



COMIBASSAL International Controllers

Internal inspection and laboratories sector

Accredited by : Egypton General Authority for Petroleum under No. 34/29-11-2011
Accredited by : Egypton Accreditation council (EGAC) under No. 031706/1A

I- Introduction

General Consultant :	SYSTRA
Consultant :	SPECTRUM
Contractor :	شركة العالمية للمقاولات
Sample :	Coarse Aggregate Filter
Station :	From stored materials
Date of Test :	31/03/2023
QC :	928-4

II- Sample description:

Coarse Aggregate Filter

III- Required tests

- 1 - Specific gravity (SG), absorption and degradation.
- 2- Grain size analysis and classification.
- 3- Los Angeles test.

IV- Results

1- Specific gravity (SG), absorption and degradation.	SSD	2.577
	Absorption	1.2%
	Degradation	0.2%
2- Grain size analysis and	Grain size analysis	As shown in figures
3- Los Angeles test	Abration ratio	26.9%

LAB DIRECTOR
Eng / Eman kandil



Geotechnical consultant
For. Dr. M.
Dr. Mohamed Mostafa Badry



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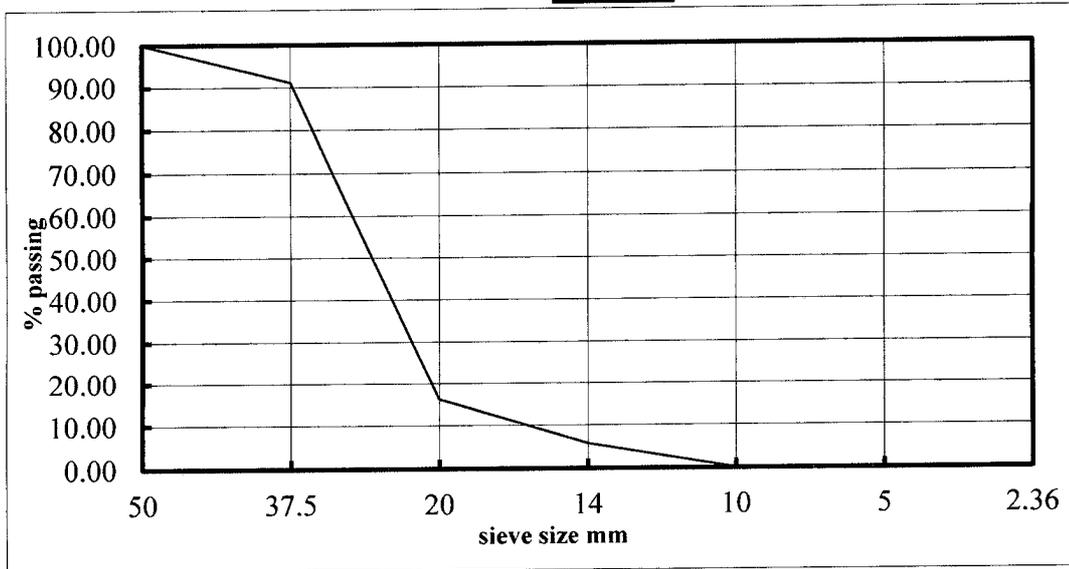
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SIEVE ANALYSIS FOR COARSE AGGREGATE

Test method : BS 882 Table 4. 40-5 mm

Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	91	16	6	0	0	0





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ABRASION AND IMPACT " LOS ANGELES " TEST (For small size coarse aggregate) ASTM- C 131-96 / AASHTO-T-96

Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intitial Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3655
% Wear By Weight Passing on Sieve No.12	26.9%





COMIBASSAL International Controllers

Internal inspection and laboratories sector

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Absorption and specific gravity for Coarse Aggregate ASTM C 127 - AASHTO T 85

Weight of sample	2500
Weight of saturated - dry surface sample (B)	2525
Weight of saturated sample in water (C)	1545
Weight of dry sample aftr heating (A)	2494

Results:-

Saturation surface dry spicific gravity = $B / (B-C)$	2.577
Bulk spicific gravity = $A / (B-C)$	2.545
Apparent spicific gravity = $A / (A-C)$	2.628
Absorption of water = $(B-A)/A*100$	1.2
Degradation of aggregate = $(2500-A)/A*100$	0.2





