

LABORATORY TEST REPORT

TEST : PARTICLES SIZE DISTRIBUTION OF AGGREGATE

TESTED TO BS EN 933 - 1

SHEET No:	30602	LAB No:	0	TLC No:	11803
CLIENT :	--				
CONTRACTOR:	M/s. DESERT DIAMOND TRADING CO.				
PROJECT:	GABBRO AGGREGATES SUPPLY				
SAMPLE ID	15760				
SAMPLE RECEIVED DATE (LAB)	09/06/2013	TESTING DATE	13/06/2013		
MATERIAL DESCRIPTION	Agg : 20mm / Gabbro	REPORTING DATE	15/06/2013		
SOURCE OF MATERIAL	FUJAIRA (UAE)	SAMPLING LOCATION	MESAIEED		
SAMPLED BY	LAB TECH.	DELIVERED BY	LAB TECH.		
TEST METHOD	WET METHOD	DATE OF SAMPLING (SITE)	09/06/2013		

RESULTS OBTAINED

BS Seives,mm	Wt.Retained (g)	Passing %	Specification	
40	0	100	100	100
31.5	0	100	98	100
25	0	100	85	99
10	3364	8	0	20
4	194	2.0	0	5
Passing 4.0 mm	89			
Total	3647			

Remarks :

- Sample Procedure : Not Provided
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Mahmoud T.Ali

Laboratory Manager :

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LB-069

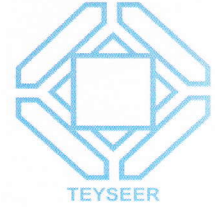
TEYSEER LABORATORIES

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C. R. NO.3299/023

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TEST REPORT OF FLAKINESS INDEX

TESTED TO BS EN 933 – 3


CLIENT	--		
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.		
PROJECT	GABBRO AGGREGATES SUPPLY	SHEET NO.	612
MATERIALS	GABBRO AGG. 20mm (10/20)	SAMPLE DATE	09/06/2013
SOURCE	FUJAIRA (UAE)	TESTING DATE	13/06/2013
LOCATION	MESAIEED	REPORTING DATE	16/06/2013
SAMPLE ID NO.	15760	TLC NO.	11805

SIEVE ANALYSIS TO BS EN 933 – 1

Sieves, mm	Mass Retained, (g)	Nominal width of slot in Bar sieve (mm)	Flakiness Sieve Wt. Passing (g)
25/31.5	0	16	0
20/25	143	12.5	0
16/20	1336	10	31
12.5/16	1217	8	43
10/12.5	648	6.3	32
8/10	167	5	22
6.3/8	32	4	4
5/6.3	12	3.15	1
4/5	4	2.5	1

Total Wt. Retained, (g)	3559 g	Total Weight Passing 134 g
Flakiness index, (%)	4 %	

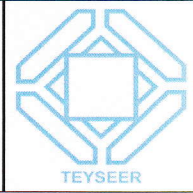
- QCS 2010 Limits : Maximum 30% Max. for Concrete Use
- MATERIALS SAMPLED AND DELIVERED BY : Teyseer Lab Technicians.


MAHMOUD T. ALI
LABORATORY MANAGER

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LB-069



LABORATORY TEST REPORT

TEST :ELONGATION INDEX

TESTED TO BS 812 : PART 105 SECTION 105.2 : 1990

SHEET No:	30607	LAB No:	0	TLC No:	11807
CLIENT :	--				
CONTRACTOR:	M/s. DESERT DIAMOND TRADING CO.				
PROJECT:	GABBRO AGGREGATES SUPPLY				
SAMPLE ID	15760				
SAMPLE RECEIVED DATE (LAB)	09/06/2013	TESTING DATE	13/06/2013		
MATERIAL DESCRIPTION	Agg : 20mm / Gabbro	REPORTING DATE	16/06/2013		
SOURCE OF MATERIAL	FUJAIRA (UAE)	SAMPLE LOCATION	MESAIEED		
SAMPLED BY	LAB TECH.	DELIVERED BY	LAB TECH.		
CONDITIONS OF SAMPLE RECEIVED	Acceptable	DATE OF SAMPLING (SITE)	09/06/2013		

