

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.
CH Engineering Co Ltd.
In association with
INA Corporation.

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

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: PT 1
2. Sampling site: Pinang Tunggal
3. Time and Date Sampling: 10am 19th November 94
4. Name of Survey Team Leader: Abd Karib.
5. Waterlevel H: 1.93 (m LSD)
6. Discharge Q: (m^3 / 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: 0 gr
Total wt: 15.6 gr
10. Calculation of Bed Load Qb:
 $Qb = 0.0022 \times wt \times Bw / T = 0.00054(kg / sec)$

THE STUDY ON
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 Date 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^3 / 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 gr
Right wr: 663.0 gr
Total wt: 956.3 gr
10. Calculation of Bed Load Qb:
 $Qb = 0.0022 \times wt \times Bw / T = 0.06662(kg / sec)$

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

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: $\overset{3}{(m / s)}$
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
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DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: PT 4
2. Sampling site: Pinang Tunggal
3. 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: $\overset{3}{(m / s)}$
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:
$$Qb = 0.0022 \times wt \times Bw / T = 0.05406(kg / sec)$$

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

Date:

Locaton: Pinang Tunggal

	PT1	PT2	PT3	PT4	Remarks
Date	19/11/94	26/11/94	4/12/94	11/12/94	
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 Date Sampling: 3.55pm 19th November 94
4. Name of Survey Team Leader: Abd karib .
5. Waterlevel H: 7.83 (m LSD)
6. Discharge Q: $\frac{3}{(m / s)}$
7. Width of Water Surface Bw: 56 m
8. Time Period of Keeping Sampler Mouth Open T:3600 sec.
9. Sample Weight:
 - Left w1: 0.6 gr
 - Center wc: 1.2 gr
 - Right wr: 3.5 gr
 - Total wt: 5.3 gr
10. Calculation of Bed Load Qb:

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

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: JS0 2
2. Sampling site: Jambatan Syed Omar.
3. Time and Date 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^3 / s)
7. Width of Water Surface Bw: 56 m
8. Time Period of Keeping Sampler Mouth Open T:1800 sec.
9. Sample Weight:
Left wl: 54.4 gr
Center wc: 10.6 gr
Right wr: 1518.9 gr
Total wt: 1583.9 gr
10. Calculation of Bed Load Qb:
 $Qb = 0.0022 \times wt \times Bw / T = 0.10841(kg / sec)$

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: JS0 3
2. Sampling site: Jambatan Syed Omar.
3. Time and Date 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^3 / s)
7. Width of Water Surface Bw: 56 m
8. Time Period of Keeping Sampler Mouth Open T:1200 sec.
9. Sample Weight:
Left wl: 108.1 gr
Center wc: 66.4 gr
Right wr: 136.8 gr
Total wt: 311.3 gr
10. Calculation of Bed Load Qb:
 $Qb = 0.0022 \times wt \times Bw / T = 0.03196(kg / sec)$

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: JSO 4
2. Sampling site: Jambatan Syed Omar.
3. Time and Date Sampling: 9.12am 11th December 94.
4. Name of Survey Team Leader: Abd Karib
5. Waterlevel H: 9.20(m LSD)
6. Discharge Q: $\frac{3}{(m / s)}$
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:

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

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

Date:

Locaton: Jambatan Syed Omar.

	JSO1	JSO2	JSO3	JSO4	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	

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: KT 1
2. Sampling site: Kampung Tiban
3. Time and Date 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^3 / 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 wl: 16.5 gr
Center wc: 387.9 gr
Right wr: 3010.7 gr
Total wt: 3415.1 gr
10. Calculation of Bed Load Qb:
 $Qb = 0.0022 \times wt \times Bw / T = 0.72795(kg / sec)$

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 Date 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^3 / 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 wl: 150.9 gr
Center wc: 228.7 gr
Right wr: 2208.6 gr
Total wt: 2588.2 gr
10. Calculation of Bed Load Qb:
 $Qb = 0.0022 \times wt \times Bw / T = 0.65671(kg / sec)$

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: KT 3
2. Sampling site: Kampung Tiban
3. Time and Date 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^3 / 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 Date Sampling: 10.50am 11th December 94.
4. Name of Survey Team Leader: Abd Karib
5. Waterlevel H: 17.4 (m LSD)
6. Discharge Q: (m^3 / 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:
 $Qb = 0.0022 \times wt \times Bw / T = 0.47895(kg / sec)$

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

Date:

Locaton: Kampung Tiban.

	KT1	KT2	KT3	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
3. 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: $\frac{3}{(m / s)}$
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:

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

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

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^3 / 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: 4.3 gr
Right wr: 19.8 gr
Total wt: 24.1 gr
10. Calculation of Bed Load Qb:
 $Qb = 0.0022 \times wt \times Bw / T = 0.00094(kg / sec)$

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^3 / s)
7. Width of Water Surface Bw: 32 m
8. Time Period of Keeping Sampler Mouth Open T:1200 sec.
9. Sample Weight:
Left w1: 0 gr
Center wc: 69.8 gr
Right wr: 1.4 gr
Total wt: 71.2 gr
10. Calculation of Bed Load Qb:
 $Qb = 0.0022 \times wt \times Bw / T = 0.00418(kg / sec)$

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: JN 4
2. Sampling site: Jeniang
3. Time and Date Sampling: 12pm 11th December 94.
4. Name of Survey Team Leader: Abd Karib
5. Waterlevel H: 1.80(m LSD)
6. Discharge Q: $\frac{3}{(m / s)}$
7. Width of Water Surface Bw: 32 m
8. Time Period of Keeping Sampler Mouth Open T:2700 sec.
9. Sample Weight:
 - Left w1: 20.1 gr
 - Center wc: 98.2 gr
 - Right wr: 36.1 gr
 - Total wt: 154.4 gr
10. Calculation of Bed Load Qb:

$$Q_b = 0.0022 \times wt \times Bw / T = 0.00403(kg / sec)$$

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	-	-	-	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	

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: NM 1
2. Sampling site: Nami
3. Time and Date 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^3 / s)
7. Width of Water Surface Bw: 22 m
8. Time Period of Keeping Sampler Mouth Open T:1200 sec.
9. Sample Weight:
Left wl: 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 Date 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^3 / s)
7. Width of Water Surface Bw: 22 m
8. Time Period of Keeping Sampler Mouth Open T:600 sec.
9. Sample Weight:
Left wl: 329.0 gr
Center wc: 11.7 gr
Right wr: 1056.6 gr
Total wt: 1397.3 gr
10. Calculation of Bed Load Qb:
 $Qb = 0.0022 \times wt \times Bw / T = 0.11272(kg / sec)$

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: NM 3
2. Sampling site: Nami
3. Time and Date 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^3 / 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:
 $Qb = 0.0022 \times wt \times Bw / T = 0.33209(kg / sec)$

THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.

DATA SHEET FOR BED LOAD SURVEY.

1. Sample no: NM 4
2. Sampling site: Nami
3. Time and Date 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^3 / 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:
 $Qb = 0.0022 \times wt \times Bw / T = 0.45612(kg / sec)$

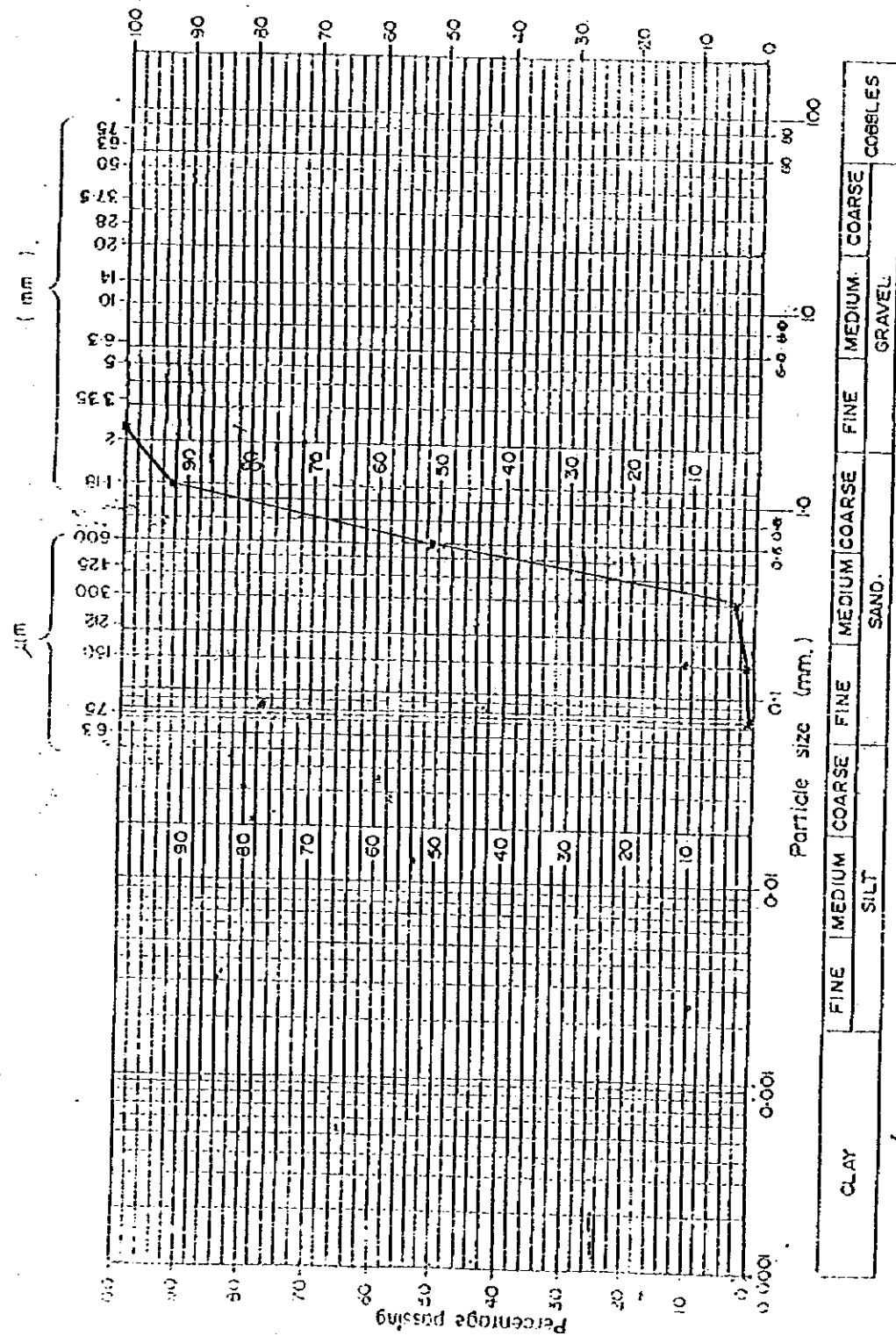
**THE STUDY ON
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN.**

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	0.11272	0.33209	0.45612	



Operator: **SABRI / JAS**
 Date: **22/11/94**
 Location: **PT (1)**
 Sample No: **PT(1)**
 Description of soil: **LIGHT BROWN SAND**
 British Standard Test Sieves:

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

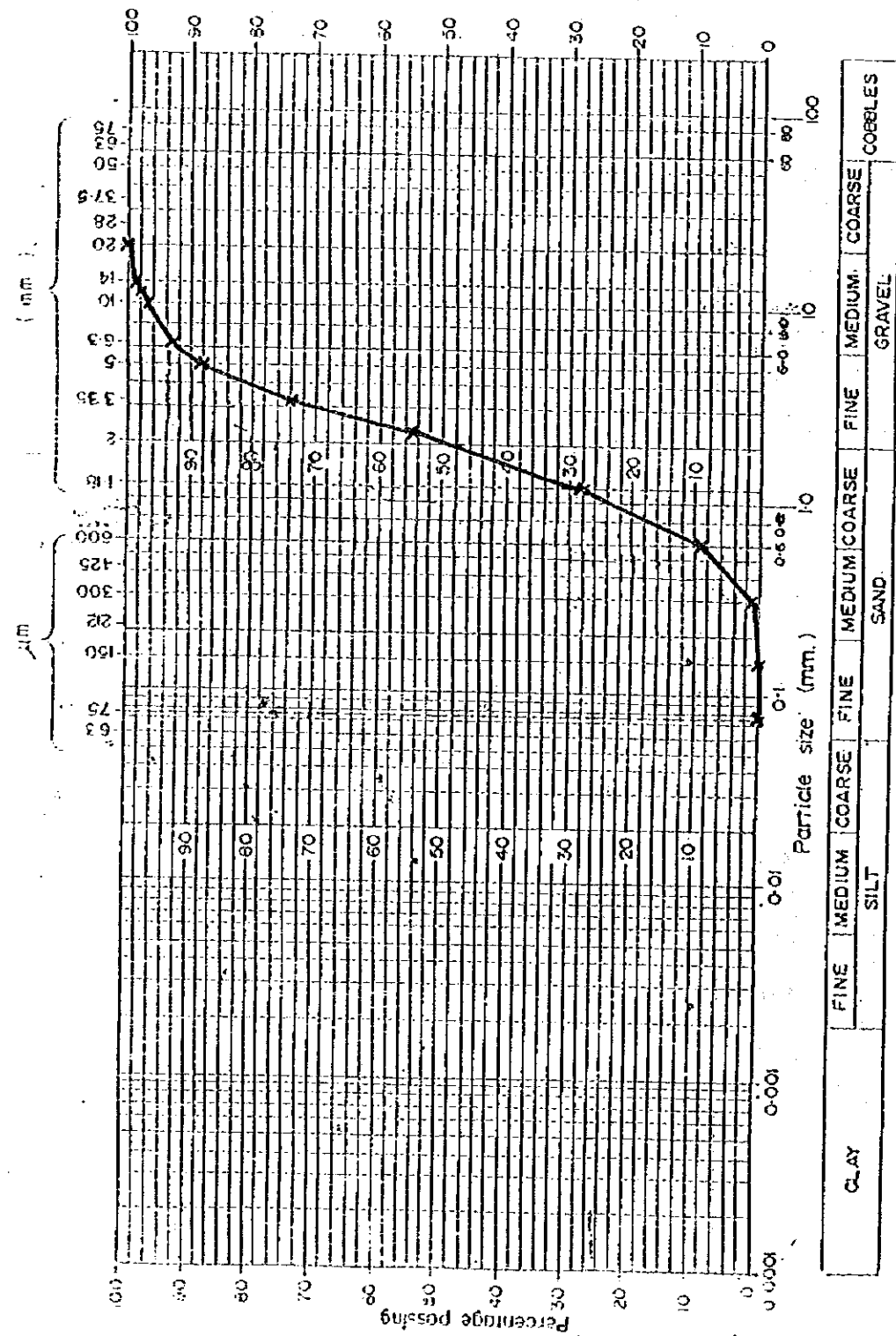
Form G
 Particle size distribution

Wet/Dry sieving method

Operator: _____ Job: _____ Site: _____
 Date: _____ Borehole No: _____
 Description of soil: _____ Sample No: **PT(1)**
 Total mass of dry sample (m_1): **15.6** g Depth of sample: _____

BS test sieve	Mass retained	Mass retained	Percentage retained	Total percentage passing	Maximum sieve load†
			$\frac{\text{Mass}}{m_1} \times 100$		
8	8	8			8
50 mm					
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m_2) Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3} =$		Corrected values $C_1 \times \text{mass retained}$			
12.5 mm					1500
10 mm					1000
6.3 mm					750
Passing 6.3 mm (m_4) Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values $C_2 \times \text{mass retained}$			
5 mm					500
3.35 mm					300
2.36 mm	0		0	100	200
1.18 mm	1.2		7.7	92.3	100
600 μm	6.4		41.0	51.3	75
425 μm					75
300 μm	7.6		48.7	2.6	50
212 μm					50
150 μm	0.2		1.3	1.3	40
75 μm	0.1		0.6	0.7	25
Passing 75 μm					
Total					

*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 sieves 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.



