: 956.3 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T =$ 

0.06662(kg / sec)

### DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: PT 3
- 2. Sampling site: Pinang Tunggal
- 3. Time and Data Sampling: 5.45am 4th December 94
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 2.5 ( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 57 m
- 8. Time Period of Keeping Sampler Mouth Open T:1800 sec.
- 9. Sample Weight:

Left w1: 606.8 gr

Center wc: 2700.3 gr

Right wr: 488.5 gr

Total wt: 3795.6 gr

10. Calculation of Bed Load Qb:

$$Qb = 0.0022 \times wt \times Bw / T = 0.26443(kg / sec)$$

### THE STUDY ON COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

- Sample no: PT 4
- 2. Sampling site: Pinang Tunggal
- Time and Data Sampling: 5.40am 11th December 94.
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 1.88 ( m LSD )
- 6. Discharge Q: (m/s
- 7. Width of Water Surface Bw: 57 m
- 8. Time Period of Keeping Sampler Mouth Open T:1800 sec.
- 9. Sample Weight:

Left w1: 172.4 gr

Center wc: 312.0 gr

Right wr: 292.0 gr

Total wt: 776.0 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.05406(kg / sec)$ 

DATA SHEET FOR BED LOAD SURVEY.

Date:

Locaton: Pinang Tunggal

	PT1	PT2	РТЗ	PT4	Remarks
Date	19/11/94	26/11/94	4/12/94	11/12/94	<del></del>
Left.	0.5 gr	104.7 gr	606.8 gr	172.0 gr	
Center	15.1 gr	188.6 gr	2700.3 gr	312.0 gr	
Right	- gr	663.0 gr	488.5 gr	292.0 gr	
Total	15.6 gr	956.3 gr	3795.6.gr	776.0 gr	
Time(sec) Period	3600	1800	1800	1800	
Bed Load ( kg/sec)	0.00054	0.06662	0.26443	0.05406	

THE STUDY ON COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: JSO 1
- 2. Sampling site: Jambatan Syed Omar.
- 3. Time and Data Sampling: 3.55pm 19th November 94
- 4. Name of Survey Team Leader: Abd karib .
- 5. Waterlevel H: 7.83 ( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 56 m
- 3. Time Period of Keeping Sampler Mouth Open T:3600 sec.
- 9. Sample Weight:

Left w1: 0.6 g

Center wc: 1.2 gr

Right wr: 3.5 gr

Total wt: 5.3 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.00018(kg / sec)$ 

### DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: JSO 2
- 2. Sampling site: Jambatan Syed Omar.
- 3. Time and Data Sampling: 10.50am 26th November 94.
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 8.30 ( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 56 m
- 8. Time Period of Keeping Sampler Mouth Open 7:1800 sec.
- 9. Sample Weight:

Left w1: 54.4 q

Center wc: 10.6 gr

Right wr: 1518.9 gr

Total wt: 1583.9 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.10841(kg / sec)$ 

### Bed Load Survey Pg 7 Pembinaan Jitu Padat.

## THE STUDY ON COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

### - DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: JSO 3
- 2. Sampling site: Jambatan Syed Omar.
- 3. Time and Data Sampling: 8.30am 4th December 94
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 9.40( m LSD )
- 6. Discharge Q: ( m / s )
- 7. Width of Water Surface Bw: 56 m
- 8. Time Period of Keeping Sampler Mouth Open T:1200 sec.
- 9. Sample Weight:

Left wi: 108.1 gr

Center wc: 66.4 gr

Right wr: 136.8 gr

Total wt: 311.3 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.03196(kg / sec)$ 

DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: JSO 4
- 2. Sampling site: Jambatan Syed Omar.
- 3. Time and Data Sampling: 9.12am 11th December 94.
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 9.20( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 56 m
- 8. Time Period of Keeping Sampler Mouth Open T:1200 sec.
- 9. Sample Weight:

Left w1: 174.8 gr

Center wc: 398.5 gr

Right wr: 203.8 gr

Total wt: 777,1 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.07978(kg / sec)$ 

# THE STUDY ON COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

Date:

Locaton: Jambatan Syed Omar.

·	JS01	JS02	JS03	JS04	Remarks
Date	19/11/94	26/11/94	4/12/94	11/12/94	
Left	0.6 gr	54.4 gr	108.1 gr	174.8 gr	
Center	1.2 gr	10.6 gr	66.4 gr	398.5 gr	
Right	3.5 gr	1518.9 gr	136.8 gr	203.8 gr	
Total	5.3 gr	1583.9 gr	311.3 gr	777.1 gr	-
Time(sec) Period	3600	1800	1200	1200	
Bed Load ( kg/sec)	0.00018	0.10841	0.03196	0.07978	

### DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: KT 1
- 2. Sampling site: Kampung Tiban
- 3. Time and Data Sampling: 9.05am 20th November 94
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 17.46( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 43.6 m
- 8. Time Period of Keeping Sampler Mouth Open T:450 sec.
- 9. Sample Weight:

Left w1: 16.5 gr

Center wc: 387.9 gr

Right wr: 3010.7 gr

Total wt: 3415.1 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.72795(kg / sec)$ 

Bed Load Survey Pg 11 Pembinaan Jitu Padat.

### THE STUDY ON COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: KT 2
- 2. Sampling site: Kampung Tiban
- 3. Time and Data Sampling: 1.26pm 26th November 94.
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 17.86( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 34.6 m
- 8. Time Period of Keeping Sampler Mouth Open T:300 sec.
- 9. Sample Weight:

Left w1: 150.9 gr

Center wc: 228.7 gr

Right wr: 2208.6 gr

Total wt: 2588.2 gr

10. Calculation of Bed Load Qb:

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 $Qb = 0.0022 \times wt \times 8w / T = 0.65671(kg / sec)$ 

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DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: KT 3
- 2. Sampling site: Kampung Tiban
- 3. Time and Data Sampling: 10.10am 4th December 94
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 18.08( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 34.6 m
- 8. Time Period of Keeping Sampler Mouth Open T:300 sec.
- 9. Sample Weight:

Left w1: 578.2 gr

Center wc: 1850.1 gr

Right wr: 1530.3 gr

Total wt: 3958.6 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 1.00443(kg / sec)$ 

THE STUDY ON COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: KT 4
- 2. Sampling site: Kampung Tiban
- 3. Time and Data Sampling: 10.50am 11th December 94.
- 4. Name of Survey Team Leader: Abd Karib
- Waterlevel H: 17.4 ( m LSD )
- 6. Discharge Q: ( m / s )
- 7. Width of Water Surface Bw: 34.6 m
- 8. Time Period of Keeping Sampler Mouth Open T:300 sec.
- 9. Sample Weight:

Left w1: 444.1 gr

Center wc: 956.7 gr

Right wr: 486.8 gr

Total wt: 1887.6 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.47895(kg / sec)$ 

DATA SHEET FOR BED LOAD SURVEY.

Date:

Locaton: Kampung Tiban.

	KT1	KT2	ктз	KT4	Remarks
Date	20/11/94	26/11/94	4/12/94	11/12/94	
Left	16.5 gr	150.9 gr	578.2 gr	444.1 gr	
Center	387.9 gr	228.7 gr	1850.1 gr	956.7 gr	
Right	3010.7 gr	2208.6 gr	1530.3 gr	486.8 gr	
Total	3415.1 gr	2588.2 gr	3958.6 gr	1887.6 gr	
Time(sec) Period.	450	300	300	300	
Bed Load ( kg/sec)	0.72795	0.65671	1.00443	0.47895	

THE STUDY ON COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: JN 1

2. Sampling site: Jeniang

Time and Data Sampling: 11.50am 20th November 94

4. Name of Survey Team Leader: Abd Karib

5. Waterlevel H: 1.84 ( m LSD )

6. Discharge Q: ( m / s )

7. Width of Water Surface Bw: 32 m

8. Time Period of Keeping Sampler Mouth Open T:1800 sec.

9. Sample Weight:

Left w1: 0 gr

Center wc: 12.3 gr

Right wr: 0 gr

Total wt: 12.3 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.00048(kg / sec)$ 

Bed Load Survey Pg 15 Pembinaan Jitu Padat.