Internal inspection and laboratories sector

Report	:	403- 12 - Center
Date	:	15/04/2023

CHEMICAL ANALYSIS

General Consultant	:	SYSTRA
Consultant	:	SPECTRUM
Contractor	:	الشركة العالمية للمقاولات
Project	:	Electric express train
Sample	:	Mix aggregate (Filter)
Station	:	FROM STORED MATERIALS
Date of Test	:	31-3-2023

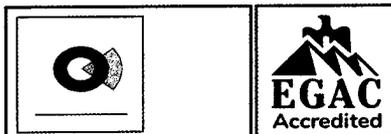
Temperature : 18 °C

Humidity : 50%

ANALYSIS	RESULTS	METHOD REFERENCE
CHLORIDE (CL)	0.0010%	ASTM D 2974
SULPHATE (SO3)	0.0023%	
ORGANIG MATTER	NEGATIVE	



LAB DIRECTOR
CH/ Mostafa Asker
for Amayy Amin





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Internal inspection and laboratories sector

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I- Introduction

General Consultant : SYSTRA
Consultant : SPECTRUM
Contractor : شركة العالمية للمقاولات
Sample : Coarse Aggregate Filter
Station : From stored materials
Date of Test : 02/04/2023
QC : 929-1

II- Sample description:

Coarse Aggregate Filter

III- Required tests

- 1 - Specific gravity (SG), absorption and degradation.
- 2- Grain size analysis and classification.
- 3- Los Angeles test.

IV- Results

1- Specific gravity (SG), absorption and degradation.	SSD	2.582
	Absorption	1.0%
	Degradation	0.2%
2- Grain size analysis and	Grain size analysis	As shown in figures
3- Los Angeles test	Abration ratio	27.2%

LAB DIRECTOR
Eman
Eng / Eman kandil



Geotechnical consultant
For DR. M.
Dr. Mohamed Mostafa Badry



COMIBASSAL International Controllers Internal inspection and laboratories sector

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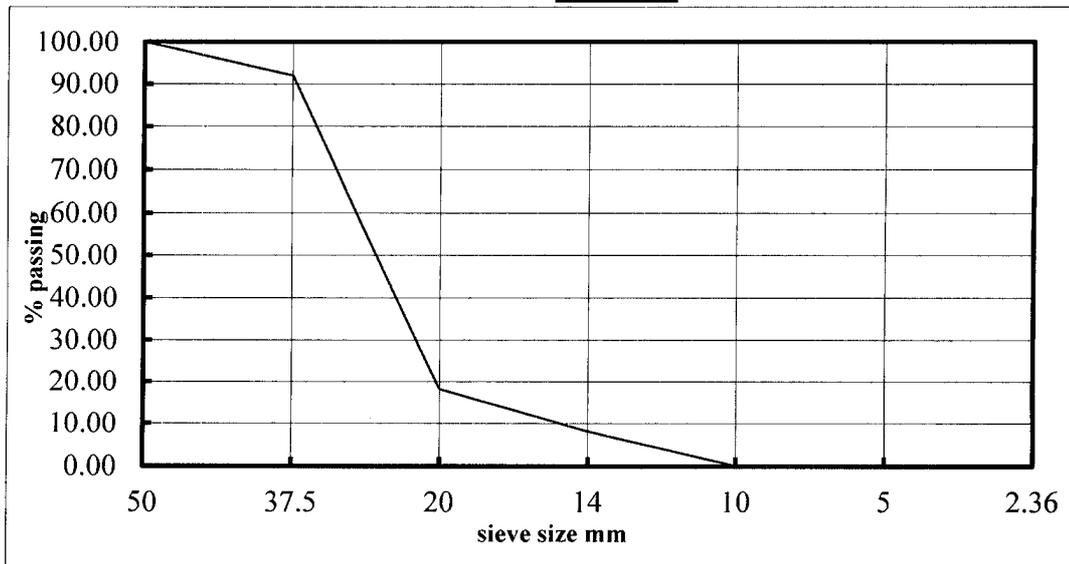
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SIEVE ANALYSIS FOR COARSE AGGREGATE

Test method : BS 882 Table 4. 40-5 mm

Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	92	18	8	0	0	0





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ABRASION AND IMPACT " LOS ANGELES " TEST (For small size coarse aggregate) ASTM- C 131-96 / AASHTO-T-96

Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intitial Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3642
% Wear By Weight Passing on Sieve No.12	27.2%





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Absorption and specific gravity for Coarse Aggregate ASTM C 127 - AASHTO T 85