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

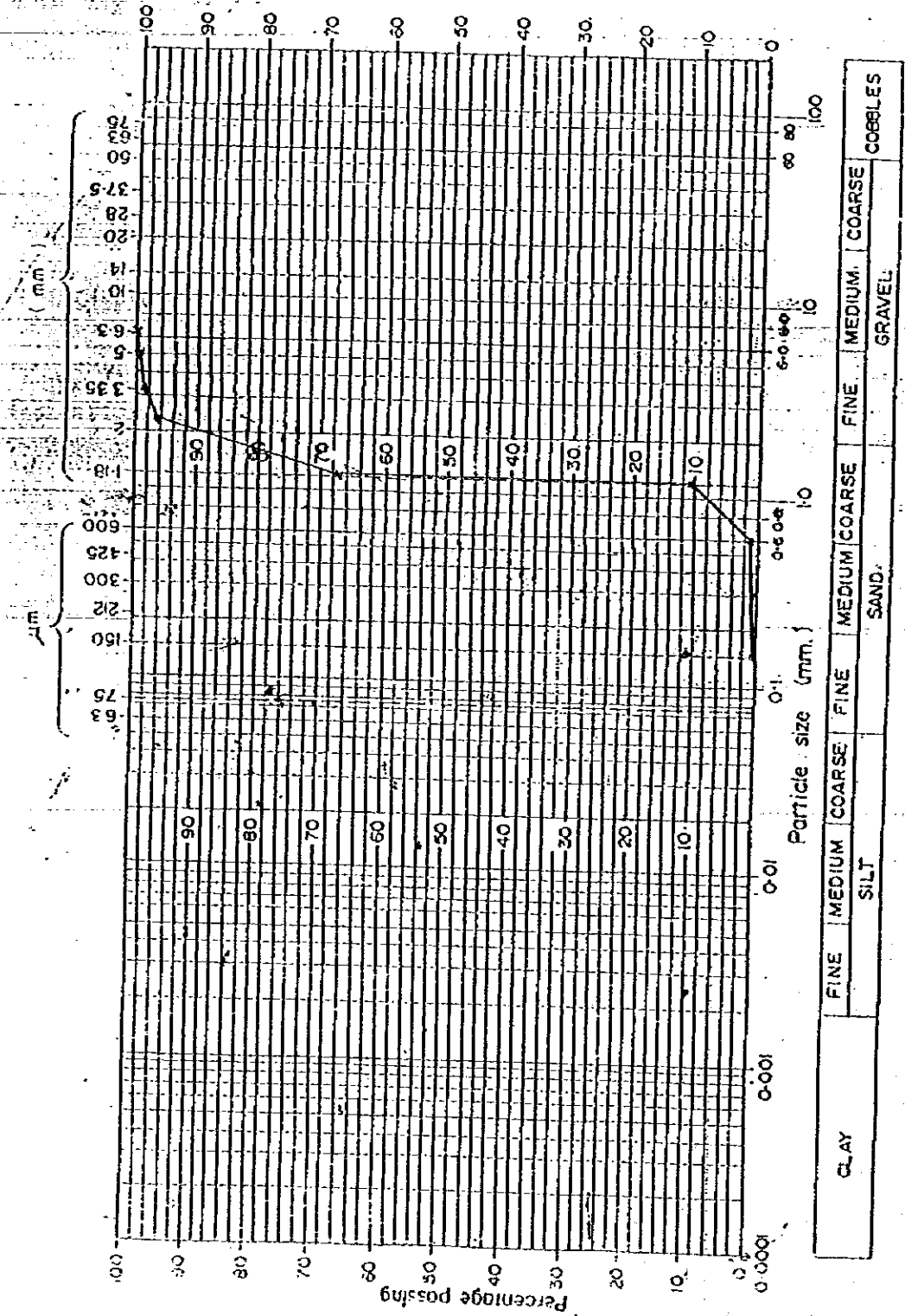
Form G
 Particle size distribution

Wet/Dry sieving method
 Operator SABRI / JAIS Job:
 Date:

Site:
 Borehole No:
 Sample No: PT 2
 Depth of sample:

BS test sieve	Mass retained	Mass retained	Percentage retained $\frac{Mass}{m_1} \times 100$	Total percentage passing	Maximum sieve load†
50 mm	8	8			8
37.5 mm					
28 mm					4500
25 mm			0	100	3500
20 mm	0		0	100	2500
14 mm	7.4		0.77	99.2	2000
Passing 20 mm (m_2) Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3}$		Corrected values			
		$C_1 \times$ mass retained			
12.5 mm	8.9		0.93	98.3	1500
10 mm	11.2		1.17	97.1	1000
6.3 mm	38.2		3.99	93.1	750
Passing 6.3 mm (m_4) Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5}$		Corrected values			
		$C_2 \times$ mass retained			
5 mm	50.9		5.32	87.8	500
3.35 mm	137.2		14.35	73.5	300
2.36 mm	174.0		18.20	55.3	200
1.18 mm	262.7		27.41	27.9	100
600 μ m	176.7		18.48	9.14	75
425 μ m					75
300 μ m	84.1		8.79	0.6	50
212 μ m					50
150 μ m	3.3		0.35	0.3	40
75 μ m	0.2		0.02	0.3	25
Passing 75 μ m					
Total					

*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 sieves 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.



Operator: **SABRI/MS**
 Date: **6-12-04**
 Description of soil: **LIGHT BROWN SAND**
 Location: **PT 3**
 Sample No: **PT 3**
 British Standard Test Sieves:

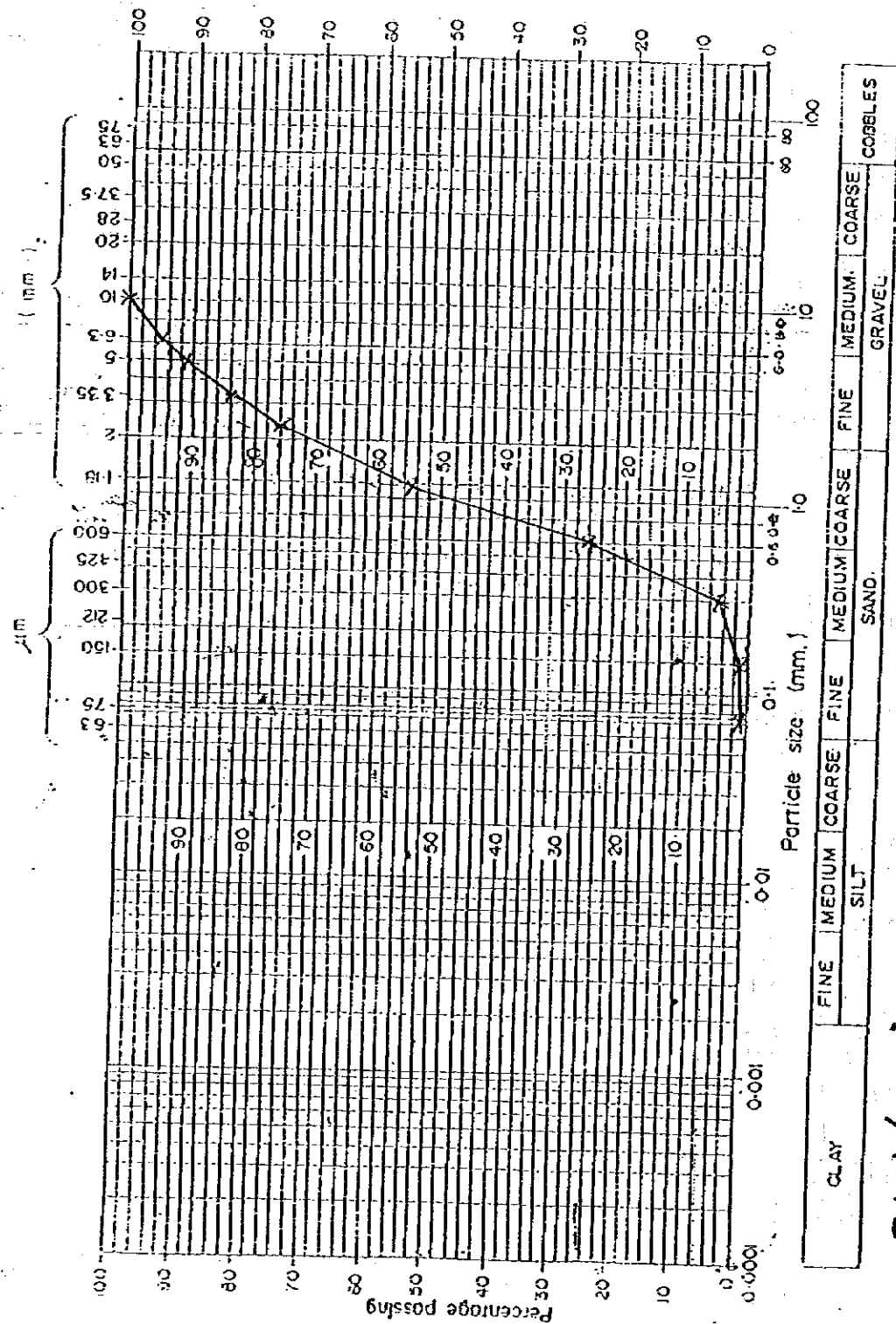
GRADING CURVE (FORM 'G' OF BS 1377 : 1975)

Form G
 Particle size distribution
~~Wet~~/Dry sieving method
 Operator: **J AIS/SABRI**
 Date: **6/12/04**
 Description of soil:

Job:
 Site:
 Borehole No: **✓**
 Sample No: **PT-3**
 Depth of sample: **1**

BS test sieve	Mass retained	Mass retained	Percentage retained	Total percentage passing	Maximum sieve load†
			$\frac{\text{Mass}}{m_1} \times 100$		
50 mm	g	g			8
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)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3} =$		Corrected values $C_1 \times \text{mass retained}$			
12.5 mm					1500
10 mm					1000
6.3 mm	0		0	100	750
Passing 6.3 mm (m_4) Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values $C_2 \times \text{mass retained}$			
5 mm	4.9		0.13	99.9	500
3.35 mm	28.6		0.75	99.1	300
2.36 mm	106.2		2.80	96.3	200
1.18 mm	1020.0		28.72	67.6	100
600 µm	2162.0		56.96	10.6	75
425 µm					75
300 µm	370.0		9.75	0.9	50
212 µm					50
150 µm	10.9		0.28	0.6	40
75 µm	2.8		0.07	0.5	25
Passing 75 µm					
Total					

*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 sieves 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.



Operator: Sobri/yusri

Date: 13/12/04

Description of soil: BROWNISH GRAVELLY SAND

Job:

Location:

Sample No: PT-4

British Standard Test Sieves:

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

Form G

Particle size distribution

Wet/Dry sieving method

Operator: Sobri/yusri

Job:

Date: 13/12

Description of soil:

Total mass of dry sample (m_1): 776.0 g

Site:

Borehole No:

Sample No: PT-4

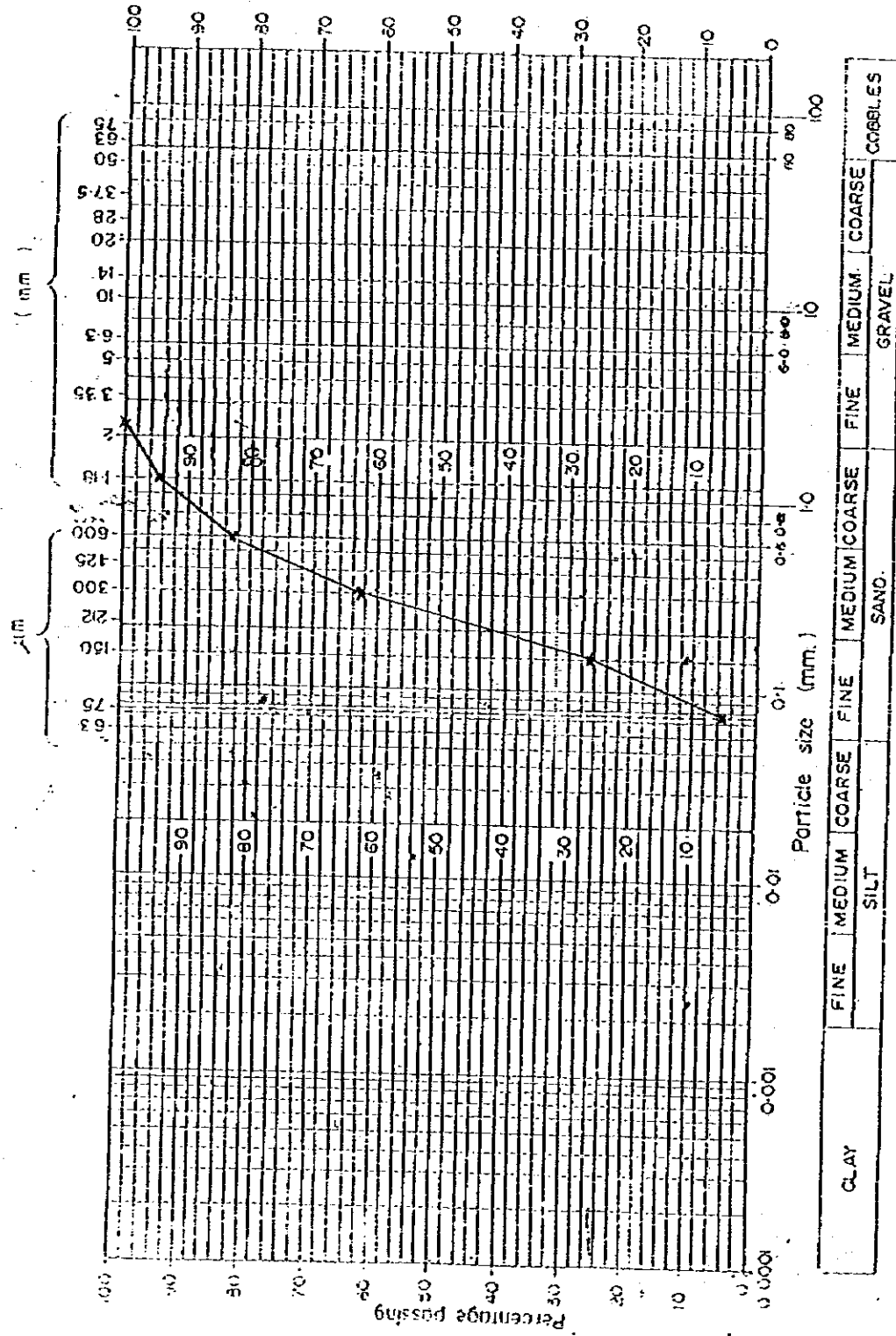
Depth of sample:

BS test sieve	Mass retained	Mass retained	Percentage retained	Total percentage passing	Maximum sieve load
			$\frac{\text{Mass}}{m_1} \times 100$		
50 mm	g	g			g
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m_2) Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3} =$		Corrected values $C_1 \times \text{mass retained}$			
12.5 mm	0		0	100	1500
10 mm	35.1		4.52	95.2	1000
6.3 mm					750
Passing 6.3 mm (m_4) Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values $C_2 \times \text{mass retained}$			
5 mm	33.8		4.36	91.1	500
3.35 mm	53.6		6.88	84.2	300
2.36 mm	63.6		8.20	76.0	200
1.18 mm	162.9		21.0	55.0	100
600 μm	225.8		29.1	25.9	75
425 μm					75
300 μm	159.7		20.58	5.4	50
212 μm					50
150 μm	37.2		4.79	0.6	40
75 μm	0.9		0.12	0.5	25
Passing 75 μm					
Total					

*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 sieves 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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Location: **JSO (1)**
 Sample No.:
 Job:
 Description of soil: **LIGHT GREY SAND**

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

Form G
 Particle size distribution

Wet/Dry sieving method

Operator

Job:

Site:

Date:

Borehole No:

Description of soil:

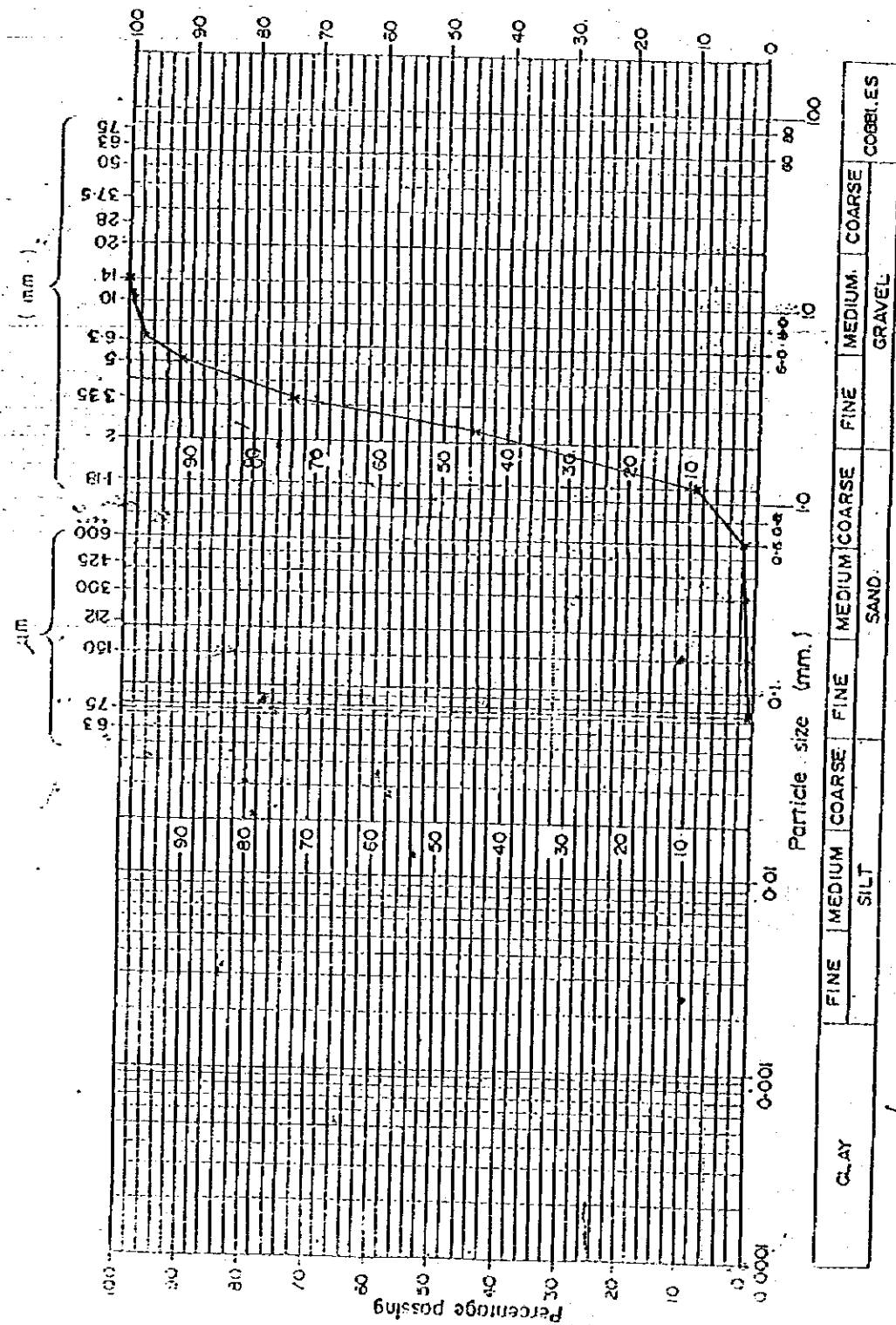
Sample No: **JSO (1)**

Total mass of dry sample (m_1) **5.3** g

Depth of sample:

BS test sieve	Mass retained	Mass retained	Percentage retained $\frac{\text{Mass}}{m_1} \times 100$	Total percentage passing	Maximum sieve load†
8	8	8			8
50 mm					
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m_2) Riffler sample passing 20 mm (m_3)					
Riffling correction, C_1 $C_1 = \frac{m_2}{m_3} =$		Corrected values			
		$C_1 \times \text{mass retained}$			
125 mm					1500
10 mm					1000
6.3 mm					750
Passing 6.3 mm (m_4) Riffler 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			
		$C_2 \times \text{mass retained}$			
5 mm					500
3.35 mm					300
2.36 mm	0		0	100	200
1.18 mm	0.3		5.7	94.3	100
600 μm	0.6		11.3	83.0	75
425 μm	-		-	-	75
300 μm	1.1		20.8	62.2	50
212 μm	-		-	-	50
150 μm	1.9		35.8	26.4	40
75 μm	1.1		20.8	5.6	25
Passing 75 μm					
Total					

*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 sieves 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.



Operator: **SABRI / JAIS**
 Date: **30/11/94**
 Location: **Sample No: JSO 2**
 Description of soil: **LIGHT GREY SANDY GRAVEL**
 British Standard Test Sieves:

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

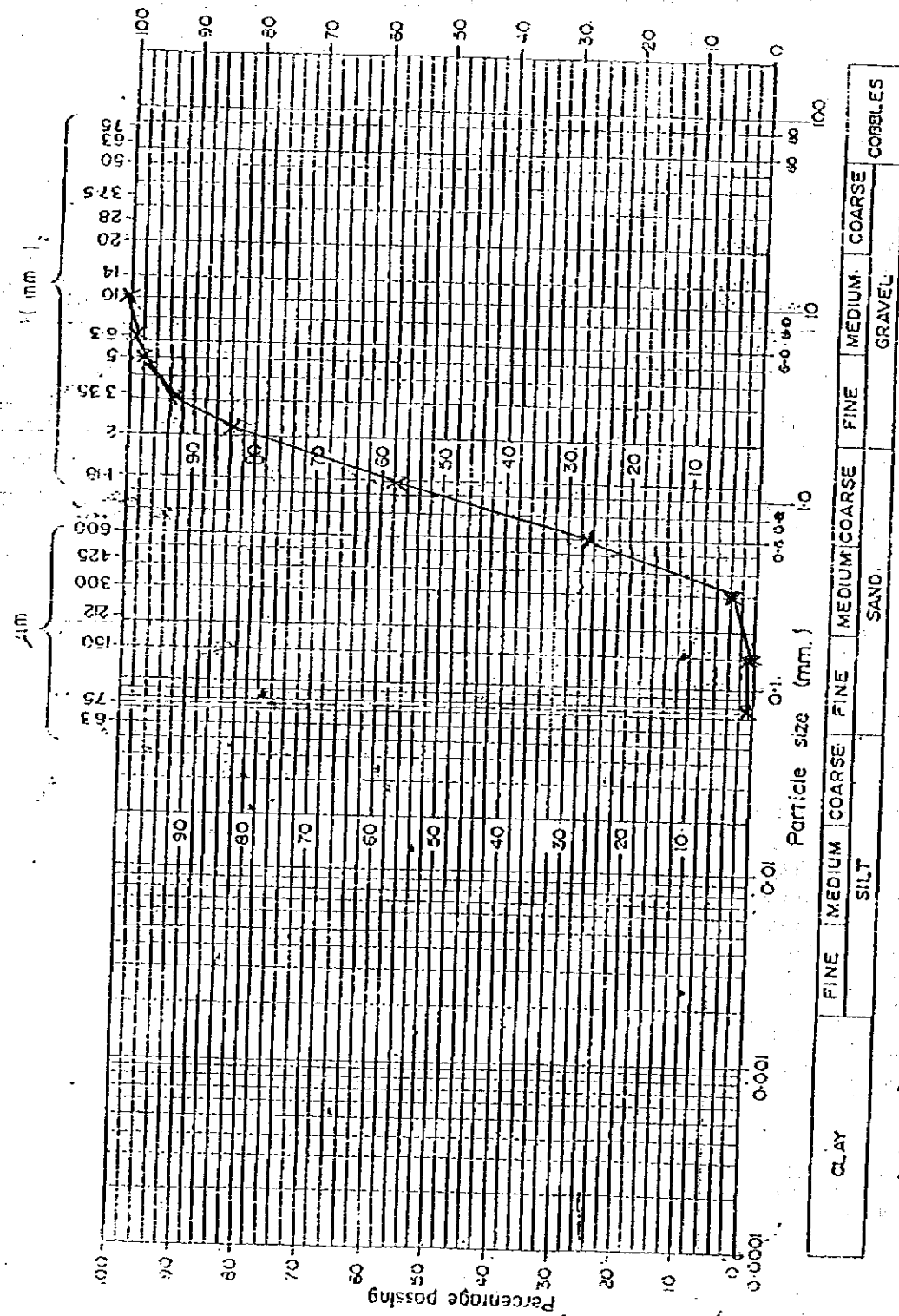
Form G
 Particle size distribution

Wet/Dry* sieving method
 Operator **SABRI / JAIS** Job:
 Date:
 Description of soil:
 Total mass of dry sample (m_1) **1583.9** g

Site:
 Borehole No:
 Sample No: **JSO 2**
 Depth of sample:

BS test sieve	Mass retained	Mass retained	Percentage retained $\frac{Mass}{m_1} \times 100$	Total percentage passing	Maximum sieve load†
50 mm	8				8
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm	0		0	100	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 $C_1 \times$ mass retained			
12.5 mm	3.4		0.21	99.8	3500
10 mm	3.2		0.20	99.6	1000
6.3 mm	32.0		2.02	97.6	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 $C_2 \times$ mass retained			
5 mm	97.0		6.12	91.5	500
3.35 mm	279.7		17.66	73.8	300
2.36 mm	457.2		28.87	44.9	200
1.18 mm	572.9		36.17	8.8	100
600 μ m	108.9		6.88	1.9	75
425 μ m	-		-	-	75
300 μ m	12.6		0.80	1.1	50
212 μ m	-		-	-	50
150 μ m	6.1		0.39	0.7	40
75 μ m	6.3		0.40	0.3	25
Passing 75 μ m					
Total					

*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 sieves 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.



Operator: Sabri/yusri

Date: 13-12-94

Description of soil: BROWNISH GRAYELLY SAND

Job:

Location:

Sample No: J50-4

British Standard Test Sieves:

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

Form G

Particle size distribution

Wet/Dry sieving method

Operator Sabri/yusri

Job:

Site:

Borehole No:

Sample No: J50-4

Description of soil:

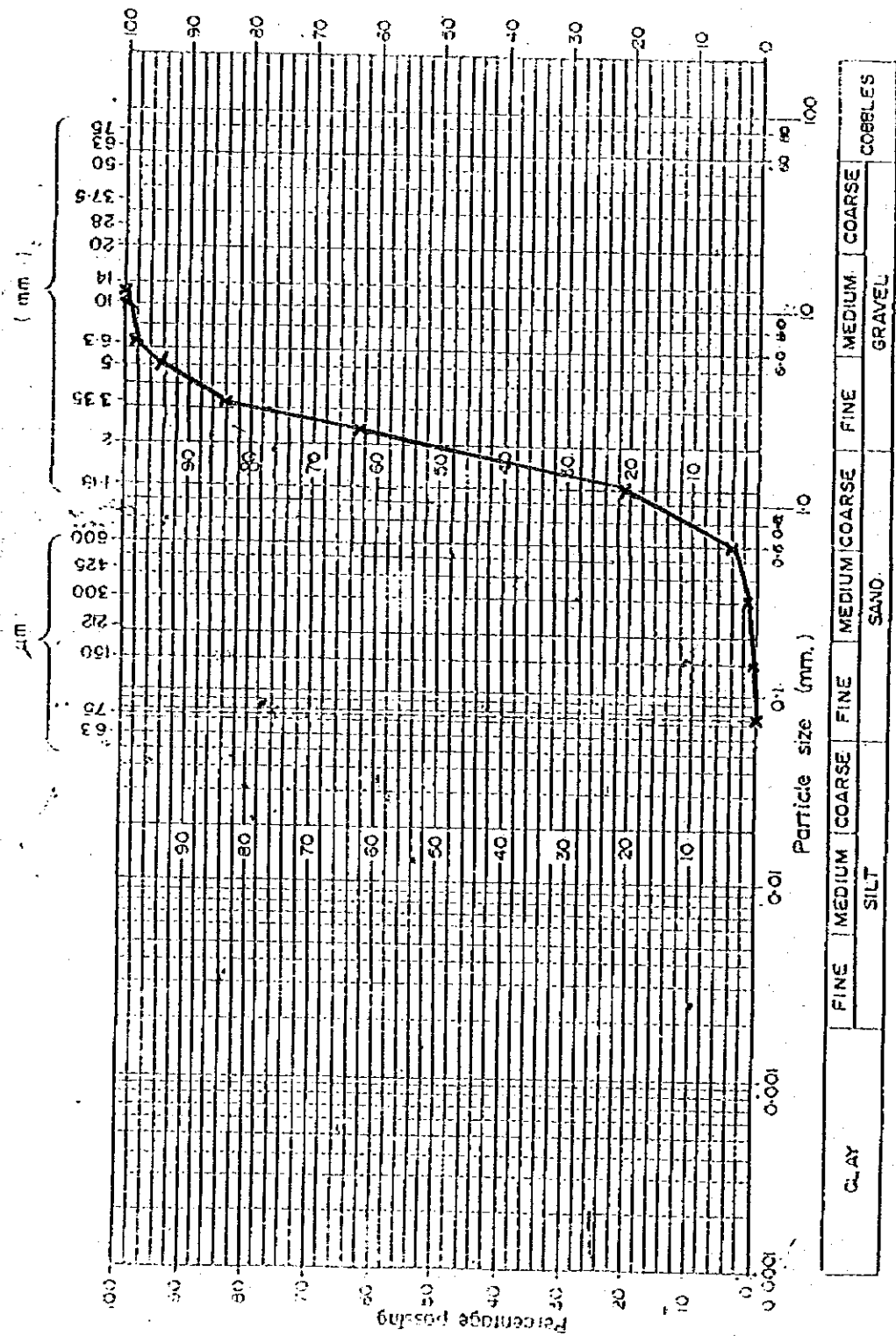
Depth of sample:

Total mass of dry sample (m_1) 777.1 g

BS test sieve	Mass retained	Mass retained.	Percentage retained $\frac{\text{Mass}}{m_1} \times 100$	Total percentage passing	Maximum sieve load†
50 mm	8	8			8
37.5 mm					
25 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m_2) Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3} =$		Corrected values $C_1 \times \text{mass retained}$			
12.5 mm					1500
10 mm	0		0	600	1000
6.3 mm	8.3		1.07	98.9	750
Passing 6.3 mm (m_4) Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values $C_2 \times \text{mass retained}$			
5 mm	10.2		1.31	97.6	500
3.35 mm	38.7		4.98	92.6	300
2.36 mm	70.6		9.09	83.5	200
1.18 mm	199.1		25.49	58.0	100
600 μm	249.1		31.41	26.6	75
425 μm				22.91	75
300 μm	178.0		22.91	3.71	50
250 μm					50
150 μm	28.1		3.62	0.09	40
75 μm	0.2		0.03	0.06	25
Passing 75 μm					
Total					

*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 sieves 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.