Bed Load Survey Pg 16 Pembinaan Jitu Padat.

### DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: JN 2
- 2. Sampling site: Jeniang
- 3. Time and Data Sampling: 3.25pm 26th November 94.
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 2.50 ( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 32 m
- 8. Time Period of Keeping Sampler Mouth Open 1:1800 sec.
- 9. Sample Weight:

0

0

Left w1:

0 gr

Center wc:

4.3 nr

Right wr:

19.8 ar

Total wt:

24.1 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.00094(kg / sec)$ 

### Bed Load Survey Pg 17 Pembinaan Jitu Padat.

### THE STUDY ON COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: JN 3
- 2. Sampling site: Jeniang
- 3. Time and Data Sampling: 11.10am 4th December 94
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 2.80 ( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 32 m
- B. Time Period of Keeping Sampler Mouth Open T:1200 sec.
- 9. Sample Weight:

Left w1:

n ar

Center wc:

69.8 ar

Right wr:

1.4 gr

Total wt:

71.2 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.00418(kg / sec)$ 

### DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: JN 4

2. Sampling site: Jeniang

3. Time and Data Sampling: 12pm 11th December 94.

4. Name of Survey Team Leader: Abd Karib

5. Waterlevel H: 1.80( m LSD );

6. Discharge Q: (m/s)

7. Width of Water Surface Bw: 32 m

8. Time Period of Keeping Sampler Mouth Open T:2700 sec.

9. Sample Weight:

Left wi:

20.1 gr

Center wc:

98.2 gr

Right wr:

36.1 gr

Total wt:

154.4 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T$ 

0.00403(kg / sec)

Bed Load Survey Pg 19 Pembinaan Jitu Padat.

# THE STUDY ON COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

Date:

Locaton: Jeniang.

	JN1	JN2	JN3	JN4	Remarks
Date	20/11/94	26/11/94	4/12/94	11/12/94	`
Left	••	-	<b>-</b>	20.1 gr	
Center	12.3 gr	4.3 gr	69.8 gr	98.2 gr	
Right	***	19.8 gr	1.4 gr	36.1 gr	
Total	12.3 gr	24.9 gr	71.2 gr	154.4 gr	
Time(sec) Period.	1800	1800	1200	2700	
Bed Load ( kg/sec)	0.00048	0.00094	0.00418	0.00403	

Bed Load Survey Pg 20 Pembinaan Jitu Padat.

### DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: NM 1
- 2. Sampling site: Nami
- 3. Time and Data Sampling: 3.15pm 20th November 94
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 49.37 ( m LSD )
- 6. Discharge Q: ( m / s )
- 7. Width of Water Surface Bw: 22 m
- 8. Time Period of Keeping Sampler Mouth Open T:1200 sec.
- 9. Sample Weight:

Left w1:

1.1 gr

Center wc: 22.9 gr

Right wr: 408.00 gr

Total wt: 432.0 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.01742(kg / sec)$ 

## THE STUDY ON COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

### DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: NM 2
- 2. Sampling site: Nami
- 3. Time and Data Sampling: 6.35pm 26th November 94.
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 49.59 ( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 22 m
- 8. Time Period of Keeping Sampler Mouth Open T:600 sec.
- 9. Sample Weight:

Left w1: 329.0 gr

Center wc: 11.7 gr

Right wr: 1056.6 gr

Total wt: 1397.3 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.11272(kg / sec)$ 

### DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: NM 3
- 2. Sampling site: Nami
- 3. Time and Data Sampling: 1.50pm 4th December 94
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 49.77 ( m LSD )
- 6. Discharge Q: ( m / s )
- 7. Width of Water Surface Bw: 22 m
- 8. Time Period of Keeping Sampler Mouth Open T:300 sec.
- 9. Sample Weight:

Left w1: 678.2 gr

Center wc: 650.2 gr

Right wr: 730.1 gr

Total wt: 2058.4 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.33209(kg / sec)$ 

Bed Load Survey Pg 23 Pembinaan Jitu Padat.

# THE STUDY ON COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

### DATA SHEET FOR BED LOAD SURVEY.

- 1. Sample no: NM 4
- Sampling site: Nami
- Time and Data Sampling: 3.30pm 11th December 94.
- 4. Name of Survey Team Leader: Abd Karib
- 5. Waterlevel H: 49.20( m LSD )
- 6. Discharge Q: (m/s)
- 7. Width of Water Surface Bw: 22 m
- 8. Time Period of Keeping Sampler Mouth Open T:300 sec.
- 9. Sample Weight:

Left w1: 720.0 gr

Center wc: 712.2 gr

Right wr: 1395.1 gr

Total wt: 2827.2 gr

10. Calculation of Bed Load Qb:

 $Qb = 0.0022 \times wt \times Bw / T = 0.45612(kg / sec)$ 

DATA SHEET FOR BED LOAD SURVEY.

Date:

Locaton: Nami.

	NM1	NM2	NM3	NM4	Remarks
Date	20/11/94	26/11/94	4/12/94	11/12/94	
Left	1.1 gr	329.0 gr	678.2 gr	720.0 gr	
Center	22.9 gr	11.7 gr	650.1 gr	712.1 gr	
Right	408.0 gr	1056.6 gr	730.1 gr	1395.1 gr	
Total	432.0 gr	1397.3 gr	2058.4 gr	2827.2 gr	
Time(sec) Period.	1200	600	300	300	·
Bed Load ( kg/sec)	0.01742	0.31272	0.33209	0.45612	

Bed Load Survey Pg 25 Pembinaan Jitu Padat. Percentage passing

Particlo size disti	ributio	-1, 74 9 <b>n</b>			_	
Wel Dry sieving !	nethod	il.			·	
Operator	•		Job;		Site:	
Date:		•			Borehole No	
Description of soil:						
Total mass of day sad	mple (n	15.6	2	S.	Sample No: Depth of san	PT(I)
BS test siève	4	1 .	Mass retained.	Percentage		<u> </u>
			, constitution	Mass x 100	Total percentage passing	load†
\$0.	បាយ	8	8		:	g
37.5					-	
25 25	mm mm				<del>'</del>	4500 3500
201						2500
-	លល					2000
Passing 20 mm $(m_2)$ Riffled sample passing 20 mm $(m_3)$						
Riffling	s correc	tion, $C_1$	Corrected values			-
$C_i = \frac{1}{i}$	$\frac{n_2^2}{n_3} = .$		C <sub>1</sub> X mass retained	1		1
. 12:5 n 10 n 6.3						1500
Passing 6.3 mm (m <sub>4</sub> ) Riffled sample passing 6.3 mm (m <sub>5</sub> )			· · · · ·			750
Riffling $C_2 = \frac{n}{n}$			Corrected values  C2 X mass retained			
\$ m		-				500
3.3: 2:36hi	S ուռ։ .m/	0			10.0	300
1.11	8 ភពារ	0		7.7	92.3	200 100
600 <sub>1</sub> 425 <sub>1</sub>		6.4		41.0	51.3	75
3001		7.6		48.7	2 1/-	75
212 j	juj.	-		4.0.7	2.6	- 50 50
150 p 75 p	in:	0.5		1:3	1.3	40
Passing 75.1	m			0,0	0.7	25
lotal					· · · · · · · · · · · · · · · · · · ·	<del></del>

\*Delete the Inappropriete word.

