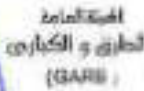
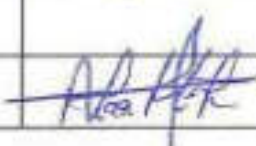


MATERIAL APPROVAL REQUEST		    																		
Contractor Company	Dream way		Designer Company	SPECTRUM Engineering Consulting Office																
Issued by Contractor	Name	Eng. Saeed Mohamed	Date/Serial Number	31/10/2022 (55-B-DW) (Q.T-07-01)																
	Sign		Time	1:00																
Received by GARBI CONSULTANT	Eng. Mazen Esamy		MAE	<table border="1"> <tr> <td>CS</td> <td>CS</td> <td>CS</td> <td>CS</td> <td>MS</td> <td>NY</td> <td>MS</td> <td>MS</td> </tr> <tr> <td>368</td> <td>EW</td> <td>CS</td> <td>1</td> <td>11</td> <td>2022</td> <td>1</td> <td>0</td> </tr> </table>	CS	CS	CS	CS	MS	NY	MS	MS	368	EW	CS	1	11	2022	1	0
CS	CS	CS	CS	MS	NY	MS	MS													
368	EW	CS	1	11	2022	1	0													
CODE	31 to S21	Station Reference	01 to S3	Depot Reference	Eg XXX Note For Kilometer point only Start km is used															
WORK TYPE	Work Activity																			
WORK ELEMENT	Sub Element of Activity																			
Description of Materials	Aggregate (Filter)																			
Location to be Used	المشور																			
Sample only	yes	Materials Type	Filter																	
Supplier Name	El-Grouba	Data Sheet provided																		
Reference in BoQ		Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP																	
Prequalification reference		Test Samples Results																		
Reference Photos	No	Other																		
Comments by: Eng. Mazen Esamy (SPECTRUM)		Comments by: Eng. Alaa Abd-Allatif (ER)																		
1-Quality test Result By THIRD PARTY LABORATORY IS THIS SAMPLE REPRESENTATIVE (5000) M³ ONLY 		1-All tests were carried-out by Third party Laboratory (COMIBASSAL) 2-Results report attached and acceptable with the project specifications.																		
APPROVAL STATUS																				
Organisation	Name	Sign	Date	A-AWC-R																
Contractor	Eng. Saeed Mohamed		1/11/2022	A																
QA/QC *	Eng. Mazen Esamy			A																
GARB **	Eng. Margret																			
Employers Representative	Eng. Alaa Abd-Allatif			A																

* Designer

** Alignment/Design: Client only



COMIBASSAL International Controllers

الجمعية التعاونية لأعمال الوزن والمراجعة والخبرة الدولية كوميباسال

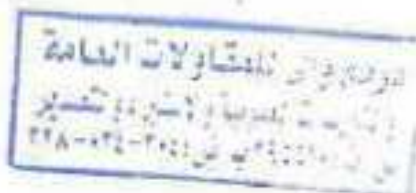
حاصلة على شهادة الأيزو ISO 9001:2008

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للترول
تحت رقم ٢٤ / ١١٠٢٩ / ٢٠١١



ABSORPTION AND SPECIFIC GRAVITY FOR COARSE AGGREGATE

ASTM C 127 - AASHTO T 85 - BS :812 part 107

PROJECT: Electric Express Train

DATE: 01/11/2022

General Consultant :- SYSTRA

Consultant :- SPECTRUM

CONTRACTOR: شركة لريم واي

Material / Source of Soil :- Agg. Crushed Stone. (1.5")

REF. Q.C. 1650/1

TRIAL NO	SPECTRUM CONSULTING		AVERAGE
A. WEIGHT OF Oven Dry TEST SAMPLE IN AIR (g)	3000.0	3020.0	3010.0
B. WEIGHT OF S.S.D. TEST SAMPLE IN AIR (g)	3031.0	3050.0	3040.5
C. WEIGHT OF S. TEST SAMPLE IN WATER (g)	1845.0	1860.0	1852.5
D. ABSORPTION = (B - A)	31.0	30.0	30.5
E. ABSORPTION % = [(B - A)/A] X 100	1.03	0.99	1.01
F. SPECIFIC GRAVITY:			
a) Bulk sp. Gr. , Oven Dry (A / (B - C))	2.53	2.54	2.53
b) Bulk, Sat. Surface Dry (B / (B - C))	2.56	2.55	2.56
c) Apparent sp. Gr. (A / (A - C))	2.60	2.60	2.60
Tested By : Mostfa	Checked By : Eng. Eman E. Kandil		



