

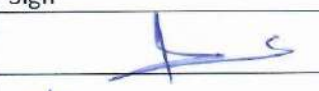
MATERIAL INSPECTION REQUEST



Contractor Company			Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
Received by ER		MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM									
C1	C2	C3	DD	MM	YY	HH	MM													

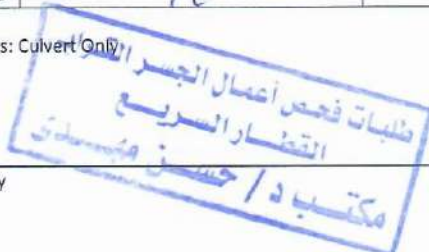
CODE-1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp XXX Note For Kilometer point only Start Km is used
CODE-2	Work Activity		
CODE-3	Sub Element of Activity		

Description of Materials	impacting soil from port				
Location to be Used	-3+400 → -3+600 -7 -25 -1.5 -0 -2				
MAR Approval No		Date			
Supplier Name					
Test Requirement		Specification	Clause		
Reference Photos	Yes attached / No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	Sieve analysis	m3	5000	11/4/2022	
2	Proctor			15/6/2022	
3	CBR, liquid limit			22/6/2022	
4	organic content			12/4/2022	
Comments by:			Comments by:		
Sample was selected for testing Sieve analysis / Proctor / CBR liquid limit, Plastic limit / organic content conducted by (ARADAMAN) Result found			nots are attached		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor				A
QA/QC *	ebflemtonum			A
GARB**				
Employers Representative	Samer Mawardi		9/11/2022	AWC

* Designer

** Alignment / Bridges: Culvert Only



ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING

S.AE

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA

Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 11/04/2022

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1067

**Source of sample: توريد ميناء
St. -3+400 To -3+600**

Percentage of materials finer than # 200: 2.5%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	98.3	
2 in.	50	91.2	
1.5 in.	38	84.4	
1 in.	25	69.4	
3/4 in.	19	58.8	
1/2 in.	12.5	48.0	
3/8 in.	9.5	42.3	
No. 4	4.75	32.5	
No. 10	2.0	26.3	
No. 40	0.425	10.9	
No. 200	0.075	2.5	

Notes:-

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Muhamed Elkady



Reviewed by : Eng. Osama Mofteh

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 11/04/2022

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1068

Source of sample: توريد ميناء
St. -3+400 To -3+600

Percentage of materials finer than # 200: 3.1%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	94.4	
1.5 in.	38	84.4	
1 in.	25	73.5	
3/4 in.	19	66.2	
1/2 in.	12.5	55.6	
3/8 in.	9.5	51.8	
No. 4	4.75	41.6	
No. 10	2.0	33.8	
No. 40	0.425	16.5	
No. 200	0.075	3.1	

Notes:-

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Muhamed Elkady

ARDAMAN Split
Egypt Express Train
Project

Reviewed by : Eng. Osama Mostah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING

S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA

Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 11/04/2022

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1069

**Source of sample: توريد ميناء
St. -3+400 To -3+600**

Percentage of materials finer than # 200: 2.3%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	97.7	
2 in.	50	94.1	
1.5 in.	38	85.2	
1 in.	25	72.3	
3/4 in.	19	62.9	
1/2 in.	12.5	51.3	
3/8 in.	9.5	49.7	
No. 4	4.75	39.8	
No. 10	2.0	31.9	
No. 40	0.425	13.0	
No. 200	0.075	2.3	

Notes:-

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mohamed Elkady



Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: *Electric Express Train - Alsokhna Sector*

File No.: 4800/S

Client : (A83) شركة ابو عوف للمقاولات

Date: 11/04/2022

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1070

Source of sample: توريد ميناء
St. -3+400 To -3+600

Classification According to AASHTO:

A-1-a

Percentage of materials finer than # 200:

3.4%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	97.1	
1.5 in.	38	88.4	
1 in.	25	79.6	
3/4 in.	19	71.7	
1/2 in.	12.5	60.9	
3/8 in.	9.5	54.1	
No. 4	4.75	43.8	
No. 10	2.0	35.3	
No. 40	0.425	16.7	
No. 200	0.075	3.4	

Notes:-

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mohamed Elkady



Reviewed by : Eng. Osama Moftah

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve

ASTM D - 422

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1071

Source of sample: توريد من

SL - 3+400 To - 3+600

Classification According to AASHTO:

Percentage of materials finer than # 200:

A-1-a

3.7%

Sieve	Opening	Percentage	Passing %
No.	(mm)		
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	97.9	
1.5 in.	38	88.1	
1 in.	25	77.4	
3/4 in.	19	70.8	
1/2 in.	12.5	61.3	
3/8 in.	9.5	54.9	
No. 4	4.75	44.8	
No. 10	2.0	36.9	
No. 40	0.425	15.6	
No. 200	0.075	3.7	

Notes:-

1-The sample is provided by the client and under his own responsibility.