The misses given are for 300 and and 200 mm diameter sieves. These masses may be increased when 450 and diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

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Sample No : PT 2

GRADING CURVE (FORM 'G' OF BS. 1377 : 1975)

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Particle size distribution Wet Dry sieving method Operator SARRI Borchole No: Description of soil: Sample No: Total mass of dry sample (m1) 956-3 Depth of sample: BS test siève Mass retained. Mass retained. Percentage retained Tolai Maximum percentage passing loadt Miss x 100 20 mm 37.5 mm 28 mm 4500 3500 O -20;mm  $\overline{o}$ 100 . 2500 34 mm 0.77 99.2 2000 Passing 20 mm (nt<sub>2</sub>) Riffled sample passing 20 mm  $(m_3)$ Riffling correction, C1 Corrected values C<sub>1</sub> X mass retained 98.3 0.93 . 12:5 mm 11.2 10 mm 1.17 1000 6.3 mm 38.2 93.1 750 Passing  $6.3 \text{ mm } (m_4)$ Riffled sample passing 6:3 mm  $(m_5)$ Rilling correction, C, Corrected values C2 X mass retained 50.9 5.32 \$ nim 500 137.2 3.35 mm 14.35 300 2-36 mm 200 1.18 nin 27.41 27.9 100 600 µm 18.18 75 4.11 425 pm 75 8.79 300 µm 84.1 ..50 -212 jim 50 150 µm 3.3 0.35 40 75 µm 0.82. 23 Passing 75,pm

\*Delete the inappropriate word.

†The masses given are for 300 mm and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

S CURVE (FORM G" OF 8S.1377; 1975)

Form G

Particle size distribution

Dry sieving method

Operator JAIS/SABRI
Date: 6/12/94.
Description of soil:

Passing 6.3 mm  $(m_4)$ Riffled sample passing 6.3 mm  $(m_5)$  Job:

Site:

Borehole No:

Sample No: PT-3

Total mass of dry sample (m1) 3725-6 8 Depth of sample: BS test siève Mass retained Mass retained. Percentage Total Maximum retained percentage passing lozdf 50 mm 37.5 mm 26 mm 4500 25. mm 3500 -**20** mm 2500 14 mm 2000 Passing 20 mm  $(m_2)$ Riffled sample passing 20 mm  $(m_3)$ Riffling correction,  $C_1$   $C_1 = \frac{m_2}{m_3} =$ Corrected values C1 X mass retained . 12:5 mm 1500 000 6.3 mm 100 O 750

Rillling correc		Corrected values		<del></del>	<del>-</del>
$C_{2} = \frac{m_{2}}{m_{3}} X$	$\frac{m_4}{m_5} =$	C <sub>2</sub> X mass retained	.		
Ş mm	4.9		0.13	99.9	500
3.35 mm	28.6		0.75	99.1	300
2.36 ATIM	106.2		2.80	96.3	200
1.18 mm	1030.0		28.72	67.6	100
600 µm	3195.0		56.96	10.6	75
425 թm - [ 300 թm	200		Street .		75
212 pm	370.0		9.75	0.9	50
150 րտ	10.5		es	Oth	50
75 Pm 🛨	2.8		0.58	0.6	40
Passing 75 pm			007	0_5	25
	<del></del>			·	
. :	- 1		. 1		1

Delete the inappropriate word.

The masses given are for 300 mm and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

Percentage passing

Particle size distribution

Operator Survi / fugvi
Date: 12/12
Description of soil:

Borehole No:

Sample No: PT-4

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BS test siève	Mass retained	Mass retained.	Percentage	Total	Maximu
So mm   So				retained		sievo
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				Mall x 100		10.51
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<b>s</b> ስ- mm	В	ğ		-	g
25 mm 3500 mm ( $m_2$ ) Riffling correction, $C_1$ Corrected values $C_1 = \frac{m_2}{m_3} = \frac{m_2}{m_3} = \frac{m_2}{m_3} = \frac{m_3}{m_3} $					<del></del>	
25. Infine 20 mm ( $m_1$ )  Riffling correction, $C_1$ Corrected values $C_1 = \frac{m_2}{m_3} = C_1 \times \text{mass retained}$ Riffling correction, $C_2 \times C_3 \times C_4 \times C_4 \times C_5 \times C_5 \times C_5 \times C_6 $						4500
Passing 20 mm $(m_2)$ Riffling correction, $C_1$ Corrected values $C_1 = \frac{m_2}{m_3} = C_1 \times \text{mass retained}$ Passing 6.3 mm $(m_4)$ Riffling correction, $C_2$ Corrected values $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} = C_2 \times \text{mass retained}$ S nim 3.35 mm 3.35 mm 3.35 mm 3.35 mm 3.35 mm 43.40 162.91 125.90 100 100 100 100 100 100 100 100 100 1				- <u>-</u>		,
Passing 20 mm $(m_2)$ Riffling correction, $C_1$ $C_1 = \frac{m_2}{m_3} = C_1 \times \text{mass retained}$ Passing 6.3 mm $(m_4)$ Riffling correction, $C_2$ $C_1 = \frac{m_2}{m_3} = C_2 \times \text{mass retained}$ Riffling correction, $C_2$ $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} = C_2 \times \text{mass retained}$ Sind 3.35 mm $C_3 \times C_2 \times C_3 \times C_4 \times C_4 \times C_5 $						
Riffling correction, $C_1$   Corrected values   C_1 = $\frac{m_2}{m_3}$   C_1 X mass retained     1500   1000   1000   1500   1000   1500   1000   1500   1000   1500   1000   1500   1000   1000   1500   100		<del></del>				2000
Riffling correction, $C_1$	Riffled sample					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		<del> </del>		<u>-</u>		ĺ
12.5 min   10 mm   0   0   1000		tion, $C_1$	Corrected values	,		
10 mm 6.3 inm $35$   $4 \cdot 5 \cdot 0$   $4 \cdot 0 \cdot 0$   $6 \cdot 3 \cdot 0$   $4 \cdot 5 \cdot$	$C_1 = \frac{m_2}{m_3} =$		C <sub>1</sub> X mass retained			
Passing 6.3 mm $(m_4)$ Riffling correction, $C_2$ Corrected values $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} = C_2 \times \text{mass retained}$ $\frac{5 \text{ mm}}{3.35 \text{ mm}} \times \frac{73.8}{m_5} = C_2 \times \text{mass retained}$ $\frac{5 \text{ mm}}{3.35 \text{ mm}} \times \frac{73.8}{m_5} = C_2 \times \text{mass retained}$ $\frac{5 \text{ mm}}{3.35 \text{ mm}} \times \frac{73.8}{m_5} = C_2 \times \text{mass retained}$ $\frac{5 \text{ mm}}{3.00 \text{ mm}} \times \frac{73.8}{m_5} = C_2 \times \text{mass retained}$ $\frac{5 \text{ mm}}{3.00 \text{ mm}} \times \frac{73.8}{m_5} = C_2 \times \text{mass retained}$ $\frac{6 \text{ mm}}{3.00 \text{ mm}} \times \frac{73.8}{m_5} = C_2 \times \text{mass retained}$ $\frac{6 \text{ mm}}{3.00 \text{ mm}} \times \frac{73.8}{m_5} = C_2 \times \text{mass retained}$ $\frac{6 \text{ mm}}{3.00 \text{ mm}} \times \frac{73.8}{m_5} = C_2 \times \text{mass retained}$ $\frac{6 \text{ mm}}{3.00 \text{ mm}} \times \frac{73.8}{m_5} = C_2 \times \text{mass retained}$ $\frac{6 \text{ mm}}{3.00 \text{ mm}} \times \frac{73.8}{m_5} = C_2 \times \text{mass retained}$ $\frac{6 \text{ mm}}{3.00 \text{ mm}} \times \frac{73.9}{m_5} = C_2 \times 7$						1500
Passing 6.3 mm $(m_4)$ Riffled sample passing 6:3 mm $(m_5)$ Riffling correction, $C_2$ Corrected values $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} = C_2 \times \text{mass retained}$ S mm 3.35 mm 23.45 \times \tim					100	
Passing 6.3 mm $(m_4)$ Riffled sample passing 6.3 mm $(m_5)$ Riffling correction, $C_2$ Corrected values $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} = C_2 \times \text{mass retained}$ Sum 3.35 mm 23.40  1.18 nm 162.4  600 pm 123.8  125 pm 300 pm 154.7  20.58  Y.Y. 50  150 pm 75 pm. 6.6	0.3 mm	-35.		4.50	98.2	1 -
Passing 6:3 mm $(m_5)$ Riffling correction, $C_2$ Corrected values $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} = C_2 \times \text{mass retained}$ S mm  3.35 mm  2.36 mm  6.3.6  1.18 mm  600 µm  125.9  125 µm  300 µm  125.9  150 µm						<b>*****</b>
Riffling correction, $C_2$ Corrected values $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} = C_2 \times \text{mass tetained}$ S num $3.35 \text{ may} \times 53.46 \times 50.00$ $2.36 \text{ may} \times 53.46 \times 50.00$ $1.18 \text{ num} \times 162.46 \times 50.00$ $600 \text{ µm} \times 125.8 \times 50.00$ $425 \text{ µm} \times 150 \text{ µm} \times 150.00$ $212 \text{ pm} \times 150 \text{ µm} \times 150.00$ $37.7 \times 150 \text{ µm} \times 150.00$ $40.00 \times 150.00$ $1.00 \times 150.00$						
$C_{2} = \frac{m_{2}}{m_{3}} \times \frac{m_{4}}{m_{5}} = C_{2} \times \text{mass retained}$ $\begin{array}{cccccccccccccccccccccccccccccccccccc$						
S nam 33.8 .			Corrected values			
S nam 33.8 .	$C_{2} = \frac{m_{2}}{m} \times 1$	<u>m4</u> =		İ		!
3.35 mm	<i>"</i> "3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	C2 X mass retained		٠.	٠
2.36 mm	\$ mm	33.8		W.36	91.1	
1.18 nm		53.4		688	84.2	
1.18 ntm	· 1_	63.6		8 20		)
425 μm 300 μm 212 μm 150 μm 75 μm 75 μm 150 μm 75 μm 150 μm 75 μm						100
300 pm 159.7 20.58 5.6 50 50 150 pm 75 pm 6.6 40	- E	125.8		29:1	28.9	
212 pm · 37 · 2		150.7		00.50		
75 µm · 0 · 0 · 0 · 40	212 pm -			10,28	<u>``</u>	
(3) (1) (3) (4)			·	—_ <sub>(C</sub> -7 q——	01	
	75 µm - Passing 75 µm	0.9		0.15	-0,2.	25