Weight of sample	2500
Weight of saturated - dry surface sample (B)	2520
Weight of saturated sample in water (C)	1544
Weight of dry sample after heating (A)	2494

Results:-

Saturation surface dry specific gravity = $B / (B-C)$	2.582
Bulk specific gravity = $A / (B-C)$	2.555
Apparent specific gravity = $A / (A-C)$	2.625
Absorption of water = $(B-A)/A*100$	1.0
Degradation of aggregate = $(2500-A)/A*100$	0.2





Internal inspection and laboratories sector

Report :	403- 13 - Center
Date :	15/04/2023

CHEMICAL ANALYSIS

General Consultant :	SYSTRA
Consultant :	SPECTRUM
Contractor :	الشركة العالمية للمقاولات
Project :	Electric express train
Sample :	Mix aggregate (Filter)
Station :	FROM STORED MATERIALS
Date of Test :	2-4-2023

Temperature : 18 °C

Humidity : 50%

ANALYSIS	RESULTS	METHOD REFERENCE
CHLORIDE (CL)	0.0010%	ASTM D 2974
SULPHATE (SO3)	0.0018%	
ORGANIG MATTER	NEGATIVE	



LAB DIRECTOR
CH/ Mostafa Asker
For Amany Amin





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Internal inspection and laboratories sector

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I- Introduction

General Consultant : SYSTRA
Consultant : SPECTRUM
Contractor : شركة العالمية للمقاولات
Sample : Coarse Aggregate Filter
Station : From stored materials
Date of Test : 04/04/2023
QC : 929-2

II- Sample description:

Coarse Aggregate Filter

III- Required tests

- 1 - Specific gravity (SG), absorption and degradation.
- 2- Grain size analysis and classification.
- 3- Los Angeles test.

IV- Results

1- Specific gravity (SG), absorption and degradation.	SSD	2.582
	Absorption	1.2%
	Degradation	0.2%
2- Grain size analysis and	Grain size analysis	As shown in figures
3- Los Angeles test	Abration ratio	27.0%

LAB DIRECTOR

Eng / Eman kandil

Geotechnical consultant

For Dr. M.
Dr. Mohamed Mostafa Badry



COMIBASSAL International Controllers

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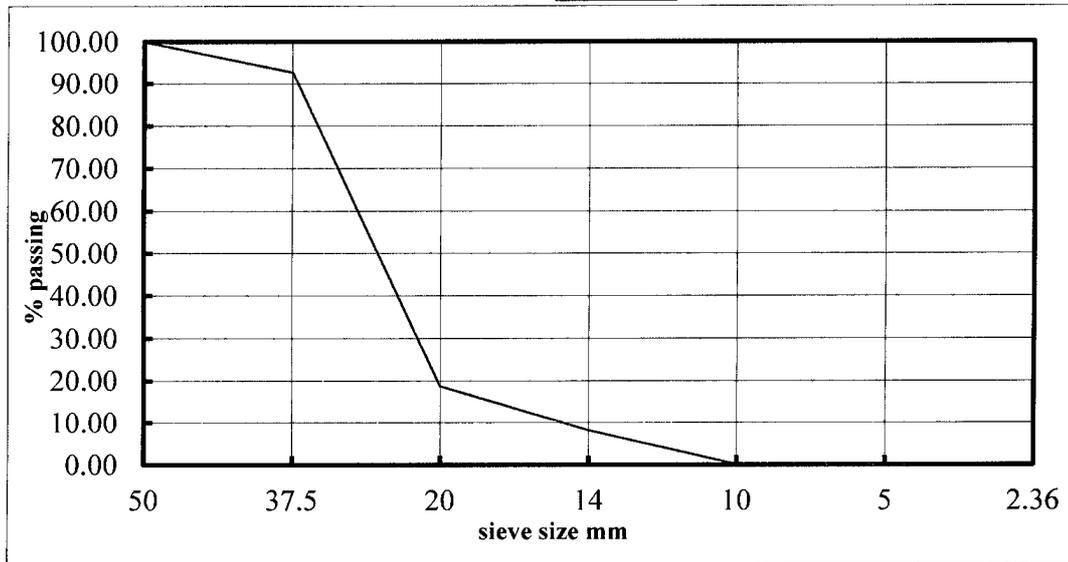
Internal inspection and laboratories sector

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SIEVE ANALYSIS FOR COARSE AGGREGATE

