

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

Section Two - Attachment Two.
Results of River Bed Sampling..

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

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

SOIL MECHANIC SDN. BHD.
17, LORONG TALANG SATU, PRAI GARDEN, 13600 PRAI, P.M.

Project : M/S. INDERA CONSTRUCTION SDN. BHD.
Location : KANGAR, PERLIS
File No. : SM/L/9411034
Date Tested : 23/11/1994
Tested By : KAHARUI.

SIEVE ANALYSIS

Sample No. : M 1 Weight of dry soil (g) = 50.0

| Sieve No. | Sieve Opening [mm] | Weight of Sieve [g] | Wt. Sieve + Soil [g] | Weight of Soil [g] | Cumulative Retained [g] | Percentage Passing % |
|-----------|--------------------|---------------------|----------------------|--------------------|-------------------------|----------------------|
| 4 | 5.0 | 497.0 | 497.0 | 0.0 | 0.0 | 100.00 |
| 10 | 2.0 | 513.7 | 513.7 | 0.0 | 0.0 | 100.00 |
| 16 | 1.18 | 491.6 | 491.6 | 0.0 | 0.0 | 100.00 |
| 30 | 0.600 | 341.5 | 341.5 | 0.0 | 0.0 | 100.00 |
| 40 | 0.425 | 436.0 | 438.6 | 2.6 | 2.6 | 94.80 |
| 50 | 0.300 | 407.0 | 412.3 | 5.3 | 7.9 | 84.20 |
| 100 | 0.150 | 385.0 | 404.1 | 19.1 | 27.0 | 46.00 |
| 200 | 0.075 | 268.3 | 271.2 | 2.9 | 29.9 | 40.20 |
| Base | | 396.4 | 396.4 | 0 | 29.9 | 40.20 |

Sample No. : M 2 Weight of dry soil (g) = 50.0

| Sieve No. | Sieve Opening [mm] | Weight of Sieve [g] | Wt. Sieve + Soil [g] | Weight of Soil [g] | Cumulative Retained [g] | Percentage Passing % |
|-----------|--------------------|---------------------|----------------------|--------------------|-------------------------|----------------------|
| 4 | 5.0 | 497.0 | 497.0 | 0.0 | 0.0 | 100.00 |
| 10 | 2.0 | 513.7 | 521.9 | 8.2 | 8.2 | 83.60 |
| 16 | 1.18 | 491.6 | 505.2 | 13.6 | 21.8 | 56.40 |
| 30 | 0.600 | 341.5 | 358.1 | 16.6 | 38.4 | 23.20 |
| 40 | 0.425 | 436.0 | 439.8 | 3.8 | 42.2 | 15.60 |
| 50 | 0.300 | 407.0 | 408.0 | 1.0 | 43.2 | 13.60 |
| 100 | 0.150 | 385.0 | 386.4 | 1.4 | 44.6 | 10.80 |
| 200 | 0.075 | 268.3 | 268.6 | 0.3 | 44.9 | 10.20 |
| Base | | 396.4 | 396.4 | 0 | 44.9 | 10.20 |

Sample No. : M 5 Weight of dry soil (g) = 50.0

| Sieve No. | Sieve Opening [mm] | Weight of Sieve [g] | Wt. Sieve + Soil [g] | Weight of Soil [g] | Cumulative Retained [g] | Percentage Passing % |
|-----------|--------------------|---------------------|----------------------|--------------------|-------------------------|----------------------|
| 4 | 5.0 | 497.0 | 497.0 | 0.0 | 0.0 | 100.00 |
| 10 | 2.0 | 513.7 | 513.7 | 0.0 | 0.0 | 100.00 |
| 16 | 1.18 | 491.6 | 491.6 | 0.0 | 0.0 | 100.00 |
| 30 | 0.600 | 341.5 | 341.5 | 0.0 | 0.0 | 100.00 |
| 40 | 0.425 | 436.0 | 436.1 | 0.1 | 0.1 | 99.80 |
| 50 | 0.300 | 407.0 | 407.1 | 0.1 | 0.2 | 99.60 |
| 100 | 0.150 | 385.0 | 385.2 | 0.2 | 0.4 | 99.20 |
| 200 | 0.075 | 268.3 | 268.7 | 0.4 | 0.8 | 98.40 |
| Base | | 396.4 | 396.4 | 0 | 0.8 | 98.40 |

Sample No. : M 7 Weight of dry soil (g) = 50.0

| Sieve No. | Sieve Opening [mm] | Weight of Sieve [g] | Wt. Sieve + Soil [g] | Weight of Soil [g] | Cumulative Retained [g] | Percentage Passing % |
|-----------|--------------------|---------------------|----------------------|--------------------|-------------------------|----------------------|
| 4 | 5.0 | 497.0 | 497.0 | 0.0 | 0.0 | 100.00 |
| 10 | 2.0 | 513.7 | 513.7 | 0.0 | 0.0 | 100.00 |
| 16 | 1.18 | 491.6 | 491.6 | 0.0 | 0.0 | 100.00 |
| 30 | 0.600 | 341.5 | 341.5 | 0.0 | 0.0 | 100.00 |
| 40 | 0.425 | 436.0 | 436.0 | 0.0 | 0.0 | 100.00 |
| 50 | 0.300 | 407.0 | 407.0 | 0.0 | 0.0 | 100.00 |
| 100 | 0.150 | 385.0 | 385.1 | 0.1 | 0.1 | 99.80 |
| 200 | 0.075 | 268.3 | 269.3 | 1.0 | 1.1 | 97.80 |
| Base | | 396.4 | 396.4 | 0 | 1.1 | 97.80 |



SOIL MECHANIC SDN. BHD.
17, LORONG TALANG SATU, PRAT GARDEN, 13600 PRAI.

Tel : 04-399279
Fax : 04-391893

| HYDROMETER TEST | | Date Time | Elapsed Time, t (min) | Hydrometer Reading, Rh' | True Reading, Rh | Correction Reading, R | Effective Depth, Hr (mm) | Particle Diameter D (mm) | Percentage Final, k % |
|--------------------------------|--------------|--------------|-----------------------------|----------------------------|---------------------|--------------------------|--------------------------------|--------------------------------|-----------------------------|
| File No. : | SM/L/9411034 | | | | | | | | |
| Date Tested : | 23/11/94 | | | | | | | | |
| Sample No. : | M 1 | | 0 | | | | | | |
| | | | 0.25 | 11.5 | 12.0 | 12.6 | 182.40 | 0.1033 | 40.29 |
| | | | 0.5 | 10.0 | 10.5 | 11.1 | 188.35 | 0.0742 | 35.41 |
| | | | 1 | 9.0 | 9.5 | 10.1 | 192.31 | 0.0530 | 32.30 |
| Hydrometer No. : | 1 | | 2 | 8.5 | 9.0 | 9.6 | 194.30 | 0.0377 | 30.70 |
| Temperature test, T : | 30.0 C | | 5 | 8.0 | 8.5 | 9.1 | 196.28 | 0.0240 | 29.10 |
| Temperature correction, Mt : | 2.3 | | 10 | 7.5 | 8.0 | 8.6 | 198.26 | 0.0170 | 27.50 |
| Meniscus correction, Cm : | 0.5 | | 15 | 7.0 | 7.5 | 8.1 | 200.25 | 0.0140 | 25.90 |
| Dispersant correction, x : | 3.5 | | 20 | 6.5 | 7.0 | 7.6 | 202.23 | 0.0122 | 24.30 |
| Specific gravity, Gs : | 2.67 | | 30 | 6.0 | 6.5 | 7.1 | 204.21 | 0.0100 | 22.70 |
| Viscosity of water, η : | 0.7982 mPas | | 45 | 5.5 | 6.0 | 6.6 | 206.20 | 0.0082 | 21.10 |
| Mass of dry soil, m : | 50.0 g | | 60 | 5.3 | 5.8 | 6.4 | 206.99 | 0.0071 | 20.46 |
| Density Water Correction, Cv : | 1.0 | | 120 | 5.0 | 5.5 | 6.1 | 208.18 | 0.0050 | 19.51 |
| | | | 240 | 4.8 | 5.3 | 5.9 | 208.97 | 0.0036 | 18.87 |
| | | | 360 | 4.6 | 5.1 | 5.7 | 209.77 | 0.0029 | 18.23 |
| | | | 480 | 4.5 | 5.0 | 5.6 | 210.17 | 0.0025 | 17.91 |

| HYDROMETER TEST | | Date Time | Elapsed Time, t (min) | Hydrometer Reading, Rh' | True Reading, Rh | Correction Reading, R | Effective Depth, Hr (mm) | Particle Diameter D (mm) | Percentage Final, k % |
|--------------------------------|--------------|--------------|-----------------------------|----------------------------|---------------------|--------------------------|--------------------------------|--------------------------------|-----------------------------|
| File No. : | SM/L/9411034 | | | | | | | | |
| Date Tested : | 23/11/1994 | | | | | | | | |
| Sample No. : | M 2 | | 0 | | | | | | |
| | | | 0.25 | 3.0 | 3.5 | 4.1 | 216.12 | 0.1121 | 13.08 |
| | | | 0.5 | 2.0 | 2.5 | 3.1 | 220.08 | 0.0800 | 9.89 |
| | | | 1 | 1.0 | 1.5 | 2.1 | 224.05 | 0.0571 | 6.70 |
| Hydrometer No. : | 2 | | 2 | 0.5 | 1.0 | 1.6 | 226.03 | 0.0405 | 5.10 |
| Temperature test, T : | 30.0 C | | 5 | 0.0 | 0.5 | 1.1 | 228.02 | 0.0257 | 3.51 |
| Temperature correction, Mt : | 2.3 | | 10 | -0.1 | 0.4 | 1.0 | 228.41 | 0.0182 | 3.19 |
| Meniscus correction, Cm : | 0.5 | | 15 | -0.1 | 0.4 | 1.0 | 228.41 | 0.0149 | 3.19 |
| Dispersant correction, x : | 3.5 | | 20 | -0.1 | 0.4 | 1.0 | 228.41 | 0.0129 | 3.19 |
| Specific gravity, Gs : | 2.68 | | 30 | -0.2 | 0.4 | 1.0 | 228.61 | 0.0105 | 3.03 |
| Viscosity of water, η : | 0.7982 mPas | | 45 | -0.2 | 0.3 | 0.9 | 228.81 | 0.0086 | 2.87 |
| Mass of dry soil, m : | 50.0 g | | 60 | -0.2 | 0.3 | 0.9 | 228.81 | 0.0074 | 2.87 |
| Density Water Correction, Cv : | 1.0 | | 120 | -0.3 | 0.2 | 0.8 | 229.21 | 0.0053 | 2.55 |
| | | | 240 | -0.3 | 0.2 | 0.8 | 229.21 | 0.0037 | 2.55 |
| | | | 360 | -0.3 | 0.2 | 0.8 | 229.21 | 0.0030 | 2.55 |
| | | | 480 | -0.3 | 0.2 | 0.8 | 229.21 | 0.0024 | 2.55 |

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| HYDROMETER TEST | | Date Time | Elapsed Time, t (min) | Hydrometer Reading, Rh' | True Reading, Rh | Correction Reading, R | Effective Depth, Hr (mm) | Particle Diameter D (mm) | Percentage Final, k % |
|--------------------------------|--------------|--------------|-----------------------------|----------------------------|---------------------|--------------------------|--------------------------------|--------------------------------|-----------------------------|
| File No. : | SM/L/9411034 | | | | | | | | |
| Date Tested : | 23/11/94 | | | | | | | | |
| Sample No. : | M 5 | | 0 | | | | | | |
| | | | 0.25 | 29.0 | 29.5 | 30.1 | 112.17 | 0.0813 | 36.25 |
| | | | 0.5 | 28.0 | 28.5 | 29.1 | 116.14 | 0.0585 | 33.05 |
| | | | 1 | 27.0 | 27.5 | 28.1 | 120.11 | 0.0420 | 29.85 |
| Hydrometer No. : | 1 | | 2 | 26.0 | 26.5 | 27.1 | 124.07 | 0.0302 | 26.66 |
| Temperature test, T : | 30.0 C | | 5 | 24.0 | 24.5 | 25.1 | 132.81 | 0.0197 | 20.26 |
| Temperature correction, Mt : | 2.3 | | 10 | 22.0 | 22.5 | 23.1 | 140.74 | 0.0143 | 17.86 |
| Meniscus correction, Cm : | 0.5 | | 15 | 20.0 | 20.5 | 21.1 | 148.68 | 0.0120 | 16.47 |
| Dispersant correction, x : | 3.5 | | 20 | 19.0 | 19.5 | 20.1 | 152.64 | 0.0104 | 15.27 |
| Specific gravity, Gs : | 2.65 | | 30 | 18.0 | 18.5 | 19.1 | 156.61 | 0.0087 | 14.07 |
| Viscosity of water, η : | 0.7982 mPas | | 45 | 17.5 | 18.0 | 18.6 | 158.59 | 0.0072 | 13.46 |
| Mass of dry soil, m : | 50.0 g | | 60 | 17.0 | 17.5 | 18.1 | 160.59 | 0.0063 | 12.89 |
| Density Water Correction, Cv : | 1.0 | | 120 | 16.0 | 16.5 | 17.1 | 164.54 | 0.0045 | 12.48 |
| | | | 240 | 15.5 | 16.0 | 16.6 | 166.53 | 0.0032 | 12.08 |
| | | | 360 | 15.0 | 15.5 | 16.1 | 168.51 | 0.0026 | 11.68 |
| | | | 480 | 14.8 | 15.3 | 15.9 | 169.30 | 0.0023 | 11.44 |

| HYDROMETER TEST | | Date Time | Elapsed Time, t (min) | Hydrometer Reading, Rh' | True Reading, Rh | Correction Reading, R | Effective Depth, Hr (mm) | Particle Diameter D (mm) | Percentage Final, k % |
|--------------------------------|--------------|--------------|-----------------------------|----------------------------|---------------------|--------------------------|--------------------------------|--------------------------------|-----------------------------|
| File No. : | SM/L/9411034 | | | | | | | | |
| Date Tested : | 23/11/1994 | | | | | | | | |
| Sample No. : | M 7 | | 0 | | | | | | |
| | | | 0.25 | 28.0 | 28.5 | 29.1 | 116.14 | 0.0825 | 32.84 |
| | | | 0.5 | 26.0 | 26.5 | 27.1 | 124.07 | 0.0602 | 28.44 |
| | | | 1 | 24.0 | 24.5 | 25.1 | 132.81 | 0.0439 | 23.08 |
| Hydrometer No. : | 2 | | 2 | 22.0 | 22.5 | 23.1 | 140.74 | 0.0370 | 19.70 |
| Temperature test, T : | 30.0 C | | 5 | 21.0 | 21.5 | 22.1 | 144.71 | 0.0205 | 17.51 |
| Temperature correction, Mt : | 2.3 | | 10 | 20.0 | 20.5 | 21.1 | 148.68 | 0.0147 | 16.32 |
| Meniscus correction, Cm : | 0.5 | | 15 | 19.0 | 19.5 | 20.1 | 152.64 | 0.0122 | 15.13 |
| Dispersant correction, x : | 3.5 | | 20 | 18.0 | 18.5 | 19.1 | 156.61 | 0.0107 | 14.04 |
| Specific gravity, Gs : | 2.62 | | 30 | 17.5 | 18.0 | 18.6 | 158.59 | 0.0083 | 13.34 |
| Viscosity of water, η : | 0.7982 mPas | | 45 | 17.0 | 17.5 | 18.1 | 160.59 | 0.0072 | 12.75 |
| Mass of dry soil, m : | 50.0 g | | 60 | 16.5 | 17.0 | 17.6 | 162.56 | 0.0063 | 12.15 |
| Density Water Correction, Cv : | 1.0 | | 120 | 16.0 | 16.5 | 17.1 | 164.54 | 0.0045 | 11.54 |
| | | | 240 | 15.8 | 16.3 | 16.9 | 166.53 | 0.0032 | 11.12 |
| | | | 360 | 15.6 | 16.1 | 16.7 | 168.51 | 0.0026 | 10.70 |
| | | | 480 | 15.5 | 16.0 | 16.6 | 169.30 | 0.0022 | 10.46 |



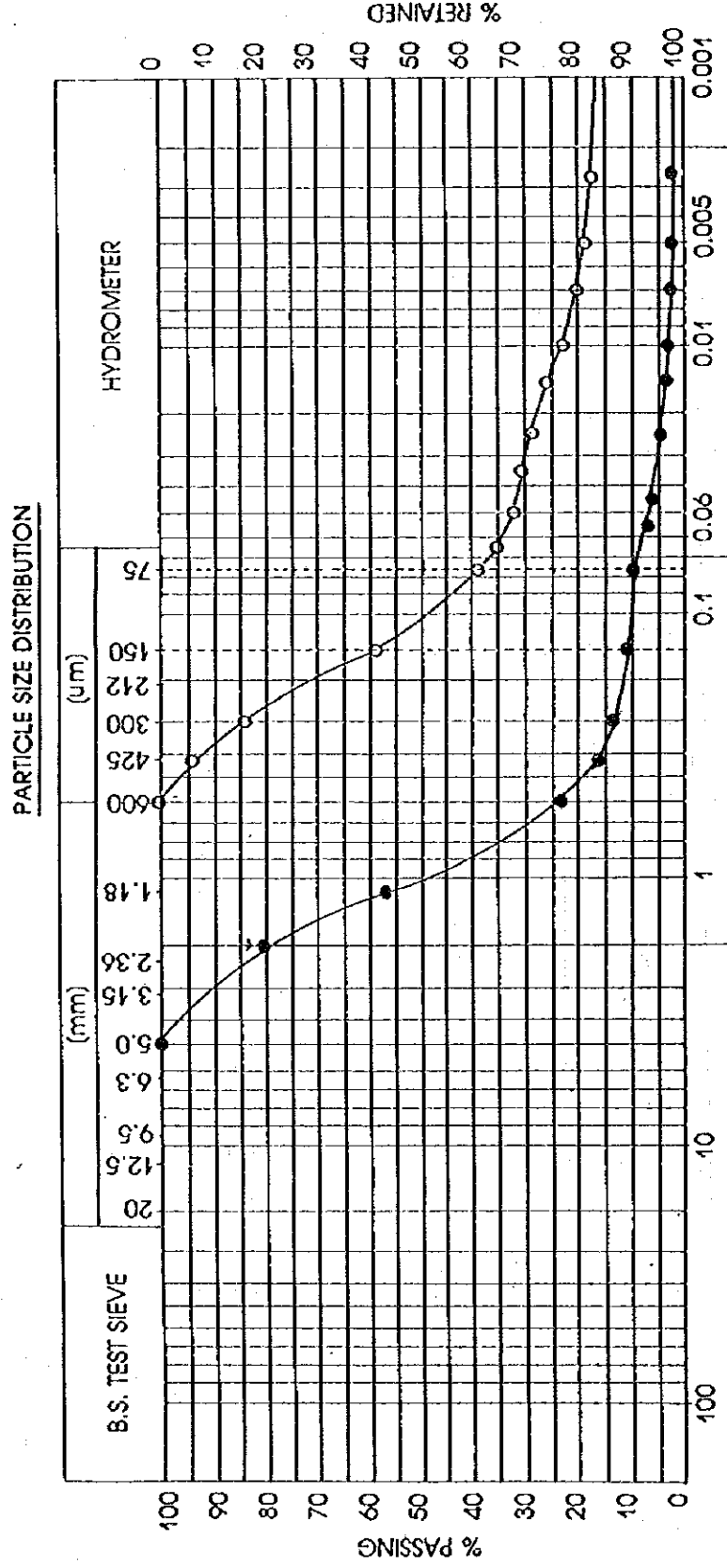


SOIL MECHANIC SDN BHD

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TEL: 04-309279

| | | | | | |
|------------|----------------------|-------------------------|-----------------------------|-----------|----------|
| HOLE NO: | | VISUAL SOIL DESCRIPTION | | TESTED BY | DATE |
| SAMPLE NO. | SAMPLE DEPTH From To | NOTATION | | Kamarul | 23/11/94 |
| M1 | | ○ | Brownish sandy clayey SILT. | | |
| M2 | | ● | Dark grey silty SAND. | Kamarul | 23/11/94 |

