



Lonestar Alpha Laboratories

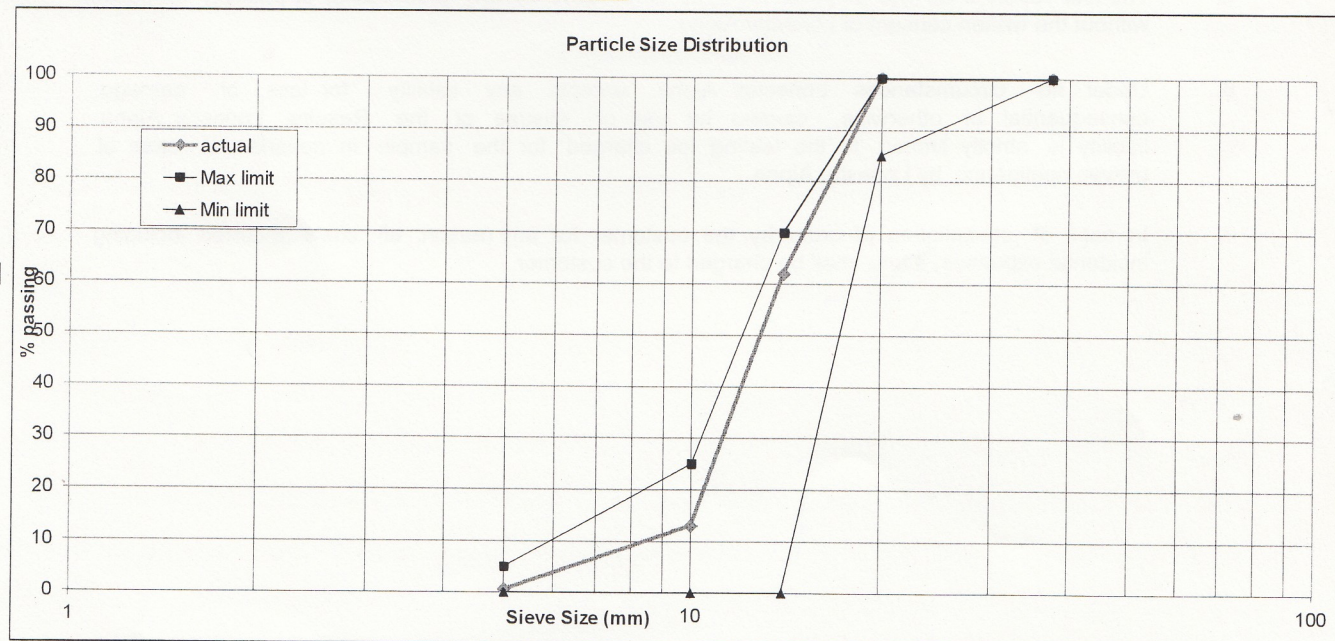
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REPORT ON ANALYSIS OF AGGREGATE

Report No.	LSCIV09-9155/4	Report Date	02.02.2013
Sample No.	SCIV13-0144/4	Date Received	20.01.2013
Sampling Date	20.01.2013	Project Client	NG
Client / Customer	Abdulla Ali Al Kashry & Partners LLC	Consultant	NG
Project.	Abdulla Ali Al Kashry & Partners LLC	Sampled by	Customer
Sample Description	20 mm Crushed Aggregate	Sample Preparation	BS 812 Part 101:1984
Sample Source	AL Kashry Crusher Sohar	Test Date	20.01.13 to 31.01.13
Sampling Location	Stock Pile Crusher	Tested by	NPK
Client Sample Ref.	04	Verified	RMP
Test Location	Lonestar Alpha Lab Sohar & muscat		

1. Particle Size Analysis (BS 812 Section 103.1 : 1985)

Sieve (mm)	37.5	20.0	14.0	10.0	5.0
% passing	100	100	62	13	0.2



Note : The above limits from BS 882 : 1992 Table 3.





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REPORT ON ANALYSIS OF AGGREGATE (Contd')

Report No:	LSCIV/09-9155/4
Client Ref:	Sample # 4

Date Received	20 th January 2013
Date Reported	02 nd February 2013

Sample Description: 20mm Crushed Aggregate

2. Physical Analysis & Mechanical Properties

Test	Test Method	Result
Particle density (oven dried) Mg/m ³	BS 812 Part 2 : 1995	2.88
Particle density (SSD) Mg/m ³		2.90
Apparent Relative density Mg/m ³		2.94
Water Absorption %		0.6
Clay/Silt Content-Material passing 75 microns sieve %	BS 812 Part 103.1 1985	0.2
Bulk Density (Un Compacted) Kg/m ³	BS 812 Part 2 : 1995	1560
Flakiness Index	BS 812 Section 105.1 : 1989	11
Elongation Index	BS 812 Section 105.2 : 1990	23
Aggregate Impact Value %	BS 812 Part 112 : 1990	12
Aggregate Crushing Value %	BS 812 Part 110 : 1990	17
Ten Percentage fines Value kN	BS 812 Part 111 : 1990	240
Los Angeles Abrasion Value %	ASTM C 131 : 1996	15
Soundness Value of coarse Aggregate (MgSO ₄ solution in 5 cycles) %	ASTM C 88 : 2005	Less than 1%

3. Chemical Analysis.

Test	Test Method	Results
Acid Soluble Chlorides %	BS 812: Part 117-88	0.01
Acid Soluble Sulfates SO ₃ %	BS 812: Part 118-88	0.02



For and on Behalf of Lonestar Alpha Laboratories
Sohar