Eman

الإدارة: ٤٠ شارع مصطفى زغلول - الإسكندرية - مصر

ت. ٤٨٧٠٥٧٩ - ف. ٤٨٧٠٥٧٩ - ت. ٤٨٧٠٥٧٩

40safia zaghloul st . p.o.Box 157 Alex, Egypt
Tel:4870573 - Fax + Tel : 4889798 - 4870665



القطاع: خلف الطريق البحرية - الإسكندرية - مصر
ت. ٣٩٠١٤٨٢ - ف. ٣٩٠١٤٨٢ - ت. ٣٩٠٠٤٧٦

49 EL Horria Ave .-Alex,Egypt
Tel: 3920176 - 3931482 - Fax: 3900476
E-mail :internal - inspection@comibassal.com



COMIBASSAL International Controllers

الجمعية العالمية لمتابعة الأعمال والوزن والمراجعة والكثافة (كوميباسال)

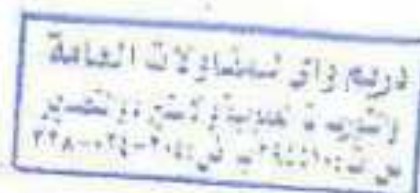
حاصلة على شهادة الأيزو ISO 9001:2008

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

متمتع لدى الهيئة المصرية العامة للتفتيش
تحت رقم ٢٩ / ١١٠٢٩ / ٢٠١١



ABSORPTION AND SPECIFIC GRAVITY FOR COARSE AGGREGATE

ASTM C 127 - AASHTO T 85 - BS :812 part 107

PROJECT: Electric Express Train

DATE: 01/11/2022

General Consultant :- SYSTRA

Consultant :- SPECTRUM

CONTRACTOR: شركة دريم واي

Material / Source of Soil :- Agg. Crushed Stone. (2.0")

LAB. REF. Q.C. 1650/2



TRIAL NO	2	AVERAGE
A. WEIGHT OF Oven Dry TEST SAMPLE IN AIR (g)	5000.0	5000.0
B. WEIGHT OF S.S.D. TEST SAMPLE IN AIR (g)	5050.0	5052.0
C. WEIGHT OF S. TEST SAMPLE IN WATER (g)	3072.0	3070.0
D. ABSORPTION = (B - A)	50.0	52.0
E. ABSORPTION % = $[(B - A)/A] \times 100$	1.00	1.04
F. SPECIFIC GRAVITY:		
a) Bulk sp. Gr., Oven Dry $\{A / (B - C)\}$	2.53	2.52
b) Bulk, Sat. Surface Dry $\{B / (B - C)\}$	2.55	2.55
c) Apparent sp. Gr. $\{A / (A - C)\}$	2.59	2.59

Tested By : Mostfa

Checked By : Eng. Eman E. Kandil

Eman





COMIBASSAL International Controllers

الجمعية التعاونية للأعمال الدولية (كوميباسال)

ISO 9001:2008 حاصلة على شهادة الأيزو

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفقيش الداخلي والمعامل

مستند لدى الهيئة المصرية العامة للبترول
تحت رقم ٢٤ / ٢٩ / ١١ / ٢٠١١

إدارة التفقيش الداخلية
مستند لدى الهيئة العامة للبترول
تحت رقم ٢٤ / ٢٩ / ١١ / ٢٠١١

ABSORPTION AND SPECIFIC GRAVITY FOR COARSE AGGREGATE

ASTM C 127 - AASHTO T 85 - BS :812 part 107

PROJECT: Electric Express Train

DATE: 01/11/2022

General Consultant :- SYSTRA

Consultant: SPECTRUM

CONTRACTOR: شركة لريم واي

Material / Source of Soil :- Agg. Crushed Stone. (3.0")