Operator: **Sabri/Jais**
 Date: **22/11/94**
 Location: **KT(1)**
 Sample No: **KT(1)**
 Description of soil: **DARKISH BROWNISH GRAVELLY SAND**
 British Standard Test Sieves

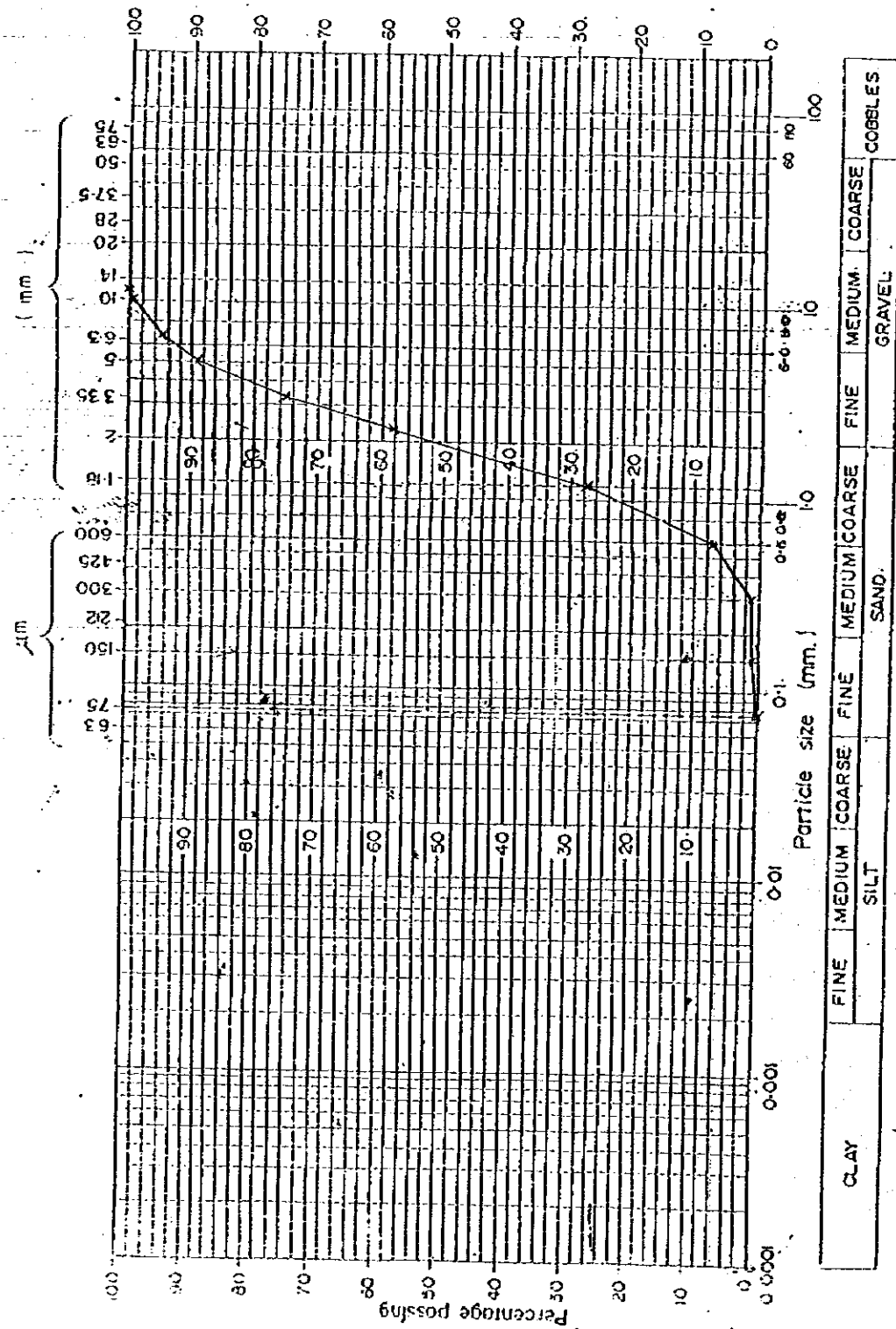
GRADING CURVE (FORM 'G' OF BS.1377 : 1975)

Form G
Particle size distribution

Wet/Dry sieving method
 Operator: **Sabri/Jais** Job: _____ Site: _____
 Date: **22/11/94** Borehole No: _____
 Description of soil: _____ Sample No: **KT(1)**
 Total mass of dry sample (m_1): **3415.1** g Depth of sample: _____

BS test sieve	Mass retained	Mass retained	Percentage retained $\frac{Mass}{m_1} \times 100$	Total percentage passing	Maximum sieve load ¹
8	8				8
50 mm					
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m_2) Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3} =$		Corrected values $C_1 \times$ mass retained			
12.5 mm	0		0	100	1500
10 mm	3.7		0.11	99.9	1000
6.3 mm	62.4		1.83	98.1	750
Passing 6.3 mm (m_4) Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values $C_2 \times$ mass retained			
5 mm	101.4		2.97	95.1	500
3.35 mm	367.3		10.76	84.3	300
2.36 mm	714.4		20.92	63.4	200
1.18 mm	1452.0		42.52	20.9	100
600 μ m	573.6		16.80	4.1	75
425 μ m	-		-	-	75
300 μ m	121.4		3.55	0.6	50
212 μ m	-		-	-	50
150 μ m	11.1		0.33	0.2	40
75 μ m	1.1		0.03	0.2	25
Passing 75 μ m					
Total					

¹Delete the inappropriate word.
²The masses given are for 300 mm and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sieves 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.



Operator: **SABRI / JAIS**
 Date: **30/11/94**
 Location: **Sample No: KT 2**
 Description of soil: **DARKISH BROWN SANDY GRAVEL**
 British Standard Test Sieves

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

Form G

Particle size distribution

Wet/Dry sieving method

Operator **SABRI / JAIS**

Job:

Date: **30/11/94**

Site:

Borehole No:

Description of soil:

Sample No: **KT 2**

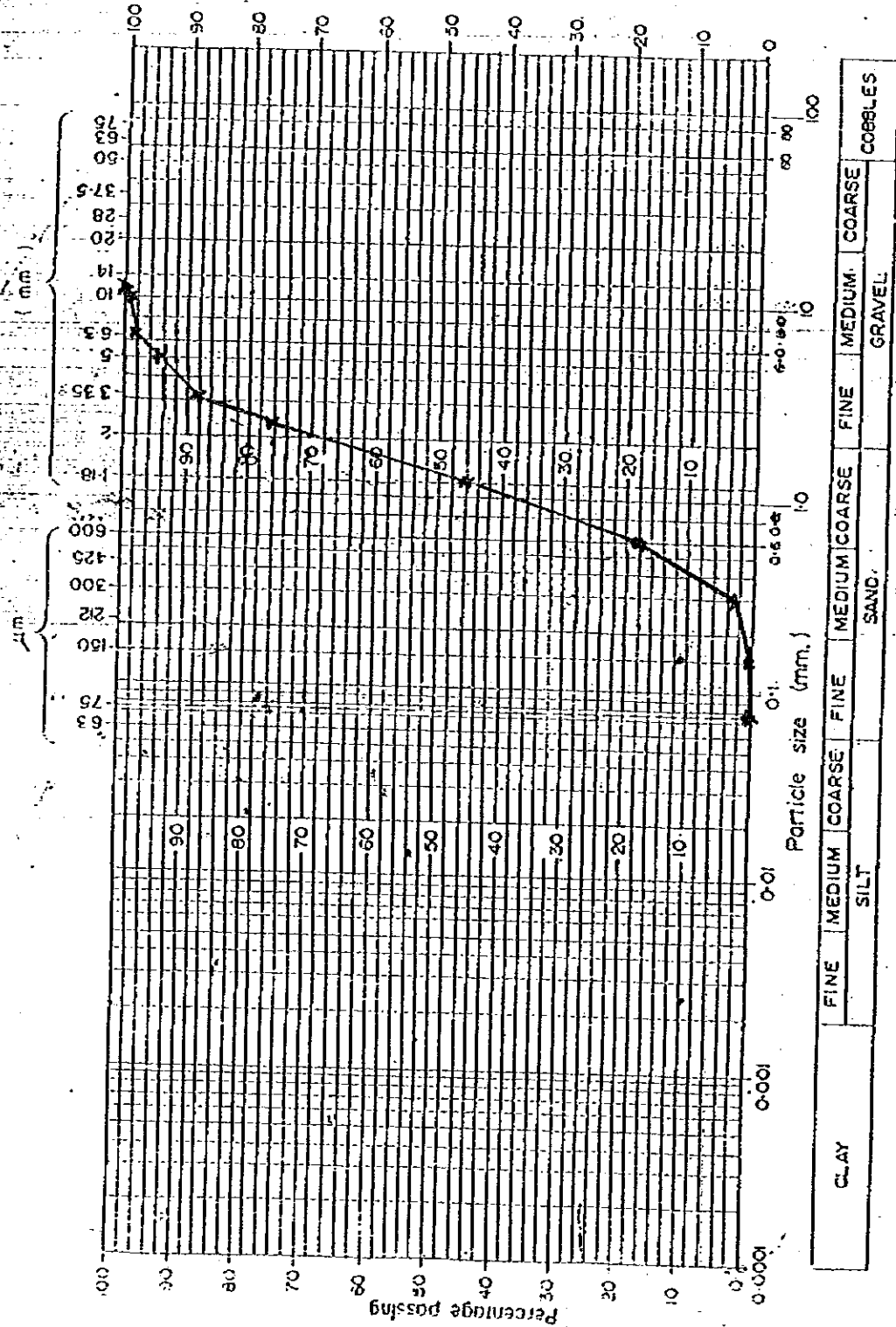
Total mass of dry sample (m_1) **2588.2** g

Depth of sample:

BS test sieve	Mass retained	Mass retained	Percentage retained $\frac{\text{Mass}}{m_1} \times 100$	Total percentage passing	Maximum sieve (mm)
50 mm	8				8
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m_2) Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3}$		Corrected values $C_1 \times \text{mass retained}$			
12.5 mm	0		0	100	1500
10 mm	13.3		0.51	99.5	1000
6.3 mm	130.2		5.03	94.5	750
Passing 6.3 mm (m_4) Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5}$		Corrected values $C_2 \times \text{mass retained}$			
5 mm	133.7		5.17	89.3	500
3.35 mm	368.9		14.25	75.0	300
2.36 mm	441.8		17.07	58.0	200
1.18 mm	780.6		30.16	27.8	100
600 μm	546.2		21.10	6.7	75
425 μm	144.6				75
300 μm	144.6		5.59	1.1	50
212 μm					50
150 μm	26.8		1.04	0.1	40
75 μm	2.1		0.1	0.0	25
Passing 75 μm					
Total					

*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 sieves 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.



Operator: **SABRI/JAIS**
 Date: **6-12-94**
 Location: **KT 3**
 Sample No: **KT 3**
 Description of soil: **DARKISH BROWN GRAVELLY SAND**
 British Standard Test Sieves:

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

Form G
 Particle size distribution

Method: **Wet sieving method**

Operator: **Sabri/Jais**

Date: **6/12/94**

Description of soil:

Total mass of dry sample (m_1): **3958.6 g**

Job:

Site:

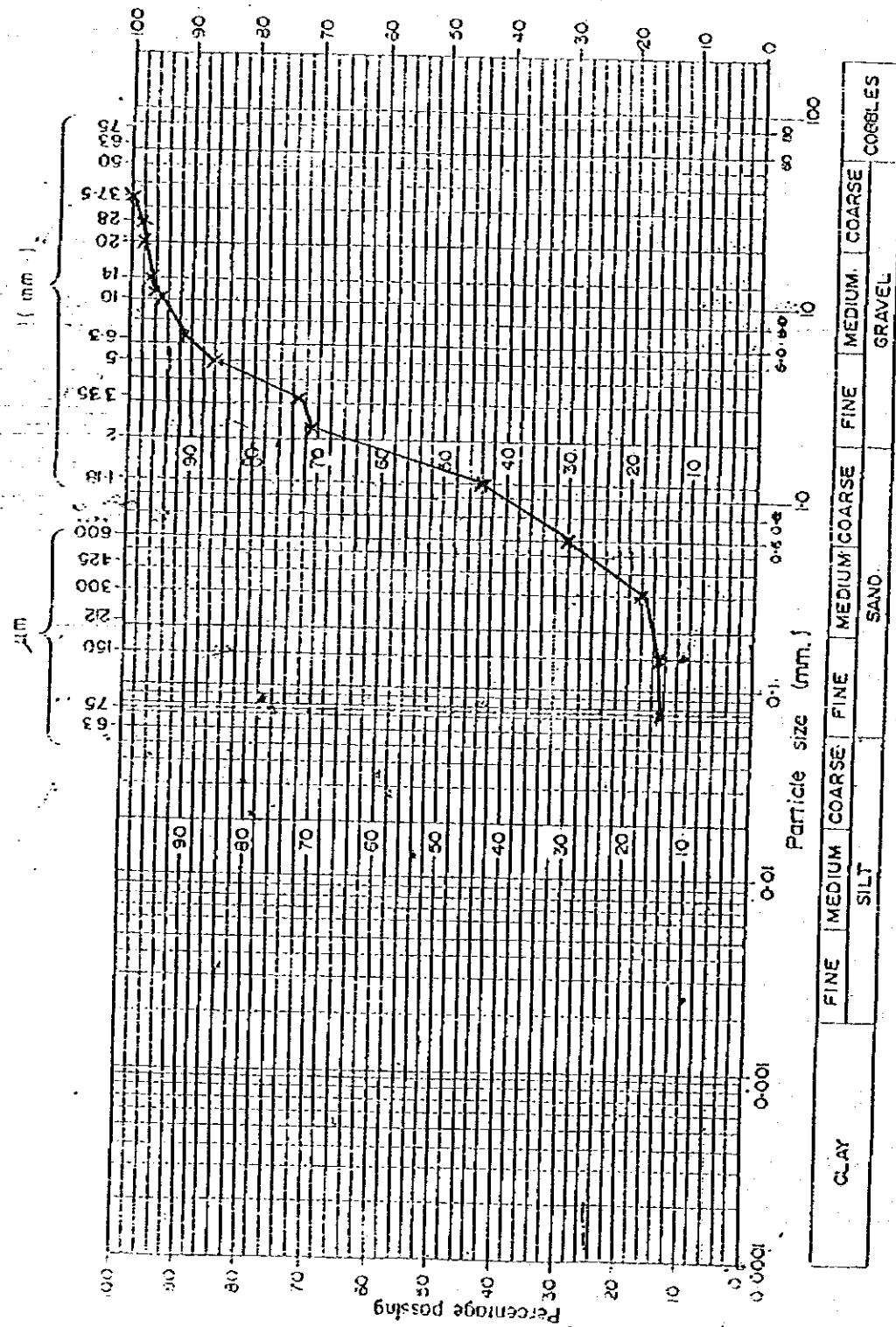
Borehole No:

Sample No: **KT 3**

Depth of sample:

BS test sieve	Mass retained	Mass retained	Percentage retained $\frac{\text{Mass}}{m_1} \times 100$	Total percentage passing	Maximum sieve load†
50 mm	8				8
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m_2) Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3} =$		Corrected values $C_1 \times \text{mass retained}$			
12.5 mm	0		0	100	1500
10 mm	28.0		0.71	99.3	1000
6.3 mm	44.0		1.11	98.2	750
Passing 6.3 mm (m_4) Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values $C_2 \times \text{mass retained}$			
5 mm	128.0		3.23	95.0	500
3.35 mm	264.2		6.67	88.3	300
2.36 mm	484.1		12.23	76.1	200
1.18 mm	1200.0		30.31	45.8	100
600 μm	1085.4		27.42	18.3	75
425 μm					75
300 μm	618.3		15.62	2.7	50
212 μm					50
150 μm	92.0		2.32	0.4	40
75 μm	10.2		0.26	0.1	25
Passing 75 μm					
Total					

*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 sieves 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.