PROJECT M/S. INDERA CONSTRUCTION SDN. BHD.
 LOCATION KANGAR, PERLIS.
 LAB. REF SN/L/9411034



| | | | | |
|------|----------|--------|--------|--------|
| ASTM | GRAVEL % | SAND % | SILT % | CLAY % |
| ○ | - | 61 | 22 | 17 |
| ● | 20 | 70 | 8 | 2 |

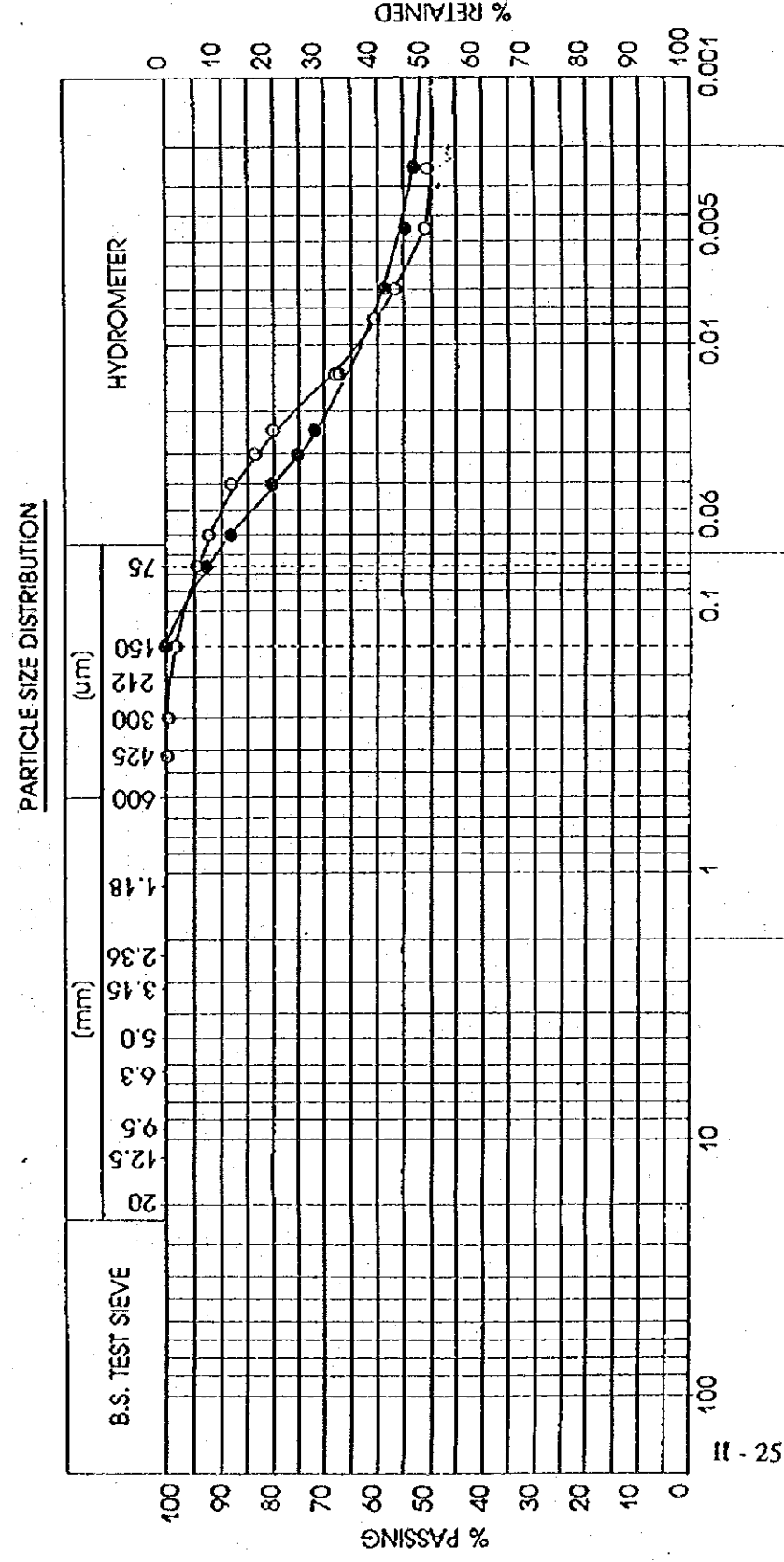


SOIL MECHANIC SDN BHD

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TEL: 04-309279

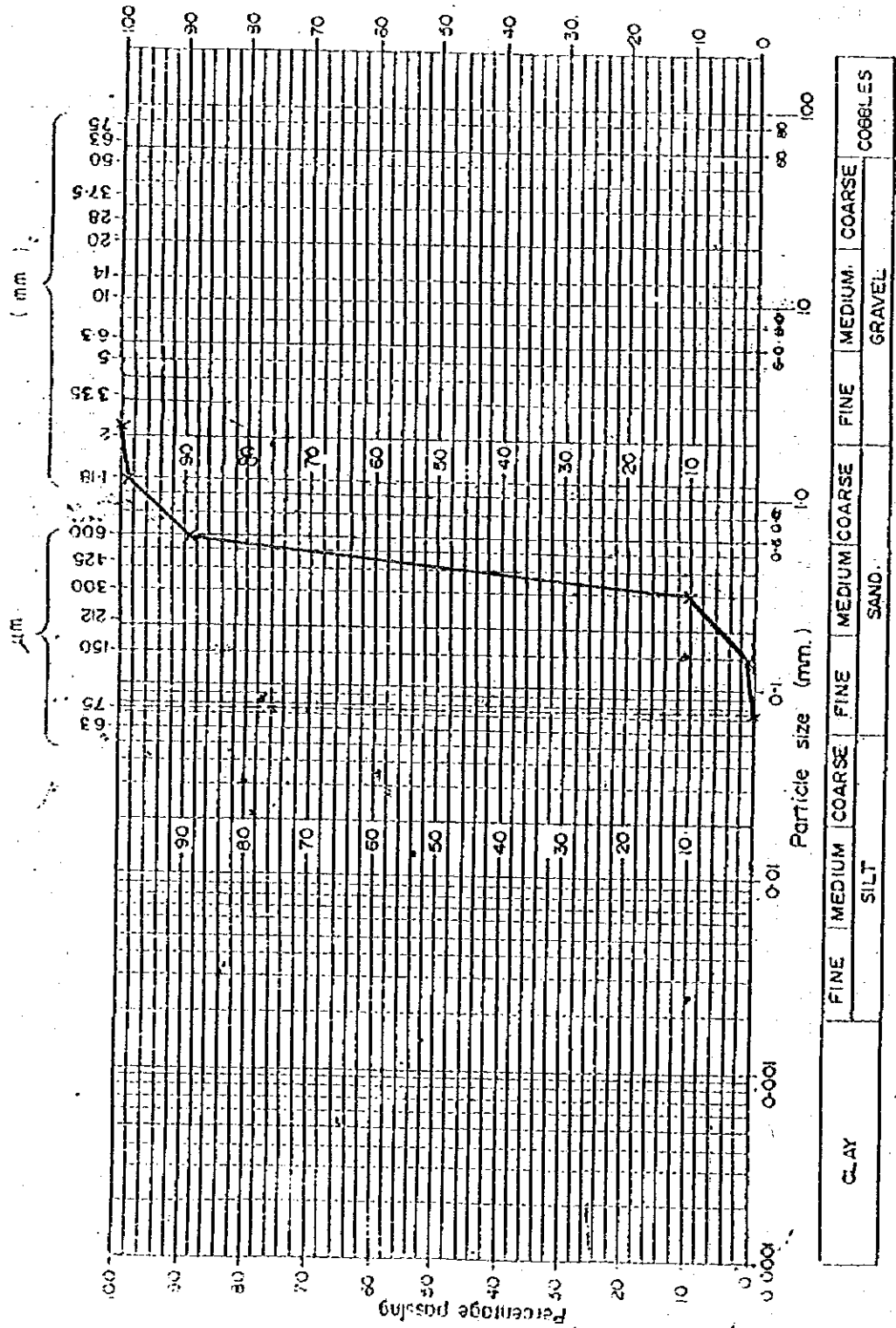
| | | | | | |
|------------|----------------------|-------------------------|-----------------------|-----------|----------|
| HOLE NO: | | VISUAL SOIL DESCRIPTION | | TESTED BY | DATE |
| SAMPLE NO. | SAMPLE DEPTH From To | NOTATION | | Kamarul | 23/11/94 |
| M5 | | ○ | Dark grey silty CLAY. | | |
| M7 | | ● | Yellowish silty CLAY. | Kamarul | 23/11/94 |

PROJECT M/S. INDERA CONSTRUCTION SDN. BHD.
 LOCATION KANGAR, PERLIS.
 LAB. REF SN/L/9411034



| | | | | |
|------|----------|--------|--------|--------|
| ASTM | GRAVEL % | SAND % | SILT % | CLAY % |
| ○ | - | 6 | 44 | 50 |
| ● | - | 7 | 41 | 52 |





Operator: **Jais/Sabri**
 Date: **15/11/94**
 Location: **M3**
 Sample No: **M3**
 Description of soil: **BROWNISH SAND**
 Job: **British Standard Test Sieves**

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

Form G

Particle size distribution

Wet/Dry sieving method

Operator: **Jais/Sabri**

Job:

Site:

Date: **15/11/94**

Borehole No:

Description of soil:

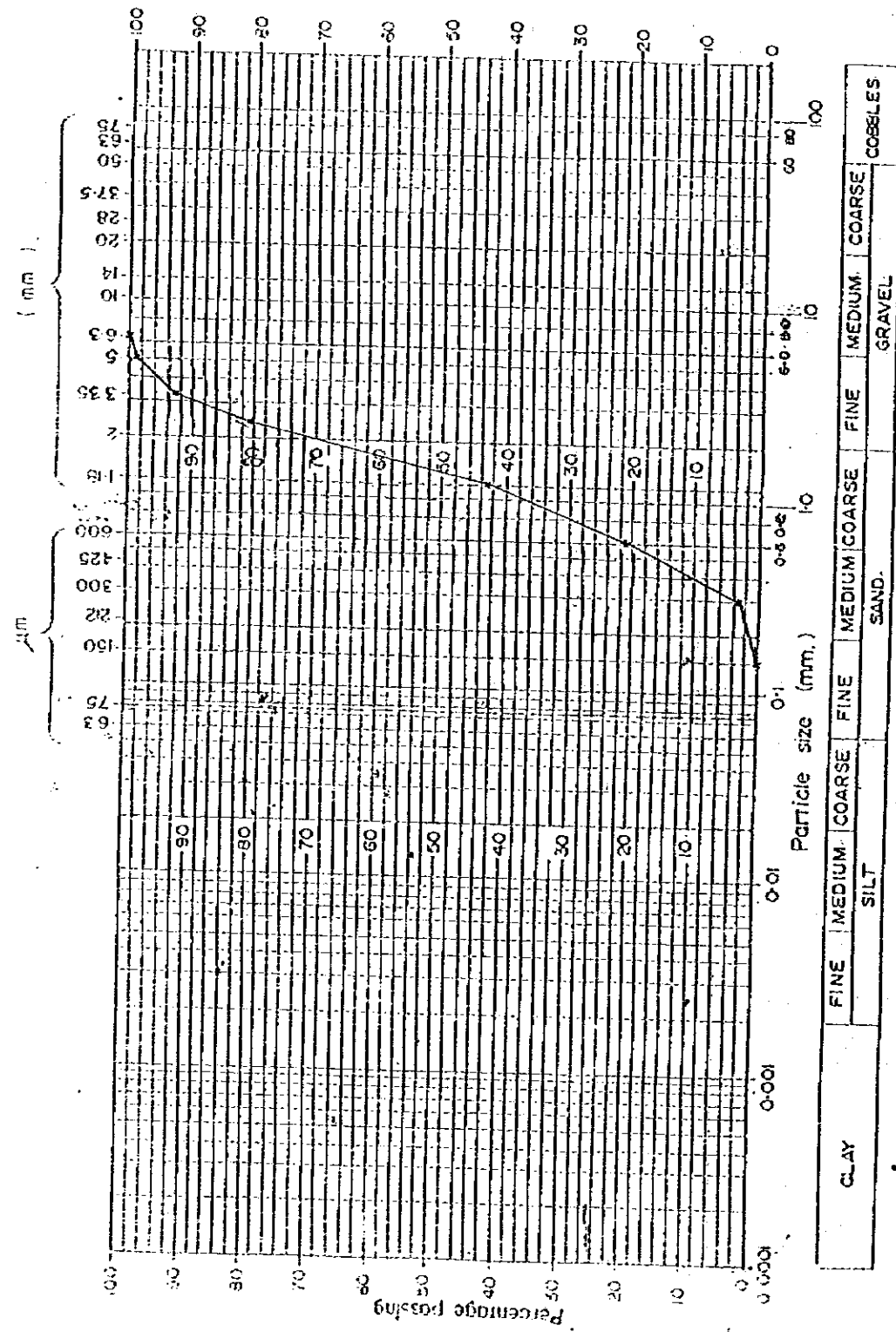
Sample No: **M3**

Total mass of dry sample (m_1): **400** 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 | | | 8 |
| 37.5 mm | | | | | 4500 |
| 28 mm | | | | | 3500 |
| 25 mm | | | | | 2500 |
| 20 mm | | | | | 2000 |
| 14 mm | | | | | |
| 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 | 16 | | 1.14 | 98.7 | 100 |
| 600 µm | 138 | | 9.86 | 88.0 | 75 |
| 425 µm | | | | | 75 |
| 300 µm | 1100 | | 78.57 | 10.43 | 50 |
| 212 µm | | | | | 50 |
| 150 µm | 136 | | 9.71 | 6.72 | 40 |
| 75 µm | 8 | | 0.57 | 0.15 | 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: *Jays / Sabri*

Date: *16/11/94*

Description of soil: *BROWNISH SAND*

Job:

Location:

Sample No: *M-4*

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: *M-11*

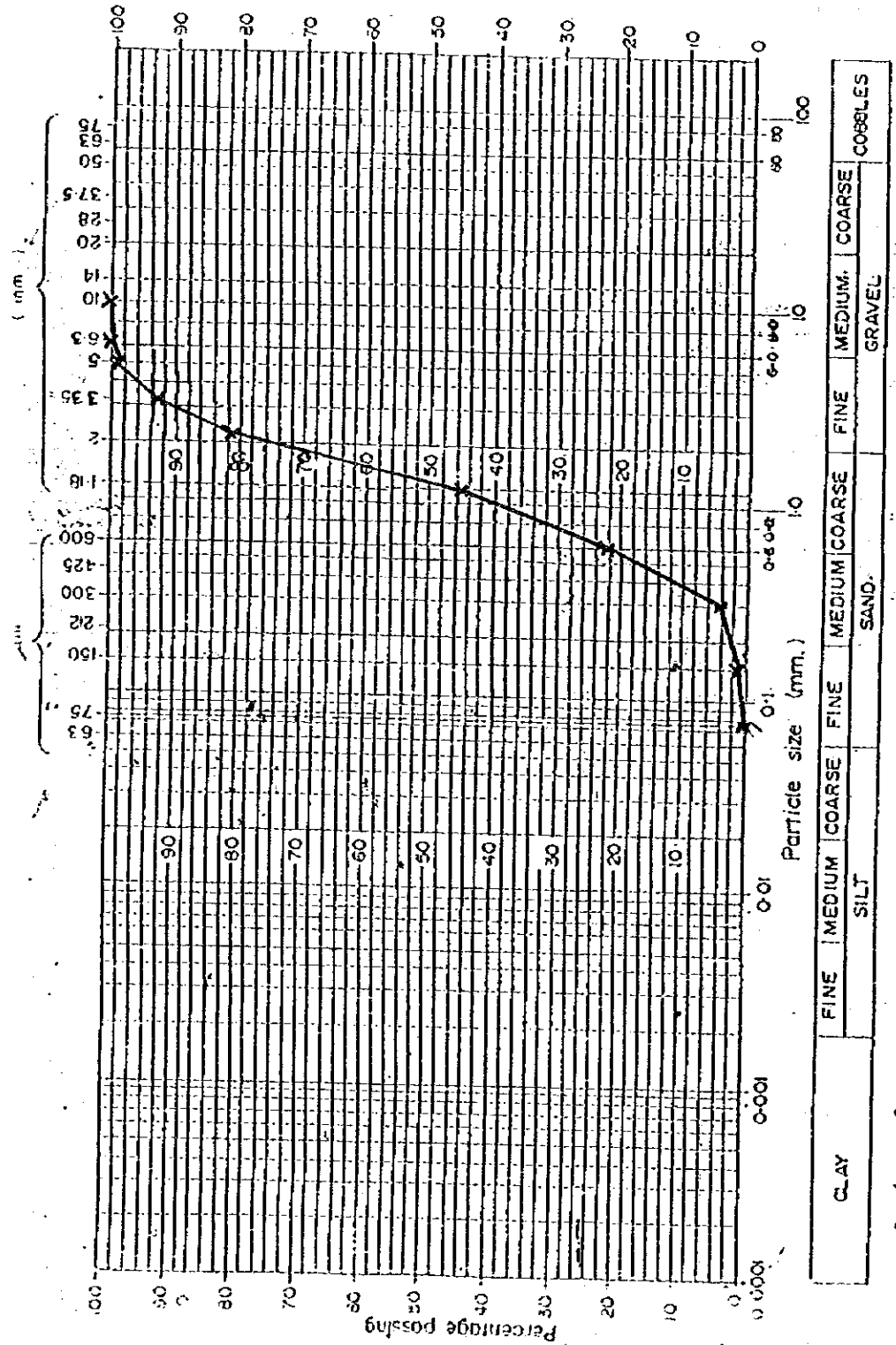
Total mass of dry sample (m_1) *1310* g

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) 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 | | | | 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 | 18 | | 1.37 | 98.6 | 500 |
| 3.35 mm | 80 | | 6.11 | 92.5 | 300 |
| 2.36 mm | 160 | | 12.21 | 80.3 | 200 |
| 1.18 mm | 490 | | 37.40 | 42.9 | 100 |
| 600 μm | 290 | | 22.14 | 20.6 | 75 |
| 425 μm | | | | | 75 |
| 300 μm | 234 | | 17.86 | 2.9 | 50 |
| 212 μm | | | | | 50 |
| 150 μm | 38 | | 2.90 | 0.0 | 40 |
| 75 μm | | | | | 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: **15/11/94**
 Location: **M6**
 Sample No.: **M6**
 Description of soil: **REDDISH BROWN GRAVELLY SAND**
 British Standard Test Sieves:
GRADING CURVE (FORM 'G' OF BS 1377 : 1975)

Form G

Particle size distribution

Wet/Dry sieving method

Operator: **Jais/Sabri**

Job:

Site:

Date: **15/11/94**

Borehole No:

Description of soil:

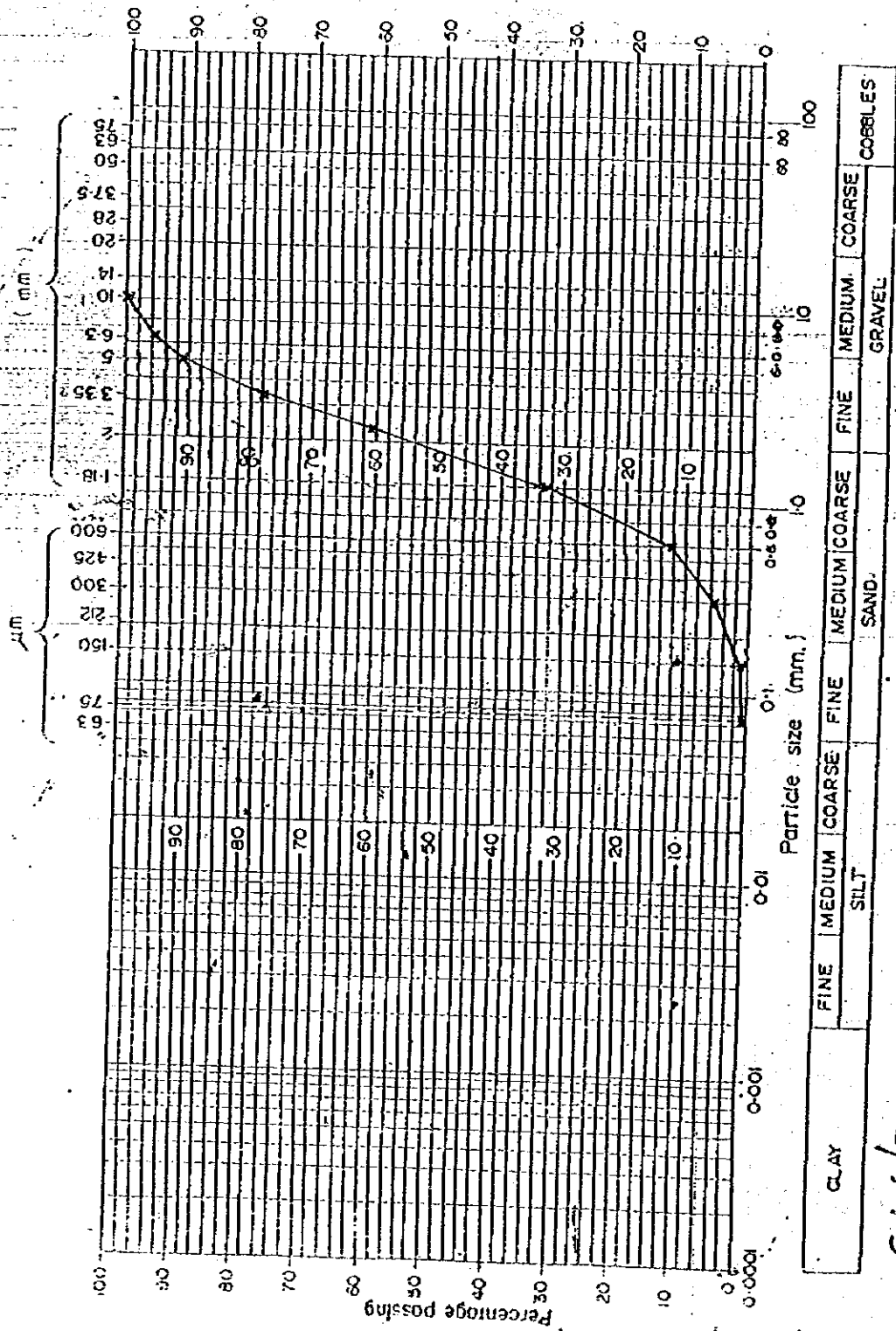
Sample No: **M6**

Total mass of dry sample (m_1): **1452** 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 | | | 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 | 0 | | 0 | 100 | 1000 |
| 6.3 mm | 6 | | 0.41 | 99.6 | 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 | 12 | | 0.83 | 98.8 | 500 |
| 3.35 mm | 78 | | 5.37 | 93.4 | 300 |
| 2.36 mm | 182 | | 12.53 | 80.9 | 200 |
| 1.18 mm | 524 | | 36.09 | 44.8 | 100 |
| 600 μm | 332 | | 22.87 | 21.9 | 75 |
| 425 μm | - | | - | - | 75 |
| 300 μm | 264 | | 18.18 | 3.1 | 50 |
| 212 μm | - | | - | - | 50 |
| 150 μm | 50 | | 3.44 | 0.28 | 40 |
| 75 μm | 2 | | 0.14 | 0.14 | 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 / Jals

Date: 16/11/94

Description of soil: LIGHT GREY GRAVELLY SAND

Job:

Location:

Sample No: M-8

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: M8

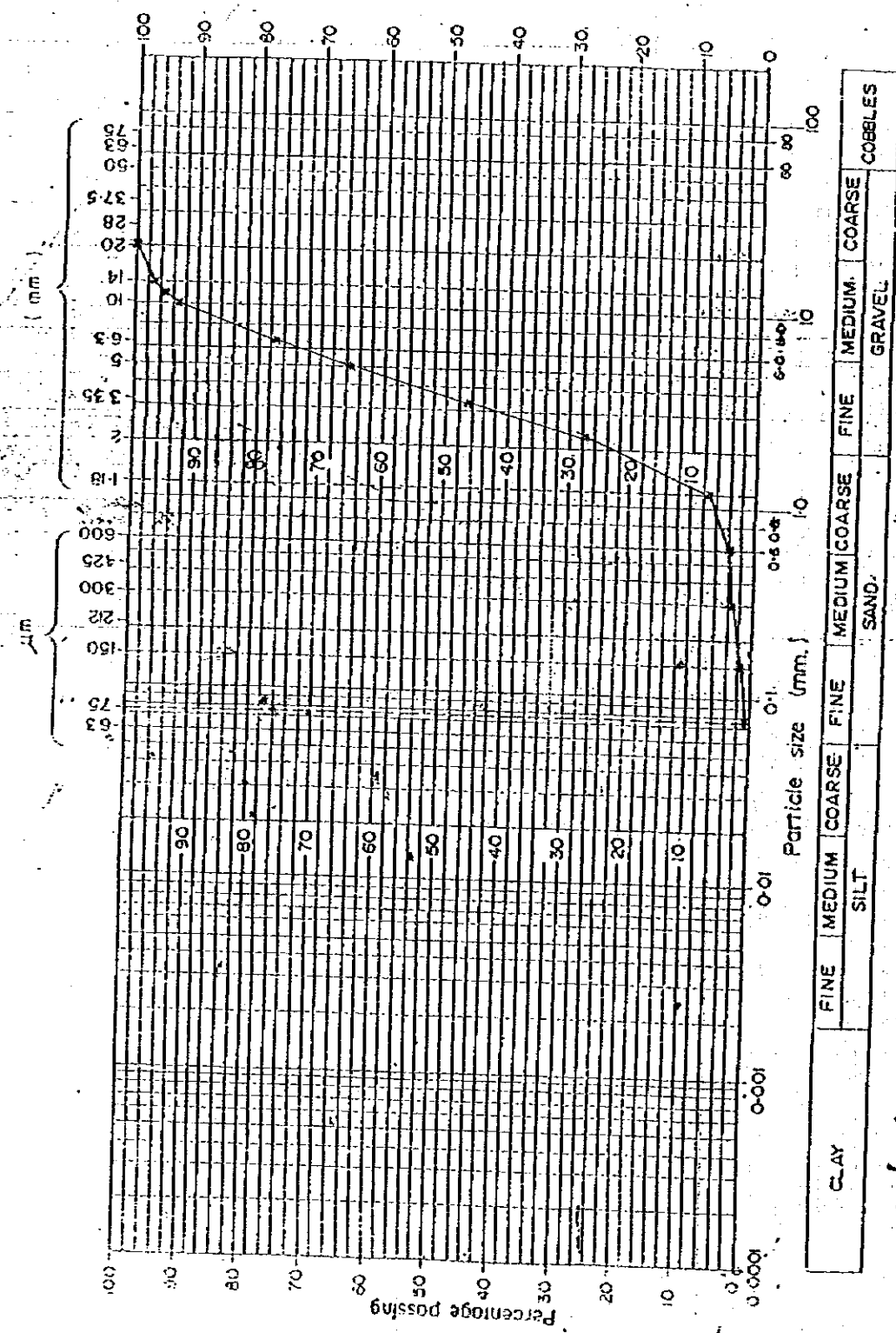
Total mass of dry sample (m_1) 440 g

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 | | | 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 | | | | | 1000 |
| 6.3 mm | 20 | | 4.55 | 95.5 | 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 | 20 | | 4.55 | 90.9 | 500 |
| 3.35 mm | 98 | | 13.18 | 77.7 | 300 |
| 2.36 mm | 76 | | 17.27 | 60.5 | 200 |
| 1.18 mm | 22 | | 27.73 | 32.7 | 100 |
| 600 μm | 90 | | 20.45 | 12.3 | 75 |
| 425 μm | | | | | 75 |
| 300 μm | 30 | | 6.82 | 5.5 | 50 |
| 212 μm | | | | | 50 |
| 150 μm | 20 | | 4.55 | 0.9 | 40 |
| 75 μm | 2 | | 0.45 | 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: Jays/Sabri
 Date: 16/11/94
 Location: Job:
 Sample No: M-10
 Description of soil: REDDISH LATERITIC GRAVEL
 British Standard Test Sieves

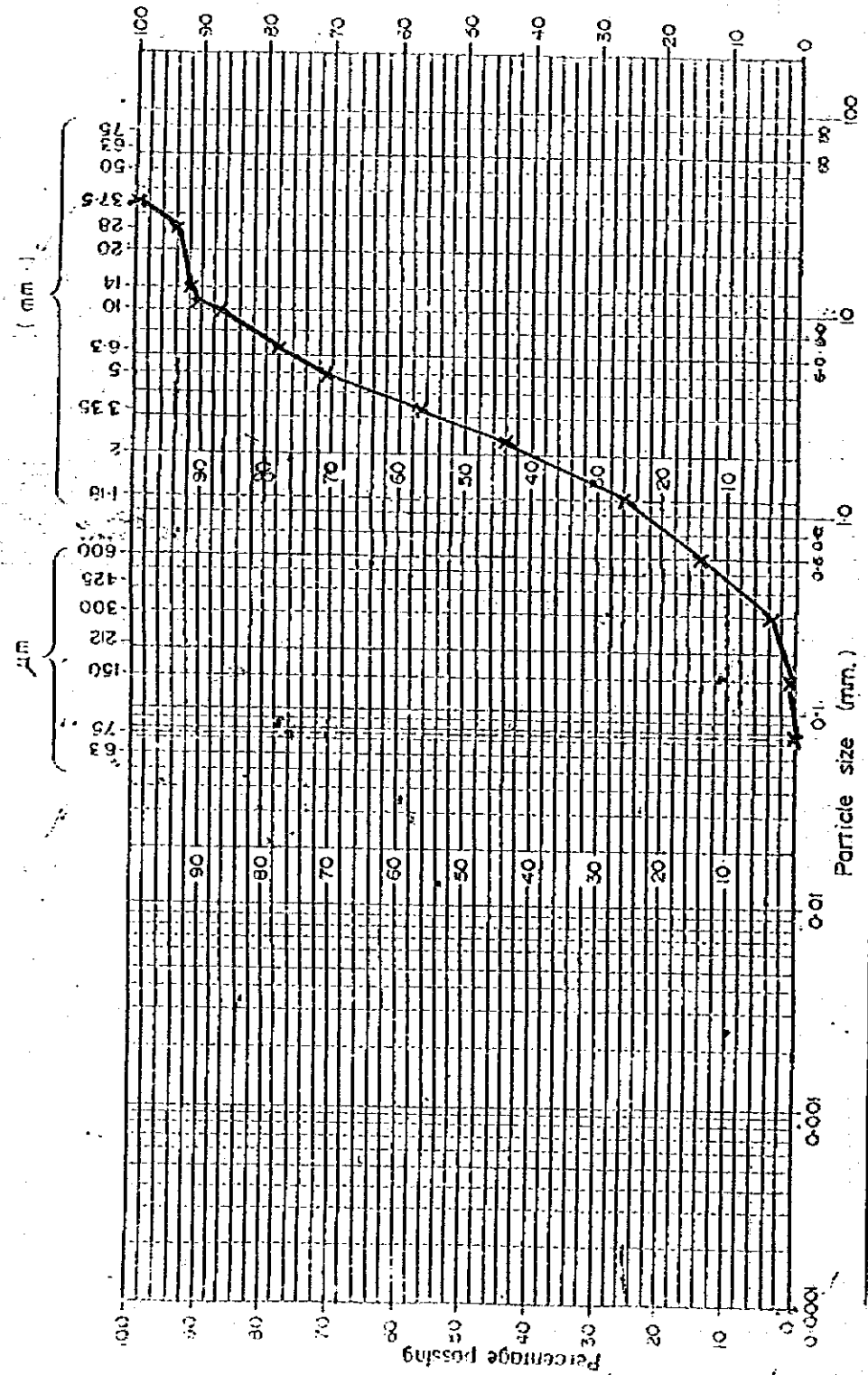
GRADING CURVE (FORM 'G' OF BS 1377: 1975)

Form G
 Particle size distribution
 Wet/Dry* sieving method

Operator: Job: Site:
 Date: Borehole No:
 Description of soil: Sample No: M10
 Total mass of dry sample (m₁): 1290 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 |
| 37.5 mm | | | | | |
| 28 mm | | | | | 4500 |
| 25 mm | | | | | 3500 |
| 20 mm | 0 | | 0 | 100 | 2500 |
| 14 mm | 36 | | 2.79 | 97.2 | 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 X mass retained | | | |
| 12.5 mm | 22 | | 1.71 | 95.5 | 1500 |
| 10 mm | 28 | | 2.17 | 93.3 | 1000 |
| 6.3 mm | 210 | | 16.28 | 77.1 | 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 X mass retained | | | |
| 5 mm | 150 | | 11.63 | 65.4 | 500 |
| 3.35 mm | 248 | | 19.22 | 46.2 | 300 |
| 236 μm | 238 | | 18.45 | 27.8 | 200 |
| 1.18 mm | 262 | | 20.31 | 7.4 | 100 |
| 600 μm | 114 | | 8.81 | 4.0 | 75 |
| 425 μm | - | | - | - | 75 |
| 300 μm | 16 | | 1.24 | 2.8 | 50 |
| 212 μm | - | | - | - | 50 |
| 150 μm | 12 | | 0.93 | 1.9 | 40 |
| 75 μm | 14 | | 1.08 | 0.8 | 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.



CLAY FINE MEDIUM COARSE FINE MEDIUM COARSE SAND FINE MEDIUM COARSE GRAVEL COBBLES

Operator: **Jais/Sabri**
 Date: **15/11/94**
 Location: **M11**
 Sample No: **M11**
 Description of soil: **BROWNISH SANDY GRAVEL**
 British Standard Test Sieves

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

Form G

Particle size distribution

Wet/Dry sieving method

Operator **Jais/Sabri**

Job:

Site:

Date: **15/11/94**

Borehole No:

Description of soil:

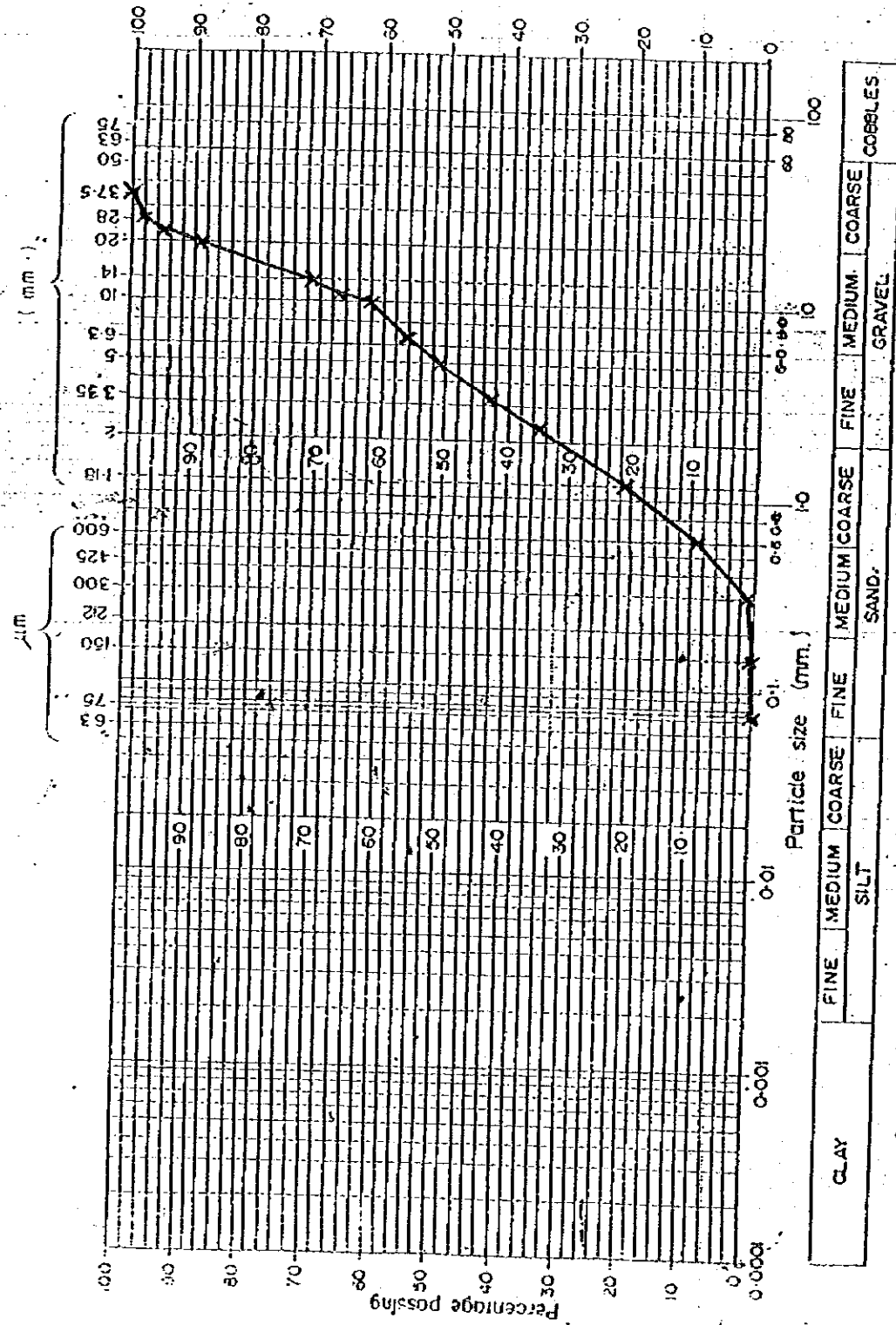
Sample No: **M11**

Total mass of dry sample (m_1) **1006** 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 | 0 | | 0 | 100 | |
| 37.5 mm | 56 | | 5.57 | 94.4 | 4500 |
| 28 mm | - | | - | - | 3500 |
| 25 mm | - | | - | - | 2500 |
| 20 mm | 28 | | 2.78 | 91.7 | 2000 |
| 14 mm | - | | - | - | |
| 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 | 8 | | 0.80 | 90.9 | 1500 |
| 10 mm | 40 | | 3.98 | 86.9 | 1000 |
| 6.3 mm | 88 | | 8.75 | 78.1 | 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 $C_2 \times \text{mass retained}$ | | | |
| 5 mm | 70 | | 6.96 | 71.2 | 500 |
| 3.35 mm | 144 | | 14.31 | 56.9 | 300 |
| 2.36 mm | 130 | | 12.92 | 43.9 | 200 |
| 1.18 mm | 184 | | 18.29 | 25.6 | 100 |
| 600 μm | 120 | | 11.93 | 13.71 | 75 |
| 425 μm | - | | - | - | 75 |
| 300 μm | 102 | | 10.14 | 3.6 | 50 |
| 212 μm | - | | - | - | 50 |
| 150 μm | 26 | | 2.58 | 0.99 | 40 |
| 75 μm | 6 | | 0.60 | 0.4 | 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 / JMS**
 Date: **16/11/94**
 Location: **M 12**
 Sample No: **M 12**
 Description of soil: **LIGHT GREY SANDY GRAVEL WITH SILT**
 British Standard Test Sieves

