

DETERMINATION OF PARTICLE SIZE DISTRIBUTION
BS 812 Part 103-1: Cl 7.2 : 1985 (Wet method)

Client : Ali Mousa Crushers L.L.C.
Address : PO Box. 2856, Fujairah, UAE
Contact person : Mr. Hari Kishun
Contract/LPO No.: KQ24-00169
Project name : Quality Purpose
Project number : -
Owner : Ali Mousa Crushers L.L.C.
Consultant : Not Applicable
Contractor : Not given
Project location : -



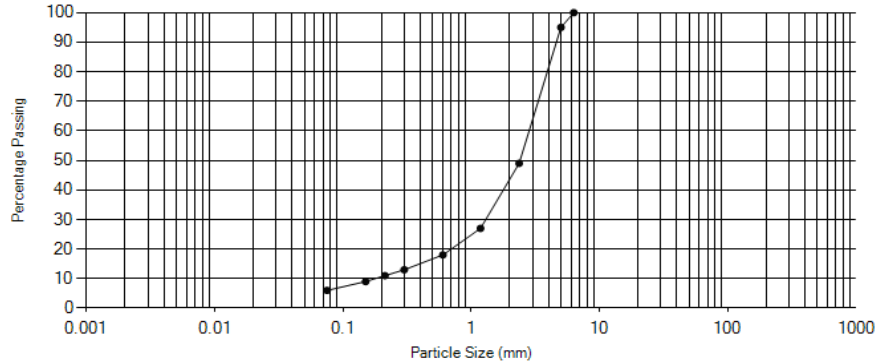
Request No. : KJ24-005591
Sample No. : KS24-005594
Report Date : 14/05/2024

Sample Description : 0-5mm Crushed Sand[as Identified by client]
Source : Ali Mousa Crushers
Supplier : Not given
Sampled by : AHSL Rep.
Sampling Date & Time : 06/05/2024 , 03:30 PM
Sampling Method : ASTM D 75:19
Test Method : ^ABS 812 Part 103-1: Cl 7.2 : 1985 (Wet method)
Receiving Date & Time : 06/05/2024 , 06:30 PM
Sampling Cert. No : Not given
Moisture Condition : Dry

Client Ref. No. : Not given
Lot No. : Not given
Lot Size : Not given
Sampling Location : Crusher Stockpile
Sample Brought in by : AHSL Rep.
Sample Size : 50kg Approximately
Date of Test : 13/05/2024
Test location : AHSL-KALBA
Tested by : EM00549
Verified by : Nazer

TEST RESULTS

Test Sieve Size (mm)	Cumulative Passing (%)	Spec. Limit (%)
6.3	100	-
5.0	95	-
2.36	49	-
1.18	27	-
0.600	18	-
0.300	13	-
0.212	11	-
0.150	9	-
0.075	6	-



Sample Preparation Method: BS 812 PART 102 Cl.6

Test method variations : None
Remarks : None

^A 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 103-1: Cl 7.2 : 1985 (Wet method)



(Signature)

Approved by : Mr. Abdul Nazer, Laboratory Supervisor

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Report no.:KR24-005594-1

PERCENTAGE OF MATERIAL PASSING 75 µm SIEVE
BS 812 Part 103 : 1985 Cl 7.2

Client : Ali Mousa Crushers L.L.C.
Address : PO Box. 2856, Fujairah, UAE
Contact person : Mr. Hari Kishun
Contract/LPO No.: KQ24-00169
Project name : Quality Purpose
Project number : -
Owner : Ali Mousa Crushers L.L.C.
Consultant : Not Applicable
Contractor : Not given
Project location : -



Report no.:KR24-005594-2

Sample Description : 0-5mm Crushed Sand[as Identified by client]
Source : Ali Mousa Crushers
Supplier : Not given
Sampled by : AHSL Rep.
Sampling Date & Time : 06/05/2024 , 03:30 PM
Sampling Method : ASTM D 75:19
Test Method : BS 812 Part 103 : 1985 Cl 7.2
Receiving Date & Time : 06/05/2024 , 06:30 PM
Sampling Cert. No : Not given
Moisture Condition : Dry

