

DETERMINATION OF PARTICLE SIZE DISTRIBUTION  
BS 1377 PART 2 : 2022 Cl. 10, BS EN ISO 17892 PART 4 : 2016 Cl. 5.2

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No.: 172400123  
Project name : Quality Purpose  
Project number : -  
Owner : -  
Consultant : -  
Contractor : Ali Mousa Crushers L.L.C.  
Project location : Not Specified

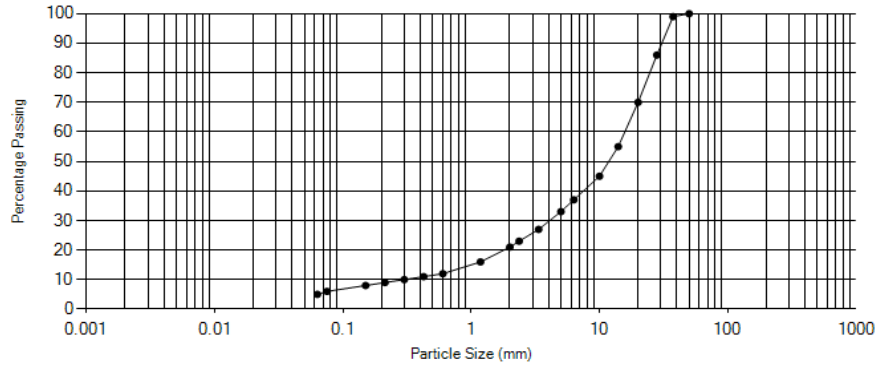


Request No. : KJ24-003218  
Sample No. : KS24-003218  
Report Date : 13/03/2024

Sample Description : Road Base  
Material Source : Ali Mousa Crushers  
Sampled by : Client  
Sampling Date & Time : 05/03/2024 , Not given  
Sampling Method : Not given  
Test Method : <sup>A</sup>BS 1377 PART 2 : 2022 Cl. 10, BS EN ISO 17892 PART 4 : 2016 Cl. 5.2  
Receiving Date & Time : 05/03/2024 , 02:00 PM  
Sampling Cert. No : Not given  
Client Ref. No. : Not given  
Sampling Location : Crusher Stockpile  
Sample Brought in by : Client  
Date of Test : 12/03/2024  
Test location : AHSL Kalba  
Tested by : EM00534  
Verified by : Nazer

TEST RESULTS

Test Sieve Size (mm)	Cumulative Passing (%)	Spec. Limit (%)
50.0	100	-
37.5	99	-
28.0	86	-
20.0	70	-
14.0	55	-
10.0	45	-
6.3	37	-
5.00	33	-
3.35	27	-
2.36	23	-
2.00	21	-
1.18	16	-
0.600	12	-
0.425	11	-
0.300	10	-
0.212	9	-
0.150	8	-
0.075	6	-
0.063	5	-



Sample Preparation Method: BS EN ISO 17892 PART 4 : 2016 Cl. 5.2.2

Test method variations : None

Remarks : None

<sup>A</sup> Indicates AHSL Kalba is accredited by EIAC (LB-TEST-165)

AHSL certifies that the above test was carried out in accordance with BS 1377 PART 2 : 2022 Cl. 10, BS EN ISO 17892 PART 4 : 2016 Cl. 5.2

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Report no.:KR24-003218-1

DETERMINATION OF PARTICLE SIZE DISTRIBUTION  
BS 1377 PART 2 : 2022 Cl. 10, BS EN ISO 17892 PART 4 : 2016 Cl. 5.2

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No.: 172400123  
Project name : Quality Purpose  
Project number : -  
Owner : -  
Consultant : -  
Contractor : Ali Mousa Crushers L.L.C.  
Project location : Not Specified



Report no.:KR24-003218-1

Request No. : KJ24-003218  
Sample No. : KS24-003218  
Report Date : 13/03/2024

TEST RESULTS



*[Signature]*

Approved by : Mr. Abdul Nazer, Laboratory Supervisor

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Report no.:KR24-003218-1

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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP  
BS 1377 PART 2 : 2022 Cl. 11.6

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No.: 172400123  
Project name : Quality Purpose  
Project number : -  
Owner : -  
Consultant : -  
Contractor : Ali Mousa Crushers L.L.C.  
Project location : Not Specified