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

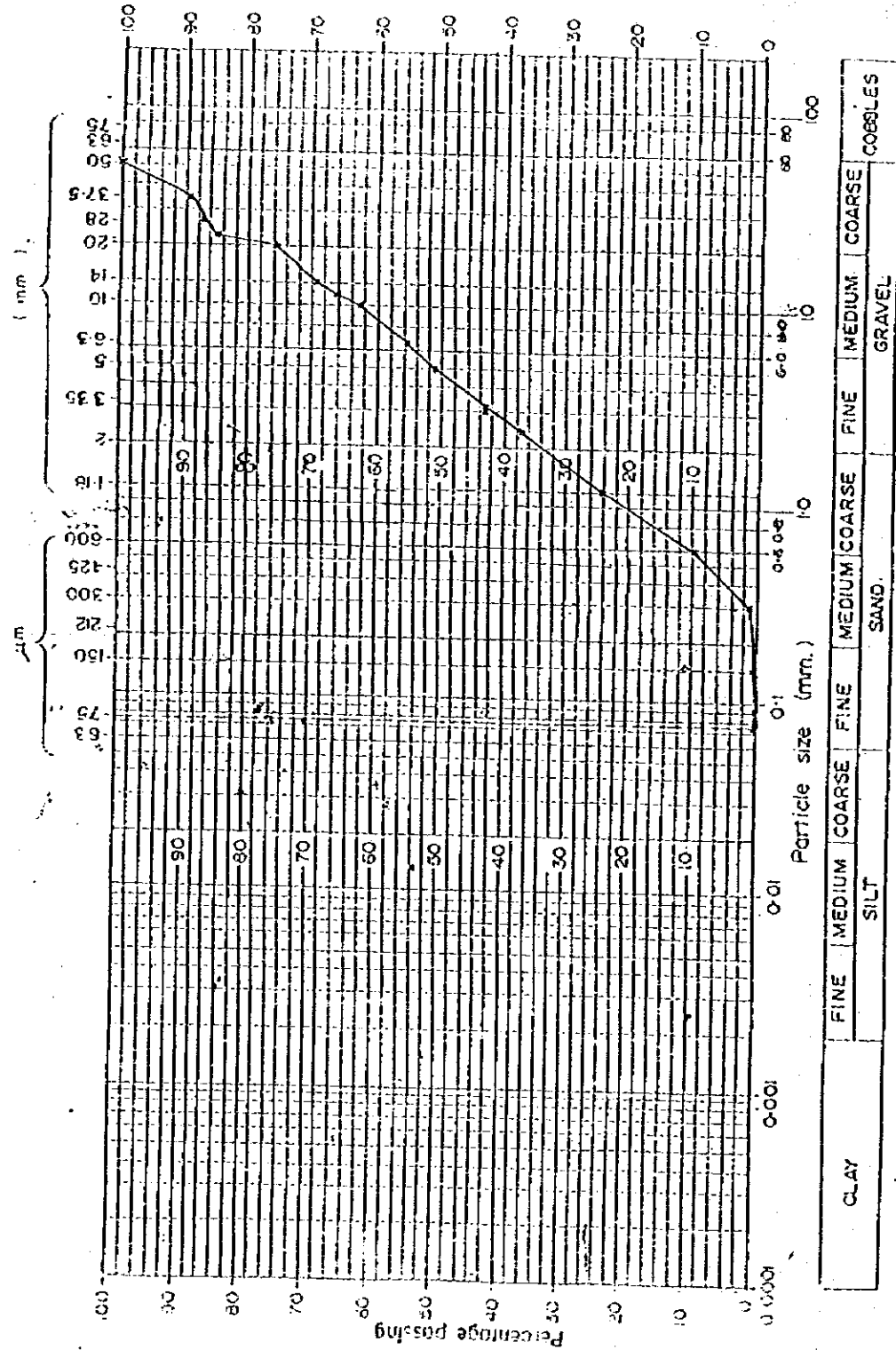
Form G
 Particle size distribution

Wet/Dry sieving method

Operator: _____ Job: _____ Site: _____
 Date: _____ Borehole No: _____
 Description of soil: _____ Sample No: **M 12**
 Total mass of dry sample (m_1): **2736** 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 | | | 8 |
| 37.5 mm | 0 | | 0 | 100 | |
| 28 mm | 48 | | 1.75 | 98.3 | 4500 |
| 25 mm | 84 | | 3.07 | 95.2 | 3500 |
| 20 mm | 176 | | 6.43 | 88.8 | 2500 |
| 14 mm | 496 | | 18.13 | 70.7 | 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 | 114 | | 4.17 | 66.5 | 1500 |
| 10 mm | 128 | | 4.68 | 61.8 | 1000 |
| 6.3 mm | 172 | | 6.29 | 55.5 | 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 | 118 | | 4.31 | 51.2 | 500 |
| 3.35 mm | 214 | | 7.82 | 43.4 | 300 |
| 2.36 mm | 222 | | 8.11 | 35.3 | 200 |
| 1.18 mm | 392 | | 14.33 | 21.0 | 100 |
| 600 μm | 332 | | 12.13 | 8.8 | 75 |
| 425 μm | | | | 0.9 | 75 |
| 300 μm | 218 | | 7.97 | 0.9 | 50 |
| 212 μm | | | | 0.3 | 50 |
| 150 μm | 16 | | 0.58 | 0.3 | 40 |
| 75 μm | 6 | | 0.22 | 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: Jais/Sabri
 Date: 16/11/94
 Location: M-13
 Sample No: M-13
 Description of soil: BROWNISH SANDY GRAVEL
 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: M-13

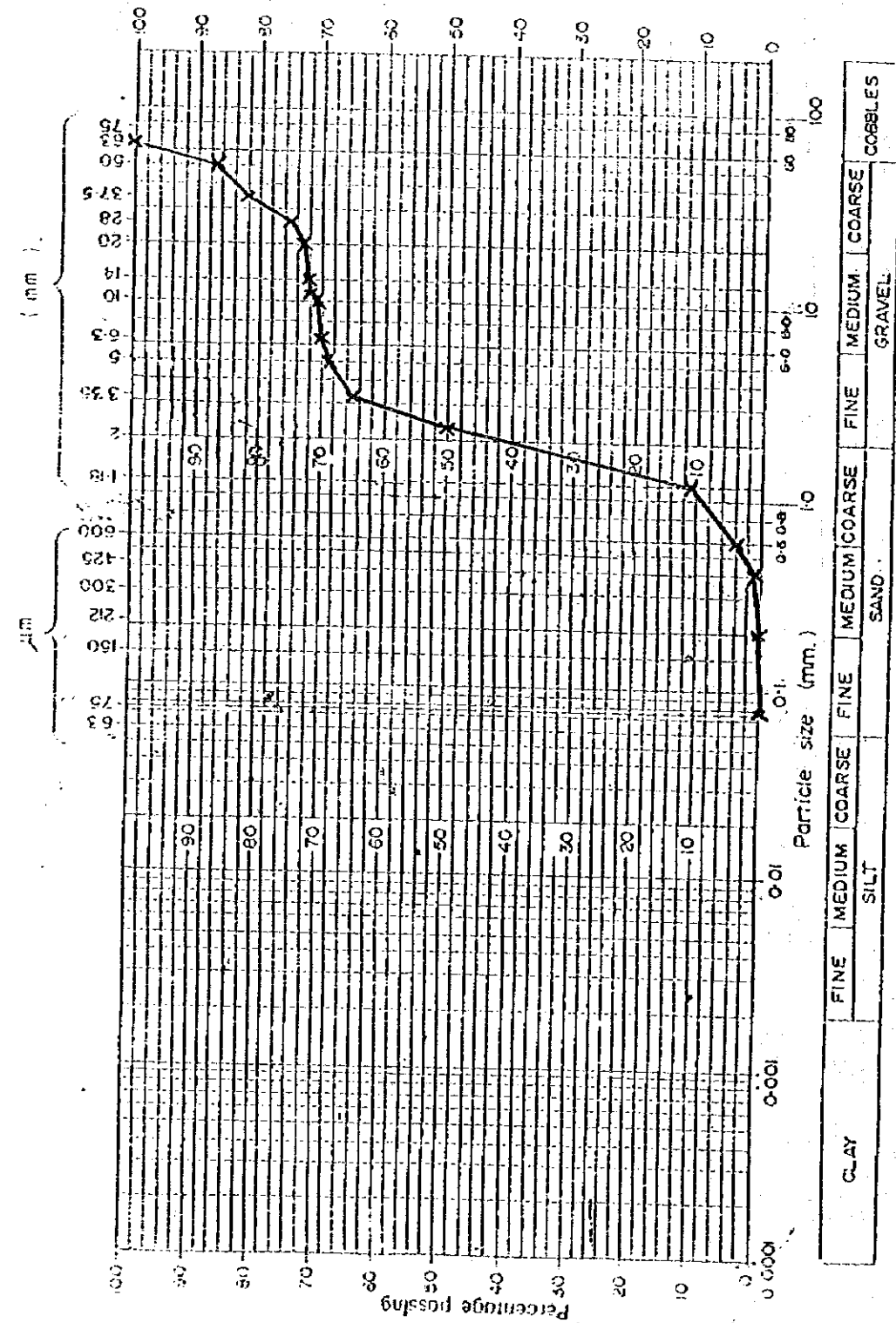
Total mass of dry sample (m_1) 1858 g

Depth of sample:

| BS test sieve | Mass retained | Mass retained | Percentage retained | Total percentage passing | Maximum sieve load† |
|---|---------------|---|--------------------------------------|--------------------------|---------------------|
| | | | $\frac{\text{Mass}}{m_1} \times 100$ | | |
| 80 mm | 8 | | | 100 | 8 |
| 50 mm | 190 | | 10.23 | 89.8 | |
| 37.5 mm | 48 | | 2.58 | 87.2 | 4500 |
| 28 mm | 50 | | 2.69 | 84.5 | 3500 |
| 20 mm | 164 | | 8.83 | 75.7 | 2500 |
| 14 mm | 128 | | 6.89 | 68.8 | 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 | 52 | | 2.80 | 66.0 | 1500 |
| 10 mm | 66 | | 3.55 | 62.4 | 1000 |
| 6.3 mm | 126 | | 6.78 | 55.7 | 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 | 84 | | 4.52 | 51.1 | 500 |
| 3.35 mm | 144 | | 7.75 | 43.4 | 300 |
| 2.36 mm | 126 | | 6.78 | 36.6 | 200 |
| 1.18 mm | 232 | | 12.49 | 24.1 | 100 |
| 600 µm | 268 | | 14.42 | 9.7 | 75 |
| 425 µm | | | | | 75 |
| 300 µm | 158 | | 8.50 | 1.2 | 50 |
| 212 µm | | | | | 50 |
| 150 µm | 18 | | 0.97 | 0.2 | 40 |
| 75 µm | 2 | | 0.11 | 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.



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

Form G
 Particle size distribution

~~Wet/Dry~~ sieving method

Operator: Job:

Date: 15/11/94

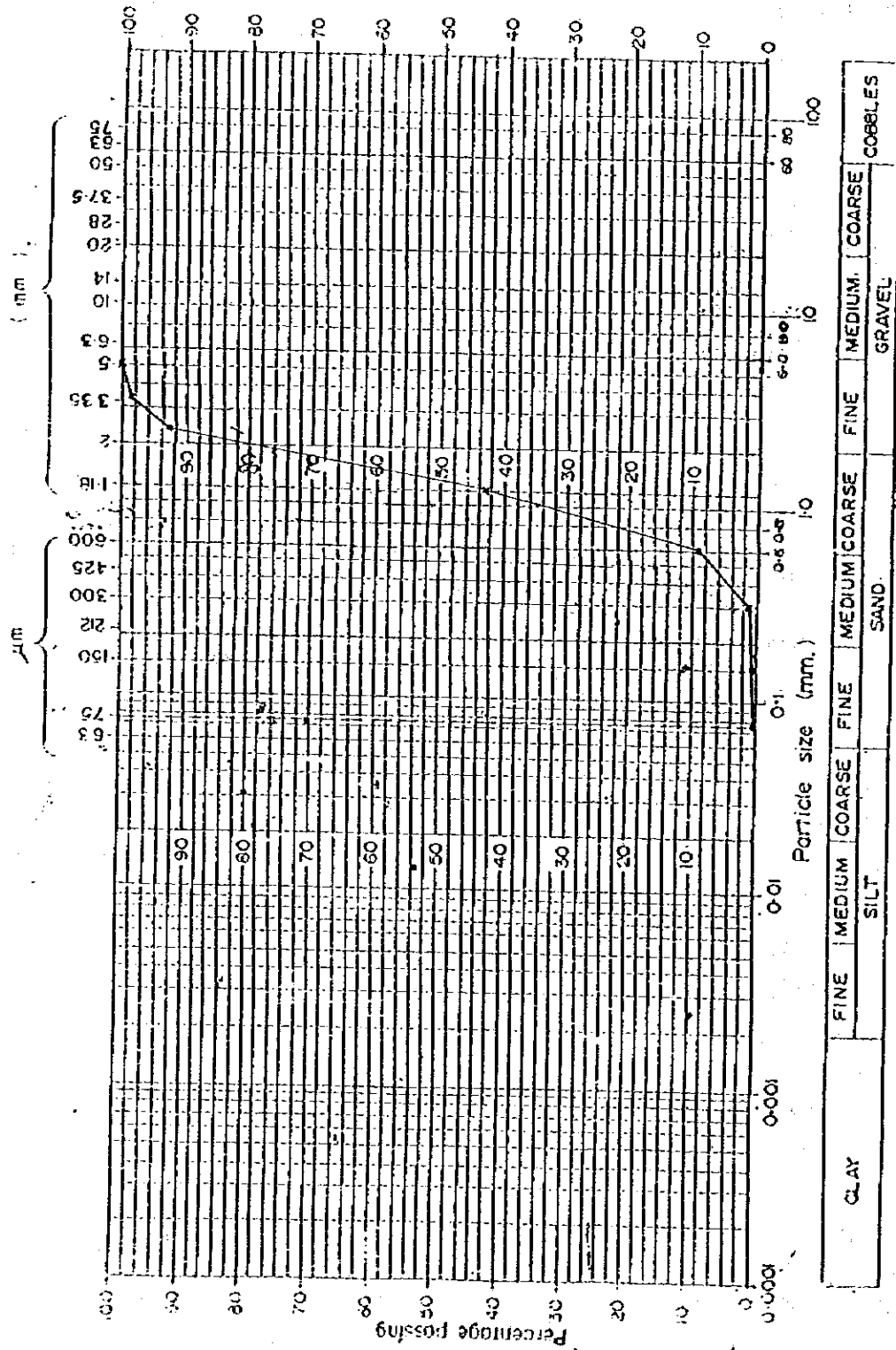
Description of soil:

Site:
 Borehole No:
 Sample No: M14
 Depth of sample:

Total mass of dry sample (m₁) 1868 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 | 8 242 | 8 | 12.96 | 87.0 | 8 |
| 37.5 mm | 96 | | 5.14 | 81.9 | |
| 28 mm | 138 | | 7.39 | 74.5 | 4500 |
| 25 mm | - | | - | - | 3500 |
| 20 mm | 20 | | 1.07 | 73.4 | 2500 |
| 14 mm | 22 | | 1.18 | 72.2 | 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 X mass retained | | | |
| 12.5 mm | 10 | | 0.54 | 71.7 | 1500 |
| 10 mm | 8 | | 0.43 | 71.3 | 1000 |
| 6.3 mm | 20 | | 1.07 | 70.2 | 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 X mass retained | | | |
| 5 mm | 16 | | 0.86 | 69.3 | 500 |
| 3.35 mm | 90 | | 4.82 | 64.5 | 300 |
| 2.36 mm | 288 | | 14.35 | 50.2 | 200 |
| 1.18 mm | 138 | | 7.39 | 42.8 | 100 |
| 600 μm | 132 | | 7.07 | 35.7 | 75 |
| 425 μm | - | | - | - | 75 |
| 300 μm | 114 | | 6.11 | 29.6 | 50 |
| 212 μm | - | | - | - | 50 |
| 150 μm | 18 | | 0.96 | 28.6 | 40 |
| 75 μm | 4 | | 0.21 | 28.4 | 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: **16/11/94**
 Location: **BROWNISH SAND**
 Sample No: **M-15**
 British Standard Test Sieves:

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

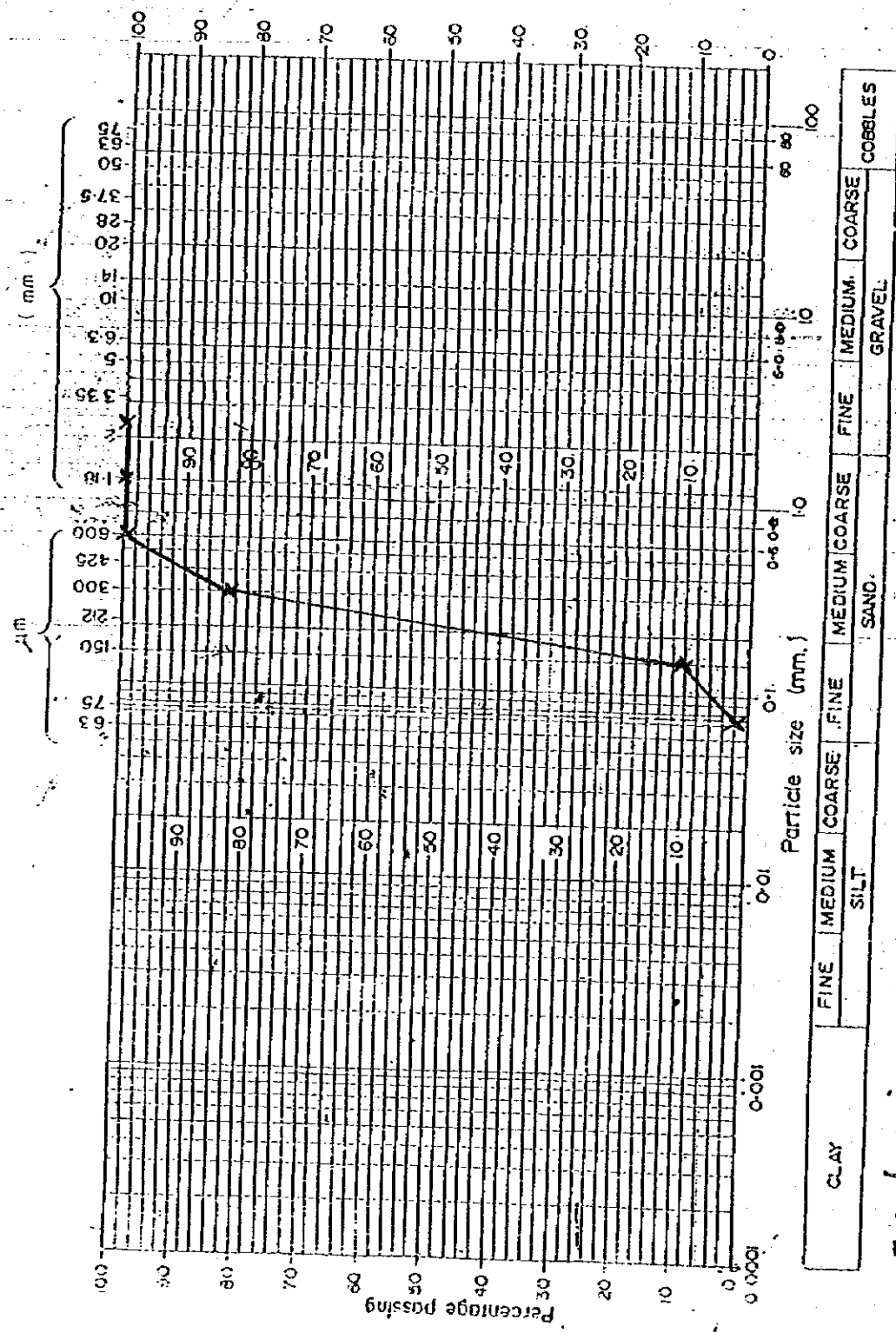
Form G
Particle size distribution

Wet/Dry sieving method

Operator: _____ Job: _____ Site: _____
 Date: _____ Borehole No: _____
 Description of soil: _____ Sample No: **M-15**
 Total mass of dry sample (m_1): **1359.8** 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) 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 | | | 0 | 100 | 500 |
| 3.35 mm | 20 | | 1.47 | 98.5 | 300 |
| 2.36 mm | 78 | | 5.74 | 92.8 | 200 |
| 1.18 mm | 680 | | 50.04 | 42.8 | 100 |
| 600 μm | 456 | | 33.55 | 9.2 | 75 |
| 425 μm | | | | | 75 |
| 300 μm | 108 | | 7.95 | 1.3 | 50 |
| 212 μm | | | | | 50 |
| 150 μm | 12 | | 0.88 | 0.4 | 40 |
| 75 μm | 2 | | 0.15 | 0.2 | 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/Sabin
 Date: 16/11/94
 Description of soil: LIGHT GREY SAND