ARDAMAN Split
Egypt Express Train
Project

Prepared by : Eng. Mohamed Elkhady
Reviewed by : Eng. Osama Mofiah

ARDAMAN Split

**MATERIALS AND CONSTRUCTION TESTING
S.A.E**

3 ABD EL KAWY AHMED St. , MOHANDSEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 11/04/2022

**PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422**

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1071

**Source of sample: توريد ميناء
St. -3+400 To -3+600**

Classification According to AASHTO: A-1-a

Percentage of materials finer than # 200: 3.7%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	97.9	
1.5 in.	38	88.1	
1 in.	25	77.4	
3/4 in.	19	70.8	
1/2 in.	12.5	61.3	
3/8 in.	9.5	54.9	
No. 4	4.75	44.8	
No. 10	2.0	36.9	
No. 40	0.425	15.6	
No. 200	0.075	3.7	

Notes:-

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Muhamed Elkady

**ARDAMAN Split
Egypt Express Train
Project**

Reviewed by : Eng. Osama Moftah

ARDAMAN SplitMATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA

Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 15/06/2022

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 13/06/2022

Sample Identification No. : Sample No. 1288

Source of sample: St. -3+400 To -3+600

Level (m) : -2.50

Classification According to AASHTO:

A-1-a

Percentage of materials finer than # 200:

3.7%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	91.9	
1.5 in.	38	81.4	
1 in.	25	66.7	
3/4 in.	19	59.6	
1/2 in.	12.5	50.2	
3/8 in.	9.5	44.1	
No. 4	4.75	35.8	
No. 10	2.0	27.1	
No. 40	0.425	10.4	
No. 200	0.075	3.7	

Notes:-

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mahmoud Nasr

Reviewed by : Eng. Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING

S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA

Tel. : 33448413 - Fax : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 15/06/2022

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 13/06/2022

Sample Identification No. : Sample No. 1289

Source of sample: St. -3+400 To -3+600

Level (m) : -2.50

Classification According to AASHTO:

A-1-a

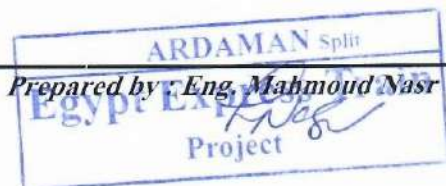
Percentage of materials finer than # 200:

4.3%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	88.2	
1.5 in.	38	79.4	
1 in.	25	67.7	
3/4 in.	19	60.7	
1/2 in.	12.5	48.2	
3/8 in.	9.5	45.2	
No. 4	4.75	34.8	
No. 10	2.0	26.4	
No. 40	0.425	11.1	
No. 200	0.075	4.3	

Notes:-

1-The sample is provided by the client and under his own responsibility.



Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 15/06/2022

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 13/06/2022

Sample Identification No. : Sample No. 1290

Source of sample: St. -3+400 To -3+600

Level (m) : -2.50

Classification According to AASHTO:

A-1-a

Percentage of materials finer than # 200:

3.5%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	92.0	
1.5 in.	38	83.0	
1 in.	25	68.3	
3/4 in.	19	61.2	
1/2 in.	12.5	49.4	
3/8 in.	9.5	46.3	
No. 4	4.75	36.0	
No. 10	2.0	27.0	
No. 40	0.425	10.1	
No. 200	0.075	3.5	

Notes:-

1-The sample is provided by the client and under his own responsibility.

ARDAMAN Split
Project
Prepared by : Eng. Mahmoud Nasr

Reviewed by : Eng. Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St , MOHANDESEEN - GIZA

Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 22/06/2022

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 21/06/2022

Sample Identification No. : Sample No. 1324

Source of sample: St. 3+425

Level (m) : -2.00

Classification According to AASHTO: A-1-a

Percentage of materials finer than # 200: 4.0%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in	75	86.2	
2.5 in.	63.5	83.5	
2 in	50	79.7	
1.5 in	38	68.7	
1 in	25	62.4	
3/4 in	19	56.4	
1/2 in.	12.5	49.0	
3/8 in.	9.5	44.8	
No. 4	4.75	33.7	
No. 10	2.0	27.7	
No. 40	0.425	11.5	
No. 200	0.075	4.0	

Notes:-

1-The sample is provided by the client and under his own responsibility.

Egypt Express Train

Prepared by : Eng. Mahmoud Nasr

Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

**MATERIALS AND CONSTRUCTION TESTING
S.A.E**

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 15/06/2022

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 13/06/2022

Sample Identification No. : Sample No. 1288

Source of sample: St. -3+400 To -3+600

Level (m) : -2.50

Classification According to AASHTO:

A-1-a

Percentage of materials finer than # 200:

3.7%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	91.9	
1.5 in.	38	81.4 /	
1 in.	25	66.7	
3/4 in.	19	59.6 /	
1/2 in.	12.5	50.2	
3/8 in.	9.5	44.4	
No. 4	4.75	35.8	
No. 10	2.0	27.1	
No. 40	0.425	10.4	
No. 200	0.075	3.7	

Notes:-

1-The sample is provided by the client and under his own responsibility.