Test method : BS 882 Table 4. 40-5 mm

Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	93	19	8	0	0	0





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ABRASION AND IMPACT " LOS ANGELES " TEST (For small size coarse aggregate) ASTM- C 131-96 / AASHTO-T-96

Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intitial Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3652
% Wear By Weight Passing on Sieve No.12	27.0%





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Absorption and specific gravity for Coarse Aggregate ASTM C 127 - AASHTO T 85

Weight of sample	2500
Weight of saturated - dry surface sample (B)	2525
Weight of saturated sample in water (C)	1547
Weight of dry sample afre heating (A)	2494

Results:-

Saturation surface dry spicific gravity = $B / (B-C)$	2.582
Bulk spicific gravity = $A / (B-C)$	2.550
Apparent spicific gravity = $A / (A-C)$	2.634
Absorption of water = $(B-A)/A*100$	1.2
Degradation of aggregate = $(2500-A)/ A*100$	0.2





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Report :	403- 14 - Center
Date :	15/04/2023

CHEMICAL ANALYSIS

General Consultant :	SYSTRA
Consultant :	SPECTRUM
Contractor :	الشركة العالمية للمقاولات
Project :	Electric express train
Sample :	Mix aggregate (Filter)
Station :	FROM STORED MATERIALS
Date of Test :	4-4-2023

Temperature : 18 °C

Humidity : 50%

ANALYSIS	RESULTS	METHOD REFERENCE
CHLORIDE (CL)	0.0012%	ASTM D 2974
SULPHATE (SO3)	0.0020%	
ORGANIG MATTER	NEGATIVE	



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I- Introduction

General Consultant : SYSTRA
Consultant : SPECTRUM
Contractor : شركة العالمية للمقاولات
Sample : Coarse Aggregate Filter
Station : From stored materials
Date of Test : 08/04/2023
QC : 929-3

II- Sample description:

Coarse Aggregate Filter

III- Required tests

- 1 - Specific gravity (SG), absorption and degradation.
- 2 - Grain size analysis and classification.
- 3 - Los Angeles test.

IV- Results

1- Specific gravity (SG), absorption and degradation.	SSD	2.575
	Absorption	1.1%
	Degradation	0.2%
2- Grain size analysis and	Grain size analysis	As shown in figures
3- Los Angeles test	Abration ratio	25.4%

LAB DIRECTOR
Eng / Eman kandil



Geotechnical consultant
For Dr. M.
Dr. Mohamed Mostafa Badry



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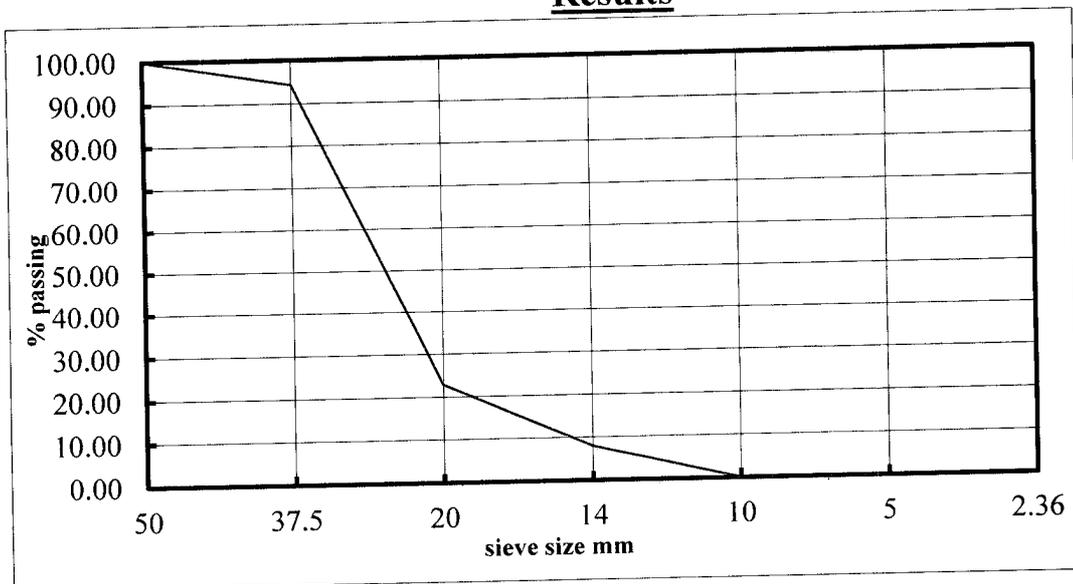
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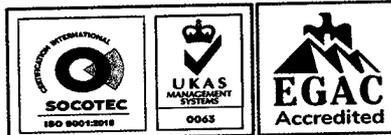
SIEVE ANALYSIS FOR COARSE AGGREGATE