Client Ref. No. : Not given
Lot No. : Not given
Lot Size : Not given
Sampling Location : Crusher Stockpile
Sample Brought in by : AHSL Rep.
Sample Size : 50kg Approximately
Date of Test : 13/05/2024
Test location : AHSL-KALBA
Tested by : EM00549
Verified by : Nazer

TEST RESULTS

Test Parameter	Unit	Result
Percentage of material passing 75 µm sieve (by washing and sieving)	%	6.0

Sample Preparation Method: BS 812 PART 102 Cl.6

Test method variations : None

Remarks : None

AHSL certifies that the above test was carried out in accordance with BS 812 Part 103 : 1985 Cl 7.2



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Approved by : Mr. Abdul Nazer, Laboratory Supervisor

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DETERMINATION OF CLAY LUMPS & FRIABLE PARTICLES IN AGGREGATES
ASTM C 142/C 142M :2017

Client : Ali Mousa Crushers L.L.C.
Address : PO Box. 2856, Fujairah, UAE
Contact person : Mr. Hari Kishun
Contract/LPO No.: KQ24-00169



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

Request No. : KJ24-005591
Sample No. : KS24-005594
Report Date : 11/05/2024

Sample Description : 0-5mm Crushed Sand[as Identified by client]
Source : Ali Mousa Crushers
Supplier : Not given
Sampled by : AHSL Rep.
Sampling Date & Time : 06/05/2024 , 03:30 PM
Sampling Method : ASTM D 75:19
Test Method : ^AASTM C 142/C 142M :2017
Receiving Date & Time : 06/05/2024 , 06:30 PM
Sampling Cert. No : Not given
Moisture Condition : Dry

Client Ref. No. : Not given
Lot No. : Not given
Lot Size : Not given
Sampling Location : Crusher Stockpile
Sample Brought in by : AHSL Rep.
Sample Size : 50kg Approximately
Date of Test : 10/05/2024
Test location : AHSL-KALBA
Tested by : EM00549
Verified by : Nazer

TEST RESULTS

ClayLumps And Friable Particles, %	
Fine Fraction	Coarse Fraction
Nil	-

Sample Preparation Method: ASTM C 142/C142M:17

Test method variations : None

Remarks : None

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

AHSL certifies that the above test was carried out in accordance with ASTM C 142/C 142M :2017



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SPECIFIC GRAVITY & ABSORPTION OF FINE AGGREGATE
ASTM C 128 : 2022

Client : Ali Mousa Crushers L.L.C.
Address : PO Box. 2856, Fujairah, UAE
Contact person : Mr. Hari Kishun
Contract/LPO No. : KQ24-00169
Project name : Quality Purpose
Project number : -
Owner : Ali Mousa Crushers L.L.C.
Consultant : Not Applicable
Contractor : Not given
Project location : -



Report no.:KR24-005594-4

Sample Description : 0-5mm Crushed Sand[as Identified by client]
Source : Ali Mousa Crushers
Supplier : Not given
Sampled by : AHSL Rep.
Sampling Date & Time : 06/05/2024 , 03:30 PM
Sampling Method : ASTM D 75:19
Test Method : ASTM C 128 : 2022
Receiving Date & Time : 06/05/2024 , 06:30 PM
Sampling Cert. No : Not given
Moisture Condition : Dry
Request No. : KJ24-005591
Sample No. : KS24-005594
Report Date : 14/05/2024
Client Ref. No. : Not given
Lot No. : Not given
Lot Size : Not given
Sampling Location : Crusher Stockpile
Sample Brought in by : AHSL Rep.
Sample Size : 50kg Approximately
Date of Test : 13/05/2024
Test location : AHSL-KALBA
Tested by : EM00549
Verified by : Nazer

TEST RESULTS

Artificial Heating Prior to Testing : Oven Dried

Test Parameter	Result
Specific Gravity (Oven Dry)	2.67
Specific Gravity (Saturated Surface Dry)	2.70
Apparent Specific Gravity	2.75
Water Absorption, (%)	1.1

Sample Preparation Method: ASTM C 128 CL 8

Test method variations : None

Remarks : None

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

AHSL certifies that the above test was carried out in accordance with ASTM C 128 : 2022