ARDAMAN Split
Egypt Express Train
Project
Prepared by : Eng. Mahmoud Naser

Reviewed by : Eng. Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING

S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA

TEL.: 33448413 - FAX.: 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 11/04/2022

MOISTURE DENSITY RELATIONSHIP OF SOIL

ACCORDING TO ASTM D 1557

Sample delivery date: 30/03/2022

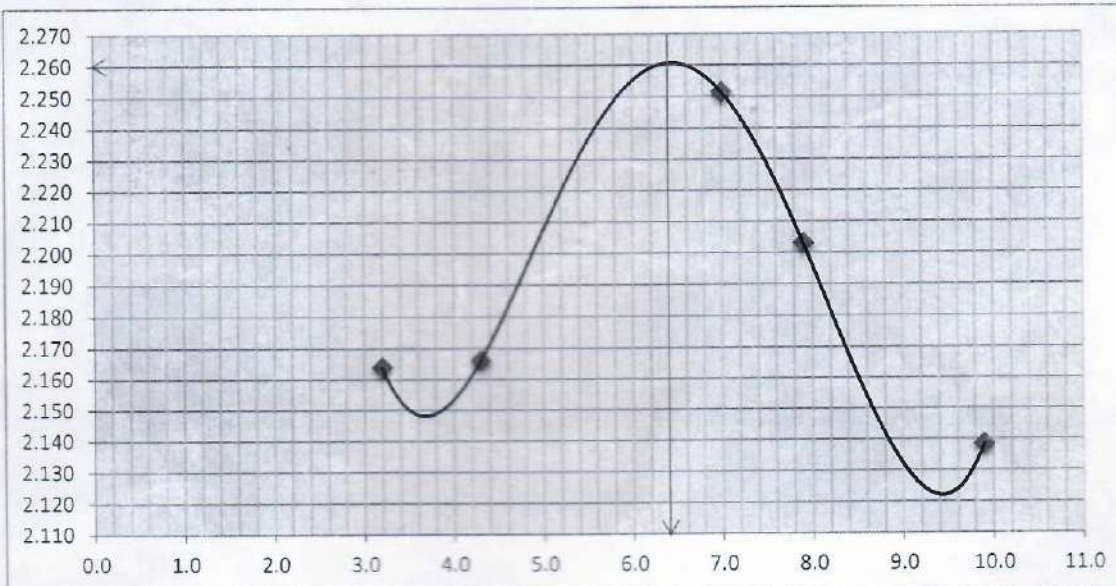
Sample Identification No. : Sample No. 1071

Source of sample:

توريد ميناء

St. -3+400 To -3+600

Wet Unit Weight, gm/cm ³	2.233	2.259	2.409	2.377	2.350
Water Content, %	3.2	4.3	7.0	7.9	9.9
Dry Unit Weight, gm/cm ³	2.164	2.166	2.251	2.203	2.138



Result (s):

- 1- Maximum dry density = 2.260 t/m³
- 2- Optimum moisture content = 6.40 %

Note (s):

- 1- The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Muhamed Elkady



Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

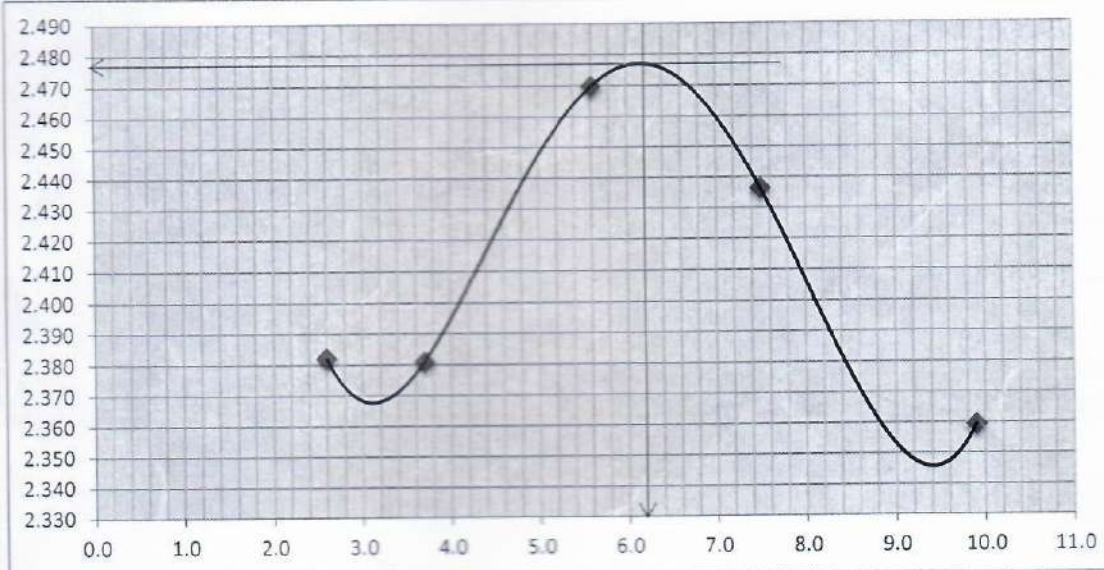
Client : (A83) شركة أبور عوف للمقاولات

Date: 15/06/2022

MOISTURE DENSITY RELATIONSHIP OF SOIL
ACCORDING TO ASTM D 1557

Sample delivery date: 13/06/2022
Sample Identification No. : Sample No. 1288
Source of sample: St. -3+400 To -3+600
Level (m) : -2.50

Wet Unit Weight, gm/cm ³	2.444	2.469	2.608	2.619	2.593
Water Content, %	2.6	3.7	5.6	7.5	9.9
Dry Unit Weight, gm/cm ³	2.382	2.381	2.470	2.436	2.359



Result (s):

- 1- Maximum dry density = 2.477 t/m³
2- Optimum moisture content = 6.40 %

Note (s):

- 1- The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mahmoud Naser
Egypt Express Train
Project

Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING

S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA

TEL.: 33448413 - FAX.: 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

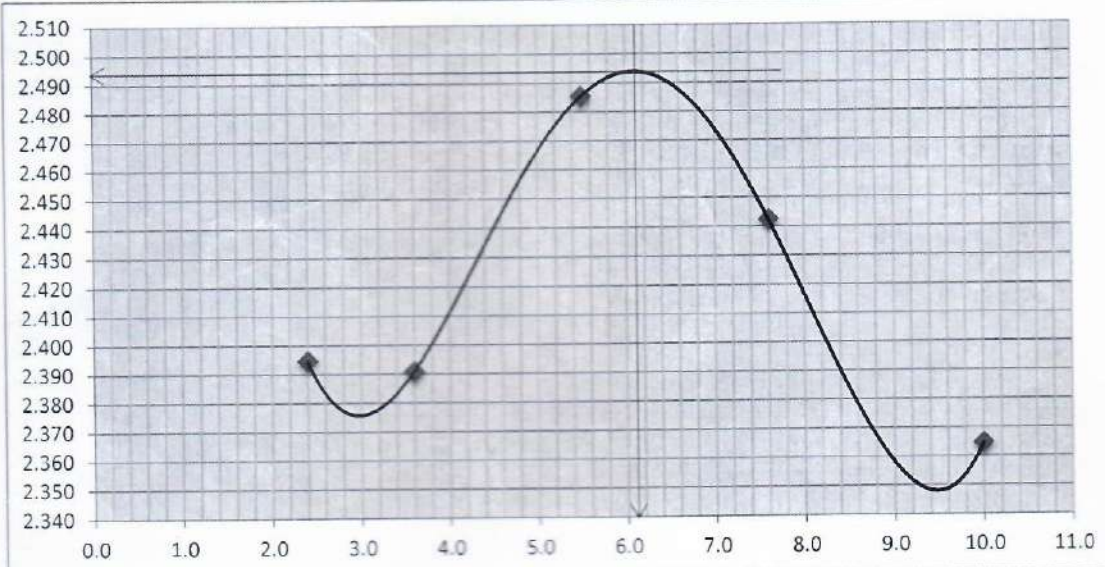
Date: 15/06/2022

MOISTURE DENSITY RELATIONSHIP OF SOIL

ACCORDING TO ASTM D 1557

Sample delivery date: 13/06/2022
Sample Identification No. : Sample No. 1289
Source of sample: St. -3+400 To -3+600
Level (m) : -2.50

Wet Unit Weight, gm/cm ³	2.452	2.477	2.622	2.628	2.601
Water Content, %	2.4	3.6	5.5	7.6	10.0
Dry Unit Weight, gm/cm ³	2.395	2.391	2.485	2.442	2.365



Result (s):

- 1- Maximum dry density = 2.492 t/m³
2- Optimum moisture content = 6.10 %

Note (s):

- 1- The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mahmoud Naser
Project

Reviewed by : Eng. Osama Mofteh

MOISTURE DENSITY RELATIONSHIP OF SOILACCORDING TO ASTM D 1557

Sample delivery date:

13/06/2022

Sample Identification No.:

Sample No. 1290

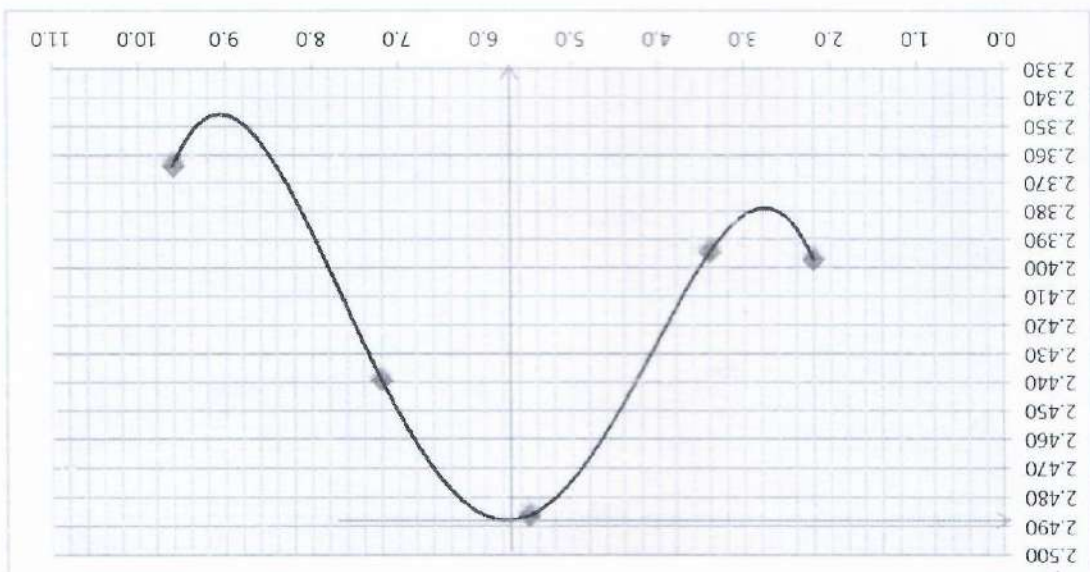
Source of sample:

St. -3+400 To -3+600

Level (m):

-2.50

Wet Unit Weight, gm/cm ³	Water Content, %	Dry Unit Weight, gm/cm ³
2.450	2.2	2.397
2.476	3.4	2.395
2.623	5.5	2.486
2.615	7.2	2.439
2.591	9.6	2.364

Result (s):

1- Maximum dry density = 2.487 t/m³
 2- Optimum moisture content = 5.70 %

Note (s):

1- The sample is provided by the client and under his own responsibility.