Delete the inappropriate word.

The masses given are for 300 inin and 200 min diameter sieves. These masses may be increased when 450 min diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

g B Percentage possing

Particlo size distributio	n				
Wet Dry sieving method	÷				
Operator		Job:		Site:	<b>.</b>
Date:		•	٠	Borchole No:	•
Description of soil:		*		Sample No:	J50 (1)
Total mass of dry sample (n	, 5·3	8	<b>.</b>	Depth of samp	ole:
BS test siève	Mass setained	Mass retained	Percentage retained	Total percentage passing	Maximum siere foad†
			Matter x 100		
	8	ğ	· · · · · · · · · · · · · · · · · · ·		8
312 mm 20 mm			<b>_</b>	<del></del>	-  ·
28 mm 25 - mm					4500
-20ynm	<del></del>				_ 3500 2500
'i <b>4</b> rom				- <del></del>	2000
Passing 20 mm (m <sub>2</sub> ) Riffied sample passing 20 mm (m <sub>3</sub> )					
Riffling correct $C_1 = \frac{m_2}{m_3} =$	i	Corrected values  Ci X mass retained			
, 12:5 mm		A		•	1500
10 mm 6.3 mm	<del></del>		· · · · · · · · · · · · · · · · · · ·		0000
assing 6.3 mm (m <sub>4</sub> )			-		750
Riffled sample bassing 6:3 mm (m <sub>5</sub> )				: -	•
Ri (Ming correc	tion, C <sub>2</sub>	Corrected values	•		<del></del>
$C_{2} = \frac{m_2}{m_3} \times$	$\frac{m_4}{m_5} =$	C2 X mass retained			
\$ nim					500
3.35 mm 2-36mm		<u> </u>			300
1.18 mm	0.3		5.7	100° 94.3	200
600 րտ	0.6		11.3	83.0	100 75
425 µm	-			07.0	75 75
300 µm	14		30.8	62.2	50
212 წ <b>ւ</b> մ - 1 150 թm - 1			- 7 A		50
75 µm :	1.1		35.8	26.4	40
Passing 75 pm	- ' ' -		30.8	2.6	25
otal			,		

\*Delète the Inappropriete word.

†The masses given are for J00 tom and 200 mm diameter sieves. These masses may be increased when 450 tom diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

Percentage passing

fotal :

Particle size distribution Wet Dry sieving method Operator SABRI JAIS Date: Borchole No: Description of soil: Sample No: JSO 2 Total mass of dry sample (m1) 1583. Depth of sample: BS test siève Mass retained . Mass retained. Percentage Total Maximum retrined percentage passing ford Mahs x 100 50 mm 37.5 mm 28 mm 4500 25 mm 3500 ·20:mm 2500 3≰ mm O. 2000 0 100 Passing 20 mm (m2) Riffled sample passing 20 mm (m<sub>1</sub>) Rissing correction, C. Corrected values C1 X mass retained 34 0.21 , 12:5 mm-99.8 1500 3.2 10 mm 0.20 1000 6.3 mm 32.0 97.6 2.02 750 Passing 6.3 mm  $(m_4)$ Riffled sample passing 6:3 mm  $(m_5)$ Rissing correction, C2 Corrected values C2 X mass retained 6.12. 91.5 \$ ភាពា 500 17.66 3.35 ntm 73.8 300 2.36mm 28 87 44.9 200 ் 1.18 மர 36.17 100 600 µm 6.88 75 425 µm 75 300 pm 12-6 0.80 .50 212 pm 50 150 pm 75 µm 25 0.40 Passing 75 jum

\*Delete the Inappropriate word.

†The masses given are for 300 mm and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

gnizzag spangonssi S & & &

Form G

Particle size distribution

Wel Dry sieving method

Operator

Job:

Site:

Date: 6-12-94

Description of soil:

Borchole No:

Sample No: JSO 3

Total mass of dry sample (n	1		<del></del>	Dopth of san	
BS test sieve	Mass refained	Mass retained.	Percentage retained  Mass x 100	Total percentage passing	Maximu: sieve loadţ
50 mm	8	8			B
37.5 mm					
26 mm 25 . mm		<del></del>			4500
20 mm				-	3500 2500
.14 mm					2000
Passing 20 mm (m <sub>2</sub> ) Riffled sample					- <del> </del>
passing 20 mm (m <sub>3</sub> )			•		
Riffling conce	tion, $C_1$	Corrected values			
$C_1 = \frac{m_1}{m_3} =$	•	C <sub>1</sub> X mass retained			
, 12:5 mai					1500
10 mm 6.3 mm	0			ļ	1000
		· · · · · · · · · · · · · · · · · · ·	0	100	750
Passing 6.3 mm $(m_4)$ Giffled sample passing 6:3 mm $(m_5)$					
Riffling correc		Corrected values		<del></del>	<del> </del>
$C_2 = \frac{m_2}{m_3} X$	$\frac{m_4}{m_5}$ ,=	C2 X mass retained			
S nim	41		1.32	98.7	500
3.35 nm	<u> [6·1</u>		5.17	935	300
2-36mm' 1.18 mm	34.2		10.90	82.5	200
mu 1000	86.0 144.0		46.56	36.2	100
425 µm	00.0		27.63	3.6	75
300 pm	16.0		5.14	3.5	50
212 pm -			Nav.	•	50
100 1					1 40
150 pm	4.3		! <u>`</u> 28	١٠١	40
150 pm 75 pm Passing 75 pm	4.3		1.38	0.8 .	25

\*Delete the inappropriate word.