Operator: Sabri / Yusni
 Date: 13/12/04
 Description of soil: BROWNISH GRAVELLY SAND

Location: Job:
 Sample No: KT-4
 British Standard Test Sieves

Form G

Particle size distribution

Wet/Dry sieving method

Operator: SABRI / YUSNI

Job:

Site:

Date: 13/12/04

Borehole No:

Description of soil:

Sample No: KT-A

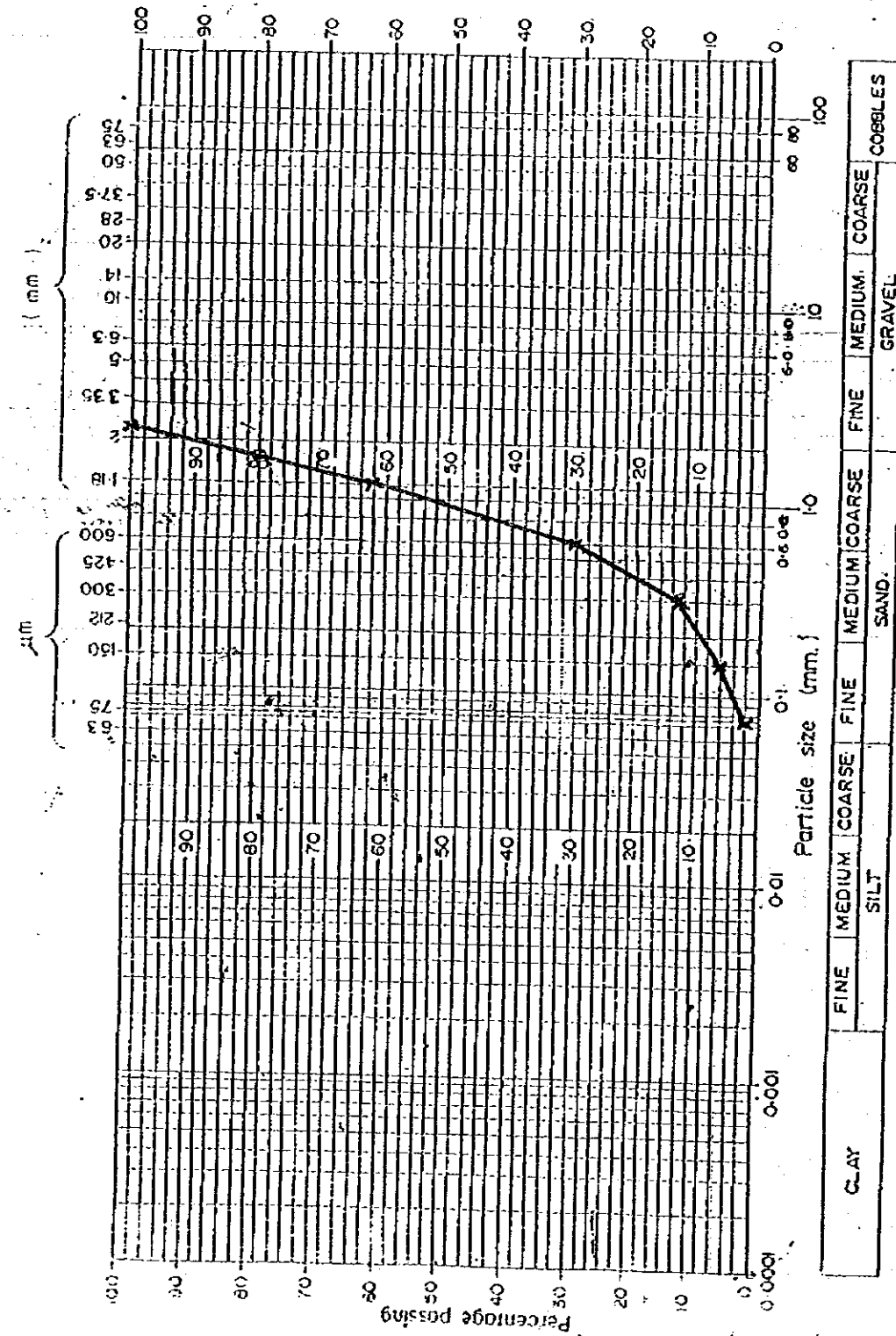
Total mass of dry sample (m₁): 1887.6 g

Depth of sample:

BS test sieve	Mass retained	Mass retained	Percentage retained $\frac{\text{Mass}}{m_1} \times 100$	Total percentage passing	Maximum sieve load†
50 mm	g	g			g
37.5 mm	0		0	100	
28 mm	20.4		1.61	98.4	4500
25 mm					3500
20 mm	10.2		0.54	97.9	2500
14 mm	10.1		0.54	97.3	2000
Passing 20 mm (m ₂) Riffled sample passing 20 mm (m ₃)					
Riffing correction, C ₁ $C_1 = \frac{m_2}{m_3} =$		Corrected values C ₁ X mass retained			
12.5 mm	24.2		1.28	96.0	1500
10 mm	26.2		1.07	95.0	1000
6.3 mm	86.3		4.25	90.8	750
Passing 6.3 mm (m ₄) Riffled sample passing 6.3 mm (m ₅)					
Riffing correction, C ₂ $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values C ₂ X mass retained			
5 mm	86.0		4.56	86.2	500
3.35 mm	246.7		13.07	73.1	300
2.36 mm	314.0		1.80	71.3	200
1.18 mm	510.1		27.02	44.3	100
600 μm	272.0		14.73	29.6	75
425 μm					75
300 μm	224.0		11.87	17.7	50
212 μm					50
150 μm	48.1		2.55	15.2	40
75 μm	2.0		0.11	15.0	25
Passing 75 μm					
Total					

*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 sieves 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.



Operator: Sabri/Jais
 Date: 22/11/94
 Description of soil: LIGHT BROWN SAND

Location: Sample No: JN(1)
 British Standard Test Sieves:

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

Form G
 Particle size distribution

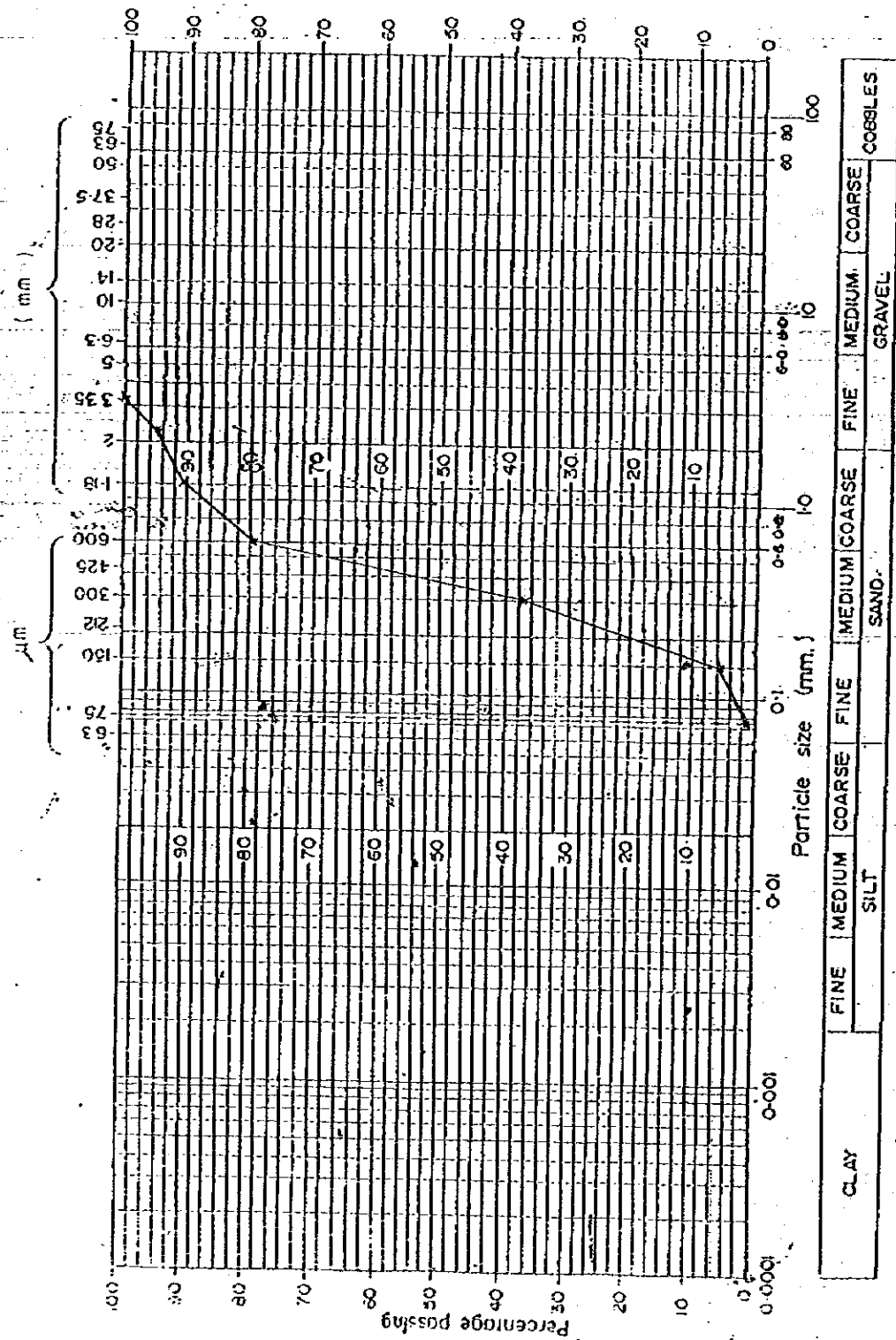
Net/Dry sieving method
 Operator Sabri/Jais
 Date: 22/11/94
 Description of soil:

Site:
 Borehole No:
 Sample No: JN(1)
 Depth of sample:

Total mass of dry sample (m₁) 12.39 g

BS test sieve	Mass retained	Mass retained	Percentage retained	Total percentage passing	Maximum sieve load
			$\frac{\text{Mass}}{m_1} \times 100$		
50 mm	g	g			g
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m ₂) Riffled sample passing 20 mm (m ₃)					
Riffing correction, C ₁ $C_1 = \frac{m_2}{m_3} =$		Corrected values C ₁ 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 ₅)					
Riffing correction, C ₂ $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values C ₂ X mass retained			
5 mm					500
3.35 mm					300
2.36 mm	0		0	100	200
1.18 mm	4.7		38.21	61.8	100
600 μm	3.9		31.71	30.1	75
425 μm	-		-	-	75
300 μm	2.1		17.07	13.0	50
212 μm	-		-	-	50
150 μm	0.9		7.32	5.7	40
75 μm	0.5		4.07	1.6	25
Passing 75 μm					
Total					

*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 sieves 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.



Operator: **SABRI / JAIS** Job: _____
 Date: **30/11/94** Location: _____
 Sample No: **JN 2**
 Description of soil: **LIGHT BROWN SAND CONTAMINATED WITH DECOMPOSED VEGETATION**
 British Standard Test Sieves:

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

Form G

Particle size distribution

Wet/Dry sieving method

Operator **SABRI / JAIS** Job: _____

Date: **30/11/94**

Description of soil: _____

Site: _____

Borehole No: _____

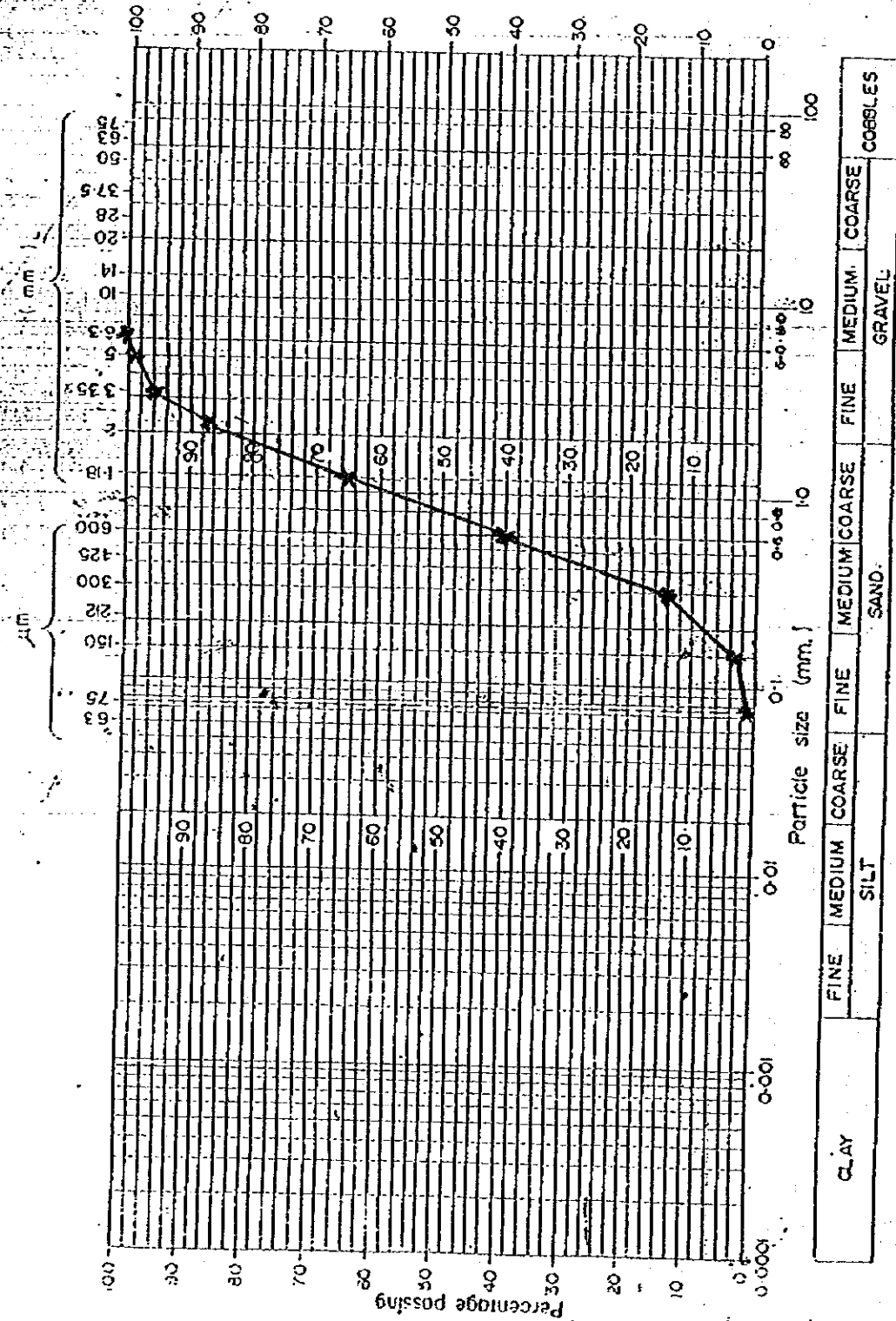
Sample No: **JN 2**

Total mass of dry sample (m_1) **24.9** g

Depth of sample: _____

BS test sieve	Mass retained	Mass retained	Percentage retained $\frac{\text{Mass}}{m_1} \times 100$	Total percentage passing	Maximum sieve load†
50 mm	8				8
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m_2) Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3} =$		Corrected values $C_1 \times \text{mass retained}$			
12.5 mm					1500
10 mm					1000
6.3 mm					750
Passing 6.3 mm (m_4) Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values $C_2 \times \text{mass retained}$			
5 mm					500
3.35 mm	0		0	100	300
2.36 mm	1.4		5.62	94.4	200
1.18 mm	1.0		4.02	90.4	100
600 μm	2.6		10.44	79.9	75
425 μm	-		-	-	75
300 μm	10.6		42.57	37.4	50
212 μm	-		-	-	50
150 μm	7.9		31.73	5.6	40
75 μm	1.1		4.42	1.2	25
Passing 75 μm					
Total					

*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 sieves 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.