Prepared by: Eng. Mahmoud Nasr

Reviewed by: Eng. Osama Mofiah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL: 33448413 - FAX: 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

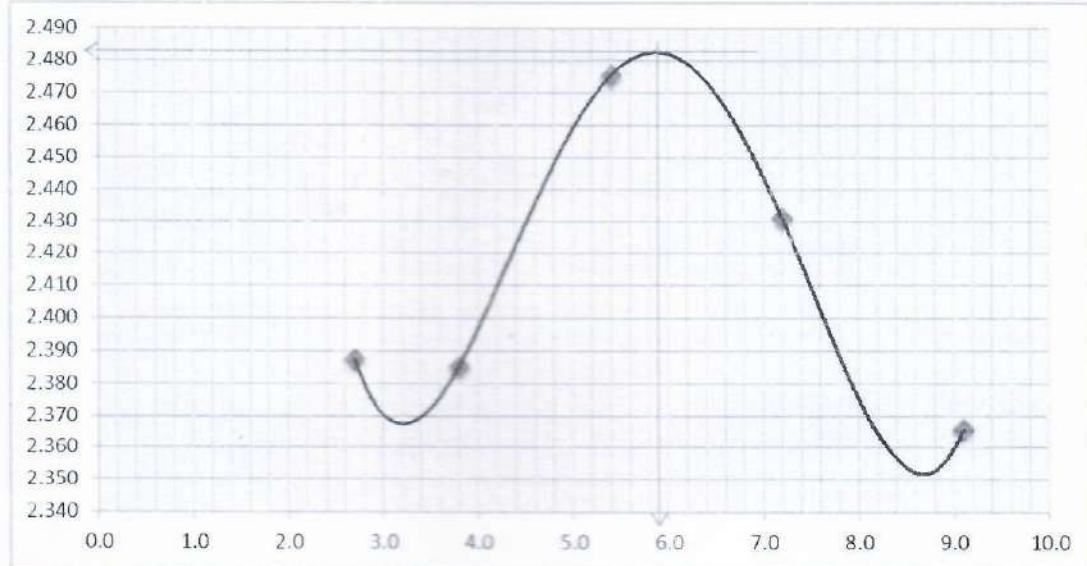
Client : (A83) شركة أبو عوف للمقاولات

Date: 22/06/2022

MOISTURE DENSITY RELATIONSHIP OF SOIL
ACCORDING TO ASTM D 1557

Sample delivery date: 21/06/2022
Sample Identification No. : Sample No. 1324
Source of sample: St. 3+425
Level (m) : -2.00

Wet Unit Weight, gm/cm ³	2.452	2.476	2.609	2.606	2.581
Water Content, %	2.7	3.8	5.4	7.2	9.1
Dry Unit Weight, gm/cm ³	2.388	2.385	2.475	2.431	2.366



Result (s):

- 1- Maximum dry density = 2.482 t/m³
2- Optimum moisture content = 5.90 %

Note (s):

- 1- The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mahmoud Nassif

Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDSEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date : 12/04/2022