Request No. : KJ24-003218  
Sample No. : KS24-003218  
Report Date : 11/03/2024

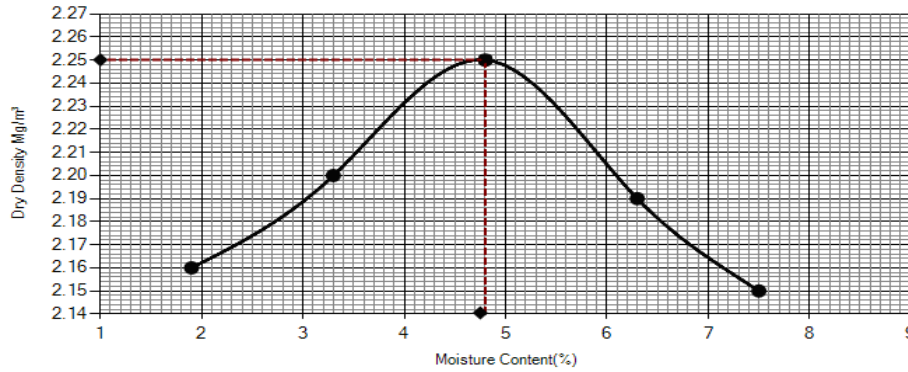
Sample Description : Road Base  
Material Source : Ali Mousa Crushers  
Sampled by : Client  
Sampling Date & Time : 05/03/2024  
Sampling Method : Not given  
Test Method : <sup>A</sup>BS 1377 PART 2 : 2022 Cl. 11.6  
Receiving Date & Time : 05/03/2024 , 02:00 PM  
Moisture content as received (%) : Moist  
Layer/s : 5  
Blows per Layer : 62  
Percent Retained on 20 mm / 37.5 mm Sieve (%) : 30 / 1

Client Ref. No. : Not given  
Sampling Location : Crusher Stockpile  
Sample Brought in by : Client  
Date of Test : 08/03/2024  
Test location : AHSL Kalba  
Procedure : 4.5 kg Rammer  
Mould : CBR  
Visual Description : Not given  
Volume of Mould (cm<sup>3</sup>): 2303  
Tested by : EM00534  
Verified by : Nazer

TEST RESULTS

Maximum Dry Density (Mg/m<sup>3</sup>) : 2.25

Optimum Moisture Content (%) : 4.8



Sample Preparation Method : Separate Batches / Clause 11.2.4.4  
Particle Density Test Method: BS 1377 Part 2,C19.2:2022  
Test method variations : None  
Remarks : Percentage of material retained on 20.0 mm sieve is more than specified.

<sup>A</sup> Indicates AHSL Kalba is accredited by EIAC (LB-TEST-165)

AHSL certifies that the above test was carried out in accordance with BS 1377 PART 2 : 2022 Cl. 11.6

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Report no.:KR24-003218-2

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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP  
BS 1377 PART 2 : 2022 Cl. 11.6

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No.: 172400123  
Project name : Quality Purpose  
Project number : -  
Owner : -  
Consultant : -  
Contractor : Ali Mousa Crushers L.L.C.  
Project location : Not Specified



Report no.:KR24-003218-2

Request No. : KJ24-003218  
Sample No. : KS24-003218  
Report Date : 11/03/2024



*[Signature]*

Approved by : Mr. Abdul Nazer, Laboratory Supervisor

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Report no.:KR24-003218-2

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CALIFORNIA BEARING RATIO (CBR)  
BS 1377 PART 2 : 2022 Cl. 15.2.3.2

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No.: 172400123



Project name : Quality Purpose  
Project number : -  
Owner : -  
Consultant : -  
Contractor : Ali Mousa Crushers L.L.C.  
Project location : Not Specified

Request No. : KJ24-003218  
Sample No. : KS24-003218  
Report Date : 20/03/2024

Sample Description : Road Base  
Material Source : Ali Mousa Crushers  
Sampled by : Client  
Sampling Date & Time : 05/03/2024 , Not given  
Sampling Method : Not given  
Test Method : <sup>A</sup>BS 1377 PART 2 : 2022 Cl. 15.2.3.2  
Receiving Date & Time : 05/03/2024 , 02:00 PM  
Sampling Cert. No : Not given

Client Ref. No. : Not given  
Sample Quantity : Not given  
Sampling Location : Crusher Stockpile  
Sample Brought in by : Client  
Date of Test : 15/03/2024 - 19/03/2024  
Sample Type : Soil  
Test location : AHSL Kalba  
Tested by : EM00534  
Verified by : Nazer