1The masses given are for 100 mm and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

Perceninge possing

Form G

Particle size distribution

Wet 'Dry' sieving method

Description of soil:

Operator SARAI/YUSAI Date: 13/12/94

Site:

Borchole No:

Sample No: TSO\_4

\$0 mm 375 mm 26 mm 25 mm 20 mm 14 mm	Mass retained	Mass retained.	Percentage retained  Mass x 100	Total perceatage passing	Maximum sieve load†
37.5 mm 26 mm 25 mm 20 mm 14 mm		<b>g</b>	Mass x 100	passing	8
37.5 mm 26 mm 25 mm 20 mm 14 mm		8			-
37.5 mm 26 mm 25 mm 20 mm 14 mm					-
25 . mm 20 mm 34 mm					1
20 mm 14 mm					4500
<b>14 mm</b>		<u></u>			3500
· · · · · · · · · · · · · · · · · ·				<u> </u>	2500
Passing 20 mm (m <sub>2</sub> )				<u> </u>	2000
Riffled sample					
passing 20 mm (m <sub>3</sub> )					
Hilling correc	ction, $oldsymbol{\mathcal{C}}_1$	Corrected values			
$C_1 = \frac{m_2}{m_3} =$		C <sub>1</sub> X mass retained			
. 12:5 mm					1500
10 mm 6.3 mm	8.3		O	Cov	1000
·	8, 2		1.07	98.9	750
assing 6.3 mm (m <sub>4</sub> ) Wifted sample					
ussing 6:3 mm (m <sub>5</sub> )					
Riffling correc		Corrected values	•		·
$C_2 = \frac{m_2}{m_3} X$	$\frac{m_4}{m_5}$ .	C2 X mass retained			
S mm	10.2		1.31	97.6	500
3.35 nim 2.36nm/	38.7		9.99	92.6	300
1.18 mm	70:6		27.69	83.5	200
600 jun	1941		31.4	58.0	100
չ-չ hա			71 41	76.6	75 75
300 µm 212 jnn ·	178.0		22-91	3.71	.50
150 pm	28.1				50
75 µm -	6.2		3.62	0.09	40
Passing 75 jum			- 60.0	0.0.6	25
otal				r	

\*Delete the inappropriate word.

The masses given are for 300 som and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

Percentage possing

Somple No : KT (2)

Srhish Standard Test: Sieves

ADING CURVE (FORM 'G' OF BS. 1377 : 1975 )

Particle size distribution Operator Sabri/Jais
Date: 22/11/04 Site: Borchole No: Description of soil: Sample No: KT(1) Total mass of dry sample  $(m_1)$  3416.1 gDepth of sample: BS fest siève Mass retained Mass retained. Maximum sievo Total battius betcentage retrined " loadf M333 x 100 50 mm 37.5 nim 28 mm 4500 25 mm 3500 -20 mm 2500 114 mm 2000 Passing 20 mm (m2) Riffled sample passing 20 mm (m<sub>1</sub>) Riffling correction,  $C_1$   $C_1 = \frac{m_2}{m_3} =$ Corrected values C1 X mass retained 0 100 . 12:5 mm 3.2 0.11 99.9 10 mm [000] 62.4 1.83 750 Passing 6.3 mm (m<sub>4</sub>) Riffled sample passing 6:3 mni (ms) Rilling correction, C2 Corrected values C2 X mass retained 2.97 84.3 101.4 § ភាពា 500 367.3 714.4 1452.0 10.76
20.92
(62.52
16.80 3.35 nim 300 236mm 200 1.18 ուու 20.9 100 600 µm 573.6 75 425 µm 75 121.4 300 µm 3.55 ..50 212 pm 50 1.1 0.33 150 pm 40 75 µm 25

Delete the inappropriete word.

The masses given are for 300 inm and 200 mm diameter sieves. These masses may be increased when 450 inm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

Passing 75 pm

Joint .

Percentage possing

9

Form G Particla size distribution Wet Dep sieving method Operator SABRI / JAIS.

Date: 30/11/94

Description of soil:

Borehole No:

Sample No: KT 2

Total mass of dry sample (m1) 2588 2 8 Depth of sample:

i	711	8		Depth of san	aple:
BS test siève	Mass retained	Mass retained	Percentage retained  Mass x 100	Total percentage passing	Maximus siere load†
50 mm 37,5 mm 28 mm 25 mm	8	8			g 4500
-20ymm 114 mm					3500 2500 2000
Passing 20 mm $(m_2)$ Riffled sample passing 20 mm $(m_3)$					
Riffling cores $C_1 = \frac{m_2}{m_3} =$		Corrected values  C1 X mass retained			
, 12-5 mm 10 mm 6.3 mm	13·3 130·2		0 0.5/ 5:03	100: 99.5 94.5	1500 1000 750
Passing 6.3 mm $(m_4)$ Riffled sample passing 6:3 mm $(m_5)$					
Histories $C_2 = \frac{m_2}{m_3} \times$	$\frac{m_4}{m_5} =$	Corrected values  C2 X mass retained	•		
2-36թյու 1.18 mm 600 μm 425 μm 300 μm -212 jini 150 μm	733.7. 368.9. 441.8 780.6 546.2 144.6 144.6		5.17 14.25 17.07 30.16 21.10 5.59	89.3 75.0 58.0 21.8 6.7	500 300 200 100 75 75 50 50
Passing 75.pm	-2.1		0.1	6.6	13
		<del></del>			

\*Detete the Inappropriate word.

†The masses given are for 300 mm and 200 mm diameter sieves. These masses may be increased when 450 inm diameter sives are used (see Approdix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a past at a time.

Percentage possing

Operator Sabri/Jais Date: 6/12/94 Borchole No: Description of soil: Sample No: KT 3 Total mass of dry sample (m, ) 3958.6 g Depth of sample: BS test siève Mass retained . Mass retained. Total Percentage mumixeM percentage passing retained siero foadţ  $\frac{Ma35}{m_1} \times 100$ 50 mm 37.5 nim 28 mm 4500 25 mm 3500 -20 mm 2500 .j4 mm 2000 Passing 20 mm (m<sub>2</sub>) Riffled sample passing 20 mm (m<sub>1</sub>) Riffling correction,  $C_1$   $C_1 = \frac{m_2}{m_3} = \cdots$ Corrected values C1 X mass retained 100  $\boldsymbol{o}$ . 12:5 mm-1500 28.0 99.3 10 mm 0.71 0000 6.3 mm 44.0 98.2 1.11 750 Passing 6.3 mm  $(m_4)$ Riffled sample passing 6:3 mm  $(m_5)$ Riffling correction,  $C_2$   $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$ Corrected values C<sub>2</sub> X mass retained 1280 45.0 5 nim 500 3.35 mm 264.2 88.3 300 484:1 2.36mm' 12.23 200 1.18 mm 30.31 100 1085.4 600 րտ 75 425 µm 75 300 բու 618.3 15.62 ...50 212 pm 50 150 µm 10.2 232 40 75 pm Passing 75 pm 0.26 25

Form G

lotsi .

Particle size distribution

. - - -

\*Delete the inappropriate word.

The masses given are for 300 nm and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

Percentage passage

grayelly

GRADING

Form G

Particle size distribution

Wet Dry sieving method

Operator SABRI / YUSHI

Site:

Date: 13/12/04.