TEST RESULTS

BS Sieves, mm	Seive analysis To BS 812 : Part 103.1,1985 - Procedure 7.3			Elongation Gauge Wt.Retained (g)
	Wt.Retained (g)	Retained %	Passing %	
28.0	0	0.0	100	0
20.0	143	4.0	96	0
14.0	2119	59.8	36	359
10.0	1081	30.5	6	389
6.3	198	5.6	0	122

TOTAL WT.RETAINED (M1) = 3541 g

REDUCED WT. (M2) = 3398 g

ELONGATION INDEX = 26 %

TOTAL WT.RETAINED (M3) = 870 g

QCS 2010 LIMITS : Each stockpile 30% maximum for all courses and the average of all stockpile shall not exceed 25% for Wearing corse And (35% Maximum for Concrete use Coarse Agg.)

Remarks :

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Doc. No. F109, Rev 02, 28th February, 2011

Mahmoud T. Ali
Laboratory Manager

TEST REPORT OF THE BULK DENSITY OF AGGREGATES (Unrodded)

Client	--	SH. No. : 133	
Contractor	M/S. DESERT DIAMOND TRADING CO.		
Project	GABBRO AGGREGATES SUPPLY		
Material	GABBRO AGG. 20mm	Sample Date	09/06/2013
Sampled by	LAB TECHNICIAN	Testing Date	14/06/2013
Source	FUJAIRA (UAE)	Reporting Date	16/06/2013
Sample ID. No.	15760	TLC NO	11817

TESTED TO ASTM C 29/C 29M - 97

Test No.		1	2
Wt. of aggregates + cylindrical measure	kg	24.374	24.284
Wt. of cylindrical measure	kg	6.554	6.554
Wt. of aggregates = M	kg	17.820	17.730
Volume of cylindrical measure = V	m ³	0.01m ³	0.01m ³
Bulk density of the aggregates = M/V	kg/m ³	1782	1773
Average bulk density of the aggregates	kg/m ³	1778 kg/m ³	

REMARKS :

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LABORATORY MANAGER

Page 1 of 1

Doc. No. F170A , Rev. 01, 11th of September, 2011

TEST REPORT OF THE MATERIAL FINER THAN 75 UM SIEVE

Client	--	SHEET NO. : 142	
Contractor	M/s. DESERT DIAMOND TRADING CO.		
Project	GABBRO AGGREGATES SUPPLY		
Material	GABBRO Agg. 20mm	Sample Date	09/06/2013
Sampled by	LAB TECHNICIAN	Testing Date	14/06/2013
Source	FUJAIRA (UAE)	Reporting Date	16/06/2013
Sample ID NO.	15760	TLC NO	11815

TESTED TO ASTM C 117- 04

TEST	Result obtained (%)	Method
Material finer than 75 um	1.2	TEST 8 – METHOD - A

QCS 2010 LIMITS : Maximum 2% for coarse & 3% for natural uncrushed / crushed
For Crushed Rock : Max. 5% for fine And Max. 2% for Coarse Agg.

Material Sampled and delivered By : The Lab Technician

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LB-069

Doc. No. F169 Rev. 01, 29th of September, 2011

TEST REPORT OF THE SHELL CONTENT

Client	--		
Contractor	M/s. DESERT DIAMOND		
Project	GABBRO AGGREGATES SUPPLY	SHEET NO.	097
Material	GABBRO AGG. 20mm	Sample Date	09/06/2013
Sampled by	LAB TECHNICIAN	Testing Date	14/06/2013
Source	FUJAIRA (UAE)	Reporting Date	16/06/2013
Sample ID NO.	15760	TLC NO	11813

Tested to BS 812 : PART 106 : 1985

TEST	RESULT OBTAINED (%)
SHELL CONTENT	0.0%

QCS 2010 Limits : Maximum 3% For fine & Course Aggregates.