TEST RESULTS

Room Temperature (°C) : 24  
Relative Humidity (%) : 42  
MDD (Mg/m<sup>3</sup>) : 2.25  
OMC (%) : 4.8  
Compaction of Specimen : 98 % of MDD  
Retained on 20mm Sieve (%) : 30  
Compaction Type : Method (1)  
Surcharge Weight (kg) : 4  
Swell (%) : Nil  
Dry Density before soaking (Mg/m<sup>3</sup>) : 2.20  
Moisture Content before soaking (%) : 4.8  
Moisture Content after soaking (%) :  
Top : 7.0  
Bottom : 6.8  
Average : 6.9

CBR Value (%)	TOP	BOTTOM
CBR Values at 2.5 mm Penetration %	95	105
CBR Values at 5.0 mm Penetration %	97	110

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Report no.:KR24-003218-3

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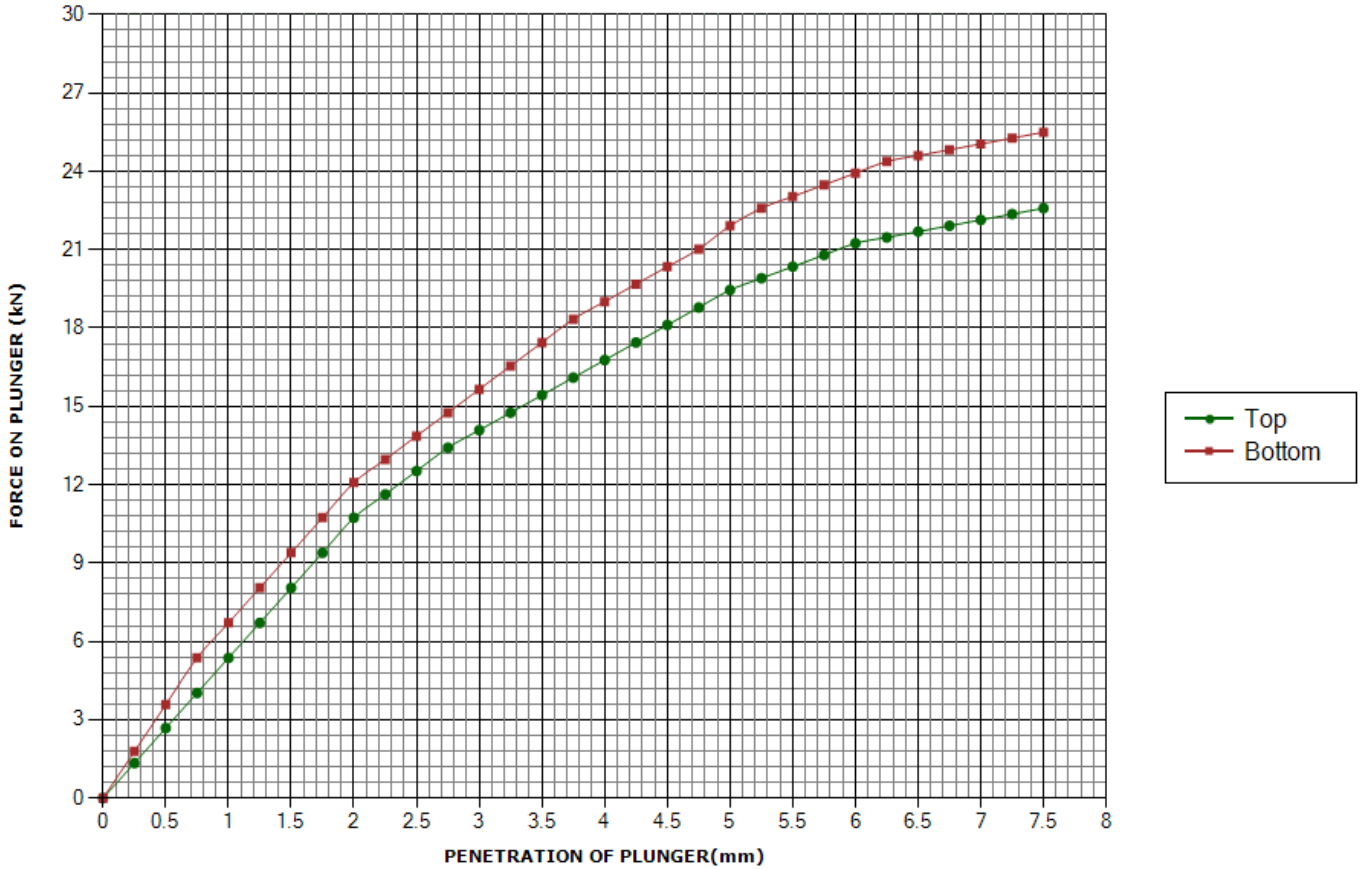
E-mail : alhoty@alhotystanger.ae, Website : www.alhotystangeruae.com