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DETERMINATION OF SOUNDNESS OF AGGREGATE
ASTM C 88 / C 88M : 2018

Client : Ali Mousa Crushers L.L.C.
Address : PO Box. 2856, Fujairah, UAE
Contact person : Mr. Hari Kishun
Contract/LPO No. : KQ24-00169
Project name : Quality Purpose
Project number : -
Owner : Ali Mousa Crushers L.L.C.
Consultant : Not Applicable
Contractor : Not given
Project location : -



Request No. : KJ24-005591
Sample No. : KS24-005594
Report Date : 14/05/2024

Sample Description : 0-5mm Crushed Sand[as Identified by client]
Source : Ali Mousa Crushers
Supplier : Not Given
Sampled by : AHSL Rep.
Sampling Date & Time : 06/05/2024 , 03:30 PM
Sampling Method : ASTM D 75:19
Test Method : ^A ASTM C 88 / C 88M : 2018
Receiving Date & Time : 06/05/2024 , 06:30 PM
Sampling Cert. No : Not Given
Moisture Condition : Dry

Client Ref. No. : Not Given
Lot No. : Not Given
Lot Size : Not Given
Sampling Location : Crusher Stockpile
Sample Brought in by : AHSL Rep.
Sample Size : 50kg Approximately
Date of Test : 08/05/2024 - 13/05/2024
Test location : AHSL-KALBA
Tested by : EM00549
Verified by : Nazer

TEST RESULTS

Solution Used : MgSO ₄	Specific gravity of solution : 1.298
Age of solution : Fresh	Number of cycles : 5
Total grading % of coarse aggregate : 4	Total grading % of fine aggregate : 96

FINE AGGREGATE

Test Sieve Size(mm)	Original Grading of Sample(%)	Mass of Test Fraction Before Test,(g)	Mass Retained Designated Sieve after Test ,(g)	Percentage Passing Designated Sieve after Test	Percentage Weighted Loss
4.75mm - 2.36mm	48	100.0	95.6	4.4	2.1
2.36mm - 1.18mm	23	100.0	93.5	6.5	1.5
1.18mm - 0.600mm	10	100.0	94.0	6.0	0.6
0.600mm - 0.300mm	5	100.0	94.0	6.0	0.3
Minus 0.300mm	14	-	-	0	0.0

Total of Fine Aggregate(%) : 96 % Weighted Loss : 5

Test method variations : None
Remarks : None

^A Indicates AHSL Kalba is accredited by EIAC (LB-TEST-165)
AHSL certifies that the above test was carried out in accordance

: 88M : 2018



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DETERMINATION OF BULK DENSITY

BS 812 Part 2: cl 6.3, 4.1 & 4.2: 1995 AMD 9195: 1996

Client : Ali Mousa Crushers L.L.C.
Address : PO Box. 2856, Fujairah, UAE
Contact person : Mr. Hari Kishun
Contract/LPO No.: KQ24-00169



Report no.:KR24-005594-6

Project name : Quality Purpose

Project number : -

Owner : Ali Mousa Crushers L.L.C.

Consultant : Not Applicable

Contractor : Not given

Project location : -

Request No. : KJ24-005591

Sample No. : KS24-005594

Report Date : 11/05/2024

Sample Description : 0-5mm Crushed Sand[as Identified by client]

Source : Ali Mousa Crushers

Supplier : Not given

Sampled by : AHSL Rep.

Sampling Date & Time : 06/05/2024 , 03:30 PM

Sampling Method : ASTM D 75:19

Test Method : BS 812 Part 2: cl 6.3, 4.1 & 4.2: 1995 AMD 9195: 1996

Receiving Date & Time : 06/05/2024 , 06:30 PM

Sampling Cert. No : Not given

Moisture Condition : Dry

Client Ref. No. : Not given

Lot No. : Not given

Lot Size : Not given

Sampling Location : Crusher Stockpile

Sample Brought in by : AHSL Rep.