REMARKS :

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MAHMOUD T. ALI
LABORATORY MANAGER



LABORATORY TEST REPORT

TEST : PARTICLE DENSITIES AND WATER ABSORPTION

TESTED TO BS 812 : PART 2 : 1995

SHEET No.	30611	LAB No	0	TLC No.	11811
CLIENT	--				
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.				
PROJECT	GABBRO AGGREGATES SUPPLY				
SAMPLE ID	15760				
MATERIAL DESCRIPTION	Agg : 20mm / Gabbro	SAMPLE LOCATION		MESAIEED	
SAMPLING DATE (SITE)	09/06/2013	SAMPLE RECEIVED DATE (LAB)		09/06/2013	
SOURCE OF MATERIAL	FUJAIRA (UAE)	TESTING DATE		14/06/2013	
SAMPLED BY	LAB TECH.	REPORTING DATE		16/06/2013	
DELIVERED BY	LAB TECH.	CONDITION OF SAMPLE RECEIVED		SATISFACTORY	

TEST RESULTS

Test	Method
Particle Densities And Water Absorption	5.4

RESULT OBTAINED

Material	O. D Basis Mg/m³	S. S. Dry Basis Mg/m³	Apparent Mg/m³	Water Absorption%
AGG. 20mm / GABBRO	2.945	2.952	2.965	0.2

QCS 2010 Limits : For Asphalt use - Water Absorption : Max. 1.5% for all courses and Max. 2% for Base course. And For Concrete use 2.3% Max. for fine Agg. and 2% Max. for Coarse Agg. And Particle Density : 2.6% Min. for fine Agg. & Coarse Agg.

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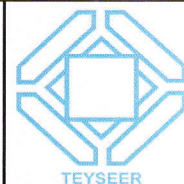
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Doc. No. F 110, Rev. 01, 10th of April, 2011



LABORATORY TEST REPORT

TEST : LOS ANGELES ABRATION

TESTED TO ASTM C131 & C535 : 1989

SHEET No:	30733	LAB No:	0	TLC No:	12032
CLIENT :	--				
CONTRACTOR:	M/s. DESERT DIAMOND TRADING CO.				
PROJECT:	GABBRO AGGREGARES SUPPLY				
SAMPLE ID	15760				
SAMPLE RECEIVED DATE (LAB)	09/06/2013	TESTING DATE	16/06/2013		
MATERIAL DESCRIPTION	Agg : 20mm / Gabbro	REPORTING DATE	17/06/2013		
SOURCE OF MATERIAL	FUJAIRA (UAE)	SAMPLE LOCATION	MESAIEED		
SAMPLED BY	LAB TECH.	DELIVERED BY	LAB TECH.		
CONDITIONS OF SAMPLE RECEIVED	Acceptable	DATE OF SAMPLING (SITE)	09/06/2013		

TEST RESULTS

Test	Method	Result Obtained (%)
Los Angeles Abrasion	ASTM C131 , Procedure 8	8.1

QCS 2010 Limits	For Asphalt use : Maximum 25% for wearing course & Maximum 30% for Intermediate & Base course And For Concrete use : 30% Maximum course Aggregates.
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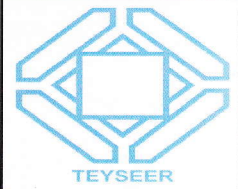
Remarks :

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LABORATORY TEST REPORT

TEST : TEN PERCENT FINES VALUE

TESTED TO BS 812 : PART 111 : 1990

SHEET No.	30757	LAB No	0	TLC No.	12150
CLIENT	--				
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.				
PROJECT	GABBRO AGGREGATES SUPPLY				
SAMPLE ID	15760				
SOURCE OF MATERIAL	FUJAIRA (UAE)	SAMPLING DATE (SITE)	09/06/2013		
SAMPLE RECIVED DATE (LAB)	09/06/2013	TESTING DATE	17/06/2013		
MATERIAL DESCRIPTION	Agg : 20mm / Gabbro	REPORTING DATE	18/06/2013		
SAMPLED BY	LAB TECH.	DELIVERED BY	LAB TECH.		
SAMPLE CONDITION	Acceptable	SAMPLE LOCATION	MESAIIEED		

TEST RESULTS

Test	Method	Result Obtained (kN)
Ten Percent Fine Value	Procedure - 7	354

QCS 2010 Limits : Minimum 150 kN For Concrete

Remarks :

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Doc. No. F113, Rev. 01, 1st of April, 2011