Operator: **JAIS/SABRI**
 Date: **6/12/94**
 Location: **JN-3**
 Sample No: **JN-3**
 Description of soil: **LIGHT BROWN SAND**
 British Standard Test Sieves

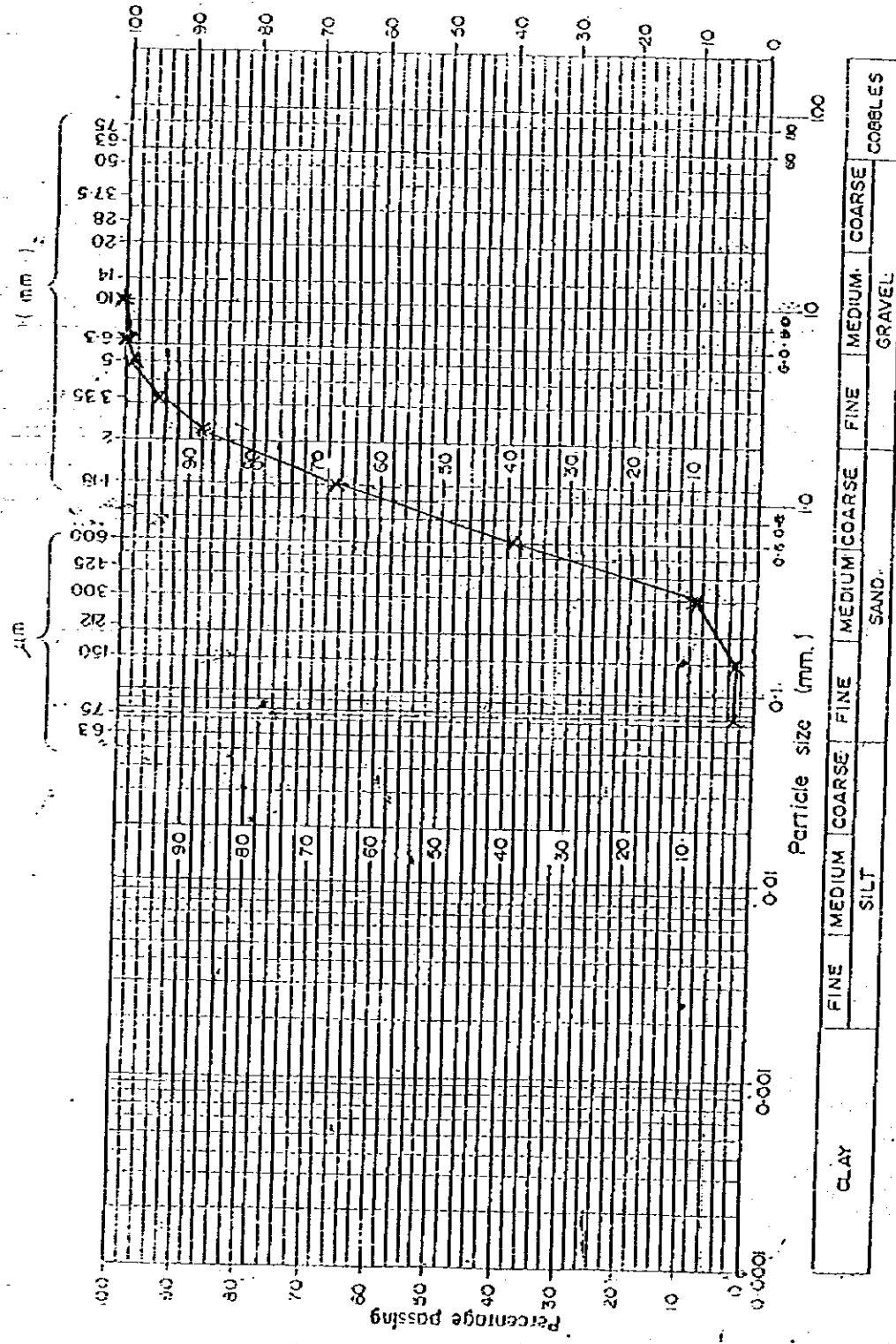
GRADING CURVE (FORM 'G' OF BS.1377 : 1975)

Form G
 Particle size distribution
 Wet/Dry sieving method

Operator: _____ Job: _____ Site: _____
 Date: _____ Borehole No: _____
 Description of soil: _____ Sample No: **JN-3**
 Total mass of dry sample (m_1): **71.2** g Depth of sample: _____

BS test sieve	Mass retained	Mass retained	Percentage retained	Total percentage passing	Maximum sieve load†
			$\frac{\text{Mass}}{m_1} \times 100$		
50 mm	8	8			8
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m_2) Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3} =$		Corrected values $C_1 \times$ mass retained			
12.5 mm					1500
10 mm					1000
6.3 mm	0		0	100	750
Passing 6.3 mm (m_4) Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values $C_2 \times$ mass retained			
5 mm	0.8		1.12	98.9	500
3.35 mm	2.2		3.09	95.8	300
2.36 mm	6.0		8.43	87.4	200
1.18 mm	16.0		22.5	64.9	100
600 μ m	18.1		25.4	39.5	75
425 μ m					75
300 μ m	18.2		25.6	13.9	50
212 μ m					50
150 μ m	8.0		11.2	2.7	40
75 μ m	1.0		1.4	1.3	25
Passing 75 μ m					
Total					

*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 sieves 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.



Operator: **Sabri/Yusri**
 Date: **13/12/94**
 Description of soil: **LIGHT BROWN SAND**

Location: **JN-4**
 Sample No: **JN-4**
 British Standard Test Sieves:

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

Form G

Particle size distribution

Wet/Dry sieving method

Operator: **Sabri/Yusri**

Job:

Site:

Date: **13/12/94**

Borehole No:

Description of soil:

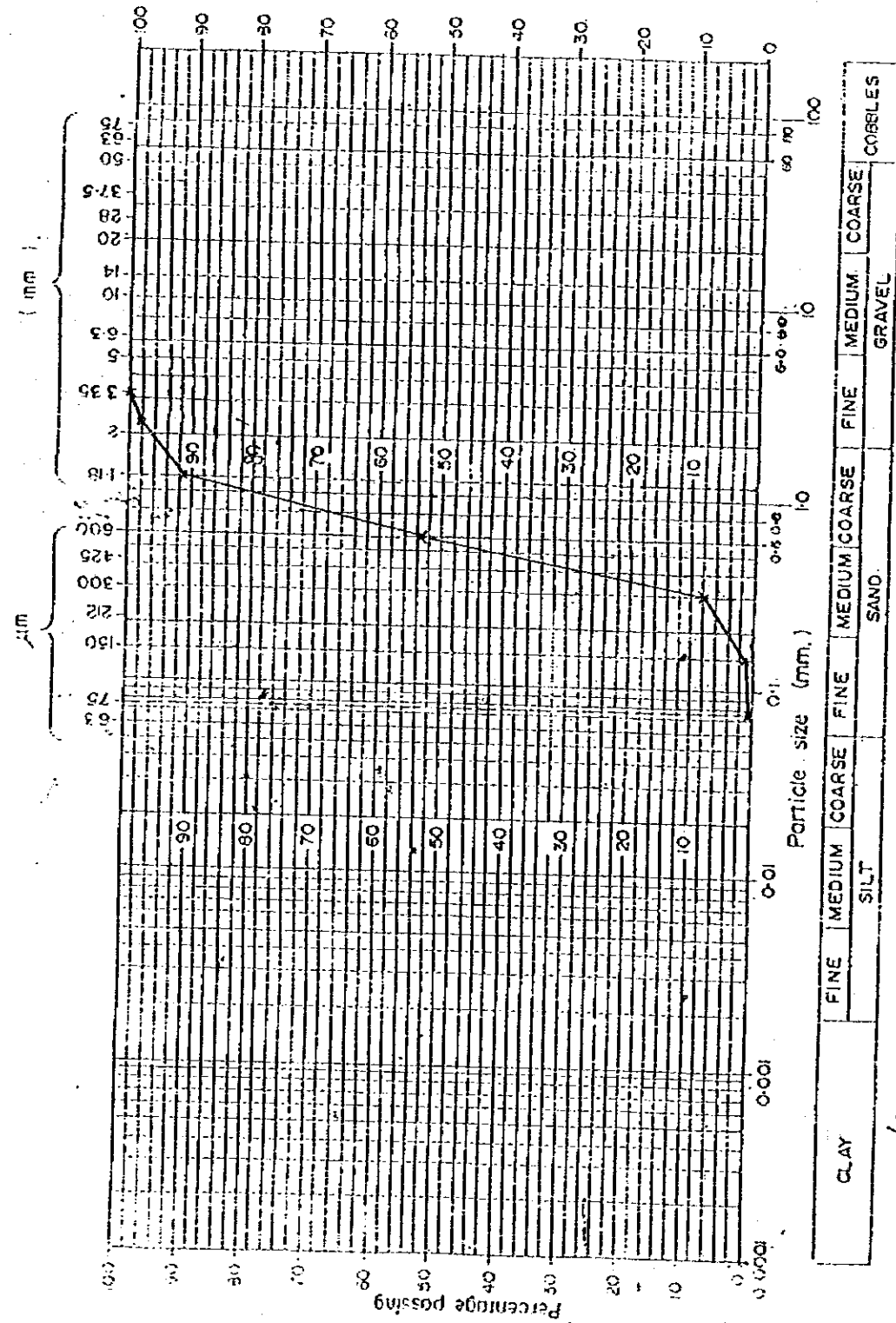
Sample No: **JN-4**

Total mass of dry sample (m_1): **154.4 g**

Depth of sample:

BS test sieve	Mass retained	Mass retained	Percentage retained $\frac{Mass}{m_1} \times 100$	Total percentage passing	Maximum sieve load†
50 mm	8	8			8
37.5 mm					
28 mm					
25 mm					4500
20 mm					3500
14 mm					2500
Passing 20 mm (m_2)					
Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3}$		Corrected values			
		$C_1 \times$ mass retained			
12.5 mm					1500
10 mm	0		0	100	1000
6.3 mm	0.8		0.52	99.5	750
Passing 6.3 mm (m_4)					
Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5}$		Corrected values			
		$C_2 \times$ mass retained			
5 mm	0.4		0.26	99.2	500
3.35 mm	0		3.89	95.3	300
2.36 mm	12.1		7.84	87.5	200
1.18 mm	31.2		20.21	67.3	100
600 μ m	43.4		28.11	39.1	75
425 μ m					75
300 μ m	46.0		29.79	9.4	50
212 μ m					50
150 μ m	10.1		6.54	2.8	40
75 μ m	0.2		0.13	2.7	25
Passing 75 μ m					
Total					

*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 sieves 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.



Operator: **SARRI / JAYS**
 Date: **22/11/94**
 Location: **NM (1)**
 Sample No.:
 Description of soil: **BROWNISH SAND**
 Job:
 British Standard Test Sieves:

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

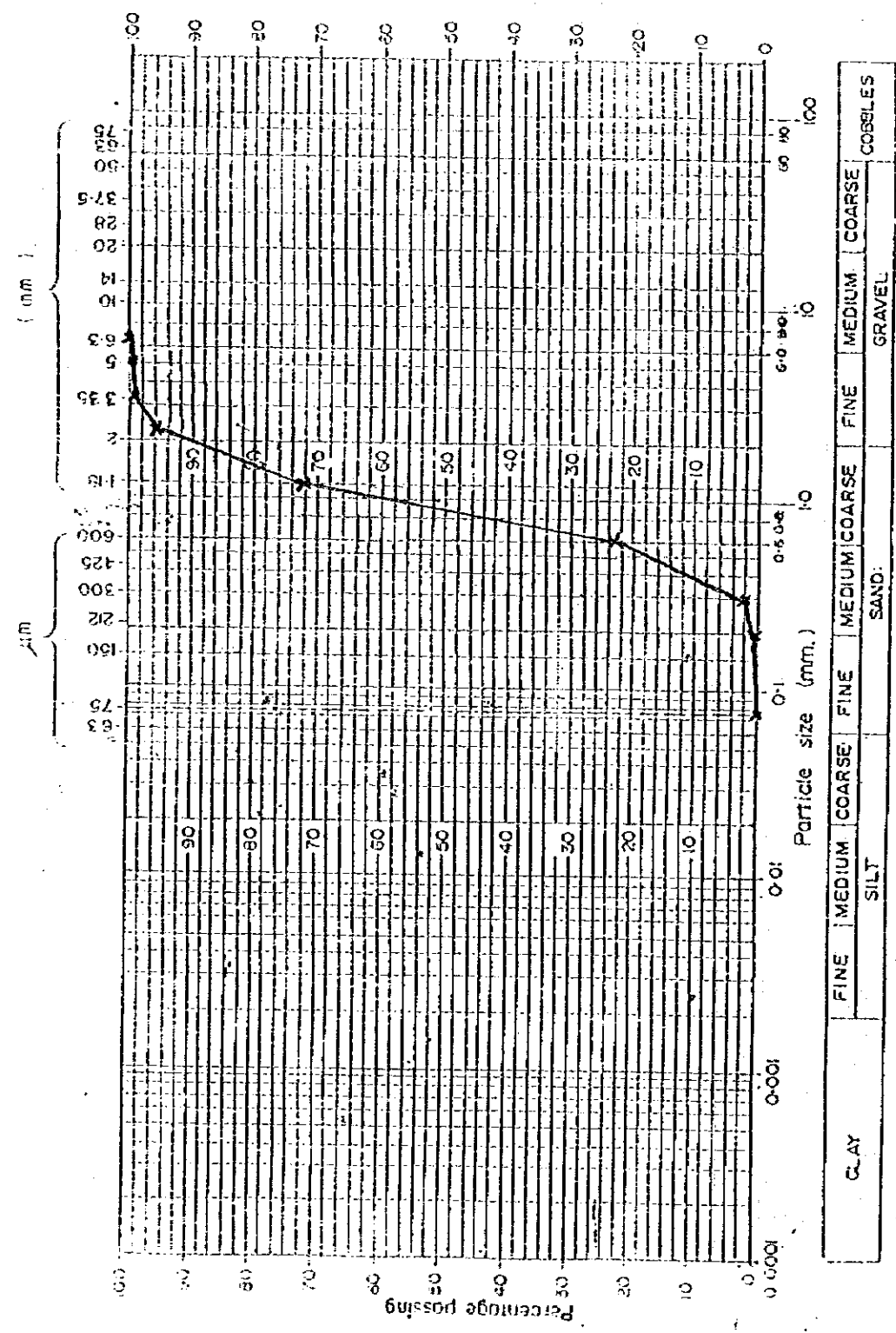
Form G
Particle size distribution

Dry sieving method

Operator: _____ Job: _____ Site: _____
 Date: _____ Borehole No: _____
 Description of soil: _____ Sample No: **NM (1)**
 Total mass of dry sample (m_1): **432.0** g Depth of sample: _____

BS test sieve	Mass retained	Mass retained	Percentage retained $\frac{M_{ret}}{m_1} \times 100$	Total percentage passing	Maximum sieve load†
50 mm	0	0	0	100	8
37.5 mm	0	0	0	100	4500
28 mm	0	0	0	100	3500
25 mm	0	0	0	100	2500
20 mm	0	0	0	100	2000
14 mm	0	0	0	100	2000
Passing 20 mm (m_2) Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3} =$		Corrected values			
		$C_1 \times$ 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_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values			
		$C_2 \times$ mass retained			
5 mm	0		0	100	500
3.35 mm	0		0	100	300
2.36 mm	8.5		2.0	98.0	200
1.18 mm	29.5		6.6	91.4	100
600 μ m	162.5		37.6	53.8	75
425 μ m	—		—	—	75
300 μ m	198.3		45.9	7.9	50
212 μ m	—		—	—	50
150 μ m	29.9		6.8	1.1	40
75 μ m	2.2		0.5	0.6	25
Passing 75 μ m					
Total					

†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 sieves 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.