CALIFORNIA BEARING RATIO (CBR)  
BS 1377 PART 2 : 2022 Cl. 15.2.3.2

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No.: 172400123



Force v/s Penetration Chart



Sample Preparation Method: BS 1377 Part 2:2022, Cl 15.2.3.2

Test method variations : None

Remarks : Percentage of material retained on 20.0 mm sieve is more than specified.

<sup>A</sup> Indicates AHSL Kalba is accredited by EIAC (LB-TEST-165)

AHSL certifies that the above test was carried out in accordance with BS 1377 PART 2 : 2022 Cl. 15.2.3.2



Approved by : Mr. Abdul Nazer, Laboratory Supervisor

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LIQUID LIMIT & PLASTIC LIMIT

BS 1377 PART 2 : 2022 CL: 5 & 6 / BS EN ISO 17892 - PART 12 : 2018 + A2 : 2022 CL : 5.3, 5.5 & 6.5

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No.: 172400123



Project name : Quality Purpose  
Project number : -  
Owner : -  
Consultant : -  
Contractor : Ali Mousa Crushers L.L.C.  
Project location : Not Specified

Request No. : KJ24-003218  
Sample No. : KS24-003218  
Report Date : 14/03/2024

Sample Description : Road Base [as Identified by client]  
Material Source : Ali Mousa Crushers  
Sampled by : Client  
Sampling Date & Time : 05/03/2024 , Not Given  
Sampling Method : Not given  
Test Method : <sup>A</sup>BS 1377 PART 2 : 2022 CL: 5 & 6 / BS EN ISO 17892 -  
PART 12 : 2018 + A2 : 2022 CL : 5.3, 5.5 & 6.5  
Receiving Date & Time : 05/03/2024 , 02:00 PM  
Visual Description : Gray colour gravel with sand  
History of Sample : Moist  
Tested

Client Ref. No. : Not given  
Sample Quantity : Not given  
Sampling Location : Crusher Stockpile  
Sample Brought in by : Client  
Date of Test : 13/03/2024  
Test location : AHSL Kalba  
Tested by : EM00534  
Verified by : Nazer

TEST RESULTS

Percentage Passing on 425 micron by wet sieving : 11

Test Parameters	Results
Liquid Limit %	Could not be determined
Plastic Limit %	Could not be obtained
Plasticity Index ( $I_p$ )	Non-plastic

Sample Preparation Method : BS EN ISO 17892 - Part 12 : 2018 + A2 : 2022 CL : 5.2  
Method used to obtain Liquid Limit: 4 Point/Increasing water content/80g/30° Cone.  
Test method variations : None  
Remarks : None

<sup>A</sup> Indicates AHSL Kalba is accredited by EIAC (LB-TEST-165)

AHSL certifies that the above test was carried out in accordance with BS 1377 PART 2 : 2022 CL: 5 & 6 / BS EN ISO 17892 - PART 12 : 2018 + A2 : 2022 CL : 5.3, 5.5 & 6.5



*[Signature]*

Approved by : Mr. Abdul Nazer, Laboratory Supervisor

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Report no.:KR24-003218-4

DETERMINATION OF SAND EQUIVALENT VALUE OF SOILS & FINE AGGREGATES  
ASTM D 2419 : 2022

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No.: 172400123  
Project name : Quality Purpose  
Project number : -  
Owner : -  
Consultant : -  
Contractor : Ali Mousa Crushers L.L.C.  
Project location : Not Specified



Request No. : KJ24-003218  
Sample No. : KS24-003218  
Report Date : 11/03/2024

Sample Description : Road Base [as Identified by client]  
Source : Ali Mousa Crushers  
Supplier : Ali Mousa Crushers  
Sampled by : Client  
Sampling Date & Time : 05/03/2024 , Not Given  
Sampling Method : Not given  
Test Method : <sup>A</sup>ASTM D 2419 : 2022  
Receiving Date & Time : 05/03/2024 , 02:00 PM  
Sampling Cert. No : Not given  
Moisture Condition : Moist

Client Ref. No. : Not given  
Lot No. : Not given  
Lot Size : Not given  
Sampling Location : Crusher Stockpile  
Sample Brought in by : Client  
Sample Size : 150 kg Approximately  
Date of Test : 09/03/2024  
Test location : AHSL Kalba  
Tested by : EM00534  
Verified by : Nazer