Test method : BS 882 Table 4. 40-5 mm

Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	94	23	8	0	0	0





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ABRASION AND IMPACT " LOS ANGELES " TEST

(For small size coarse aggregate)
ASTM- C 131-96 / AASHTO-T-96

Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intitial Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3731
% Wear By Weight Passing on Sieve No.12	25.4%





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Absorption and specific gravity for Coarse Aggregate ASTM C 127 - AASHTO T 85

Weight of sample	2500
Weight of saturated - dry surface sample (B)	2521
Weight of saturated sample in water (C)	1542
Weight of dry sample aftre heating (A)	2494

Results:-

Saturation surface dry spcific gravity = $B / (B-C)$	2.575
Bulk spcific gravity = $A / (B-C)$	2.547
Apparent spcific gravity = $A / (A-C)$	2.620
Absorption of water = $(B-A) / A * 100$	1.1
Degradation of aggregate = $(2500-A) / A * 100$	0.2





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Accredited by : Egyption General Authority for Petroleum under No. 34/29-11-2011
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Report :	403- 15 - Center
Date :	15/04/2023

CHEMICAL ANALYSIS

General Consultant :	SYSTRA
Consultant :	SPECTRUM
Contractor :	الشركة العالمية للمقاولات
Project :	Electric express train
Sample :	Mix aggregate (Filter)
Station :	FROM STORED MATERIALS
Date of Test :	8-4-2023

Temperature : 18 °C

Humidity : 50%

ANALYSIS	RESULTS	METHOD REFERENCE
CHLORIDE (CL)	0.0011%	ASTM D 2974
SULPHATE (SO3)	0.0019%	
ORGANIG MATTER	NEGATIVE	



LAB DIRECTOR
CH/ Mostafa Asker
for Amany Amih





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I- Introduction

General Consultant : SYSTRA
Consultant : SPECTRUM
Contractor : شركة العالمية للمقاولات
Sample : Coarse Aggregate Filter
Station : From stored materials
Date of Test : 11/04/2023
QC : 929-4

II- Sample description:

Coarse Aggregate Filter

III- Required tests

- 1- Specific gravity (SG), absorption and degradation.
- 2- Grain size analysis and classification.
- 3- Los Angeles test.

IV- Results

1- Specific gravity (SG), absorption and degradation.	SSD	2.567
	Absorption	1.3%
	Degradation	0.2%
2- Grain size analysis and	Grain size analysis	As shown in figures
3- Los Angeles test	Abration ratio	27.5%

LAB DIRECTOR

Eng / Eman kandil



Geotechnical consultant

For: Dr. M.
Dr. Mohamed Mostafa Badry

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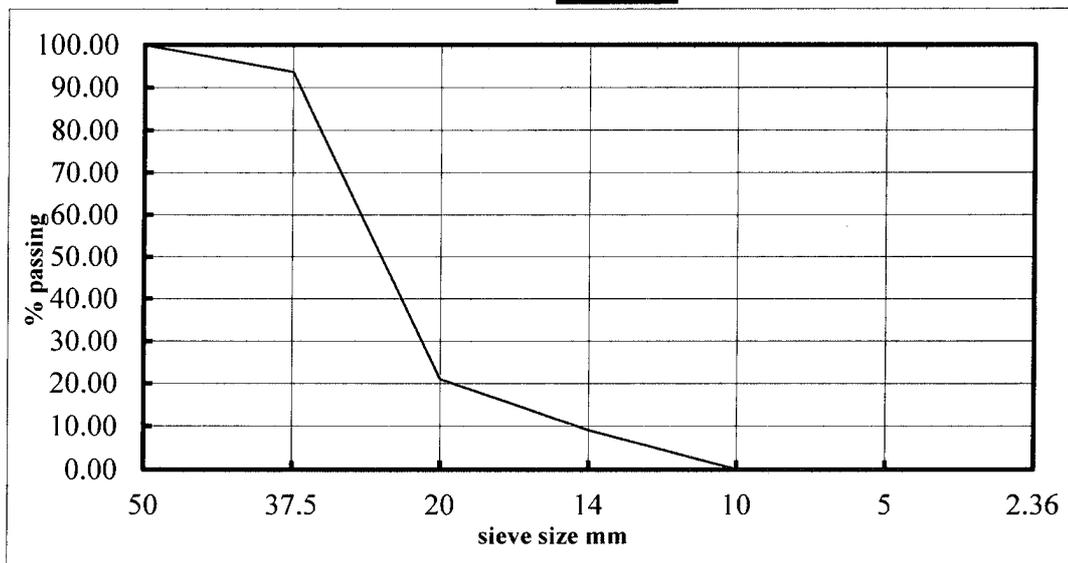
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SIEVE ANALYSIS FOR COARSE AGGREGATE