LAB. REF. Q.C. 1650/3



TRIAL NO			AVERAGE
A. WEIGHT OF Oven Dry TEST SAMPLE IN AIR (g)	5003.0	5001.0	5002.0
B. WEIGHT OF S.S.D. TEST SAMPLE IN AIR. (g)	5055.0	5053.0	5054.0
C. WEIGHT OF S. TEST SAMPLE IN WATER. (g)	3070.0	3072.0	3071.0
D. ABSORPTION = (B - A)	52.0	52.0	52.0
E. ABSORPTION % = [(B - A)/A] X 100	1.04	1.04	1.04
F. SPECIFIC GRAVITY:			
a) Bulk sp. Gr. , Oven Dry (A / (B - C))	2.52	2.52	2.52
b) Bulk, Sat. Surface Dry (B / (B - C))	2.55	2.55	2.55
c) Apparent sp. Gr. (A / (A - C))	2.59	2.59	2.59
Tested By :	Mostfa	Checked By :	Eng. Eman E. Kandil

Eman

الإدارة: 40 شارع زغلول - الإسكندرية - ب ١٥٧

ت. ٤٨٧٠٥٧٩ - فاكس: ٤٨٦٩٧٩٤ - ٤٨٧٠٧١٥

40safia zeghloul st. - p.o.Box 157 Alex, Egypt
Tel:4870573 - Fax + Tel : 4869796 - 4870665



القطاع: 49 طريق الحرية - الإسكندرية - مصر

ت. ٣٩٢٠١٧٦ - ٣٩٣١٤٨٢ - ٣٩٢٠١٧٦

49 El Horria Ave. - Alex-Egypt
Tel: 3920176 - 3931482 - Fax: 3900476
E-mail: internal - inspection@comibassal.com



COMIBASSAL International Controllers

الجمعية التعاونية الإستراتيجية لأعمال الوزن والمراجعة والخبرة الدولية (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

Report No: 1650 - 5 - center
Date: 23/11/2022

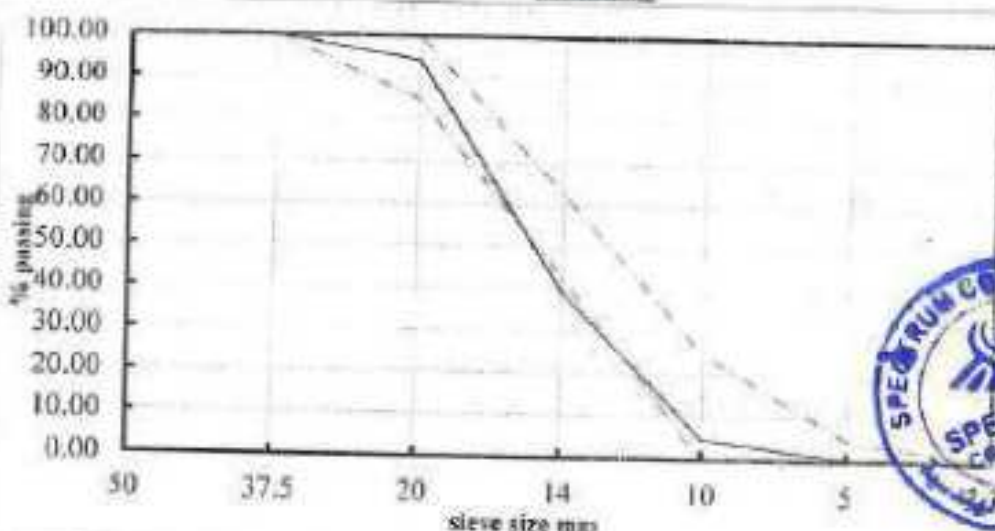
قطاع التفتيش الداخلي والمعامل

متمم لدى الهيئة المصرية العامة للترول
تحت رقم ٢٩/١١-٢٠١١

SIEVE ANALYSIS FOR COARSE AGGREGATE

General consultant : SYSTRA
Consultant : SPECTRUM
Contractor : شركة دريم واى
Project : Electric express train
Test method : BS 882 Table 4. 20 mm
Sample : COARSE AGGREGATE (Agg 1.5)
Date of Test : 1/11/2022

Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	100	94	39	5	0	0

Civil. Eng Department

Eng : Eman, E. Kandil

دريم واى للمقاولات العامة
القاهرة - جمهورية مصر العربية
٢٩/١١-٢٠١١





COMIBASSAL International Controllers

الجمعية المصرية للمعايير الدولية - المنظمة الدولية للمعايير (كوبيساس)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للقياس
تحت رقم ٢٤ / ٢٩ - ١١ / ٢٠١١

Report no : 1650 / 6 / center
Date : 23 / 11 / 2022

ABRASION AND IMPACT " LOS ANGELES " TEST

(For small size coarse aggregate)

ASTM- C 131-96 / AASHTO-T-96

General consultant :

SYSTRA

Consultan :

SPECTRUM

Contractor :

شركة دريم واى

Project :

Electric express train

Sample :

COARSE AGGREGATE (Agg 1.5)

Date of Test :

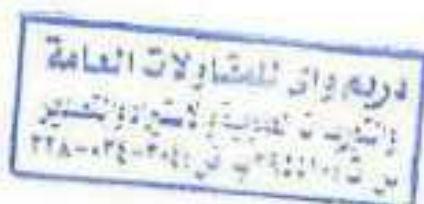
01/11/2022



Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intital Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3380
% Wear By Weight Passing on Sieve No.12	32.4%

Civil Eng. Depart.



Eng. Eman E.Kandil





COMIBASSAL International Controllers

الجمعية المصرية للمراقبة الدولية للأعمال والفرص التجارية الدولية (كومباسال)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

Report No: 1650 - 7 - center
Date: 23/11/2022

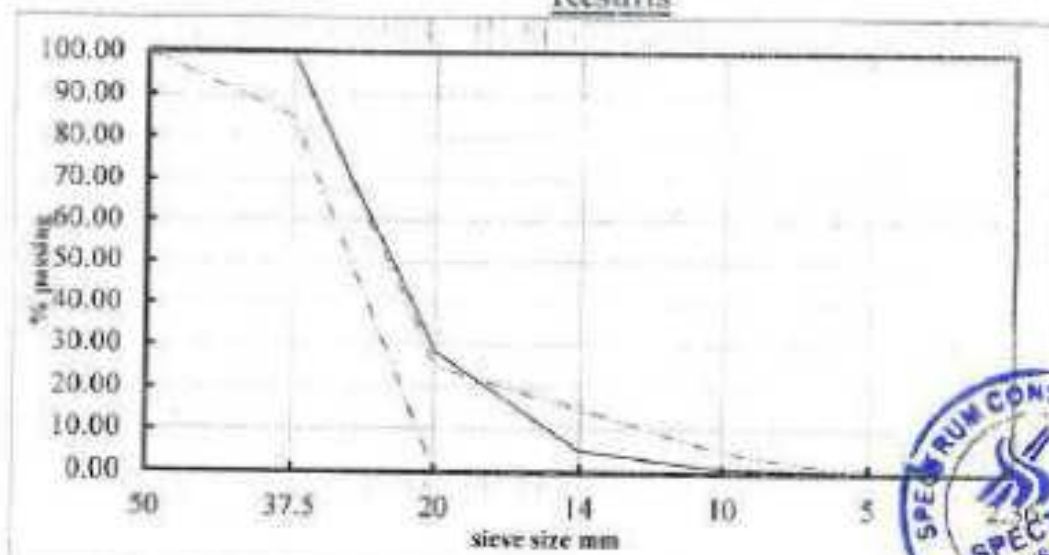
قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للتبترول
تحت رقم ٢٩/١١-٢٠١١

SIEVE ANALYSIS FOR COARSE AGGREGATE

General consultant	:	SYSTRA
Consultant	:	SPECTRUM
Contractor	:	شركة دريم واى
Project	:	Electric express train
Test method	:	BS 882 Table 4. 40 mm
Sample	:	COARSE AGGREGATE (Agg 2)
Date of Test	:	1/11/2022

Results



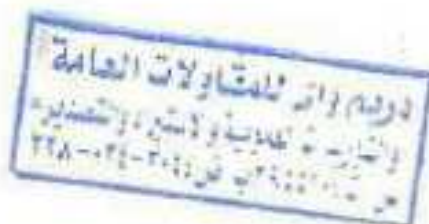
sieve size mm	50	37.5	20	14	10	5	2.5
passing %	100	100	29	5	1	0	0