TEST RESULTS

Method of Shaking : Mechanical Shaker

Test Parameter	Result
Sand Equivalent Value(SE)	48

Project limit : Not given  
Sample Preparation Method: ASTM D 2419 : 9.4.2  
Test method variations : None  
Remarks : None

Indicates AHSL Kalba is accredited by EIAC (LB-TEST-165)

AHSL certifies that the above test was carried out in accordance with ASTM D 2419 : 2022



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Report no.: KR24-003218-5

RESISTANCE TO DEGRADATION OF SMALL SIZE COARSE AGGREGATE BY ABRASION AND  
IMPACT IN THE LOS ANGELES MACHINE  
ASTM C 131 / C 131M : 2020

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No.: 172400123  
Project name : Quality Purpose  
Project number : -  
Owner : -  
Consultant : -  
Contractor : Ali Mousa Crushers L.L.C.  
Project location : Not Specified



Report no.:KR24-003218-6

Sample Description : Road Base [as Identified by client]  
Source : Ali Mousa Crushers  
Supplier : Ali Mousa Crushers  
Sampled by : Client  
Sampling Date & Time : 05/03/2024 , Not Given  
Sampling Method : Not given  
Test Method : ASTM C 131 / C 131M : 2020  
Receiving Date & Time : 05/03/2024 , 02:00 PM  
Sampling Cert. No : Not given  
Moisture Condition : Moist

Client Ref. No. : Not given  
Lot No. : Not given  
Lot Size : Not given  
Sampling Location : Crusher Stockpile  
Sample Brought in by : Client  
Sample Size : 150 kg Approximately  
Date of Test : 14/03/2024  
Test location : AHSL Kalba  
Tested by : EM00534  
Verified by : Nazer

TEST RESULTS

Test Parameter	Unit	Result
Loss by Abrasion and Impact	%	25

Grading designation of sample tested : A  
Sample Preparation Method : ASTM C 131/C131M : CL.8  
Test method variations : None  
Remarks : None

<sup>A</sup> Indicates AHSL Kalba is accredited by EIAC (LB-TEST-165)

AHSL certifies that the above test was carried out in accordance with ASTM C 131 / C 131M : 2020



*(Signature)*

Approved by : Mr. Abdul Nazer, Laboratory Supervisor

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Report no.:KR24-003218-6

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DETERMINATION OF FLAKINESS INDEX  
BS 812 Part 105.1 : 1989

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No. : 172400123  
Project name : Quality Purpose  
Project number : -  
Owner : -  
Consultant : -  
Contractor : Ali Mousa Crushers L.L.C.  
Project location : Not Specified



Request No. : KJ24-003218  
Sample No. : KS24-003218  
Report Date : 15/03/2024

Sample Description : Road Base [as Identified by client]  
Source : Ali Mousa Crushers  
Supplier : Ali Mousa Crushers  
Sampled by : Client  
Sampling Date & Time : 05/03/2024 , Not Given  
Sampling Method : Not given  
Test Method : <sup>A</sup>BS 812 Part 105.1 : 1989  
Receiving Date & Time : 05/03/2024 , 02:00 PM  
Sampling Cert. No : Not given  
Moisture Condition : Moist

Client Ref. No. : Not given  
Lot No. : Not given  
Lot Size : Not given  
Sampling Location : Crusher Stockpile  
Sample Brought in by : Client  
Sample Size : 150 kg Approximately  
Date of Test : 14/03/2024  
Test location : AHSL Kalba  
Tested by : EM00534  
Verified by : Nazer

TEST RESULTS

Test Sieve Size(mm)	Percentage Retained
50.0 - 37.5	2
37.5 - 28.0	19
28.0 - 20.0	25
20.0 - 14.0	25
14.0 - 10.0	16
10.0 - 6.3	13
<b>Flakiness Index</b>	<b>23</b>

Sample Preparation Method: BS 812 : PART 105.1 : 1989 Cl :6

Test method variations : None

Remarks : None

<sup>A</sup> Indicates AHSL Kalba is accredited by EIAC (LB-TEST-165)

AHSL certifies that the above test was carried out in accordance with BS 812 Part 105.1 : 1989



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Report no.:KR24-003218-7

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DETERMINATION OF ELONGATION INDEX  
BS 812 Part 105.2 : 1990