Sample Size : 50kg Approximately

Date of Test : 10/05/2024

Test location : AHSL-KALBA

Tested by : EM00549

Verified by : Nazer

TEST RESULTS

Test Parameter	Unit	Result
Compacted Bulk Density	Mg/m ³	1.71
Uncompacted Bulk Density	Mg/m ³	1.55

Sample Preparation Method: BS 812 Part 1, Cl :5

Test method variations : None

Remarks : None

AHSL certifies that the above test was carried out in accordance with BS 812 Part 2: cl 6.3, 4.1 & 4.2: 1995 AMD 9195: 1996



(Signature)

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CHEMICAL ANALYSIS OF AGGREGATE

Client : Ali Mousa Crushers L.L.C.
Address : PO Box. 2856, Fujairah, UAE
Contact person : Mr. Hari Kishun
Contract/LPO No.: KQ24-00169
Project name : Quality Purpose
Project number : -
Owner : Ali Mousa Crushers L.L.C.
Consultant : Not Applicable
Contractor : Not given
Project location : -



Report no.:KR24-005594-7

Sample Description : 0-5mm Crushed Sand[as Identified by client] Client Ref. No. : Not Given
Source : Ali Mousa Crushers Lot No. : Not Given
Supplier : Not Given Lot Size : Not Given
Sampled by : AHSL Rep. Sampling Location : Crusher Stockpile
Sampling Date & Time : 06/05/2024 03:30 PM Sample Brought in by : AHSL Rep.
Sampling Method : ASTM D 75:19 Date of Test : 08/05/2024 - 13/05/2024
Receiving Date & Time : 06/05/2024 , 06:30 PM Test location : AHSL-RAK
Sampling Cert. No : Not Given Tested by : AHSL-SC
Sample Size : 50kg Approximately Verified by : Nazer
Moisture Condition : Dry

TEST RESULTS

Test Parameters	Test Method	Units	Results	MoU
Acid Soluble Chloride Content(Cl)	BS 812 Part 117; App C: 1988	% by weight	0.02	±0.002
Acid Soluble Sulphate Content (SO ₃)	BS 812 Part 118; M6: 1988	% by weight	0.05	±0.006
Light Weight Particles	ASTM C 123/C123 M : 2014	% by weight	<0.1	-

Organic Impurities in Fine Aggregate For Concrete

Test Parameters	Test Method
Organic Impurities in Fine Aggregate For Concrete	ASTM C 40 : 2020
Remarks	
Colour of supernatant liquid is lighter than that of reference standard color solution	

Potential Alkali - Silica Reactivity

Test Method	Units
ASTM C 289 : 2007	mmol/L

Reduction in Alkalinity Millimoles per liter	Silica Concentration Millimoles per liter
105±6.1	6.0±0.28
105±6.1	6.0±0.28
105±6.1	6.0±0.28

Test method variations : None

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

AHSL certifies that the above test was carried out in accordance with ASTM C 123/C123 M : 2014, ASTM C 289 : 2007, ASTM C 40 : 2020, BS 812 Part 117; App C: 1988, BS 812 Part 118; M6: 1988

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CHEMICAL ANALYSIS OF AGGREGATE

Client : Ali Mousa Crushers L.L.C.
Address : PO Box. 2856, Fujairah, UAE
Contact person : Mr. Hari Kishun
Contract/LPO No.: KQ24-00169
Project name : Quality Purpose
Project number : -
Owner : Ali Mousa Crushers L.L.C.
Consultant : Not Applicable
Contractor : Not given
Project location : -



Report no.:KR24-005594-7

Request No. : KJ24-005591
Sample No. : KS24-005594
Report Date : 14/05/2024



(Handwritten signature)

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

الحوطي
ALHOTY

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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.: KQ24-00169



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

Request No. : KJ24-005591
Sample No. : KS24-005594
Report Date : 11/05/2024

Sample Description : 0-5mm Crushed Sand[as Identified by client]
Source : Ali Mousa Crushers
Supplier : Not given
Sampled by : AHSL Rep.
Sampling Date & Time : 06/05/2024 , 03:30 PM
Sampling Method : ASTM D 75:19
Test Method : ^AASTM D 2419 : 2022
Receiving Date & Time : 06/05/2024 , 06:30 PM
Sampling Cert. No : Not given
Moisture Condition : Dry

Client Ref. No. : Not given
Lot No. : Not given
Lot Size : Not given
Sampling Location : Crusher Stockpile
Sample Brought in by : AHSL Rep.
Sample Size : 50kg Approximately
Date of Test : 10/05/2024
Test location : AHSL-KALBA
Tested by : EM00549
Verified by : Nazer

TEST RESULTS

Method of Shaking : Mechanical Shaker

Test Parameter	Result
Sand Equivalent Value(SE)	68

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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