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

Form G

Particle size distribution

Wet/Dry sieving method

Operator SABRI / JAIS Job:

Date: 30/11/94

Description of soil:

Total mass of dry sample (m₁) 1397.3 g

Site:

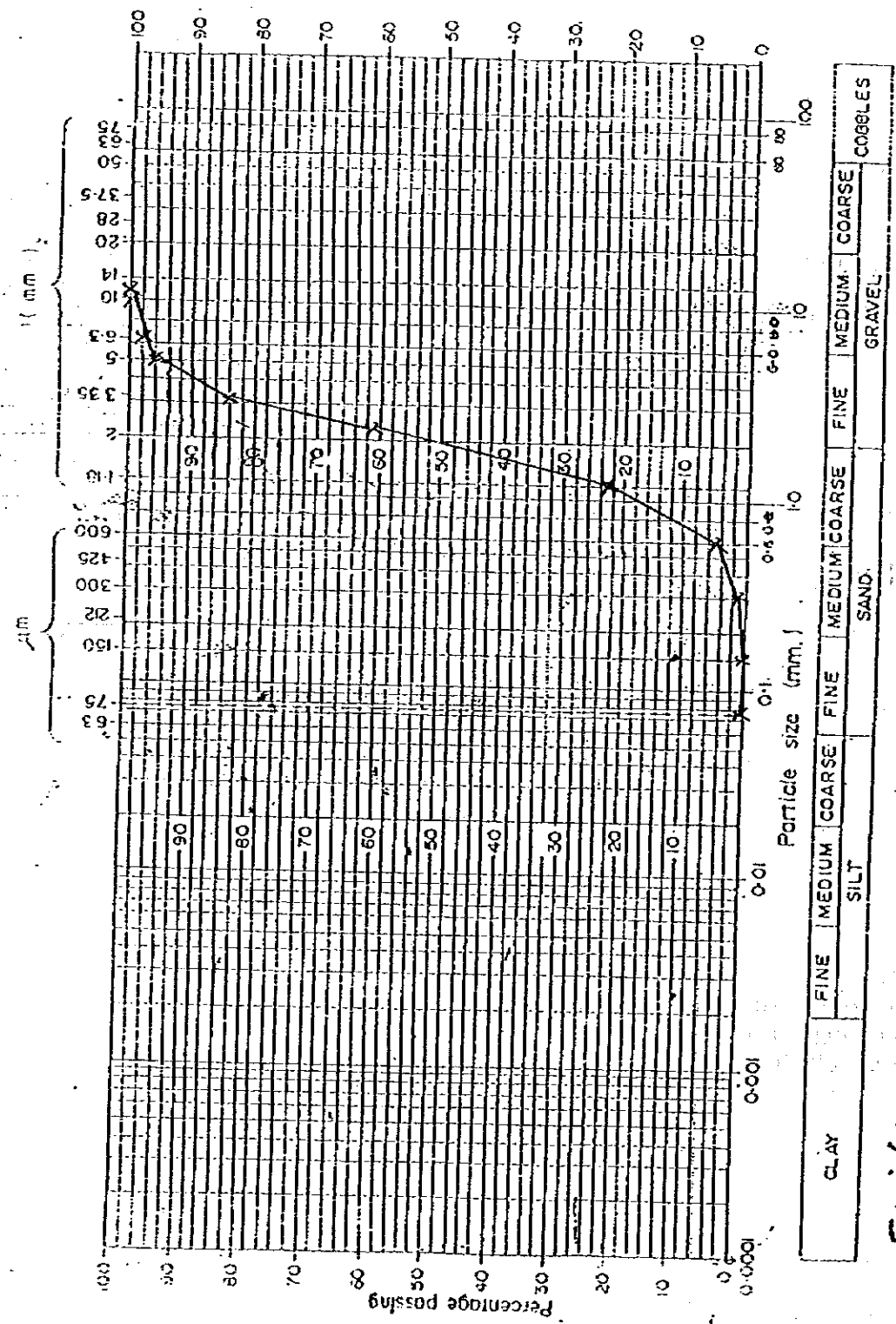
Borehole No:

Sample No: NM 2

Depth of sample:

BS test sieve	Mass retained	Mass retained	Percentage retained $\frac{\text{Mass}}{m_1} \times 100$	Total percentage passing	Maximum sieve load†
50 mm	8	8			8
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m ₂) Riffled sample passing 20 mm (m ₃)					
Riffing correction, C ₁ $C_1 = \frac{m_2}{m_3}$		Corrected values C ₁ X mass retained			
12.5 mm 10 mm 6.3 mm	0		0	100	1500 1000 750
Passing 6.3 mm (m ₄) Riffled sample passing 6.3 mm (m ₅)					
Riffing correction, C ₂ $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5}$		Corrected values C ₂ X mass retained			
5 mm	4.2		0.30	99.7	500
3.35 mm	10.2		0.73	99.0	300
2.36 mm	42.3		3.03	95.9	200
1.18 mm	331.2		23.70	72.2	100
600 μm	687.0		49.17	23.1	75
425 μm					75
300 μm	290.1		20.76	2.4	50
212 μm					50
150 μm	27.1		1.94	0.4	40
75 μm	1.8		0.13	0.3	25
Passing 75 μm					
Total					

*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 sieves 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.



Operator: **Sabri/Yus.**
 Date: **13/12/1974**
 Location: **NM-4**
 Sample No: **NM-4**
 Description of soil: **BRUNNISH GRAVELLY SAND**
 British Standard Test Sieves:

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

Form G

Particle size distribution

Wet/Dry sieving method

Operator **Yusni/Sabri**

Job:

Date: **12/12/1974**

Site:

Description of soil:

Borehole No:

Total mass of dry sample (m_1) **2827.2g**

Sample No: **NM-4**

Depth of sample:

BS test sieve	Mass retained	Mass retained.	Percentage retained $\frac{Mass}{m_1} \times 100$	Total percentage passing	Maximum sieve load†
50 mm	8	8			8
37.5 mm					
28 mm					4500
25 mm					3500
20 mm					2500
14 mm					2000
Passing 20 mm (m_2) Riffled sample passing 20 mm (m_3)					
Riffing correction, C_1 $C_1 = \frac{m_2}{m_3} =$		Corrected values $C_1 \times$ mass retained			
12.5 mm	0		0	100	1500
10 mm	2.0		0.01	99.9	1000
6.3 mm	54.1		1.91	98.1	750
Passing 6.3 mm (m_4) Riffled sample passing 6.3 mm (m_5)					
Riffing correction, C_2 $C_2 = \frac{m_2}{m_3} \times \frac{m_4}{m_5} =$		Corrected values $C_2 \times$ mass retained			
5 mm	60.2		2.13	96.0	500
3.35 mm	342.0		12.10	83.9	300
2.36 mm	672.0		22.85	61.0	200
1.18 mm	1075		38.03	23.0	100
600 μ m	500.3		17.84	5.17	75
425 μ m					75
300 μ m	112.0		3.96	1.17	50
212 μ m					50
150 μ m	22.0		0.78	0.4	40
75 μ m	2.0		0.07	0.3	25
Passing 75 μ m			0.07	0.3	
Total					

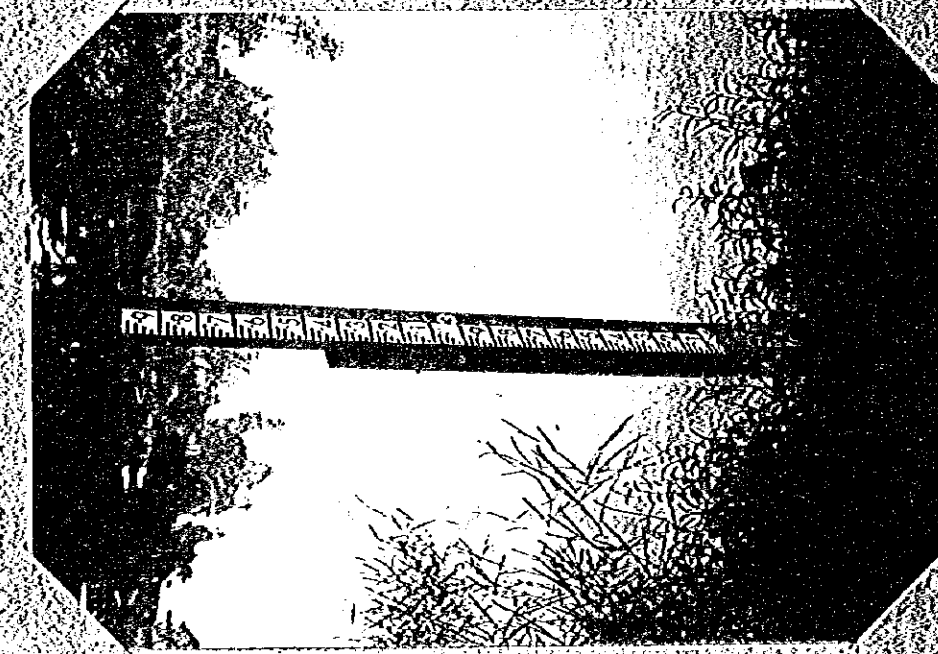
*Delete the inappropriate word.
 †The masses given are for 300 mm and 200 mm diameter sieves. These masses may be increased when 450 mm diameter sieves are used (see Appendix A) but otherwise, if the mass retained exceeds the permitted maximum, the result is invalid; in this case, a smaller sample should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

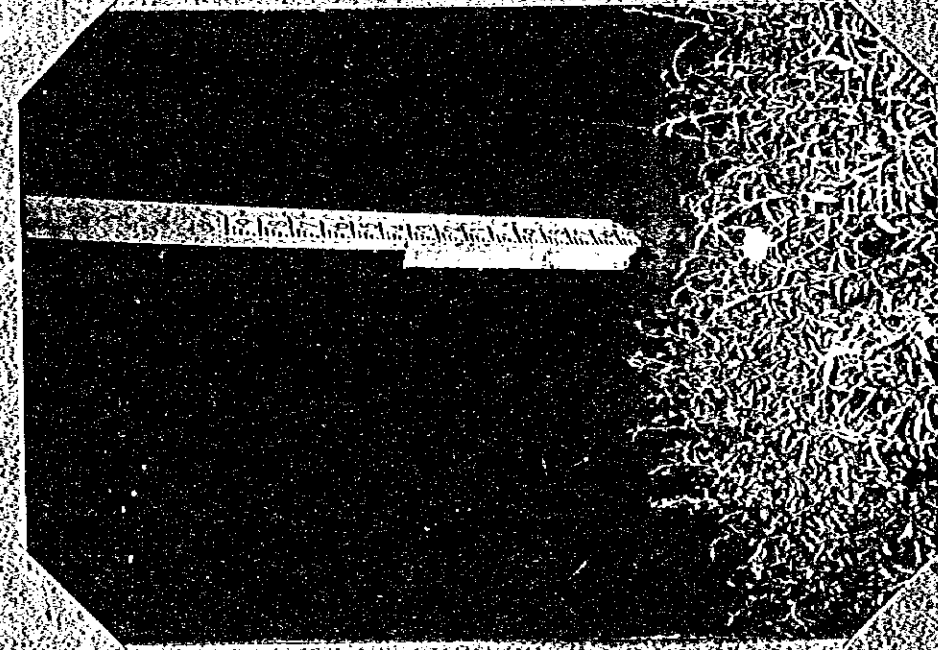
Section Two - Attachment Four.
Photos.

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

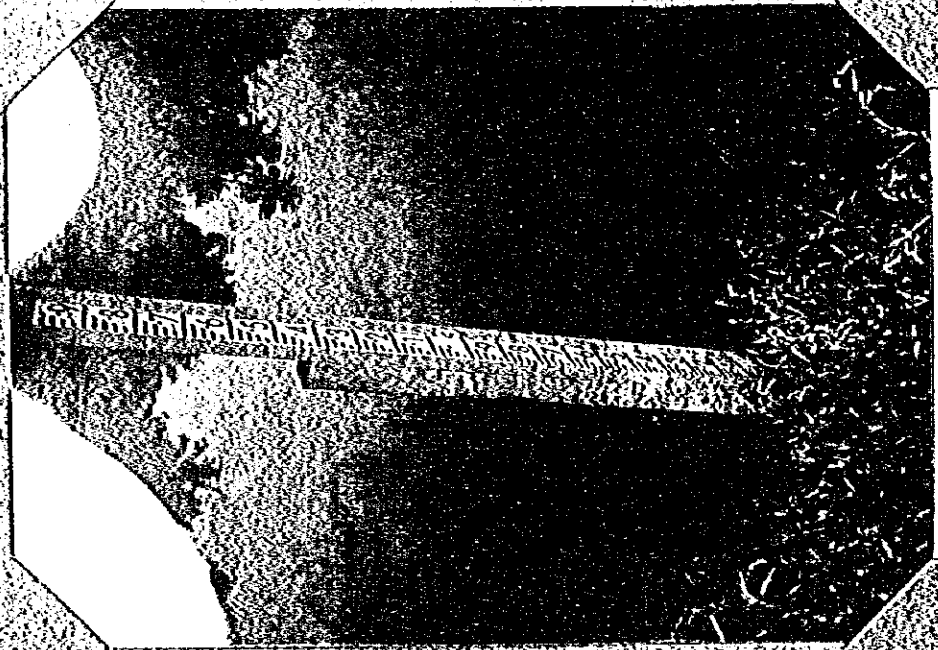
Contractor.
Pembinaan Jitu Padat.
282, Jalan Kangar, Perlis,
01000 Kangar, Perlis.