Civil. Eng Department

Eman

Eng : Eman. E. Kandil





COMIBASSAL International Controllers

(الجمعية الدولية للمراقبين الإنشائيين لأعمال البنية التحتية الدولية (كوميباسال))

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No. 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

معتد لدى الهيئة المصرية العامة للتبترول
تحت رقم ٣٤ / ٢٩ / ٢٩ / ١١ / ٢٠١١

Report no : 1650 / 8 / center

Date : 23 / 11 / 2022

ABRASION AND IMPACT " LOS ANGELES " TEST

(For small size coarse aggregate)

ASTM- C 131-96 / AASHTO-T-96

General consultant:

SYSTRA

Consultan :

SPECTRUM

Contractor :

شركة دريم واى

Project :

Electric express train

Sample :

COARSE AGGREGATE (Agg 2)

Date of Test :

01/11/2022

Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intital Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3730
% Wear By Weight Passing on Sieve No.12	25.4%

Civil Eng. Depart.



Eman

Eng: Eman E. Kandil



الإدارة: اش صهيبة زغلول - الإسكندرية - مصر

ت: ٤٨٧-٥١٧ - ف: ٤٨٧٩٩٨ - ٤٨٧-٧١٤

40safia zaghloul st . p.o.Box 157 Alex, Egypt

Tel:4870573 - Fax + Tel : 4869796 - 4870665



القطاع: خلف ١٩ طريق الحرية - الإسكندرية - مصر

ت: ٣٩٢١٧٦ - ٣٩٣١٤٨٢ - ف: ٣٩٢١٧٦

49 EL Horria Ave .-Alex.Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail: internal-inspection@comibassal.com



COMIBASSAL International Controllers

الجمعية التعاونية للاختصاصات الأورن والمرامجة والخبرة الدولية (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No. 34/29.11.2011

Report No: 1650 - 9 - center
Date: 23/11/2022

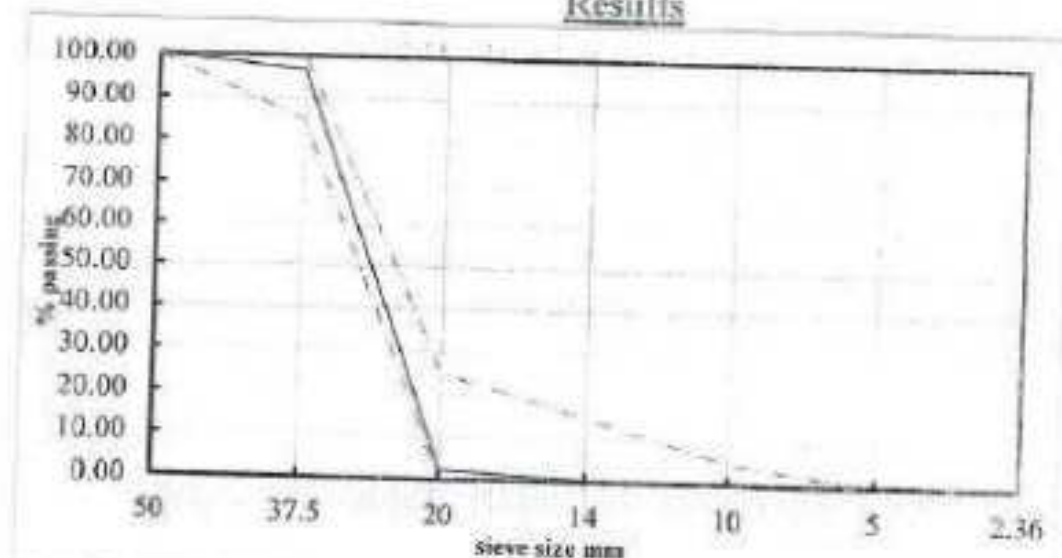
قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للبتروول
تحت رقم ٢٠١١/١١٠٢٩/٢٤

SIEVE ANALYSIS FOR COARSE AGGREGATE

General consultant : SYSTRA
 Consultant : SPECTRUM
 Contractor : شركة دريم واى
 Project : Electric express train
 Test method : BS 882 Table 4. 40 mm
 Sample : COARSE AGGREGATE (Agg 3)
 Date of Test : 1/11/2022

Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	97	2	0	0	0	0



Civil, Eng. Department

Eman

Eng : Eman, E. Kandil





COMIBASSAL International Controllers

الجمعية الدولية للتحكم في الجودة - الامانة والحيادية والكفاءة (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

Report no : 1850 / 10 / center

Date : 23 / 11 / 2022

قطاع التفتيش الداخلي والعمام

معتد لدى الهيئة المصرية العامة للبترو
تحت رقم ٣٤ / ١١ / ٢٩ / ٢٠١١

ABRASION AND IMPACT " LOS ANGELES " TEST

(For small size coarse aggregate)

ASTM- C 131-96 / AASHTO-T-96

General consultant :

SYSTRA

Consultan :

SPECTRUM

Contractor :

شركة دريم واى

Project :

Electric express train

Sample :

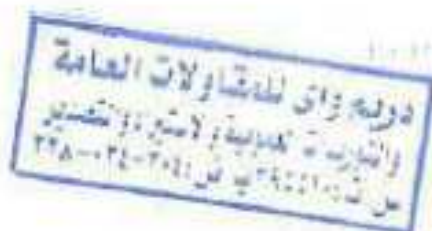
COARSE AGGREGATE (Agg 3)

Date of Test :

01/11/2022

Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intital Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3760
% Wear By Weight Passing on Sieve No.12	24.8%



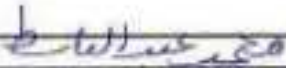
Civil Eng. Depart.

Eman

Eng: Eman E.Kandil



MATERIAL APPROVAL REQUEST		DREAM WAY		المشروع والمرق والكميات (GARB)		SPECTRUM		SPECTRUM			
Contractor Company	Dream way			Designer Company	(SPECTRUM) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/Serial Number	Time							
	Eng. Saeed Mohamed		6/11/2022 (SS-B-DW) (Q.T-10-01)	1:00							
Received by GARB CONSULTANT	Eng. Mazen Esamy		MMW	388	EW	CS	7	11	2022	1	0
CC001-1	S1 to S21			D1 to S3			By XXX Note				
CC001-2	Station Reference			Depot Reference			For Kilometer point only Start Km is used				
CC001-3	Work Activity										
CC001-4	Sub Element of Activity										
Description of Materials		Aggregate (Filter)									
Location to be Used		المشروع									
Sample only		yes		Materials Type		Filter					
Supplier Name		EL-Orouba		Data Sheet provided							
Reference in BoQ				Specification		EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2.8Y CIVECON GROUP					
Prequalification reference				Test Samples Results							
Reference Photos		No		Other							
Comments by: Eng. Mazen Esamy (SPECTRUM) 1-Quality test Result By THIRD PARTY LABORATORY IS THIS SAMPLE REPRESENTATIVE (5000) MM ONLY 				Comments by: Eng. Alaa Abd-Allatif (ER) 1-All tests were carried-out by Third party Laboratory (COMIBASSAL) 2-Results report attached and acceptable with the project specifications.							
APPROVAL STATUS											
Organisation	Name		Sign		Date		A-AWC-R				
Contractor	Eng. Saeed Mohamed				7/11/2022		A				
QA/QC *	Eng. Mazen Esamy						A				
GARB **	Eng. Margret										
Employers Representative	Eng. Alaa Abd-Allatif						A				
* Designer											
** Alignment/ Bridges: Civil only											