Borchole No:

Description of soil:

Sample No: KI - A

Total mass of	dry sample (n	11881.6	g		Depth of samp	ole:
BS test sleve		Mass retained	Mass retained.	Percentage retained  Mass x 100	Total percentage passing	Maximus sieve load†
	50 mm 385 mm 28 mm 25 mm 20 mm	8 30 4 10.2 10.2	8	0.54 0.24	100 98.4 97.9	8 4500 3500 2500 2900
Passing 20 mm (m <sub>2</sub> ) Riffled sample					<del> </del>	

passing 20 mm (m <sub>3</sub> )	,				
Riffling corre	ction, $C_1$	Corrected values			
$C_1 = \frac{m_1}{m_3} =$		C <sub>1</sub> X mass retained	·		
. 12·5 mm	24.2		1.28	96.0	1500
. 10 mm	20.2		1.07	95.0	1000
6.3 mm	86.3		425	90.8	750
Passing 6.3 mm (m <sub>4</sub> ) Riffled sample					
passing 6:3 mm (m <sub>5</sub> )		1	-	!	1

Riffling correction,  $C_2$ Corrected values C2 X mass retained 4.56 86.0 \$ ការការ: 500 246.7 214.0 3.35 mm ገን · 300 1.80 2.36 nun. 200 1.18 ոսո∳ 510.1 001  $600~\mathrm{\mum}$ シカタ・ひ 75 425 րու 75

224.0  $300~\mu m$ 11-87 212 pm · 150 µm 2.0 Passing 75 pm 15.0 lotal

\*Defete the inappropriate word.

† The masses given are for 300 mm and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

-50

50

40

Percentage passing

Form G Particlo size distribution Met Dry sieving method Operator Patri/Jais
Oute: 22/11/94 Site: Borehole No: Description of soil: Sample No: JN(1) Total mass of dry sample (m1) 12:39. Depth of sample: 85 test siève Mass retained . Mass retained. Percentage retained Total Maximum sercentage sievo passing loidt Ma35 x 100 20. mm 37.5 mm 28 mm 4500 25 mm 3500 20;mm 2500 ាំវ លាកា 2000 Passing 20 mm  $(m_2)$ Riffied sample passing 20 mm (m<sub>3</sub>) Riffling correction,  $C_1$ Corrected values C1 X mass retained . 12:5 mm 1500 10 mm 1000 6.3 mm 750 Passing 6.3 mm  $(m_4)$ Riffled sample passing 6:3 mm  $(m_s)$ Riffling correction,  $C_2$   $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$ Corrected values C2 X mass retained \$ mm 500 3.35 mm 300 2-36mm 0 0 100 200 38.21 31.71 1.18 mm 100 600 pm 75 30.1 425 µm 75 17.07 5.1 300 µm 13.0 .50 212 pin. 50 7.32 0.9 LSO pm 5.7 40 75 pm Passing 75 pm 0.5 15

Total

Delete the inappropriate word.

The masses given are for 300 inm and 200 mm diameter sieves. These masses may be increased when 450 inni diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

galezog agannaons9 B B B B

Date

STAUING CURVE (FORM 'G' OF BS 1377 : 1975 )

Form G

Total 1

Particle size distribution Wet 1Dep sieving method Operator SABRI / JAIS : Site: Date: 30/11/94 Borchole No: Description of soil: Sample No: JN 2 Total mass of dry sample (m2) 24.9 Depth of sample: BS test siève Mass retained. Mass retained. Percentage Total Maximum tetained percentage passing sieva beol 100 x 100 € 50 mm 37.5 mm 28 mm 4500 25 mm 3500 **20** mm 2500 1j4 mm 2000 Passing 20 mm  $(m_2)$ Riffed sample passing 20 mm (m<sub>3</sub>) Riffling correction, C1 Corrected values C1 X mass retained . 12:5 mm 1500 10 mm 1000 6.3 mm 150 Passing  $6.3 \text{ num} (m_4)$ Riffled sample passing 6:3 mm  $(m_5)$ Rilling correction, C2 Corrected values C2 X mass retained \$ ១៲៣ 500 3.35 mm 0 0 100 300 2:36mm 5.62 200 1.18 nm 1.0 4.02 100 600 μm 3·6 75 10.44 425 µm 75 10.6 300 pm ..50 42.57 212 pm 50 150 µm 31.73 40 75 pm 25 4.42 Passing 75 µm

\*Delète the inappropriate word.

The masses given are for 300 nom and 200 mm diameter sieves. These masses may be increased when 450 non diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

Percentage passing

Form G Particle size distribution

Description of soil:

101s15q0

Date:

Dry sieving method

Site:

Borchole No:

Sample No: JN-3

85 test siève	Mass retained	ass retained Mass retained.		Depth of same	1
		MASS TETATIONS.	Percentage retained  Mass x 100	Total percentage passing	Maximun sieve load†
	<u> </u>		["]		
50 ការា	g	18			8
37.5 nim			ļ —————	<del></del>	-}
26 mm			:.		4500
25 . mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m <sub>2</sub> ) Riffled sample					
passing 20 mm (m <sub>3</sub> )	- 1				
Riffling correc	tion, C	Corrected values			<del> </del>
$C_1 = \frac{m_2}{m_3} =$		C <sub>1</sub> X mass retained			
12:5 mm		-	: :		1500
10 mm	-				1000
6.3 mm	0		0	100	750
Passing 6.3 mm (m <sub>4</sub> ) Riffled sample Passing 6:3 mm (m <sub>5</sub> )					750
Riffling correc	tion. Ca	Corrected values		<del></del>	
$C_2 = \frac{m_2}{m_3} \times$		C <sub>2</sub> X mass retained			
\$ mm	0.8		1.12	98.9	600
3.35 nm	2.2		3.09		500 300
2:36mm	6.0		8.43	95.8 87.4	200
I.18 ոտ <u>։</u>	16.0		22.5	649	100
600 µm	18.1		254	39.5	75
425 μm 300 μm			gre-q	9502	75
212 jun	18.2		25.6	13.9	-50
150 pm	8.0				50
75 µm	1.0	·	11.2	2.7	40 <b>2</b> 5
Passing 75 pm	<u>-</u>		1.14- 1	1.5	£)

Job:

\*Delete the inappropriete word.

1 The masses given are for 300 mm and 700 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

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Particle size distribution

Wet Dry sieving method

Operator SABRI/ Ymani

Site:

Borehole No:

Date: MIL/GU
Description of soil:

Sample No: JN-11

Total mass of dry sample (n	1)1544	g	2	Depth of san	iple:
BS test siève	Mass retained	Mass retained.	Percentage retained  Mass x 100	Total percentage passing	Maximun sieve loadj
50 mm 315 nm 26 mm 25 mm 20 mm 14 mm	B	8			4500 3500 2500 2000
Passing 20 mm $(m_2)$ Riffled sample passing 20 mm $(m_3)$			·		
Riffling correct $C_1 = \frac{m_2}{m_3} =$	ction, C <sub>1</sub>	Corrected values  Ci X mass retained			
Passing 6.3 mm ( $m_4$ ) Riffled sample passing 6.3 mm ( $m_5$ )	0		0.25	10-0 19.5	1500 1000 750
Riffling correct $C_2 = \frac{m_2}{m_3} \times$	$\frac{m_4}{2}$ =	Corrected values  C2 X mass retained			
\$ nim 3.35 nior 236mm/ 1.18 nim 600 pm 425 pm 300 pm 212 pm 150 pm	8·4 6·0 12·1. 31·2 43·4 46·0		0.26 3.89 7.84 26.21 28.11 29.79 6.54	99.1 95.3 87.3 67.3 39.1	500 300 200 100 75 75 50 50 40
Passing 75,11m					

\*Defete the inappropriate word,

The misses given are for 300 rom and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

Percentage positions 8 & 3 & 3

SRADING CURVE (FORM 'G' OF BS. 1377 : 1975 )