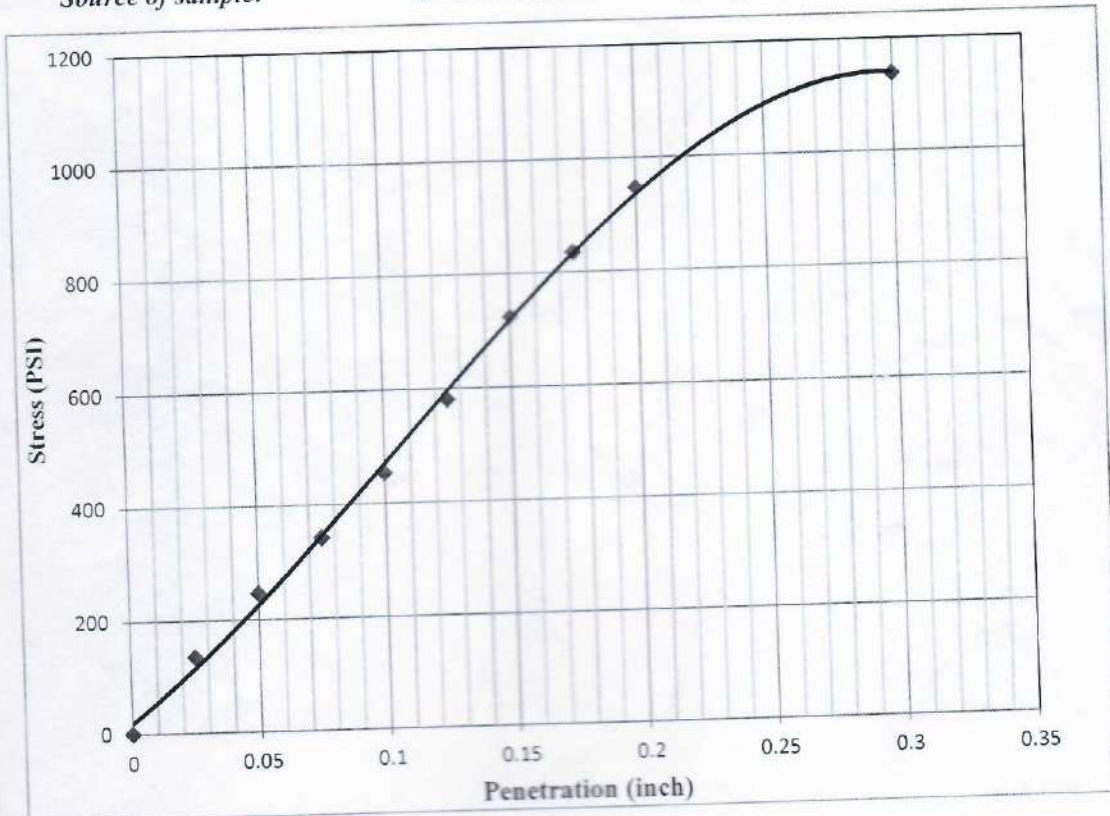
CBR OF LABORATORY-COMPACTED SOILS

ACCORDING TO ASTM D 1883

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1070

Source of sample: St. -3+400 To -3+600 توريد ميناء



Result (s):

CBR at 0.1 Inch = 45.3 %

CBR at 0.2 Inch = 63.1 %

Note (s):

¹ The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Muhamed Elkady

Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDSEEN - GIZA
TEL : 33448413 - FAX: 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date : 11/04/2022

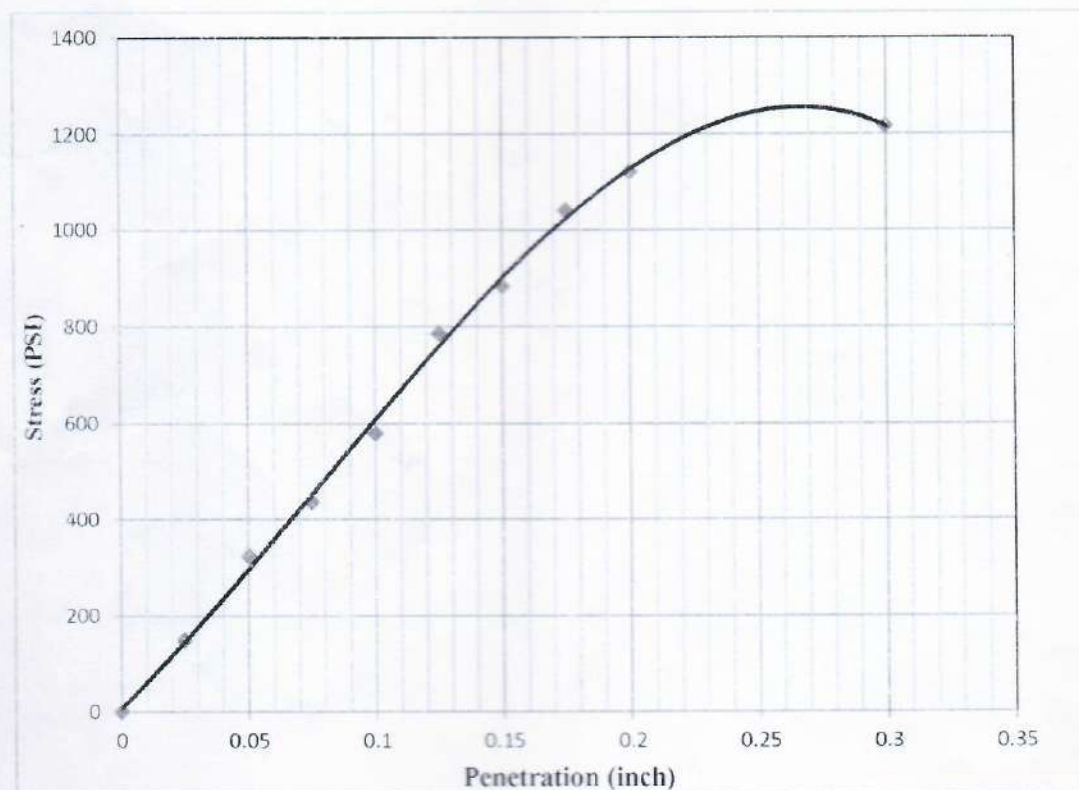
CBR OF LABORATORY-COMPACTED SOILS

ACCORDING TO ASTM D 1883

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1071

Source of sample: St. -3+400 To -3+600 تورينج ميناء



Result (s):

CBR at 0.1 Inch = 58.0 %

CBR at 0.2 Inch = 74.8 %

Note (s):

1 The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mohamed Elhady

Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL: 33448413 - FAX: 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date : 15/06/2022