Test method : BS 882 Table 4. 40-5 mm

Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	94	21	9	0	0	0





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ABRASION AND IMPACT " LOS ANGELES " TEST (For small size coarse aggregate) ASTM- C 131-96 / AASHTO-T-96

Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intitial Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3625
% Wear By Weight Passing on Sieve No.12	27.5%





COMIBASSAL International Controllers

Internal inspection and laboratories sector

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Accredited by : Egyption Accreditation council (EGAC) under No. 031706/1A

Absorption and specific gravity for Coarse Aggregate ASTM C 127 - AASHTO T 85

Weight of sample	2500
Weight of saturated - dry surface sample (B)	2526
Weight of saturated sample in water (C)	1542
Weight of dry sample aftr heating (A)	2494

Results:-

Saturation surface dry spicific gravity = $B / (B-C)$	2.567
Bulk spicific gravity = $A / (B-C)$	2.535
Apparent spicific gravity = $A / (A-C)$	2.620
Absorption of water = $(B-A)/A*100$	1.3
Degradation of aggregate = $(2500-A)/A*100$	0.2





COMIBASSAL International Controllers

Internal inspection and laboratories sector

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Report	:	403- 16 - Center
Date	:	15/04/2023

CHEMICAL ANALYSIS

General Consultant	:	SYSTRA
Consultant	:	SPECTRUM
Contractor	:	الشركة العالمية للمقاولات
Project	:	Electric express train
Sample	:	Mix aggregate (Filter)
Station	:	FROM STORED MATERIALS
Date of Test	:	11-4-2023

Temperature : 18 °C

Humidity : 50%

ANALYSIS	RESULTS	METHOD REFERENCE
CHLORIDE (CL)	0.0010%	ASTM D 2974
SULPHATE (SO3)	0.0022%	
ORGANIG MATTER	NEGATIVE	

LAB DIRECTOR
CH/ Mostafa Asker
Roy Amaly Amin





برجاء مسح QR للتأكد من جهة اصدار التقرير
كلمة المرور مدونة خلف الورقة الأولى من التقرير

Date : 26/7/2023

Ref. Serial No. 57 July /2023

Page 1/10

Client : Al alamia for Contracting Company

الشركة العالمية للمقاولات

Specimen :Aggregates Sample Filter No.1 – From Station (355+580) To (358+000)

Project : Electrical Express Train – Sector 5A

Samples were delivered by and under the responsibility of : Mr. Mohamed Hassan

Samples were received on : 19/7/2023

A) Sieve Analysis

Sieve Size	Passing by Weight %
2"	100
1.5"	87.0
1"	56.8
3/4"	28.7
1/2"	3.8
3/8"	1.3
No.4	0.5
No.10	0.4
No.40	0.2

B) Los Angeles Abrasion Test After 500 Revolutions

Percentage of Abrasion = 29.3%

C) Absorption Test

Percentage of Absorption = 2.39%

D) Fragmentation by Water Test

Percentage of Fragmentation = 0.81%

E) The Specific Gravity

Bulk Specific Gravity = 2.461

Prepared by

Eng / Moustafa Mahmod Helmy



Approved by

Dr / Ahmed Atef Soliman

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اشارع السرايات - العباسية - القاهرة



برجاء مسح QR للتأكد من جهة اصدار التقرير
كلمة المرور مدمونة خلف الورقة الاولى من التقرير

Date : 26/7/2023

Ref. Serial No. 57 July /2023

Page 2/10

Client : Al alamia for Contracting Company

الشركة العالمية للمقاولات

Specimen : Aggregates Sample Filter No.2 – From Station (355+580) To (358+000)