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No. : 172400123  
Project name : Quality Purpose  
Project number : -  
Owner : -  
Consultant : -  
Contractor : Ali Mousa Crushers L.L.C.  
Project location : Not Specified



Report no.:KR24-003218-8

Sample Description : Road Base [as Identified by client]  
Source : Ali Mousa Crushers  
Supplier : Ali Mousa Crushers  
Sampled by : Client  
Sampling Date & Time : 05/03/2024 , Not Given  
Sampling Method : Not given  
Test Method : <sup>A</sup>BS 812 Part 105.2 : 1990  
Receiving Date & Time : 05/03/2024 , 02:00 PM  
Sampling Cert. No : Not given  
Moisture Condition : Moist

Request No. : KJ24-003218  
Sample No. : KS24-003218  
Report Date : 15/03/2024  
Client Ref. No. : Not given  
Lot No. : Not given  
Lot Size : Not given  
Sampling Location : Crusher Stockpile  
Sample Brought in by : Client  
Sample Size : 150 kg Approximately  
Date of Test : 14/03/2024  
Test location : AHSL Kalba  
Tested by : EM00534  
Verified by : Nazer

TEST RESULTS

Test Sieve Size(mm)	Percentage Retained
50.0 - 37.5	2
37.5 - 28.0	19
28.0 - 20.0	25
20.0 - 14.0	25
14.0 - 10.0	16
10.0 - 6.3	13
<b>Elongation Index</b>	<b>35</b>

Sample Preparation Method: BS 812 Part 105 CL.6

Test method variations : None

Remarks : None

<sup>A</sup> Indicates AHSL Kalba is accredited by EIAC (LB-TEST-165)

AHSL certifies that the above test was carried out in accordance with BS 812 Part 105.2 : 1990



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Report no.:KR24-003218-8

CHEMICAL ANALYSIS OF SOIL

Client : Ali Mousa Crushers L.L.C.  
Address : PO Box. 2856, Fujairah, UAE  
Contact person : Mr. Hari Kishun  
Contract/LPO No.: 172400123



Report no.:KR24-003218-9

Project name : Quality Purpose

Project number : -

Owner : -

Consultant : -

Contractor : Ali Mousa Crushers L.L.C.

Project location : Not Specified

Sample Description : Road Base

Material Source : Ali Mousa Crushers

Sampled by : Client

Sampling Date & Time : 05/03/2024 ,

Sampling Method : Not Given

Receiving Date & Time : 05/03/2024 , 02:00 PM

Moisture Condition : Moist

Sample Type : Soil

Sampling Cert. No : Not Given

Request No. : KJ24-003218

Sample No. : KS24-003218

Report Date : 13/03/2024

Client Ref. No. : Not Given

Sample Quantity : 150 kg Approximately

Sampling Location : Crusher Stockpile

Sample Brought in by: Client

Date of Test : 09/03/2024 - 12/03/2024

Tested by : AHSL-SC

Test location : AHSL-RAK

Verified by : Nazer

TEST RESULTS

Test Parameters	Test Method	Units	Results	MoU
Acid Soluble Chloride Content (Cl)	BS 1377 PART 3 : 2018; Cl 9.3	% by weight	0.02	±0.001
Acid Soluble Sulphate Content (SO <sub>4</sub> )	BS 1377 PART 3 : Cl 7.6 & 7.9:2018	% by weight	0.08	±0.005
Organic Matter Content	BS 1377: PART 3: METHOD 4: 2021	% by weight	<0.10	--

Notes : MoU:Measurement of Uncertainty.The Reported uncertainty is an expanded uncertainty calculated using a coverage factor k=2,which gives a level of confidence of approximately 95%

Sample Preparation Method: BS 1377 PART 3 : Cl 7.9 : 2018;BS 1377 PART 3 : Cl 9.3.3.2;2018;BS 1377 Part 3: 1990

Test method variations : Nil;None

Remarks : Subcontract : Tested at our AHSL facility in Ras Al Khaimah

AHSL certifies that the above test was carried out in accordance with BS 1377 PART 3 : Cl 7.6 7.9:2018, BS 1377 PART 3 : 2018; Cl 9.3, BS 1377: PART 3: METHOD 4: 2021



*(Handwritten Signature)*

Approved by : Mr. Abdul Nasir C M, Assistant Laboratory  
Manager

THIS IS A COMPUTER GENERATED REPORT AND NO SIGNATURE IS REQUIRED

This report relates only to the sample tested and shall only be reproduced in full and with approval of AHS Laboratories

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