CBR OF LABORATORY-COMPACTED SOILS

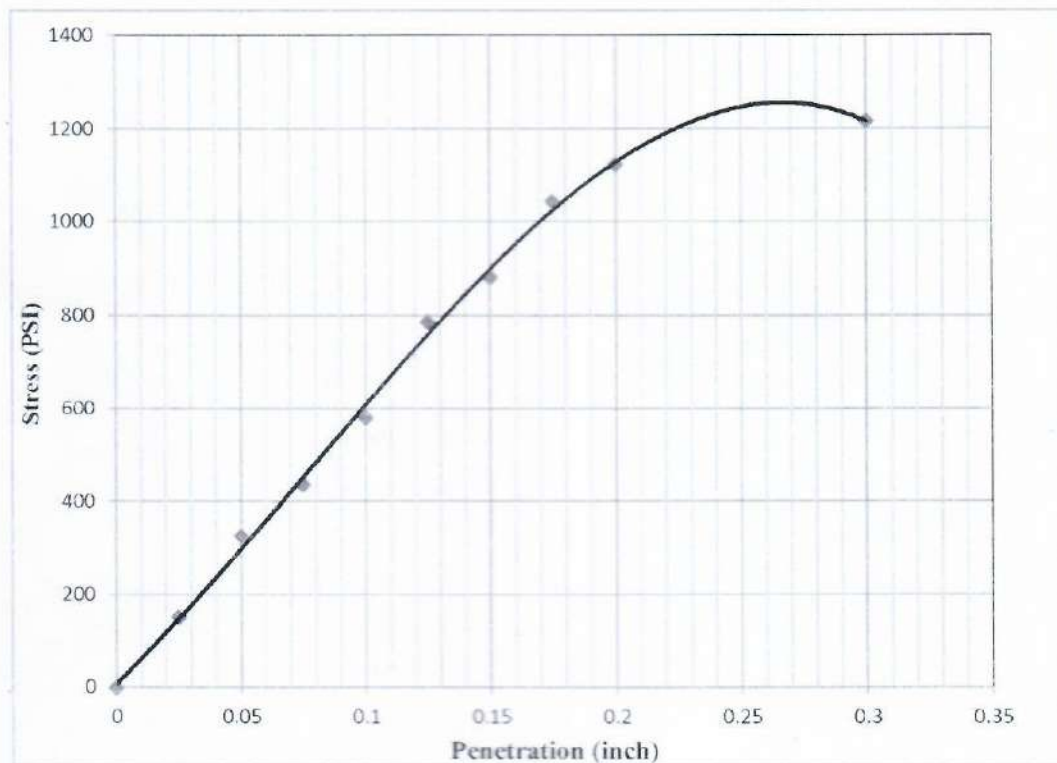
ACCORDING TO ASTM D 1883

Sample delivery date: 13/06/2022

Sample Identification No. : Sample No. 1289

Source of sample: St. -3+400 To -3+600

Level (m) : -2.50



Result (s):

CBR at 0.1 Inch = 58.0 %

CBR at 0.2 Inch = 74.8 %

Note (s):

1 The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mohamed Youssef
Project

Reviewed by : Eng. Osama Mofteh

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MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 15/06/2022

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS

ACCORDING TO ASTM D4318

Sample delivery date: 13/06/2022

Sample Identification No. : Sample No. 1288

Source of sample: St. -3+400 To -3+600

Level (m) : -2.50

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1288	N.P	N.P	N.P

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mahmoud Nasr

Reviewed by : Eng. Osama Moftah

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MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDSEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 15/06/2022

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS

ACCORDING TO ASTM D4318

Sample delivery date: 13/06/2022

Sample Identification No. : Sample No. 1289

Source of sample: St. -3+400 To -3+600

Level (m) : -2.50

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1289	N.P	N.P	N.P

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by: Eng. Mahmoud Nasr

Reviewed by : Eng.Osama Mofteh

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MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 15/06/2022

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS

ACCORDING TO ASTM D4318

Sample delivery date: 13/06/2022

Sample Identification No. : Sample No. 1290

Source of sample: St. -3+400 To -3+600

Level (m) : -2.50

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1290	N.P	N.P	N.P

- Notes:

1-The sample is provided by the client and under his own responsibility.

ARDAMAN Split
Prepared by: Eng. Mahmoud Nassar
Project

Reviewed by : Eng. Osama Moftah

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MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDSEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 11/04/2022

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS

ACCORDING TO ASTM D4318

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1070

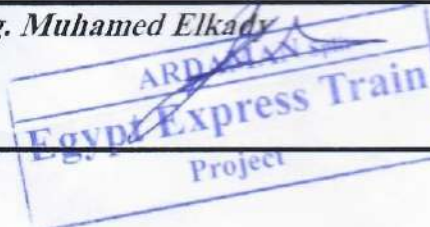
Source of sample: توريد ميناء
St. -3+400 To -3+600

<i>Sample Identification No.</i>	<i>Liquid Limit (%)</i>	<i>Plastic Limit (%)</i>	<i>Plasticity Index (%)</i>
<i>Sample No. 1070</i>	<i>N.P</i>	<i>N.P</i>	<i>N.P</i>

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Muhamed Elkady



Reviewed by : Eng. Osama Mofteh

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MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 11/04/2022

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
ACCORDING TO ASTM D4318

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1071

Source of sample: توريد ميناء
St. -3+400 To -3+600

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1071	N.P	N.P	N.P

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Muhamed Elkady

ARDAMAN Split
Egypt Express Train
Project

Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 22/06/2022

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS

ACCORDING TO ASTM D4318

Sample delivery date: 21/06/2022

Sample Identification No. : Sample No. 1324

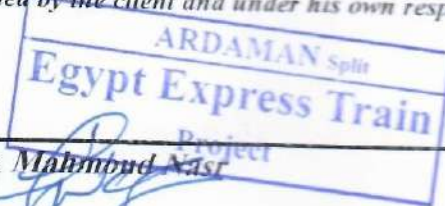
Source of sample: St. 3+425

Level (m) : -2.00

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1324	N.P	N.P	N.P

- Notes:

1- The sample is provided by the client and under his own responsibility.