Project : Electrical Express Train – Sector 5A

Samples were delivered by and under the responsibility of : Mr. Mohamed Hassan

Samples were received on : 19/7/2023

A) Sieve Analysis

Sieve Size	Passing by Weight %
2"	100
1.5"	95.3
1"	81.1
3/4"	49.6
1/2"	15.4
3/8"	9.8
No.4	1.5
No.10	0.8
No.40	0.6

B) Los Angeles Abrasion Test After 500 Revolutions

Percentage of Abrasion = 29.3%

C) Absorption Test

Percentage of Absorption = 2.21%

D) Fragmentation by Water Test

Percentage of Fragmentation = 0.77%

E) The Specific Gravity

Bulk Specific Gravity = 2.479

Prepared by

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اشارع السرايات - العباسية - القاهرة



برجاء مسح QR للتأكد من جهة اصدار التقرير
كلمة المرور مدونة خلف الورقة الأولى من التقرير

Date : 26/7/2023

Ref. Serial No. 57 July /2023

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Client : Al alamia for Contracting Company

الشركة العالمية للمقاولات

Specimen :Aggregates Sample Filter No.3 – From Station (355+580) To (358+000)

Project : Electrical Express Train – Sector 5A

Samples were delivered by and under the responsibility of : Mr. Mohamed Hassan

Samples were received on : 19/7/2023

A) Sieve Analysis

Sieve Size	Passing by Weight %
1.5"	100
1"	86.9
3/4"	76.0
1/2"	52.9
3/8"	38.8
No.4	6.4
No.10	1.7
No.40	0.9
No.100	0.7
No.200	0.5

B) Los Angeles Abrasion Test After 500 Revolutions

Percentage of Abrasion = 28.9%

C) Absorption Test

Percentage of Absorption = 2.16%

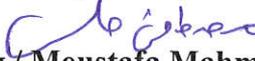
D) Fragmentation by Water Test

Percentage of Fragmentation = 0.71%

E) The Specific Gravity

Bulk Specific Gravity = 2.469

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اشارع السرايات - العباسية - القاهرة



برجاء مسح QR للتأكد من جهة إصدار التقرير
كلمة المرور مدونة خلف الورقة الأولى من التقرير

Date : 26/7/2023

Ref. Serial No. 57 July /2023

Page 4/10

Client : Al alamia for Contracting Company

الشركة العالمية للمقاولات

Specimen :Aggregates Sample Filter No.4 – From Station (355+580) To (358+000)

Project : Electrical Express Train – Sector 5A

Samples were delivered by and under the responsibility of : Mr. Mohamed Hassan

Samples were received on : 19/7/2023

A) Sieve Analysis

Sieve Size	Passing by Weight %
2"	100
1.5"	85.1
1"	69.2
3/4"	57.2
1/2"	29.3
3/8"	22.1
No.4	9.4
No.10	5.4
No.40	2.8
No.100	1.1
No.200	0.6

B) Los Angeles Abrasion Test After 500 Revolutions

Percentage of Abrasion = 29.0%

C) Absorption Test

Percentage of Absorption = 2.20%

D) Fragmentation by Water Test

Percentage of Fragmentation = 0.75%

E) The Specific Gravity

Bulk Specific Gravity = 2.474

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مصطفى حلمي

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Approved by

Highway Engineering Consultancy Unit

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اشارع السرايات - العباسية - القاهرة

بالمتر المكعب اعمال قطع و نقل و اعادة تشغيل السن و ذلك لوجود تعديل في المنسوب التصميمي للمسار في هذه المسافة و فرش طبقة اساس من الاحجار الصلبة المتدرجة ناتج تكسير الكسارات و المطابقة للمواصفات و اقصى حجم للحبيبات ما بين 31.5 مم الي 40 مم والا يزيد نسبة المار من منخل 200 عن 5% والتدرج الوارد بالاشتراطات الخاصة بالمشروع لا تقل نسبة تحمل كاليفورنيا عن 80% والا يقل معامل المرونة EV2 من تجربة لوح التحميل عن 120 ميغاباسكال والا يزيد نسبة الفاقد بجهاز لوس انجلوس عن 30% والا يزيد الامتصاص عن 15% و يتم فردها علي طبقتين باستخدام الات التسوية الحديثة علي ان لا يزيد سمك الطبقة بعد تمام الدمك عن 20 سم و رشها بالمياه الاصلوية للوصول الي نسبة الرطوبة المطلوبة و الدمك الجيد بالهراسات للوصول الي اقصى كثافة جافة قصوي لا تقل عن 100% من الكثافة المعملية والفئة تشمل اجراء التجارب المعملية و الحقلية و يتم تنفيذ طبقا لاصول الصناعة و الرسومات التفصيلية المعتمدة و البند بجميع مشتملاته طبقا للمواصفات الفنية للمشروع و تقرير الاستشاري و تعليمات المهندس المشرف