Particlo size distribution					
Dry sieving inethod	17.4 1.14				
Operator		Job:	•	Site:	· ·
Date:			-	Borehole No:	•
Description of soil:		· .			\$4 ma - /s \
Total mass of dry sample (n	4320	15.		Sample No:	Nm.(I)
			` 	Depth of samp	ole:
BS test siève	Mass retained	Mass retained	Percentage retained	Total percentage passing	Maximum sievo load
			$\frac{M_{233}}{m_1} \times 100$		
•	В	8	1		8
<b>50</b> mm		<del>  • • • • • • • • • • • • • • • • • • •</del>	_	:	_ <b>}</b> °
37.5 nim 28 mm			<del> </del>	- <del> </del>	1,000
25 mm	•			<del></del>	4500 3500
-20ynm					2500
<b>14</b> mm					2000
Passing 20 mm (m <sub>2</sub> ) Riffled sample passing 20 mm (m <sub>1</sub> )					,
			<u></u>	<del> </del>	·
Riffling contex $C_1 = \frac{m_2}{m_1} =$	ì	Corrected values  C X mass retained			
, 12·5 mm					1
10 mm			-		1500 1000
6.3 mm					750
Passing 6.3 mm (m <sub>4</sub> ) Riffled sample passing 6:3 mm (m <sub>5</sub> )					
Ri Ming correct	ion. Co	Corrected volues	·····		
$C_2 = \frac{m_2}{m_3} \times \frac{1}{2}$	$n_4$	C <sub>2</sub> X mass retained			
mia Z					500
3.35 nim	0		0	100	300
2:36 <sub>mm</sub> ,	8.5		2.0	980	200
.600 pm	162.5		6.6 37.6	91.4	100
42\$ բու			21.6	53.8	75 75
300 µm	198.3		45.9	7.9	50
212 pm			100.00		50
150 թու	2.2		8.8	1.1	40
Passing 75 pm			0.2	0.6.	<b>13</b>
otal ·					

\*Delète the inappropriete word.

The masses given are for 300 ram and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

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GRADING CURVE (FORM '6' OF BS. 1377 : 1975 )

Form G Particle size distribution Wet Dry sieving method Operator SABRI /JAIS Date: 30/11/94 Borchole No: Description of soil: Sample No: NM 2 Total mass of dry sample (m1) 1397.3 Depth of simple: BS test siève Mass retained Percentage retained Total mumixeM percentage siero passing ford Ma3s x 100 50 · mm 37.5 mm 28 mm 4500 25 mm 3500 -20 mm 2500 114 mm 2000 Passing 20 mm (ni<sub>2</sub>) Riffled sample passing 20 mm  $(m_3)$ Riffling correction, C1 Corrected values C1 X mass retained . 12:5 mm-1500 10 mm 1000 6.3 mm 0 100 . 750 Passing 6.3 mm  $(m_4)$ Riffled sample passing 6:3 mm  $(m_s)$ Rilling correction, C2 Corrected values C2 X mass retained 0.30 99.7 \$ mm 500 3,35 nm 0·13 3·03 10.2 99.0 300 2.36mm A2.3 200 1.18 nin 331.2 23.70 100 600 µm 681.0 23.1 75 425 µm 75 300 µm 290.1 20.76 234 ..50 212 pm 50 0.4 150 µm 40 75 µm 25 Passing 75 um

\*Delete the inappropriete word.

The misses given are for 300 nm and 200 mm diameter sieves. These masses may be increased when 450 nm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

Form G Particle size distribution

Wel Dry sieving method

Description of soil:

Date:

Operator	•		Job

Site:

Sample No: NM 3

Borchole No:

Total mass of dry sample (m. ) 2058 11

BS test sieve	1	·   ·	T	iple:	
63 1631 51676	Mass retained	Mass retained.	Percentage retained  Mass x 100	Total percentage passing	Maximu siève lozd†
SO: mm	g	8			g
37.5 nim			·		-[
26 mm	ļ				4500
25 mm					3500
-20 mm -14 mm			l		2500
					2000
Passing 20 mm (m <sub>2</sub> ) Riffled sample					
passing 20 mm (m <sub>3</sub> )		·			1
Riffling corre	tion, C <sub>1</sub>	Corrected values	·	-	<del> </del>
$C_1 = \frac{m_2}{m_3} =$		C <sub>1</sub> X mass retained			
	Ø		O	100	1.600
10 mm	30.0		1.46	98.5	1500 1000
6.3 mm	28.0		1.36	97.2	750
Passing 6.3 mm $(m_4)$				1.1.5	<del>                                     </del>
Riffed sample	}				
passing 6:3 mm (m <sub>5</sub> )					1
Riffling correc	tion. Cs	Corrected values	·		
$C_1 = \frac{m_1}{m_1} \times$		Corrected Fames	•	] <b>1</b>	i
$\overline{m_3}$		C <sub>2</sub> X mass retained			
S mm 2	42.4		2.00	95.1	500
3.35 mm	182.5		8.87	86.3	300
2.36 <sub>A1111</sub>	384.0		18.66	67.6 27.2 6.2	200
1.18 ուտ 690 թու	832.0		40.45	272	100
425 pm	4327	·-·	71.05	6.2	75
300 µm	1061		7.76		75
212 pm ·			5.15	1.0	.50 50
150 թու	16.3		0.79	0.2	40
75 pm · T	0.5		0.09	0.1	15
Passing 75.pm	6-04				<del> i</del>
ofal	ļ	· · ·	. 1	-	

\*Delete the inappropriate word.

1 The masses given are for 300 mm and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

. Form G

Particle size distribution

Wel Dry sieving method

Borehole No:

Description of soil:

Sample No: Nm - V

Total mass of dry sample (n		Depth of san	10.11		
BS test sieve	Mass retained	Mass retained.	Percentage retained  Mass x 100	Total percentage passing	Maximum sieve
50 nm . 37.5 nm	8	8			g
26 mm 25 mm 20 mm -14 mm					3500 2500
Passing 20 mm $(m_2)$ Riffled sample passing 20 mm $(m_3)$					1000
Riffling correct $C_1 = \frac{m_2}{m_3} =$	tion, C <sub>1</sub>	Conected values  C <sub>1</sub> X mass retained			
. 12·5 mm 10 mm 6.3 mm	2.0 54.1		0.01	100	1500
Passing 6.3 mm $(m_4)$ Riffled sample passing 6.3 mm $(\bar{m}_5)$				101	750
Riffling correct $C_2 = \frac{m_2}{m_3} \times$	$m_4 = $	Corrected values  C2 X mass retained	•		
\$ mm 3.35 mm 2-36mm 1.18 mm 600 pm	60·2 342·0 67·6 107年		38.03 19.10 5.13	96.0 83.9 61.0 23.0	500 300 200 100
428 μm 300 μm 21/7 μm 150 μm	1/2·0 22·0		17.84 3.96 0.78	5·13 1·17	75 75 .50 50 40
Passing 75, µm  Total  *Delete the inappropriete word.	2.0		0:07	b.3 -8-5 ·	25

\*Delete the inappropriate word.

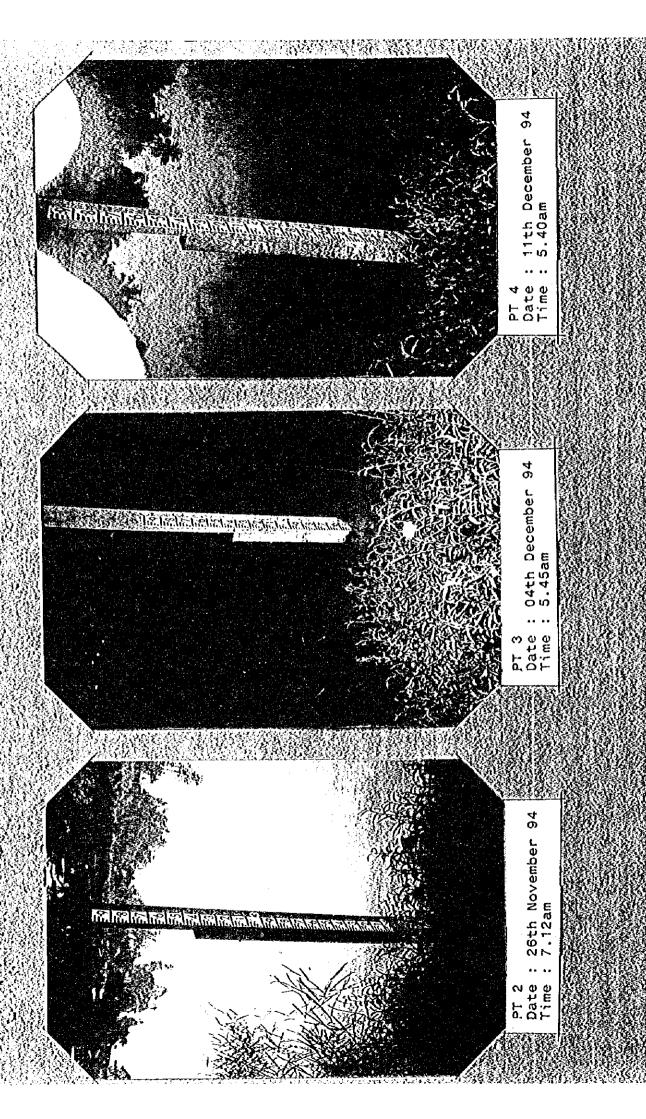
[The masses given are for 300 mm and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sives are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should be used or the sample sieved a part at a time.