Location: K1
 Sample No: K1
 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:

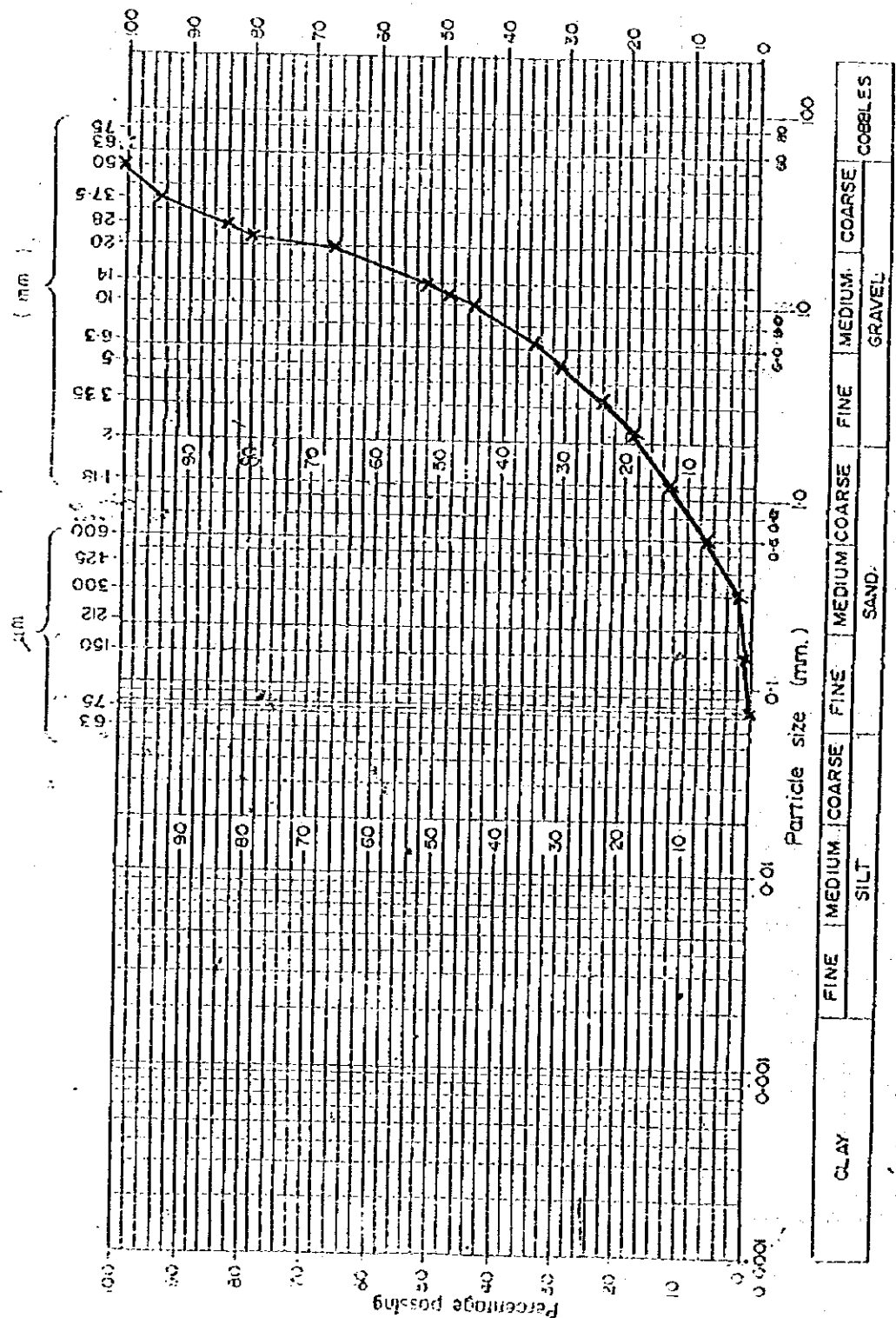
Sample No: K1

Total mass of dry sample (m₁): 870 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† |
|--|---------------|--------------------------------|--|--------------------------|---------------------|
| 80 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 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 | 0.1 | | 0.01 | 99.99 | 100 |
| 600 μm | 0.1 | | 0.01 | 99.98 | 75 |
| 425 μm | | | | | 75 |
| 300 μm | 148 | | 17.01 | 83.0 | 50 |
| 212 μm | | | | | 50 |
| 150 μm | 634 | | 72.88 | 10.1 | 40 |
| 75 μm | 72 | | 8.28 | 1.8 | 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: **Salm / Sals**
 Date: **15/11/94**
 Location: **K5**
 Sample No: **K5**
 Description of soil: **REDDISH 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: **Salm / Sals**

Date: **15/11/94**
 Description of soil:

Job:

Site:

Borehole No:

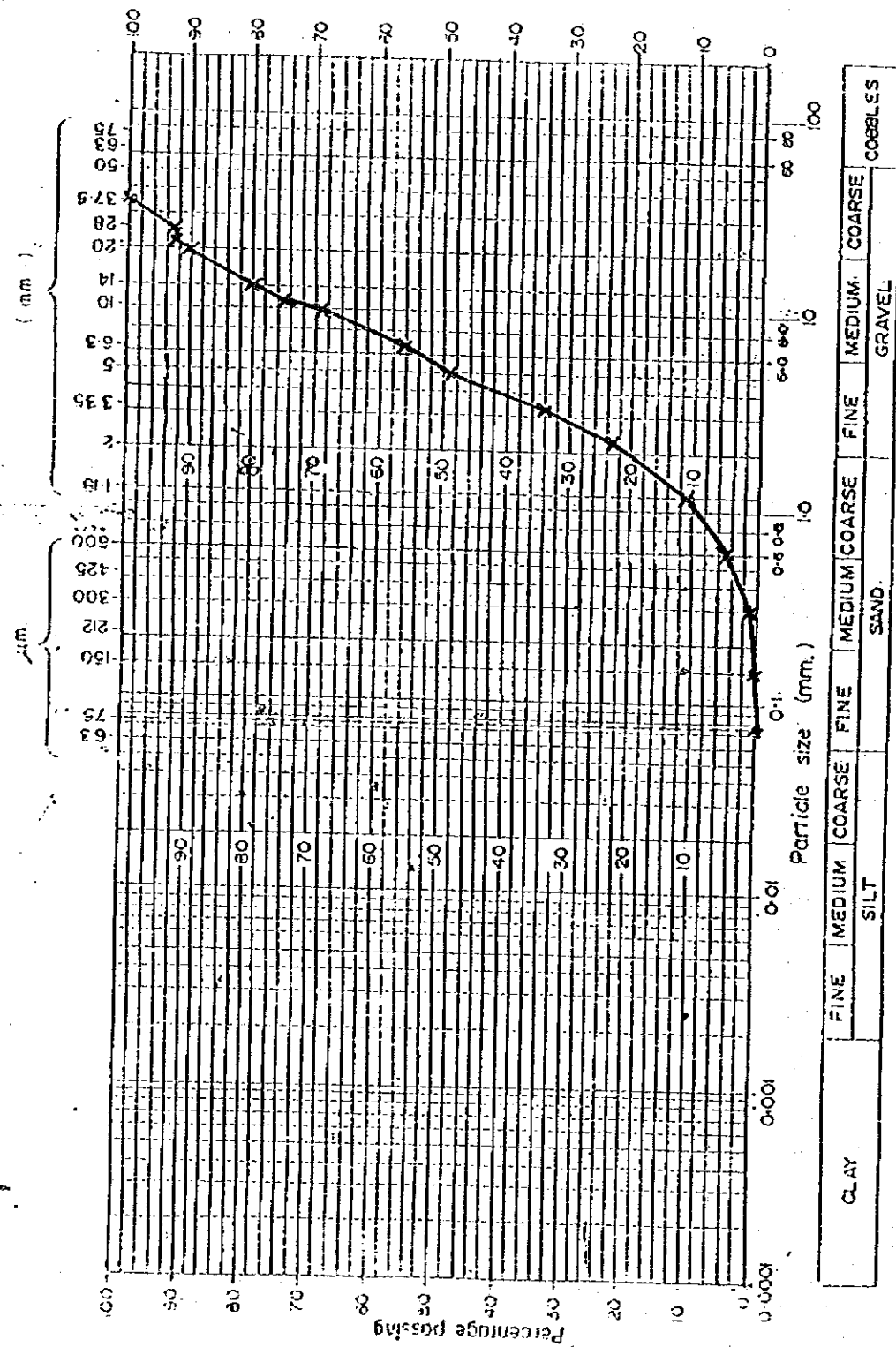
Sample No: **K3**

Total mass of dry sample (m_1): **2055** 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 | 0 | 0 | 0 | 100 | 8 |
| 37.5 mm | 102 | 4.96 | 4.96 | 95.0 | 4500 |
| 28 mm | 222 | 10.80 | 10.80 | 84.2 | 3500 |
| 25 mm | 84 | 4.09 | 4.09 | 80.2 | 2500 |
| 20 mm | 280 | 13.63 | 13.63 | 66.5 | 2000 |
| 14 mm | 294 | 14.31 | 14.31 | 52.2 | |
| 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 | 64 | 3.11 | 3.11 | 49.1 | 1500 |
| 10 mm | 86 | 4.18 | 4.18 | 44.9 | 1000 |
| 6.3 mm | 200 | 9.73 | 9.73 | 35.2 | 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 | 88 | 4.28 | 4.28 | 30.9 | 500 |
| 3.35 mm | 138 | 6.72 | 6.72 | 24.2 | 300 |
| 2.36 mm | 98 | 4.77 | 4.77 | 19.4 | 200 |
| 1.18 mm | 142 | 6.91 | 6.91 | 12.5 | 100 |
| 600 μm | 108 | 5.26 | 5.26 | 7.3 | 75 |
| 425 μm | - | - | - | - | 75 |
| 300 μm | 106 | 5.16 | 5.16 | 2.1 | 50 |
| 212 μm | - | - | - | - | 50 |
| 150 μm | 32 | 1.56 | 1.56 | 0.54 | 40 |
| 75 μm | 6 | 0.29 | 0.29 | 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: **Jais/Sabri**
 Date: **16/11/94**
 Location: **K4**
 Sample No: **K4**
 Description of soil: **GREY SANDY GRAVEL**
 British Standard Test Sieves:

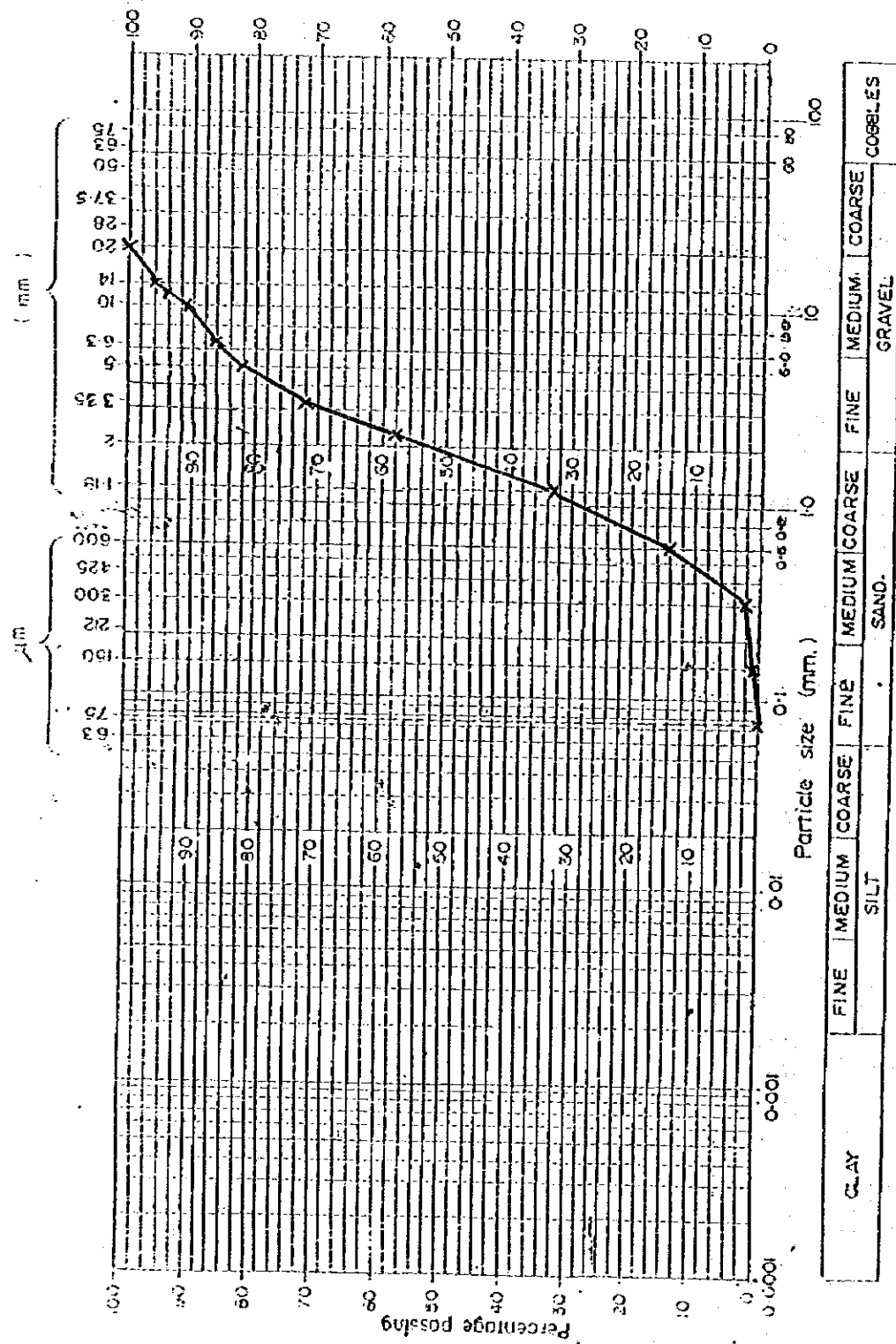
GRADING CURVE (FORM 'G' OF BS.1377 : 1975)

Form G
 Particle size distribution
 Wet/Dry sieving method

Operator: _____ Job: _____ Site: _____
 Date: _____ Borehole No: _____
 Description of soil: _____ Sample No: **K4**
 Total mass of dry sample (m₁): **1870** 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 |
|--|---------------|--|--|--------------------------|---------------------------------|
| 50 mm | 0 | | 0 | 100 | 8 |
| 37.5 mm | 0 | | 0 | 100 | |
| 28 mm | 124 | | 6.63 | 93.4 | 4500 |
| 25 mm | 58 | | 2.03 | 91.3 | 3500 |
| 20 mm | 50 | | 1.60 | 89.7 | 2500 |
| 14 mm | 186 | | 9.95 | 79.8 | 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 X mass retained | | | |
| 12.5 mm | 96 | | 5.13 | 74.7 | 1500 |
| 10 mm | 110 | | 5.88 | 68.8 | 1000 |
| 6.3 mm | 234 | | 12.51 | 56.3 | 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 X mass retained | | | |
| 5 mm | 134 | | 7.17 | 49.1 | 500 |
| 3.35 mm | 278 | | 14.87 | 34.3 | 300 |
| 2.26 mm | 214 | | 11.44 | 22.8 | 200 |
| 1.18 mm | 228 | | 12.19 | 10.6 | 100 |
| 600 μm | 114 | | 6.10 | 4.5 | 75 |
| 425 μm | | | | | 75 |
| 300 μm | 62 | | 3.32 | 1.2 | 50 |
| 212 μm | | | | | 50 |
| 150 μm | 16 | | 0.86 | 0.4 | 40 |
| 75 μm | 6 | | 0.32 | 0.04 | 25 |
| Passing 75 μm | | | | | |
| 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: **Jais/Sabri**
 Date: **15/11/94**
 Location: **K5**
 Sample No: **K5**
 Description of soil: **DARKISH GREY SANDY GRAVEL**
 Job: **British Standard Test Sieves**

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

BS 1377 : 1975

Form G

Particle size distribution

Wet/Dry* sieving method

Operator **Jais/Sabri**

Job:

Site: -

Date: **15/11/94**

Borehole No:

Description of soil:

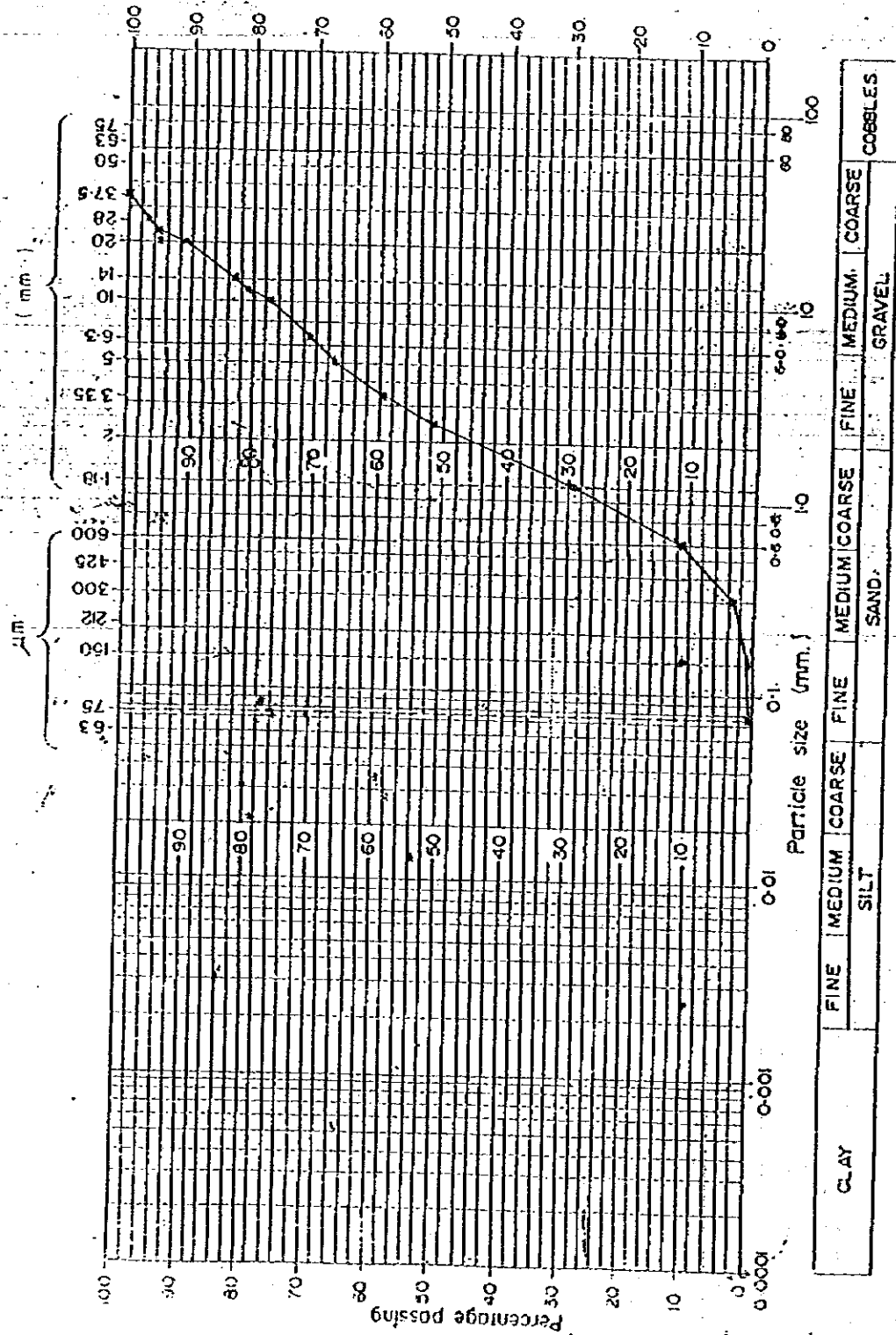
Sample No: **K5**

Total mass of dry sample (m_1) **1507** 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† |
|---|---------------|-----------------------------------|---|--------------------------|---------------------|
| 75 mm | 8 | 8 | | | 8' |
| 63 mm | | | | | |
| 50 mm | | | | | 4500 |
| 37.5 mm | | | | | 3500 |
| 20 mm | 0 | | 0 | 100 | 2500 |
| 14.25 mm | 58 | | 3.85 | 96.2 | 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 | | | |
| | | $C_1 \times \text{mass retained}$ | | | |
| 12.5 mm | 30 | | 1.99 | 94.2 | 1500 |
| 10 mm | 50 | | 3.32 | 90.8 | 1000 |
| 6.3 mm | 78 | | 5.16 | 85.7 | 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 | 62 | | 4.11 | 81.6 | 500 |
| 3.35 mm | 152 | | 10.09 | 71.5 | 300 |
| 2.36 mm | 108 | | 7.14 | 58.3 | 200 |
| 1.18 mm | 378 | | 25.08 | 33.3 | 100 |
| 600 µm | 294 | | 19.51 | 13.8 | 75 |
| 425 µm | | | | | 75 |
| 300 µm | 180 | | 11.94 | 1.8 | 50 |
| 212 µm | | | | | 50 |
| 150 µm | 20 | | 1.33 | 0.5 | 40 |
| 75 µm | 4 | | 0.27 | 0.21 | 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: 16/11/94
 Location: Sample No: KU-1
 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