TEST REPORT OF THE AGGREGATE IMPACT VALUE

CLIENT	--	SHEET NO. : 142	
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.		
PROJECT	GABBRO AGGREGATES SUPPLY		
MATERIAL	GABBRO Agg. 20mm	Sample Date	09/06/2013
SAMPLED BY	LAB TECHNICIAN	Testing Date	16/06/2013
SOURCE	FUJAIRA (UAE)	Reporting Date	17/06/2013
SAMPLE ID NO.	15760	TLC NO	12030

TESTED TO BS 812 : Part 112 : 1990

TEST	RESULT OBTAINED (%)
AGGREGATE IMPACT VALUE	7.6 %

QCS 2010 Limits : 25% Maximum for Coarse Aggregates

REMARKS :

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MAHMOUD T. ALI
LABORATORY MANAGER



LB-069

Doc. No. F239 , Rev. 01 , 15th June, 2012

TEST REPORT OF THE CLAY LUMPS & FRIABLE PARTICLES

Client	--	SHEET NO : 123	
Contractor	M/s. DESERT DIAMOND		
Project	GABBRO AGGREGATES SUPPLY		
Material	GABBRO AGG. 20mm	Sample Date	09/06/2013
Sample by	LAB TECHNICIAN	Testing Date	16/06/2013
Source	FUJAIRA (UAE)	Reporting Date	17/06/2013
Sample ID No.	15760	TLC NO	12028

TESTED TO ASTM C 142 - 78 : 1990


TEST	METHOD	RESULTS OBTAINED (%)
Clay Lumps & Friable Particles	Procedure - 6	0.1 %

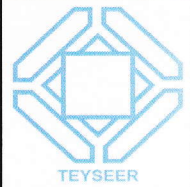
QCS 2010 Limits : Maximum 2% for Fine Agg. And Max. 2% for Coarse Aggregates.

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LABORATORY TEST REPORT
TEST REPORT OF THE SOUNDNESS
TESTED TO ASTM C 88-1990

SHEET No.	30609	LAB No	0	TLC No.	11809
CLIENT	--				
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.				
PROJECT	GABBRO AGGREGATES SUPPLY				
SAMPLE ID	15760				
DATE OF SAMPLING (SITE)	09/06/2013	SAMPLE RECEIVED DATE (LAB)	09/06/2013		
MATERIAL DESCRIPTION	Agg : 20mm / Gabbro	TESTING DATE	14/06/2013		
SOURCE OF MATERIAL	FUJAIRA (UAE)	REPORTING DATE	16/06/2013		
SAMPLED BY	LAB TECH.	DELIVERED BY	LAB TECH.		
NO. OF CYCLES	5	CONDITION OF SAMPLE RECEIVED	SATISFACTORY		

TEST RESULTS

Test	Method	Result Obtained (%)
SOUNDNESS	Procedure - 8	1.7

QCS 2010 Limits : For Asphalt use : Maximum 10% for Wearing & Intermediate course & Maximum 15% for Base course. And For Concrete use : 15% Maximum Fine Agg. & Course Agg.

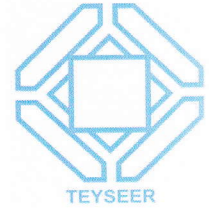
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Doc. No. F123, Rev. 01, 10th April, 2011



TEST REPORT OF CHEMICAL ANALYSIS

CLIENT	--		
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.		
PROJECT	GABBRO AGGREGATES SUPPLY	SHEET NO.	1589
MATERIAL	GABBRO AGGREGATES 20mm	TLC NO.	11905
SOURCE	FUJAIRA (UAE)	SAMPLE DATE	09/06/2013
LOCATION	MESAEED	TESTING DATE	15/06/2013
SAMPLE ID No.	15760	REPORT DATE	16/06/2013

TESTED TO BS EN 1744 -5 & 1744 - 1

TEST	RESULT OBTAINED (%)
ACID SOLUBLE SULPHATE CONTENT (SO ₃)	0.038 %
ACID SOLUBLE CHLORIDE CONTENT (Cl)	0.017 %

QCS 2010 Limits : So₃ - Max. 0.3% For Coarse Aggregates And Max. 0.4% For Fine Aggregates

QCS 2010 Limits : Cl - Max. 0.03% For Coarse Aggregates And Max. 0.06% For Fine Aggregates

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