Volume summary							
Name	Type	Cut factor	Fill factor	2d Area (sq.m)	Cut (cu.m)	Fill (cu.m)	Net (cu.m)
V - IR - 58	Full	1.000	1.000	41.28	32198.40	0	32198.40

Volume summary				
	2d Area (sq.m)	Cut (cu.m)	Fill (cu.m)	Net (cu.m)
Totals	41.28	32198.40	0.00	32198.40

بالمتر المكعب توريد وتنفيذ وردم احجار بسماكات تتراوح بين 5 الى 15 الى 20 سم بنسبة 1:1:1 بنسبة امتصاص لا تزيد عن 3% ولا تحتوى على اى المواد الناعمة او البودرة (مارة من منخل 200) نهانيا او مواد طفلية او بيت النمل يتم تنفيذها كطبقة تاسيس بالقطاع اسفل سطح المياه بعمق 100 سم حتى اعلى منسوب المياه الارضية بحوالى 50 سم ويتم الدمك الجيد للطبقة بهراس الا بعد اعتماد الاحجار واعتماد التجارب المعملية والبند يشمل اجراء التجارب المعملية والحقلية (اختبار الواح التحميل قطر 30 سم) على ان لا تزيد نسبة EV12EV عن 2.5 باستخدام حمل مقدارة 8 kn طبقا لما هو وارد بالمواصفات الخاصة بالعملية على كل السطح العلوى ونهو العمل طبقا لاصول الصناعة الممتازة.

-
-الفئة شاملة القيمة المادة المحجرية.
-مسافة النقل 20 كم .

-يتم احتساب 1.2 جنية للكم بالزيادة او النقصان.

Volume summary							
Name	Type	Cut factor	Fill factor	2d Area (sq.m)	Cut (cu.m)	Fill (cu.m)	Net (cu.m)
V - IR - FF - 23	Full	1.000	1.000	132.3	0.00	7938	7938
V - IR - FF - 23	Full	1.000	1.000	134.08	0.00	16089.6	16089.6
V - IR - FF - 23	Full	1.000	1.000	132.76	0.00	26552	26552
V - IR - FF - 23	Full	1.000	1.000	132.69	0.00	10615.2	10615.2
V - IR - FF - 23	Full	1.000	1.000	83.9	0.00	3356	3356

Volume summary				
	2d Area (sq.m)	Cut (cu.m)	Fill (cu.m)	Net (cu.m)
Totals	615.73	0	64550.8	64550.8

محضر إستلام موقع

مشروع: أعمال الجسر الترابى لمشروع القطار الكهربائى السريع قطاعات غرب النيل فى المسافة من كم ٢٠٠+٣٥٥ إلى كم ٨٠٠+٣٥٧ بطول ٢,٦ كم إتجاه راس الحكمة

تنفيذ: شركة العالمية للمقاولات

إشراف : المنطقة الخامسة – منطقة غرب الدلتا

طبقاً للعقد رقم (١٦٨٢ / ٢٠٢٢ / ٢٠٢٣) بتاريخ ١٩-٣-٢٠٢٣

إنه في يوم الثلاثاء الموافق ١١/٤/٢٠٢٣ إجتمع كلاً من:-

١- السيد المهندس / محمد حسنى فياض مدير عام مشروعات المنطقة الخامسة

٢- السيد المهندس / ماجريت مجدي مدير المشروع

٣- السيد المهندس/ محمد احمد عمر مدير مشروع الشركة

وذلك للمرور على مسار العملية المذكورة عاليه لإستلام الموقع :-
وقد تبين أن الموقع خالياً من العوائق الظاهرية ويسمح بالبدء فى التنفيذ وبناء عليه يعتبر تاريخ ١١/٤/٢٠٢٣ هو تاريخ إستلام الموقع وبدء الأعمال بالعملية.
وأقفل المحضر على ذلك ووقع الحضور

التوقيعات

١- 

٢- 

٣- 

رئيس الإدارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عميد مهندس /

"هانى محمد محمود طه"

١٠١١
١٠١١