Job:

Site:

Date:

Borehole No:

Description of soil:

Sample No: KU-1

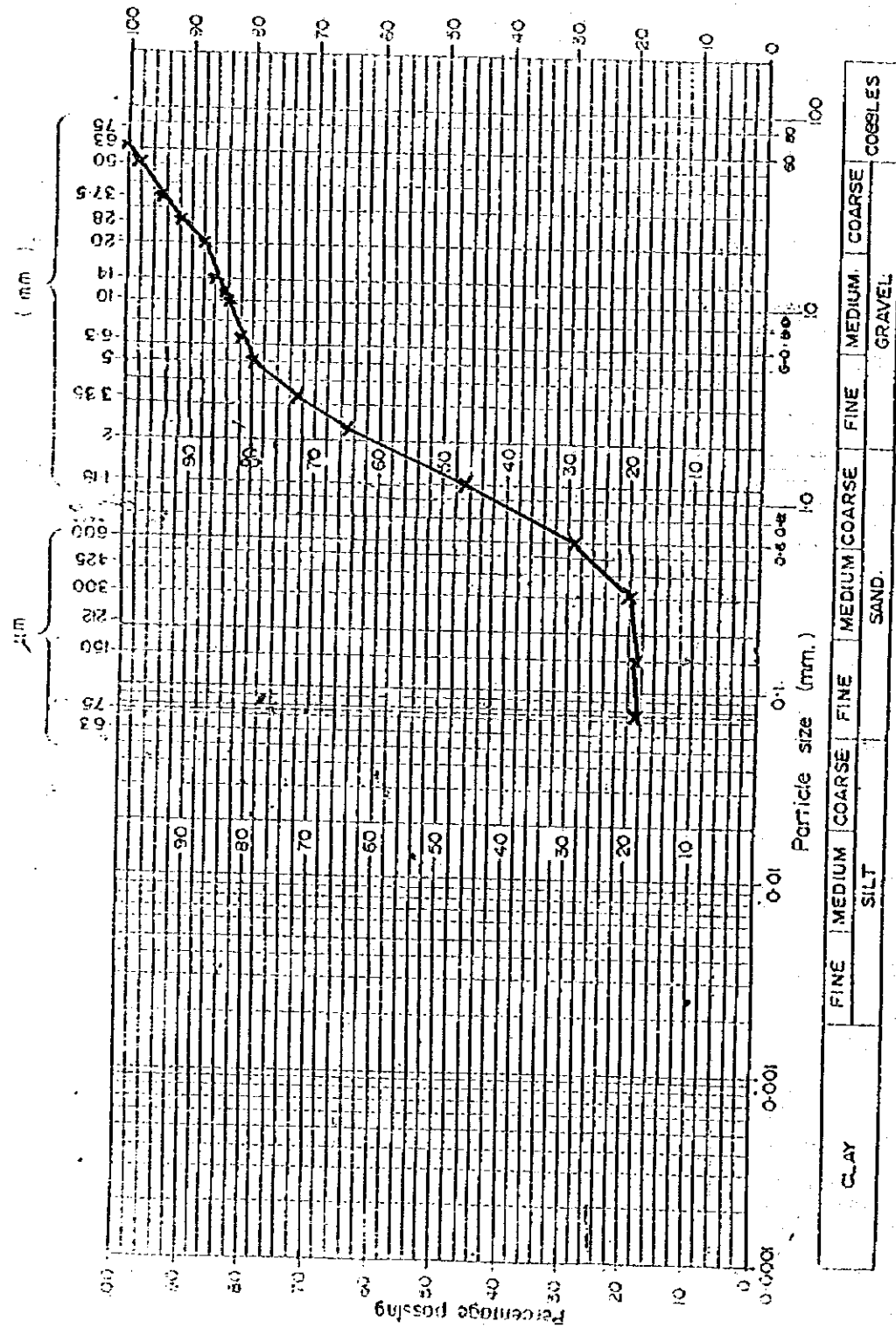
Total mass of dry sample (m_1) 1826 g

Depth of sample:

| BS test sieve | Mass retained | Mass retained | Percentage retained | Total percentage passing | Maximum sieve load† |
|--|---------------|-----------------------------------|--|--------------------------|---------------------|
| | g | g | $\frac{m_{\text{mass}}}{m_1} \times 100$ | | |
| 50 mm | 0 | | 0 | 100 | 8 |
| 37.5 mm | 56 | | 3.07 | 96.9 | 4500 |
| 28 mm | 24 | | 1.31 | 95.6 | 3500 |
| 25 mm | 98 | | 5.37 | 90.3 | 2500 |
| 20 mm | 126 | | 6.90 | 83.4 | 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 | | | |
| | | $C_1 \times \text{mass retained}$ | | | |
| 12.5 mm | 44 | | 2.41 | 80.9 | 1500 |
| 10 mm | 64 | | 3.50 | 77.4 | 1000 |
| 6.3 mm | 110 | | 6.02 | 71.4 | 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 | | | |
| | | $C_2 \times \text{mass retained}$ | | | |
| 5 mm | 84 | | 4.60 | 66.8 | 500 |
| 3.35 mm | 138 | | 7.56 | 59.3 | 300 |
| 2.36 mm | 142 | | 7.78 | 51.5 | 200 |
| 1.18 mm | 402 | | 22.02 | 29.5 | 100 |
| 600 μm | 336 | | 18.40 | 11.1 | 75 |
| 425 μm | — | | — | — | 75 |
| 300 μm | 142 | | 7.78 | 3.3 | 50 |
| 212 μm | — | | — | — | 50 |
| 150 μm | 46 | | 2.52 | 0.8 | 40 |
| 75 μm | 10 | | 0.55 | 0.2 | 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.



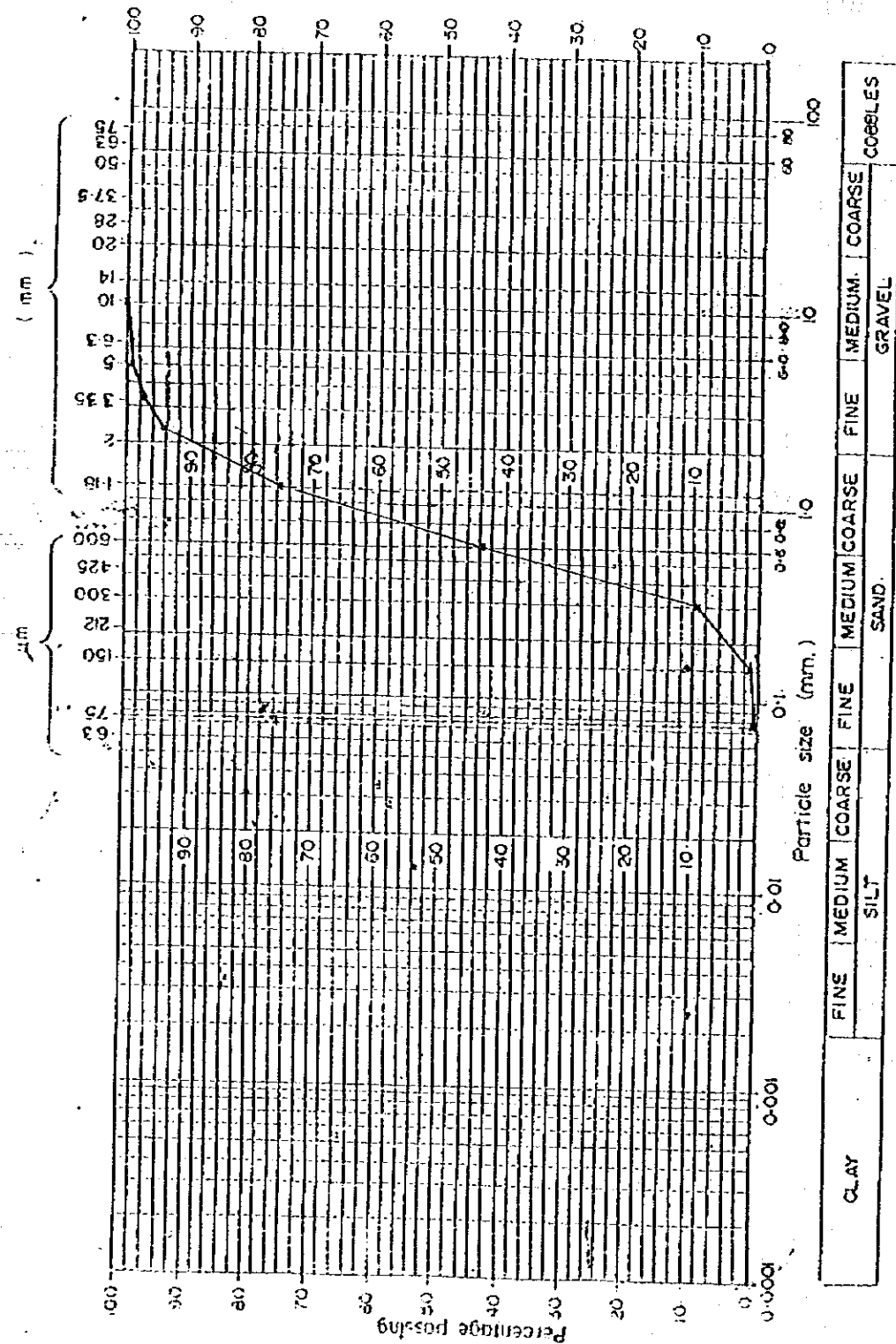
Operator: **Jais/Sais**
 Date: **15/11/94**
 Location: **KU 2**
 Sample No: **KU 2**
 Description of soil: **LIGHT GREY SANDY GRAVEL**
 British Standard Test Sieves:
GRADING CURVE (FORM 'G' OF BS.1377 : 1975)

Form G
 Particle size distribution
 Wet/Dry sieving method
 Operator: **Salm/Sais**
 Date: **15/11/94**
 Description of soil:

Job:
 Site:
 Borehole No:
 Sample No: **KU 2**
 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 | 34.2 | | 2.14 | 97.9 | 8 |
| 37.5 mm | 39.8 | | 2.49 | 95.4 | |
| 28 mm | 60 | | 3.75 | 91.6 | 4500 |
| 25 mm | - | | - | - | 3500 |
| 20 mm | 60 | | 3.75 | 87.9 | 2500 |
| 14 mm | 36 | | 2.25 | 85.6 | 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 | 12 | | 0.75 | 84.9 | 1500 |
| 10 mm | 26 | | 1.25 | 83.6 | 1000 |
| 6.3 mm | 26 | | 1.63 | 82.0 | 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 | 40 | | 2.50 | 79.5 | 500 |
| 3.35 mm | 104 | | 6.50 | 73.0 | 300 |
| 2.36 mm | 126 | | 7.88 | 65.1 | 200 |
| 1.18 mm | 298 | | 18.63 | 46.5 | 100 |
| 600 µm | 286 | | 17.89 | 28.6 | 75 |
| 425 µm | - | | - | - | 75 |
| 300 µm | 142 | | 8.89 | 19.7 | 50 |
| 212 µm | - | | - | - | 50 |
| 150 µm | 16 | | 1.00 | 18.7 | 40 |
| 75 µm | 2 | | 0.13 | 18.6 | 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.



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

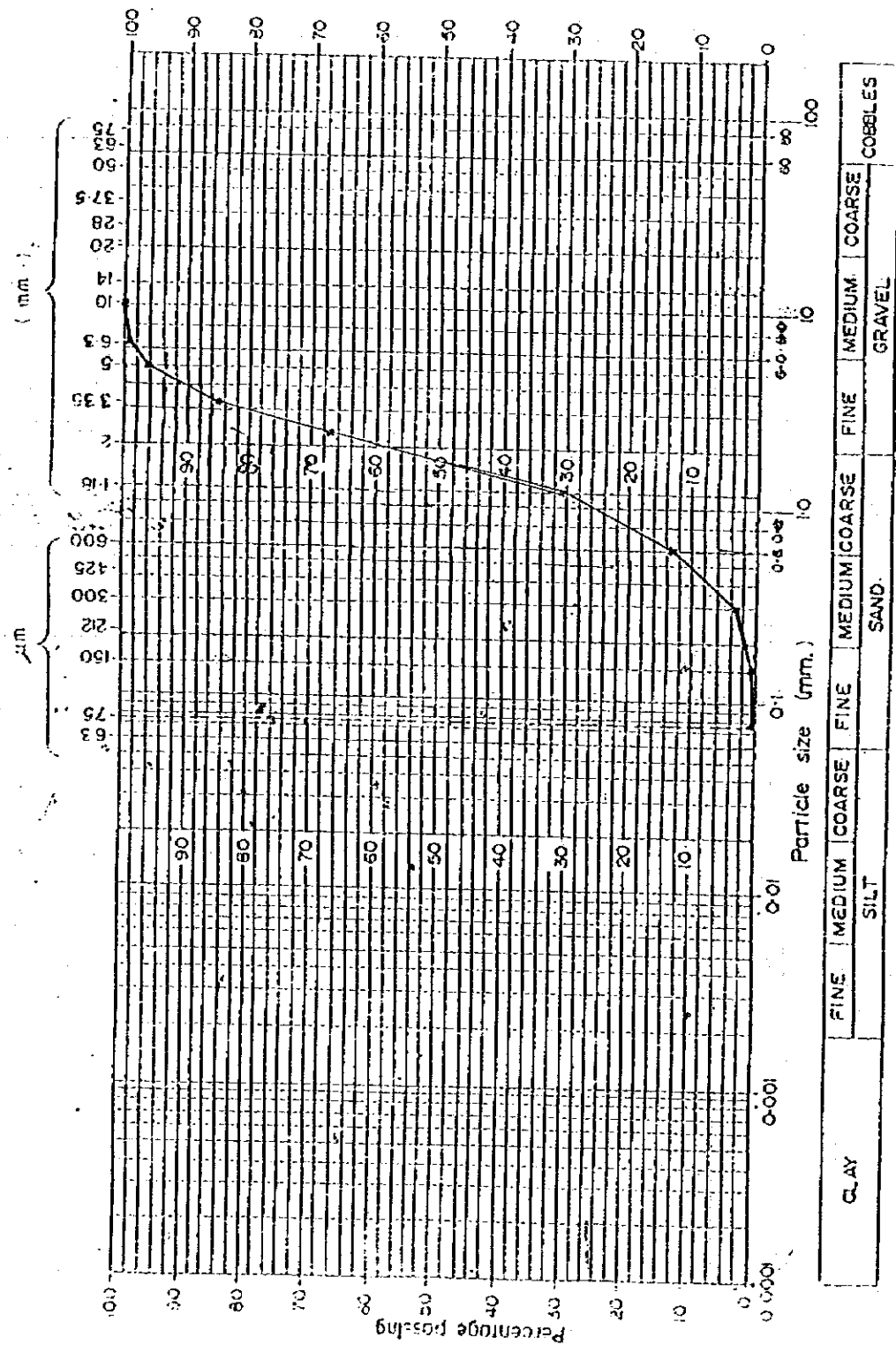
Form G
 Particle size distribution

Wet/Dry sieving method

Operator: _____ Job: _____ Site: _____
 Date: _____ Borehole No: _____
 Description of soil: _____ Sample No: **KA-1**
 Total mass of dry sample (m_1): **1606** 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 | | | 0 | 100 | 1000 |
| 6.3 mm | 4 | | 0.25 | 99.8 | 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 $C_2 \times$ mass retained | | | |
| 5 mm | 6 | | 0.37 | 99.4 | 500 |
| 3.35 mm | 26 | | 1.62 | 97.8 | 300 |
| 2.36 mm | 52 | | 3.24 | 94.5 | 200 |
| 1.18 mm | 300 | | 18.68 | 75.8 | 100 |
| 600 μm | 514 | | 32.00 | 43.8 | 75 |
| 425 μm | | | | | 75 |
| 300 μm | 550 | | 34.25 | 9.6 | 50 |
| 212 μm | | | | | 50 |
| 150 μm | 138 | | 8.59 | 1.0 | 40 |
| 75 μm | 14 | | 0.87 | 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: *Jais / Sabri*
 Date: *16/11/94*
 Location: *Brownish Gravelly Sand*
 Job: *British Standard Test Sieves*
 Sample No: *C-1*