PT 2
Date : 26th November 94
Time : 7.12am

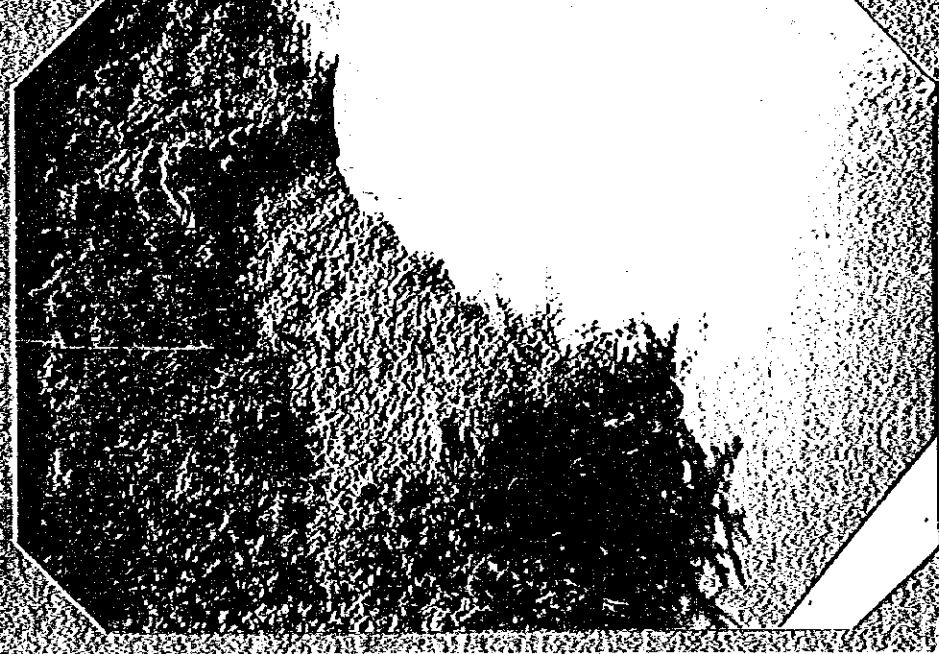


PT 3
Date : 04th December 94
Time : 5.45am

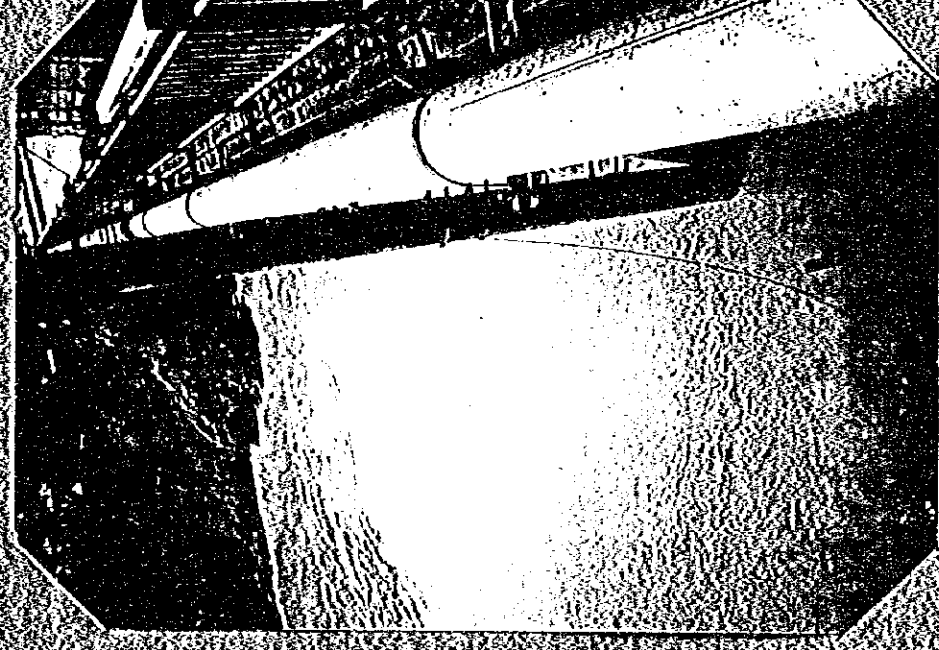


PT 4
Date : 11th December 94
Time : 5.40am

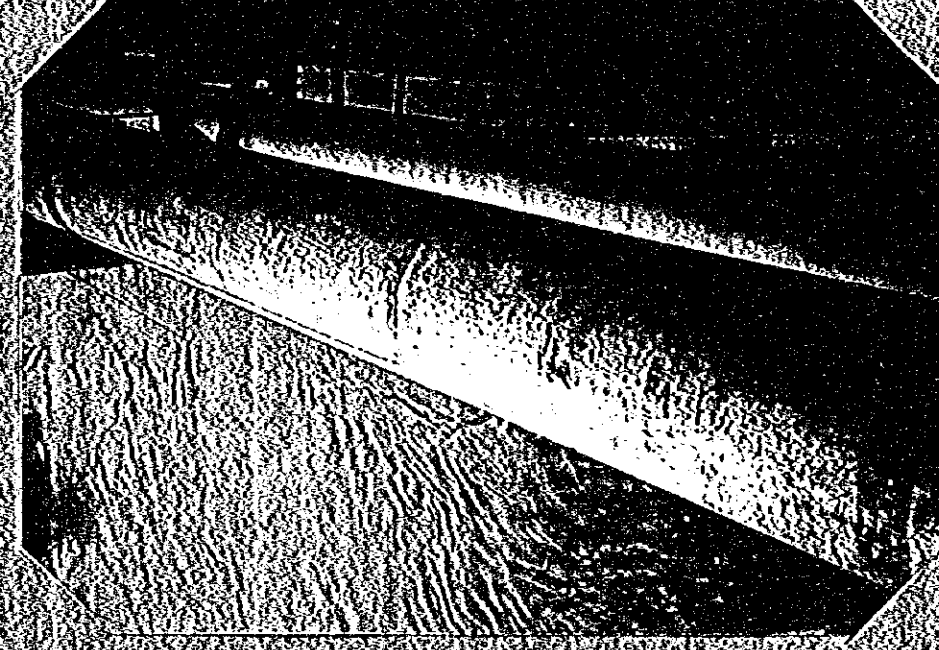
PINANG TUNGGAL



JSO 2
Date : 26th November 94
Time : 10.50am

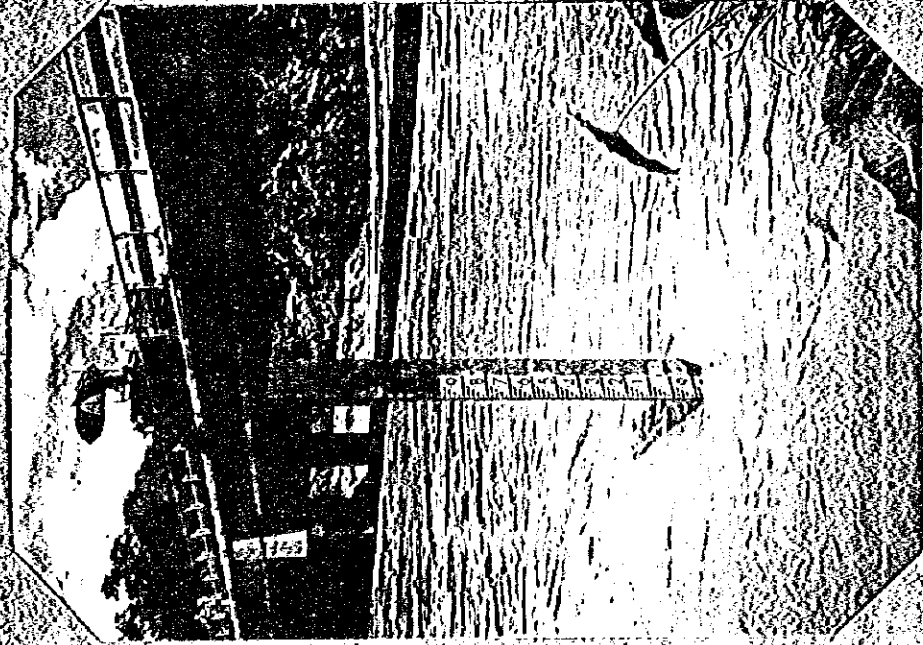


JSO 3
Date : 04th December 94
Time : 8.30am

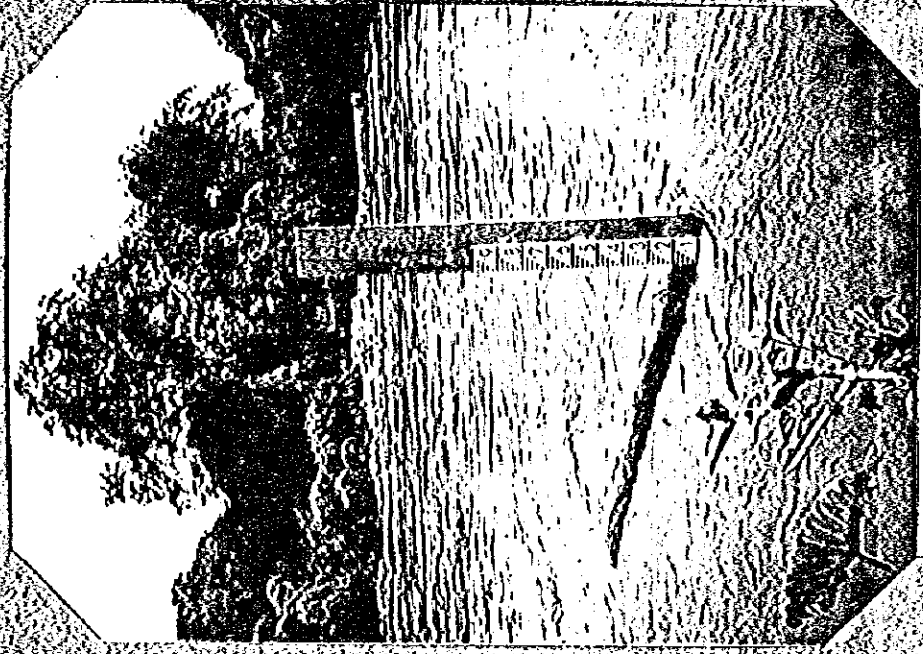


JSO 4
Date : 11th December 94
Time : 9.12am

JAMBATAN SYED OMAR



KT 2
Date : 26th November 94
Time : 1.26pm

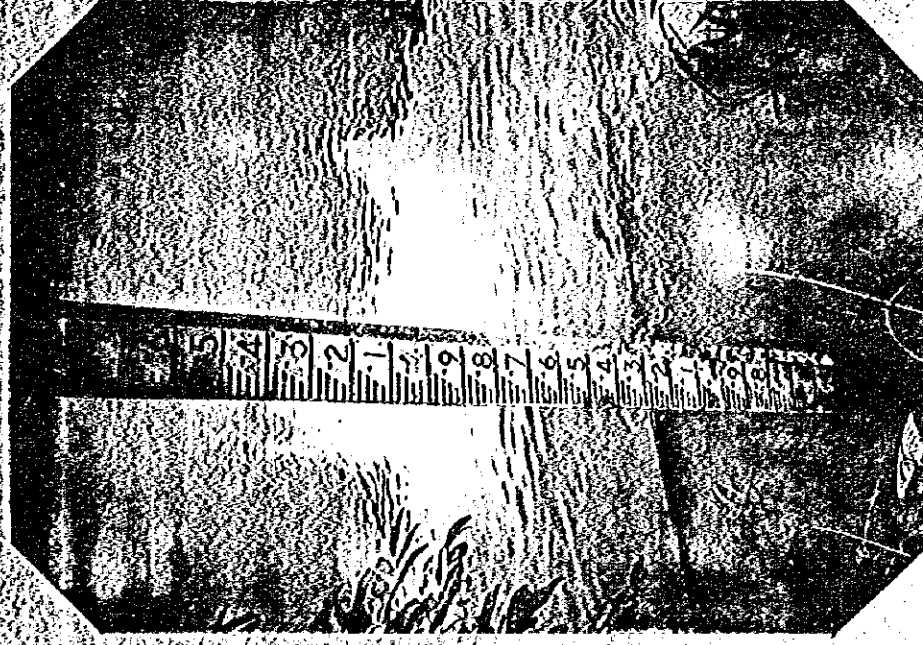


KT 3
Date : 04th December 94
Time : 10.10am



KT 4
Date : 11th December 94
Time : 10.50am

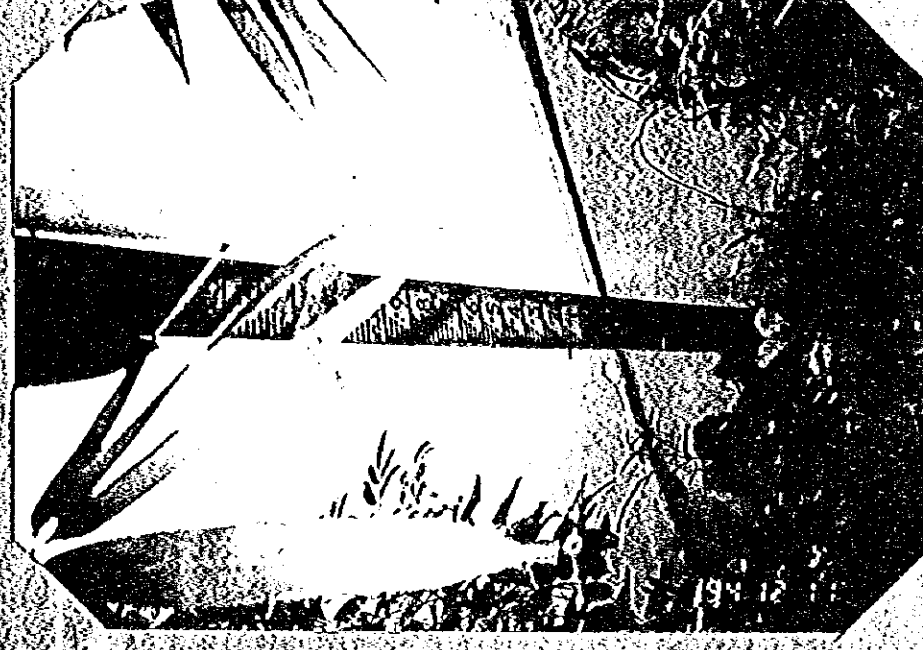
KAMPUNG TIBAN



JN.2
Date : 26th November 94
Time : 3.25pm

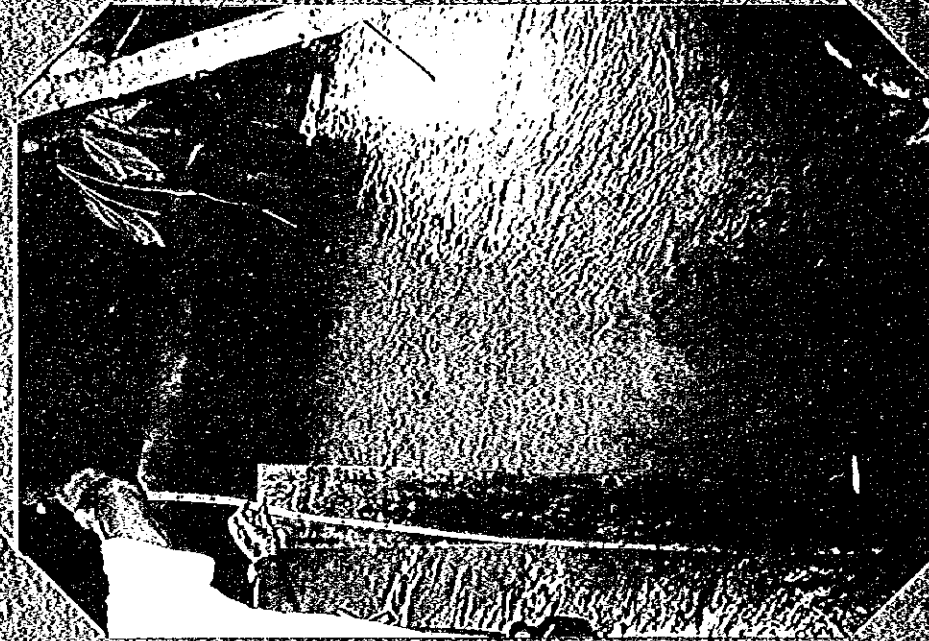


JN 3
Date : 04th December 94
Time : 11.10am



JN 4
Date : 11th December 94
Time : 12pm

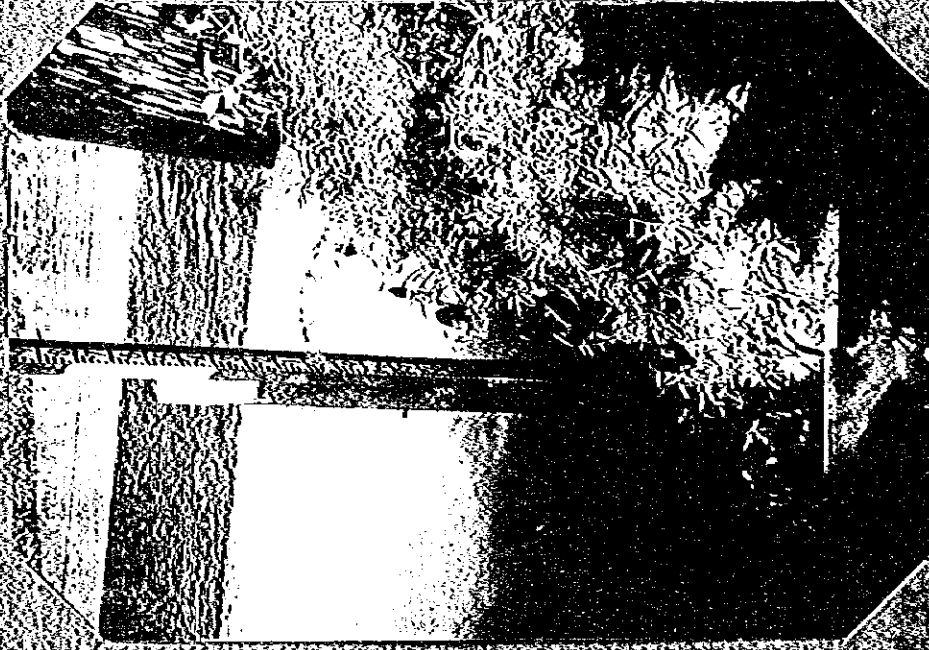
JENIANG



NM 2
Date : 26th November 94
Time : 6.35pm



NM 3
Date : 04th December 94
Time : 1.50pm



NM 4
Date : 11th December 94
Time : 3.30pm

NAMI