Project:
The River Sediment Survey
For
The Study on Comprehensive
Management Plan Of Muda River Basin
in Malaysia

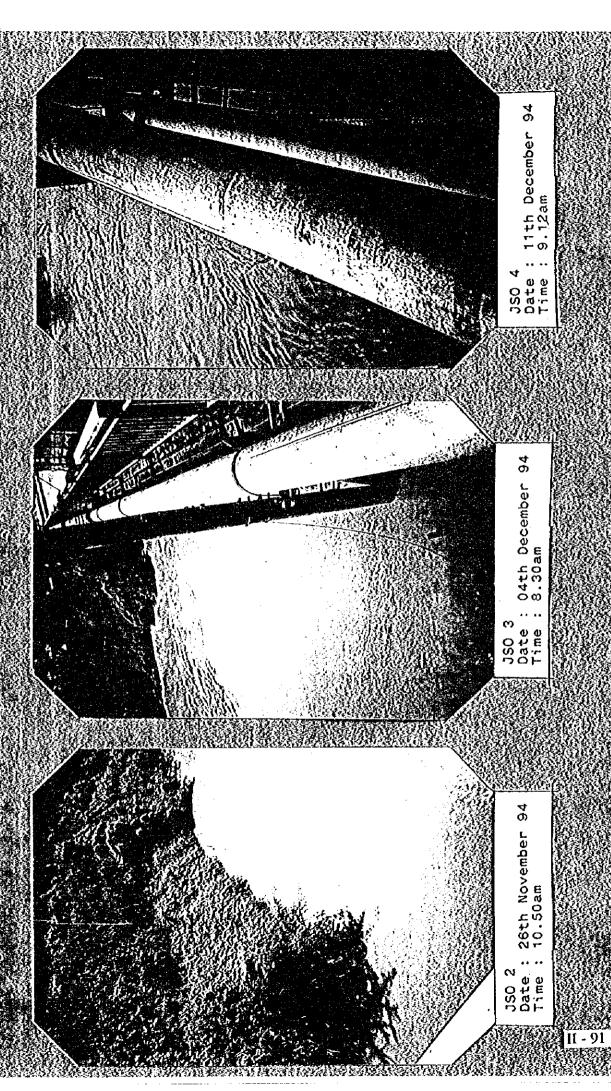
Section Two - Attachment Four. Photos.

Cilent:
JICA Study Team.
CII Engineering Co Ltd.
In association with
INA Corporation.

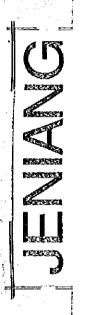
Contractor. Pembinaan Jitu Padat. 282, Jalan Kangar, Perlis, 01000 Kangar, Perlis.



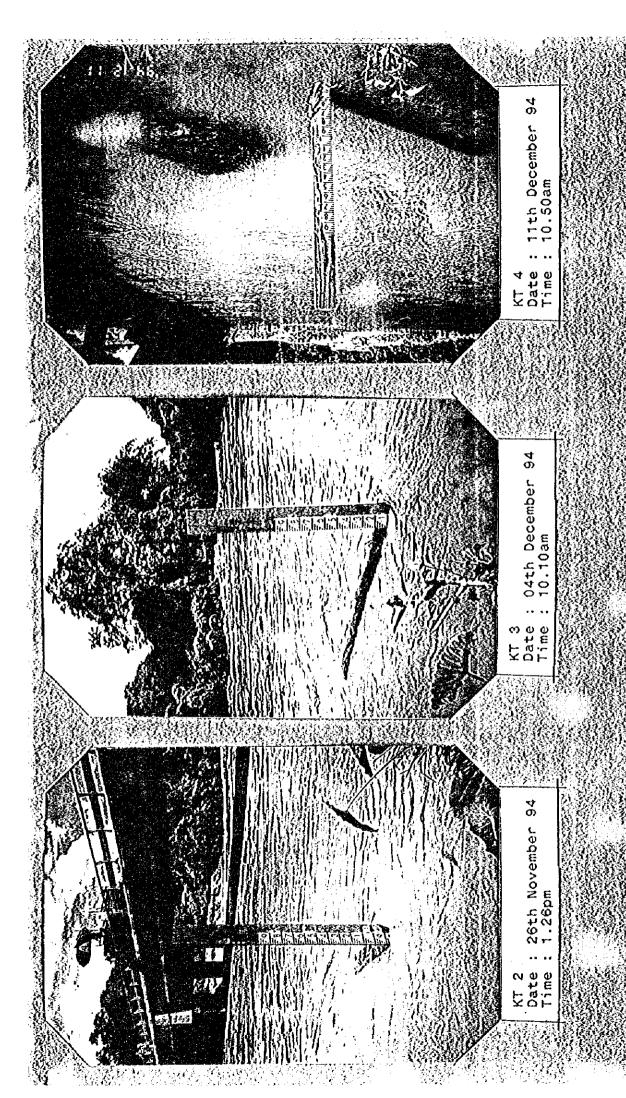
# PINANG TUNGGAL

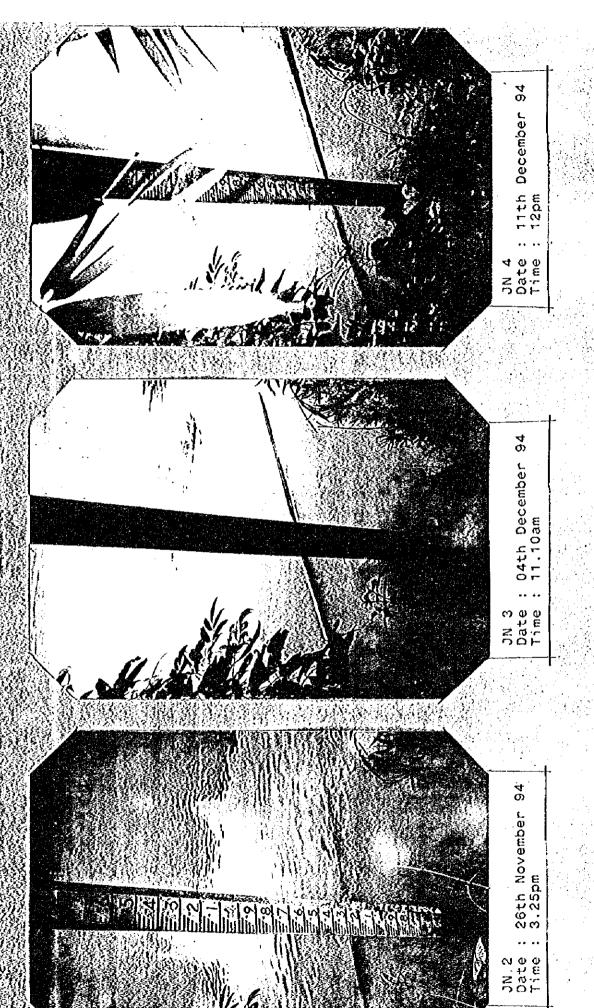


AMBATAN SYE









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