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

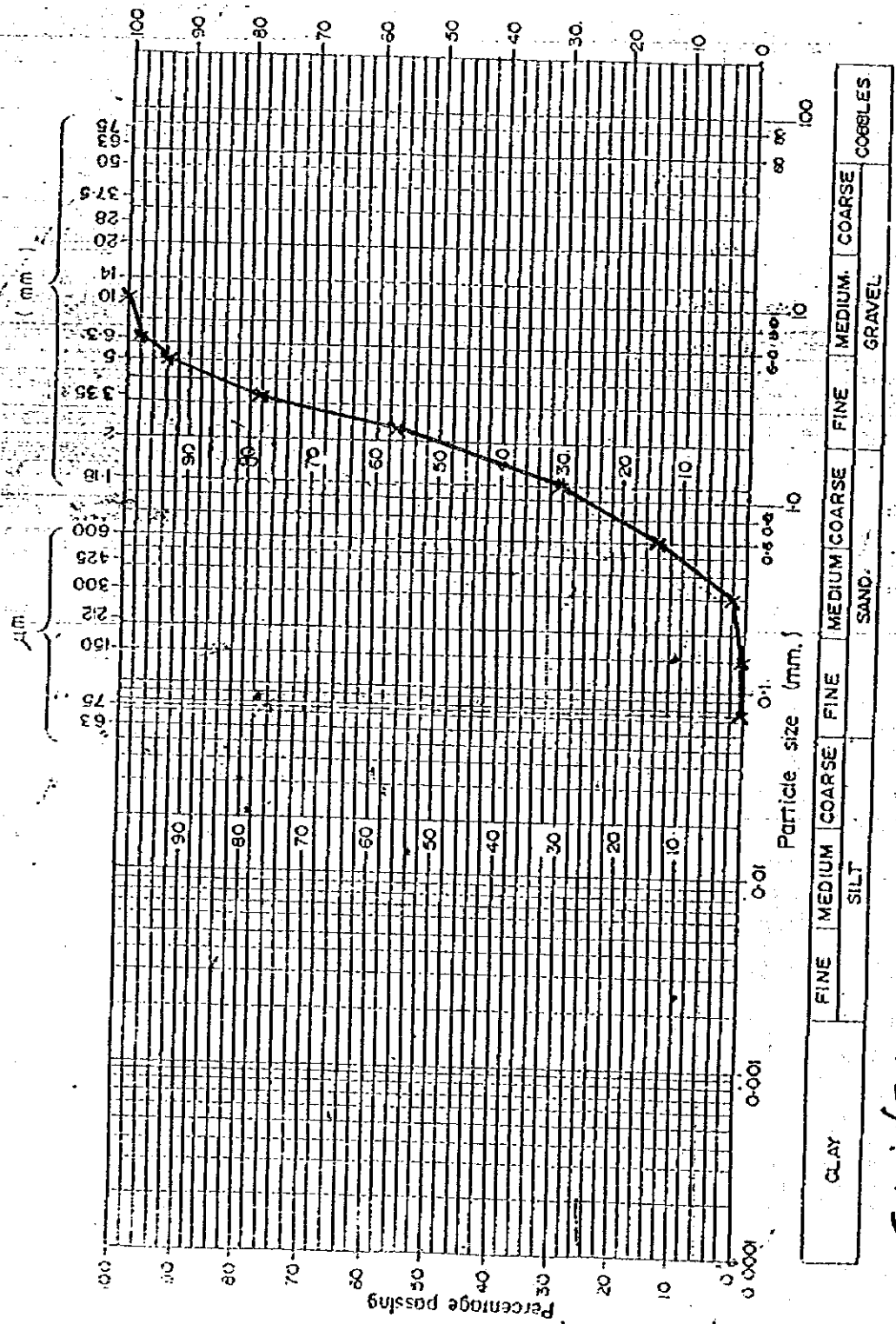
Form G
 Particle size distribution
 Wet/Dry* sieving method

Operator: _____ Job: _____ Site: _____
 Date: _____ Borehole No: _____
 Description of soil: _____ Sample No: *C-1*
 Total mass of dry sample (m_1): *1620* 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 |
| 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 | | | 0 | 100 | 1000 |
| 6.3 mm | 12.0 | | 0.74 | 99.3 | 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 | 44 | | 2.72 | 96.5 | 500 |
| 3.35 mm | 188 | | 11.60 | 84.9 | 300 |
| 2.36 mm | 292 | | 18.02 | 66.9 | 200 |
| 1.18 mm | 592 | | 36.54 | 30.4 | 100 |
| 600 μ m | 278 | | 17.16 | 13.2 | 75 |
| 425 μ m | - | | - | - | 75 |
| 300 μ m | 170 | | 10.49 | 2.7 | 50 |
| 212 μ m | - | | - | - | 50 |
| 150 μ m | 36 | | 2.22 | 0.5 | 40 |
| 75 μ m | 4 | | 0.25 | 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.

120



Operator: Sabri / Jais
 Date: 16/11/94
 Location:
 Sample No: C2
 Description of soil: BROWNISH SANDY GRAVEL
 British Standard Test Sieves:

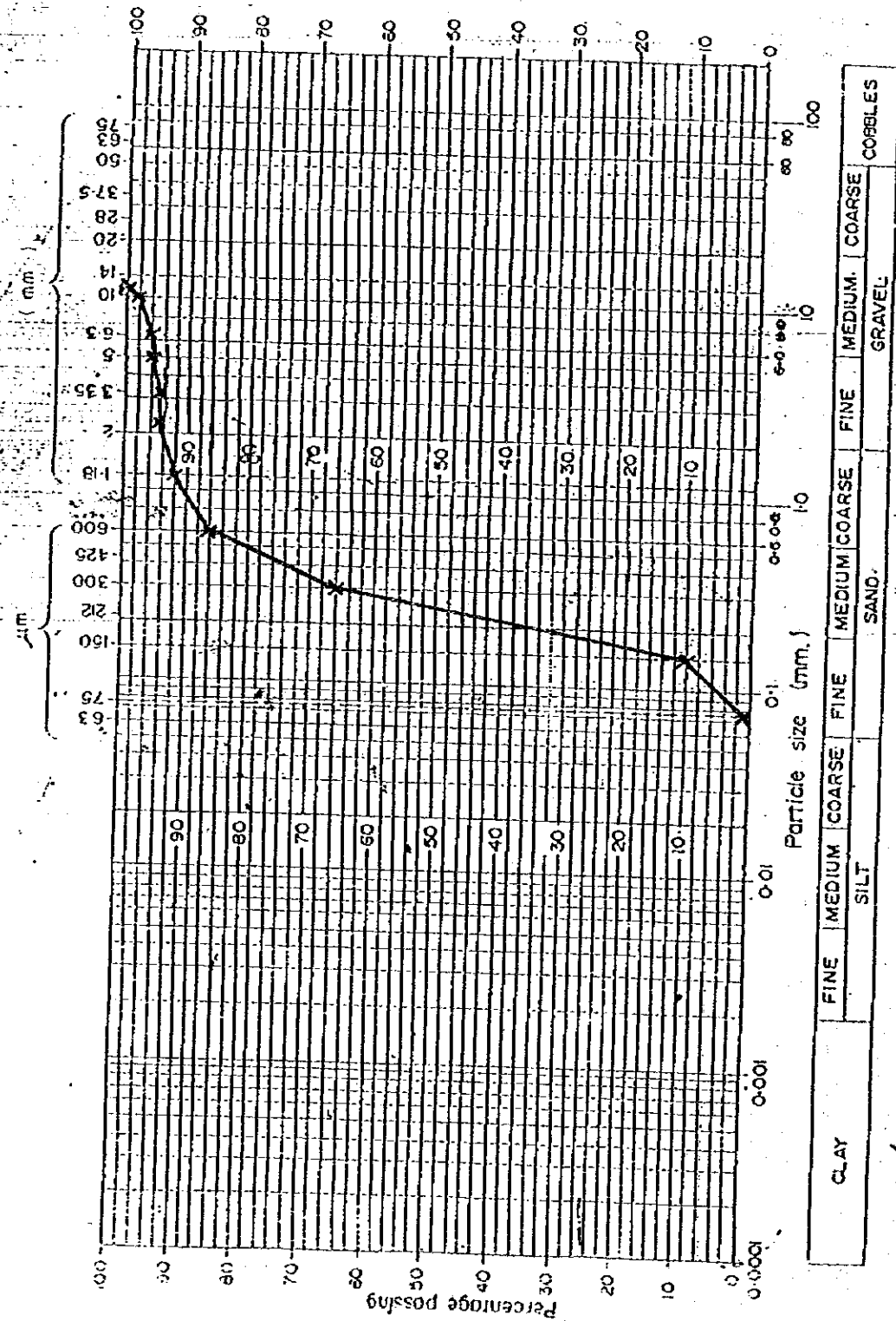
GRADING CURVE (FORM 'G' OF BS.1377 : 1975)

Form G
 Particle size distribution
 Wet/Dry sieving method

Operator: _____ Job: _____ Site: _____
 Date: _____ Borehole No: _____
 Description of soil: _____ Sample No: C2
 Total mass of dry sample (m₁): 1636 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 X mass retained | | | |
| 12.5 mm | | | | | 1500 |
| 10 mm | 0 | | 0 | 100 | 1000 |
| 6.3 mm | 30 | | 1.83 | 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 X mass retained | | | |
| 5 mm | 76 | | 4.65 | 93.5 | 500 |
| 3.35 mm | 254 | | 15.53 | 78.0 | 300 |
| 2.36 mm | 352 | | 21.52 | 56.5 | 200 |
| 1.18 mm | 434 | | 26.53 | 29.9 | 100 |
| 600 μm | 262 | | 16.01 | 13.9 | 75 |
| 425 μm | | | | | 75 |
| 300 μm | 194 | | 11.86 | 2.1 | 50 |
| 212 μm | | | | | 50 |
| 150 μm | 30 | | 1.83 | 0.2 | 40 |
| 75 μm | 2 | | 0.12 | 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.



Location: Sample No: 51
 British Standard Test Sieves

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

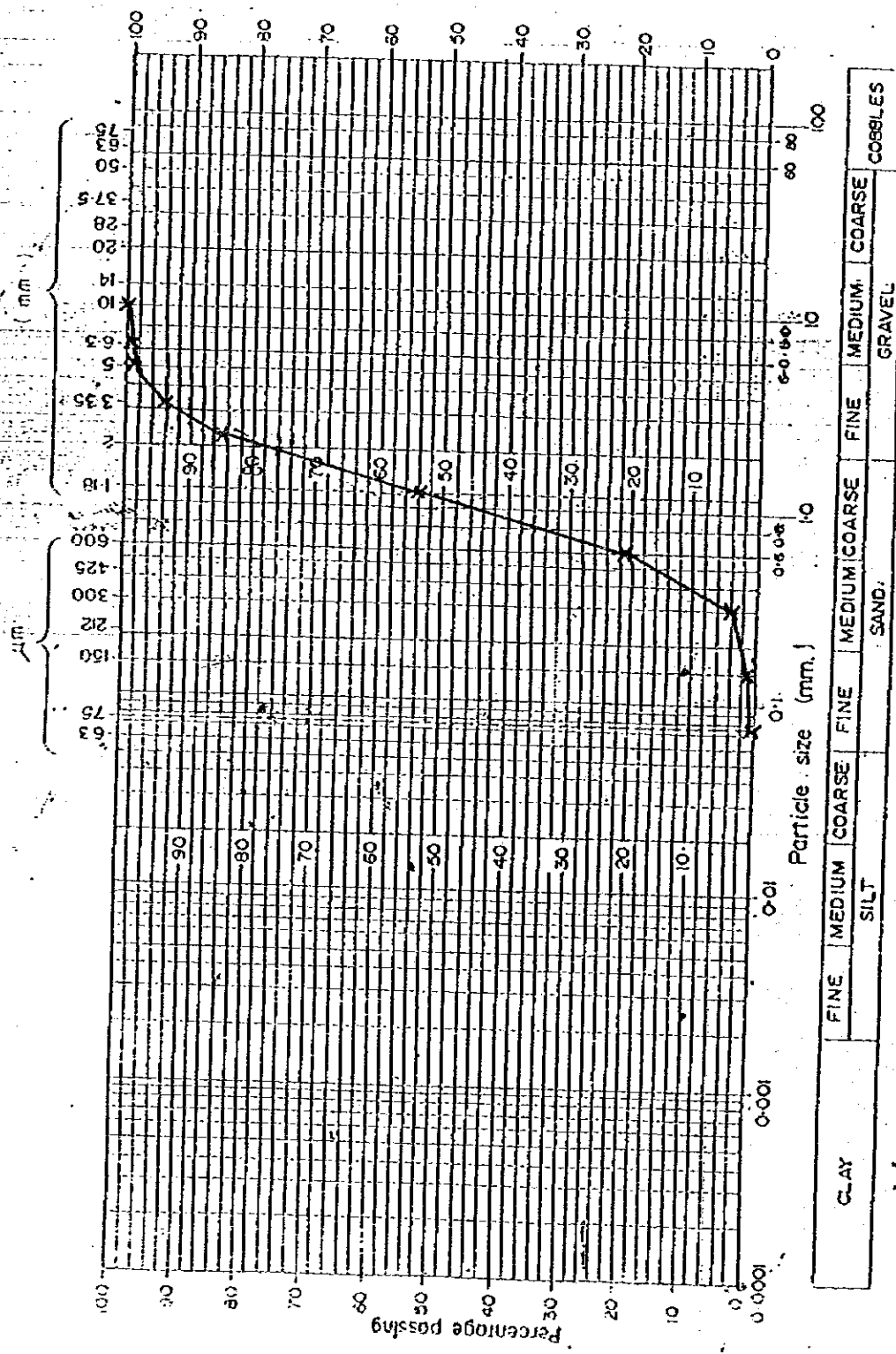
Form G
 Particle size distribution

Wet/Dry sieving method

Operator: Job: Site:
 Date: 17/11/94 Borehole No:
 Description of soil: Sample No: 51
 Total mass of dry sample (m₁): 758 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 | | | 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 | 0 | | 0 | 100 | 1500 |
| 10 mm | 12 | | 1.58 | 98.4 | 1000 |
| 6.3 mm | 16 | | 2.11 | 96.3 | 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 | | 0.53 | 95.8 | 500 |
| 3.35 mm | 4 | | 0.53 | 95.3 | 300 |
| 2.36 mm | 4 | | 0.53 | 94.7 | 200 |
| 1.18 mm | 20 | | 2.64 | 92.1 | 100 |
| 600 μm | 44 | | 5.80 | 86.3 | 75 |
| 425 μm | | | | | 75 |
| 300 μm | 156 | | 20.58 | 65.7 | 50 |
| 212 μm | | | | | 50 |
| 150 μm | 420 | | 55.41 | 10.3 | 40 |
| 75 μm | 72 | | 9.50 | 0.8 | 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.



CLAY FINE MEDIUM COARSE FINE MEDIUM COARSE SAND FINE MEDIUM COARSE GRAVEL COBBLES

Operator: **Salim Javis**
 Date: **16/11/94**
 Location: **Job:**
 Sample No: **52**
 Description of soil: **LIGHT GREY GRAVELLY SAND**
 British Standard Test Sieves:

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

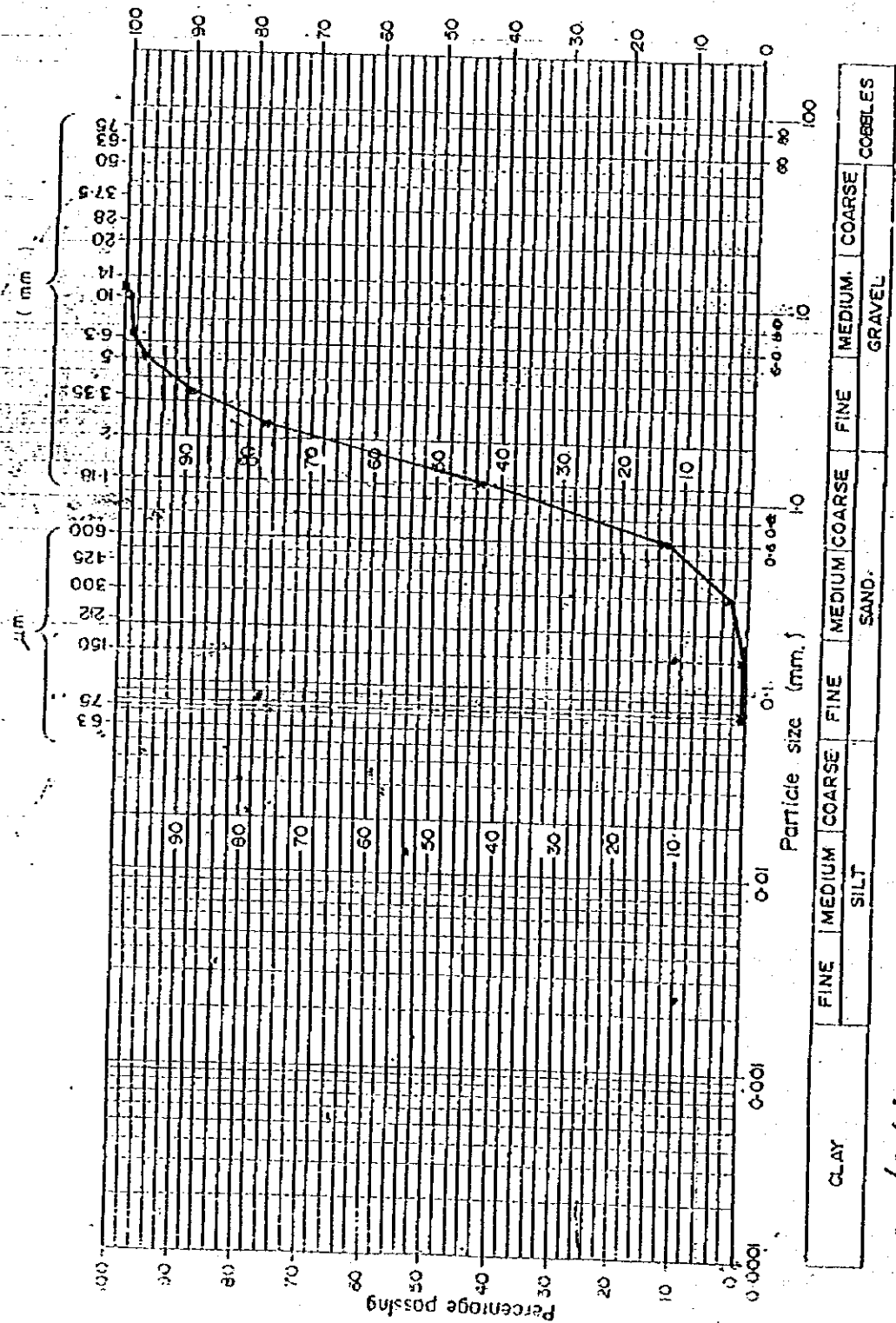
Form G
 Particle size distribution

Wet/Dry sieving method

Operator: _____ Job: _____ Site: _____
 Date: _____ Borehole No: _____
 Description of soil: _____ Sample No: **S2**
 Total mass of dry sample (m_1): **1990** 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 | 0 | 0 | | | 8 |
| 37.5 mm | | | | | 4500 |
| 28 mm | | | | | 3500 |
| 25 mm | | | | | 2500 |
| 20 mm | | | | | 2000 |
| 14 mm | | | | | |
| 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 | 100 | 1000 |
| 6.3 mm | 12 | | 0.60 | 99.4 | 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 | 14 | | 0.70 | 98.7 | 500 |
| 3.35 mm | 100 | | 5.03 | 93.7 | 300 |
| 2.36 mm | 166 | | 8.34 | 85.3 | 200 |
| 1.18 mm | 634 | | 31.86 | 53.5 | 100 |
| 600 μm | 642 | | 32.26 | 21.2 | 75 |
| 425 μm | 342 | | | | 75 |
| 300 μm | 342 | | 17.19 | 4.0 | 50 |
| 212 μm | | | | | 50 |
| 150 μm | 60 | | 3.42 | 0.6 | 40 |
| 75 μm | 4 | | 0.20 | 0.4 | 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: *Tais / Sabri*
 Date: *16/11/194*
 Location: *B 1*
 Sample No: *B 1*
 Description of soil: *LIGHT GREY GRAVELLY SAND*
 British Standard Test Sieves:

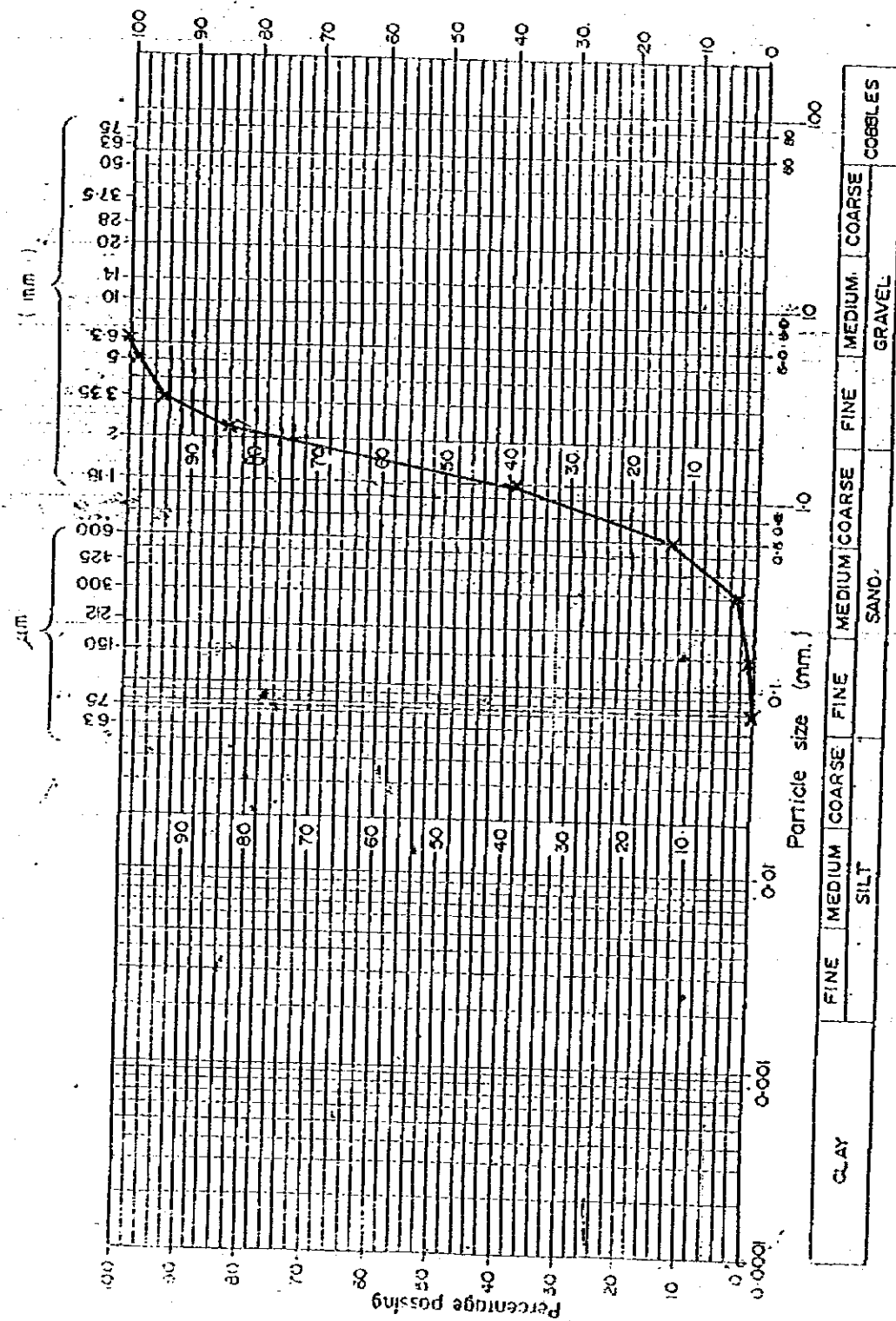
GRADING CURVE (FORM 'G' OF BS 1377 : 1975)

Form G
 Particle size distribution
 Wet/Dry* sieving method

Operator: _____ Job: _____ Site: _____
 Date: _____ Borehole No: _____
 Description of soil: _____ Sample No: *B-1*
 Total mass of dry sample (m_1): *1492* 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 | 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 | 6 | | 0.40 | 99.6 | 1000 |
| 6.3 mm | 12 | | 0.80 | 98.8 | 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 $C_2 \times$ mass retained | | | |
| 5 mm | 22 | | 1.47 | 97.3 | 500 |
| 3.35 mm | 114 | | 7.64 | 89.7 | 300 |
| 2.36 mm | 182 | | 12.20 | 77.5 | 200 |
| 1.18 mm | 512 | | 34.32 | 43.2 | 100 |
| 600 μ m | 454 | | 30.43 | 12.7 | 75 |
| 425 μ m | - | | - | - | 75 |
| 300 μ m | 156 | | 10.46 | 2.3 | 50 |
| 212 μ m | - | | - | - | 50 |
| 150 μ m | 26 | | 1.74 | 0.5 | 40 |
| 75 μ m | 4 | | 0.27 | 0.2 | 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: Jais/Sabri

Date: 17/11/94

Description of soil: GRAY GRAVELLY SAND

Location:

Sample No: M2. B2

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: 17/11/94

Borehole No:

Description of soil:

Sample No: M2

Total mass of dry sample (m_1): 547 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 | | | | | |
| 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 | 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 | | 0.73 | 99.3 | 500 |
| 3.35 mm | 22 | | 4.02 | 95.3 | 300 |
| 2.36 mm | 60 | | 10.97 | 84.3 | 200 |
| 1.18 mm | 248 | | 45.34 | 38.9 | 100 |
| 600 μm | 140 | | 25.59 | 13.4 | 75 |
| 425 μm | | | | | 75 |
| 300 μm | 58 | | 10.60 | 2.8 | 50 |
| 212 μm | | | | | 50 |
| 150 μm | 10 | | 1.83 | 0.9 | 40 |
| 75 μm | 4 | | 0.73 | 0.2 | 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.

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SOIL MECHANIC SDN. BHD.
17, LORONG TALANG SATU, PRAI GARDEN, 13600 PRAI, P. Y.

Tel : 04-309279
Fax : 04-391893

PROJECT : M/S. INDEHAA CONSTRUCTION SDN. BHD.
LOCATION : KANGAR, PERLIS

File MSK/L/9411034
Date : 22/11/1994
By : TANARUL

SPECIFIC GRAVITY TEST RESULT

SAMPLE NO. : B 1
FLASK NO. : 1 Flask Calibration : mc = 656.8-0.231

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 30.0 | 32.0 |
| Vt. Flask + Water + Soil, ms | g | 681.3 | 680.8 |
| Vt. Flask + Water (cal.), mc | g | 649.9 | 649.4 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9957 | 0.9951 |
| S.G. of Soil | | 2.6766 | 2.6693 |
| Av. S.G. of Soil | | | 2.67 |

SAMPLE NO. : B 2
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.221

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 30.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.3 | 680.2 |
| Vt. Flask + Water (cal.), mc | g | 648.9 | 648.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9957 | 0.9957 |
| S.G. of Soil | | 2.6766 | 2.6623 |
| Av. S.G. of Soil | | | 2.67 |

SAMPLE NO. : C 1
FLASK NO. : 1 Flask Calibration : mc = 656.8-0.231

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 23.0 | 28.0 |
| Vt. Flask + Water + Soil, ms | g | 682.8 | 681.8 |
| Vt. Flask + Water (cal.), mc | g | 651.5 | 650.4 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9976 | 0.9963 |
| S.G. of Soil | | 2.6660 | 2.6840 |
| Av. S.G. of Soil | | | 2.67 |

SAMPLE NO. : C 2
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.221

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 28.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.7 | 680.3 |
| Vt. Flask + Water (cal.), mc | g | 649.3 | 648.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9963 | 0.9957 |
| S.G. of Soil | | 2.6725 | 2.6766 |
| Av. S.G. of Soil | | | 2.67 |



SOIL MECHANIC SDN. BHD.
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PROJECT : M/S. INDEHAA CONSTRUCTION SDN. BHD.
LOCATION : KANGAR, PERLIS

File MSK/L/9411034
Date : 22/11/1994
By : TANARUL

SPECIFIC GRAVITY TEST RESULT

SAMPLE NO. : K 1
FLASK NO. : 1 Flask Calibration : mc = 656.8-0.231

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 28.0 | 29.0 |
| Vt. Flask + Water + Soil, ms | g | 681.6 | 681.4 |
| Vt. Flask + Water (cal.), mc | g | 650.4 | 650.1 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9963 | 0.9960 |
| S.G. of Soil | | 2.6554 | 2.6588 |
| Av. S.G. of Soil | | | 2.66 |

SAMPLE NO. : K 2
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.221

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 31.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.3 | 680.1 |
| Vt. Flask + Water (cal.), mc | g | 648.7 | 648.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9954 | 0.9957 |
| S.G. of Soil | | 2.7078 | 2.6481 |
| Av. S.G. of Soil | | | 2.68 |

SAMPLE NO. : K 4
FLASK NO. : 1 Flask Calibration : mc = 656.8-0.231

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 28.0 | 28.0 |
| Vt. Flask + Water + Soil, ms | g | 681.8 | 681.9 |
| Vt. Flask + Water (cal.), mc | g | 650.4 | 650.4 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9976 | 0.9963 |
| S.G. of Soil | | 2.6875 | 2.6985 |
| Av. S.G. of Soil | | | 2.69 |

SAMPLE NO. : K 3
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.221

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 31.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.3 | 680.5 |
| Vt. Flask + Water (cal.), mc | g | 648.7 | 648.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9954 | 0.9957 |
| S.G. of Soil | | 2.7078 | 2.7057 |
| Av. S.G. of Soil | | | 2.71 |



SOIL MECHANIC SDY. BHD.
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PROJECT : M/S. INDERAA CONSTRUCTION SDY. BHD.
LOCATION : KANGAR, PERLIS

File : NSK/L/9411034
Date : 22/11/1994
By : KANARUL

SPECIFIC GRAVITY TEST RESULT

SAMPLE NO. : K 5
FLASK NO. : 1 Flask Calibration : mc = 656.8-0.23t

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 28.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 682.0 | 681.5 |
| Vt. Flask + Water (cal.), mc | g | 650.4 | 649.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9963 | 0.9957 |
| S.G. of Soil | | 2.7132 | 2.7057 |
| Av. S.G. of Soil | | | 2.71 |

SAMPLE NO. : KA 1
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.22t

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 30.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.3 | 680.5 |
| Vt. Flask + Water (cal.), mc | g | 648.9 | 648.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9957 | 0.9957 |
| S.G. of Soil | | 2.6766 | 2.7057 |
| Av. S.G. of Soil | | | 2.69 |

SAMPLE NO. : KA 2
FLASK NO. : 1 Flask Calibration : mc = 656.8-0.23t

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 31.0 | 28.0 |
| Vt. Flask + Water + Soil, ms | g | 681.0 | 682.0 |
| Vt. Flask + Water (cal.), mc | g | 649.7 | 650.4 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9954 | 0.9963 |
| S.G. of Soil | | 2.6458 | 2.7132 |
| Av. S.G. of Soil | | | 2.69 |

SAMPLE NO. : KU 1
FLASK NO. : 1 Flask Calibration : mc = 656.8-0.23t

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 33.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.4 | 681.1 |
| Vt. Flask + Water (cal.), mc | g | 649.2 | 649.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9947 | 0.9957 |
| S.G. of Soil | | 2.6325 | 2.6481 |
| Av. S.G. of Soil | | | 2.66 |



SOIL MECHANIC SDY. BHD.
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PROJECT : M/S. INDERAA CONSTRUCTION SDY. BHD.
LOCATION : KANGAR, PERLIS

File : NSK/L/9411034
Date : 22/11/1994
By : KANARUL

SPECIFIC GRAVITY TEST RESULT

SAMPLE NO. : K 1
FLASK NO. : 1 Flask Calibration : mc = 656.8-0.23t

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 34.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.4 | 681.2 |
| Vt. Flask + Water (cal.), mc | g | 649.0 | 649.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9944 | 0.9957 |
| S.G. of Soil | | 2.6769 | 2.6823 |
| Av. S.G. of Soil | | | 2.67 |

SAMPLE NO. : KU 2
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.22t

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 32.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.0 | 680.4 |
| Vt. Flask + Water (cal.), mc | g | 648.5 | 648.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9951 | 0.9957 |
| S.G. of Soil | | 2.6953 | 2.6911 |
| Av. S.G. of Soil | | | 2.69 |

SAMPLE NO. : K 2
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.22t

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 21.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 682.2 | 680.4 |
| Vt. Flask + Water (cal.), mc | g | 650.9 | 648.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9980 | 0.9957 |
| S.G. of Soil | | 2.6713 | 2.6911 |
| Av. S.G. of Soil | | | 2.68 |



SOIL MECHANIC SDN. BHD.
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PROJECT : K/S. INDERAA CONSTRUCTION SDN. BHD.
LOCATION : KANGAR, PERLIS

File MSN/L/9411034
Date : 22/11/1994
By : KAHARUL

SPECIFIC GRAVITY TEST RESULT

SAMPLE NO. : N 3
FLASK NO. : 1 Flask Calibration : mc = 656.8-0.231

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 35.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.1 | 681.1 |
| Vt. Flask + Water (cal.), mc | g | 648.8 | 649.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9941 | 0.9957 |
| S.G. of Soil | | 2.6651 | 2.6481 |
| Av. S.G. of Soil | | | 2.66 |

SAMPLE NO. : N 4
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.221

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 30.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.4 | 639.3 |
| Vt. Flask + Water (cal.), mc | g | 648.9 | 648.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9957 | 0.9957 |
| S.G. of Soil | | 2.6911 | 2.6766 |
| Av. S.G. of Soil | | | 2.68 |

SAMPLE NO. : N 5
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.221

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 40.0 | 28.0 |
| Vt. Flask + Water + Soil, ms | g | 677.0 | 681.4 |
| Vt. Flask + Water (cal.), mc | g | 646.7 | 649.3 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9922 | 0.9963 |
| S.G. of Soil | | 2.5183 | 2.7768 |
| Av. S.G. of Soil | | | 2.65 |

SAMPLE NO. : N 6
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.221

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 35.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 679.6 | 680.2 |
| Vt. Flask + Water (cal.), mc | g | 647.8 | 648.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9941 | 0.9957 |
| S.G. of Soil | | 2.7310 | 2.6623 |
| Av. S.G. of Soil | | | 2.70 |



SOIL MECHANIC SDN. BHD.
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PROJECT : K/S. INDERAA CONSTRUCTION SDN. BHD.
LOCATION : KANGAR, PERLIS

File MSN/L/9411034
Date : 22/11/1994
By : KAHARUL

SPECIFIC GRAVITY TEST RESULT

SAMPLE NO. : N 7
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.221

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 30.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.1 | 679.7 |
| Vt. Flask + Water (cal.), mc | g | 648.9 | 648.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9957 | 0.9957 |
| S.G. of Soil | | 2.6481 | 2.5930 |
| Av. S.G. of Soil | | | 2.62 |

SAMPLE NO. : N 8
FLASK NO. : 1 Flask Calibration : mc = 656.8-0.231

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 30.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 680.8 | 681.3 |
| Vt. Flask + Water (cal.), mc | g | 648.2 | 649.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9947 | 0.9957 |
| S.G. of Soil | | 2.7015 | 2.6766 |
| Av. S.G. of Soil | | | 2.69 |

SAMPLE NO. : N 9
FLASK NO. : 2 Flask Calibration : mc = 655.5-0.221

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 33.0 | 29.0 |
| Vt. Flask + Water + Soil, ms | g | 679.8 | 680.8 |
| Vt. Flask + Water (cal.), mc | g | 648.2 | 649.1 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9947 | 0.9960 |
| S.G. of Soil | | 2.6971 | 2.7183 |
| Av. S.G. of Soil | | | 2.71 |

SAMPLE NO. : N 10
FLASK NO. : 1 Flask Calibration : mc = 656.8-0.231

| | | | |
|------------------------------|---|--------|--------|
| Temperature, t | C | 28.0 | 30.0 |
| Vt. Flask + Water + Soil, ms | g | 681.9 | 681.4 |
| Vt. Flask + Water (cal.), mc | g | 650.4 | 649.9 |
| Vt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9963 | 0.9957 |
| S.G. of Soil | | 2.6985 | 2.6911 |
| Av. S.G. of Soil | | | 2.69 |



SOIL MECHANIC SDN. BHD.
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PROJECT : M/S. INDERAA CONSTRUCTION SDN. BHD.
LOCATION : KANGAR, PERLIS

File MSK/L/9411034
Date : 22/11/1994
By : KAKARUL

SPECIFIC GRAVITY TEST RESULT

SAMPLE NO. : M 11
FLASK NO. : 2 Flask Calibration : $nc = 655.5-0.22t$

| | | | |
|---------------------------------|----|--------|--------|
| Temperature, t | °C | 28.0 | 28.0 |
| Wt. Flask + Water + Soil, m_s | g | 681.1 | 680.9 |
| Wt. Flask + Water (cal.), m_c | g | 649.3 | 649.3 |
| Wt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9963 | 0.9963 |
| S.G. of Soil | | 2.7311 | 2.7015 |
| Av. S.G. of Soil | | - | 2.72 |

SAMPLE NO. : M 12
FLASK NO. : 1 Flask Calibration : $nc = 656.8-0.23t$

| | | | |
|---------------------------------|----|--------|--------|
| Temperature, t | °C | 33.0 | 30.0 |
| Wt. Flask + Water + Soil, m_s | g | 680.8 | 681.2 |
| Wt. Flask + Water (cal.), m_c | g | 649.2 | 649.9 |
| Wt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9947 | 0.9957 |
| S.G. of Soil | | 2.7015 | 2.6623 |
| Av. S.G. of Soil | | - | 2.68 |

SAMPLE NO. : M 13
FLASK NO. : 2 Flask Calibration : $nc = 655.5-0.22t$

| | | | |
|---------------------------------|----|--------|--------|
| Temperature, t | °C | 33.0 | 30.0 |
| Wt. Flask + Water + Soil, m_s | g | 679.8 | 680.9 |
| Wt. Flask + Water (cal.), m_c | g | 648.2 | 648.9 |
| Wt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9947 | 0.9970 |
| S.G. of Soil | | 2.6971 | 2.6583 |
| Av. S.G. of Soil | | - | 2.68 |

SAMPLE NO. : M 14
FLASK NO. : 1 Flask Calibration : $nc = 656.8-0.23t$

| | | | |
|---------------------------------|----|--------|--------|
| Temperature, t | °C | 28.0 | 30.0 |
| Wt. Flask + Water + Soil, m_s | g | 682.0 | 681.6 |
| Wt. Flask + Water (cal.), m_c | g | 650.4 | 649.9 |
| Wt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9963 | 0.9957 |
| S.G. of Soil | | 2.7132 | 2.7205 |
| Av. S.G. of Soil | | - | 2.72 |



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PROJECT : M/S. INDERAA CONSTRUCTION SDN. BHD.
LOCATION : KANGAR, PERLIS

File MSK/L/9411034
Date : 22/11/1994
By : KAKARUL

SPECIFIC GRAVITY TEST RESULT

SAMPLE NO. : M 15
FLASK NO. : 2 Flask Calibration : $nc = 655.5-0.22t$

| | | | |
|---------------------------------|----|--------|--------|
| Temperature, t | °C | 32.0 | 30.0 |
| Wt. Flask + Water + Soil, m_s | g | 679.8 | 680.5 |
| Wt. Flask + Water (cal.), m_c | g | 648.5 | 648.9 |
| Wt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9951 | 0.9922 |
| S.G. of Soil | | 2.6664 | 2.6962 |
| Av. S.G. of Soil | | - | 2.68 |

SAMPLE NO. : S 1
FLASK NO. : 1 Flask Calibration : $nc = 656.8-0.23t$

| | | | |
|---------------------------------|----|--------|--------|
| Temperature, t | °C | 30.0 | 30.0 |
| Wt. Flask + Water + Soil, m_s | g | 681.2 | 681.3 |
| Wt. Flask + Water (cal.), m_c | g | 649.9 | 649.9 |
| Wt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9957 | 0.9957 |
| S.G. of Soil | | 2.6623 | 2.6766 |
| Av. S.G. of Soil | | - | 2.67 |

SAMPLE NO. : S 2
FLASK NO. : 2 Flask Calibration : $nc = 655.5-0.22t$

| | | | |
|---------------------------------|----|--------|--------|
| Temperature, t | °C | 29.0 | 30.0 |
| Wt. Flask + Water + Soil, m_s | g | 680.7 | 681.3 |
| Wt. Flask + Water (cal.), m_c | g | 649.1 | 648.9 |
| Wt. of Dry Soil | g | 50.0 | 50.0 |
| S.G. of Water at t °C | | 0.9960 | 0.9970 |
| S.G. of Soil | | 2.7036 | 2.7187 |
| Av. S.G. of Soil | | - | 2.71 |