Prepared by : Eng. Mahmoud Naser

Reviewed by : Eng. Osama Moftah

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MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDSEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 15/06/2022

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS

ACCORDING TO ASTM D4318

Sample delivery date: 13/06/2022

Sample Identification No. : Sample No. 1288

Source of sample: St. -3+400 To -3+600

Level (m) : -2.50

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1288	N.P	N.P	N.P

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by: Eng. Mahmoud Nasr

Project

Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 11/04/2022

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS

ACCORDING TO ASTM D4318

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1071

Source of sample: توريد ميناء
St. -3+400 To -3+600

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1071	N.P	N.P	N.P

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mohamed Elkady

Reviewed by : Eng. Osama Moftah

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MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 15/06/2022

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
ACCORDING TO ASTM D4318

Sample delivery date: 13/06/2022

Sample Identification No. : Sample No. 1290

Source of sample: St. -3+400 To -3+600

Level (m) : -2.50

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1290	N.P	N.P	N.P

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mahmoud Nasr

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 15/06/2022

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS

ACCORDING TO ASTM D4318

Sample delivery date: 13/06/2022

Sample Identification No. : Sample No. 1289

Source of sample: St. -3+400 To -3+600

Level (m) : -2.50

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1289	N.P	N.P	N.P

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mahmoud Naser



Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING

S.A.E

3 ABD EL KAWY AHMED St. , MOHANDSEEN - GIZA

Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : شركة أبو عوف للمقاولات (A83)

Date: 26-04-2022

ORGANIC CONTENT OF SOILS
ACCORDING TO ASTM D2974

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1069

Source of sample: St. -3+400 To -3+600 توريد ميثاء

Sample Id.	Organic Content (%)
Sample No. 1069	0.964

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mohamed Elkaady

Egypt Express Train
Project

Reviewed by : Eng. Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING

SAE

JABD EL KAWY AHMED S. MOHANDSEEN - GIZA

Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) جيل للبناء

Date: 26-04-2022

ORGANIC CONTENT OF SOILS ACCORDING TO ASTM D2974

Sample delivery date: 30/03/2022

Sample Identification No.: Sample No. 1068

Source of sample: St. -3+400 To -3+600

Sample Id.	Sample No. 1068
Organic Content (%)	0.982

Notes:

The sample is provided by the client and under his own responsibility.



Reviewed by : Eng. Osama Mofiah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 26/04/2022

ORGANIC CONTENT OF SOILS
ACCORDING TO ASTM D2974

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1067

Source of sample: St. -3+400 To -3+600 توريد ميثاء

Sample Id.	Organic Content (%)
Sample No. 1067	0.930

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mohamed Elkady
ARDAMAN Split
Egypt Express Train
Project

Reviewed by : Eng. Osama Mofteh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 26-04-2022

ORGANIC CONTENT OF SOILS
ACCORDING TO ASTM D2974

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1070

Source of sample: St. -3+400 To -3+600 توريد ميناء

Sample Id.	Organic Content (%)
Sample No. 1070	0.982

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mohamed Elkady

Egypt Express Train
Project

Reviewed by : Eng. Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING

S.A.E

3 ABD EL KAWY AHMED St , MOHANDSEEN - GIZA

Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 26/04/2022

ORGANIC CONTENT OF SOILS
ACCORDING TO ASTM D2974

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1071

Source of sample: St. -3+400 To -3+600 توريد ميناء

<i>Sample Id.</i>	<i>Organic Content (%)</i>
<i>Sample No. 1071</i>	<i>0.971</i>

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Muhamed Elkady

Reviewed by : Eng. Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDSEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 26-04-2022

ORGANIC CONTENT OF SOILS
ACCORDING TO ASTM D2974

Sample delivery date: 30/03/2022

Sample Identification No. : Sample No. 1071

Source of sample: St. -3+400 To -3+600 توريد ميثاء

Sample Id.	Organic Content (%)
Sample No. 1071	0.971

- Notes:

1-The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mohamed Elkadry

Egypt Express Train
Project

Reviewed by : Eng. Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St , MOHANDESEEN - GIZA
Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - Alsokhna Sector

File No.: 4800/S

Client : (A83) شركة أبو عوف للمقاولات

Date: 07/07/2022

ORGANIC CONTENT OF SOILS
ACCORDING TO ASTM D2974

Sample delivery date: 21/06/2022

Sample Identification No. : Sample No. 1324

Source of sample: St. 3+425

Level (m) : -2.00

Sample Id.	Organic Content (%)
Sample No. 1324	0.346

- Notes:

1- The sample is provided by the client and under his own responsibility.

Prepared by : Eng. Mahmoud Nasr

Reviewed by : Eng. Osama Moftah



Electric Express Train Project (EET) FROM AIN EL SOKHNA TO MARSAH MATROUH



General consultant's comments

- 1- () Samples were taken, () in company's laboratory, and ARDAMAN laboratory
- 2-The attached results are within the permissible limits provided that they are compatible with the project specifications.
- 3-Provided us with the validity tests for the sand supplied to the company.
- 4- Provided us with the approval of the quarries for the supply.