Contractor	 		Electrical Express Train From Borg Alarab to Alamets From Station 388+000 To Station 389+000				Serial No. QT (9-1)
	مملوك / ا.د. عبد النور					Date 7/11/2022	
	Material Inspection Request						
	We request your attendance to inspect the following works :						
Discipline : ☐ Earthwork Retention ☐ Structures ☐ Drainage ☐ Bridge							
Location :		Zone dream way		Volume 10000m3			
References		Drawing: EET-BORG EL ARAB REV 25 Plan Profile			Specification: EET L.L.L Earthworks Specifications and Testing Report		
Purpose of the inspection 1. Earthworks							
☐ Natural Subgrade ☐ Sub Ballast ☐ Upper Embankment ☐ Subsoil ☐ L.C. Embankment ☐ Roadways							
Attachments							
1- Quality test report app-(18286) filter layer							
Materials to be Inspected: Quality Test For aggregate(18286) by Comibassal							
Submitted by: dream way Signature: 							
Date of Inspection: 7/11/2022							
GARP Consultant Engineer's Comments: - the quality test result of by third party laboratory of app-18286 equal portion 1111 in of - This sample representative so as in							
The works are : ☐ approved (A) ☐ approved as noted (B) ☐ design required (C)							
Name: Mazen Emamy Signature: 							
General Consultant's Comments: 1. Sample of agg 18283 was selected for Quality Test 2. Quality Test was carried out by Third Party lab Comibassal. 3. Results attached and found acceptable and completely with SPC of Pk 4. final approval is subject to above mentioned comments.							
The works are : ☐ approved (A) ☐ approved as noted (B) ☐ design required (C)							
Name: Ali Alabdallah Signature: 							
GARP Engineer's Comments:							
Name:							
Signature:							
General Consultant Eng.							
GARP Eng.							

Consultants





COMIBASSAL International Controllers

الجمعية المصرية لالتحليلات الكيميائية والبيئية والصحية (الكومباسال)

حاصلة على شهادة الأيزو 9001:2015
Accredited by:
Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

مستند لدى الهيئة المصرية العامة للتقنين
تحت رقم ٢٠١١/١١٠٢٩/٢٤

دورية والى مستشاريات القياسية
إدارة التحليلات الكيميائية والبيئية والصحية
بمبنى الكومباسال - 40 شارع بورسعيد - الإسكندرية - مصر

ABSORPTION AND SPECIFIC GRAVITY FOR COARSE AGGREGATE

ASTM C 127 - AASHTO T 85 - BS :812 part 107

PROJECT: Electric Express Train

DATE: 07/11/2022

General Consultant :- SYSTRA

Consultant :- SPECTRUM

CONTRACTOR: شركة دريم واي

Material / Source of Soil :- Agg. Crushed Stone. (1.5")

LAB. REF. Q.C. 1716/1

TRIAL NO	1	2	AVERAGE
A. WEIGHT OF Oven Dry TEST SAMPLE IN AIR (g)	3005.0	3003.0	3004.0
B. WEIGHT OF S.S.D. TEST SAMPLE IN AIR (g)	3036.0	3033.0	3034.5
C. WEIGHT OF S. TEST SAMPLE IN WATER (g)	1648.0	1647.0	1647.5
D. ABSORPTION = (B - A)	31.0	30.0	30.5
E. ABSORPTION % = [(B - A)/A] X 100	1.03	1.00	1.02
F. SPECIFIC GRAVITY:			
a) Bulk sp. Gr. , Oven Dry $(A / (B - C))$	2.53	2.53	2.53
b) Bulk, Sat. Surface Dry $\{B / (B - C)\}$	2.56	2.56	2.56
c) Apparent sp. Gr. $\{A / (B - C)\}$	2.60	2.60	2.60

Tested By :

Mostafa

Checked By : Eng. Eman E. Kandil

الإدارة: 40 شارع بورسعيد - الإسكندرية - مصر

تلفون: 4870573 - 4870665 - 4870677

40safia zaghloul st . p.o.Box 157 Alex, Egypt

Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع: خلف 24 طريق الحرية - الإسكندرية - مصر

تلفون: 3920176 - 3931482 - 3900476

49 EL Horria Ave .-Alex.Egypt

E-mail :internal-inspection@comibassal.com



COMIBASSAL International Controllers

(الجمعية الدولية للمراقبة والتحكم)

ISO 9001:2015 حاصلة على شهادة الأيزو

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

مستند لدى الهيئة المصرية العامة للبترو
تحت رقم ٢٤/٢٩١١/٢٠١١

شركة دريم واي
للمقاولات والتجارة
٢٢٤-٠٢١-٠٢١-٠٢١

ABSORPTION AND SPECIFIC GRAVITY FOR COARSE AGGREGATE

ASTM C 127 - AASHTO T 85 - BS :812 part 107

PROJECT: Electric Express Train

DATE: 07/11/2022

General Consultant :- SYSTRA

Consultant :- SPECTRUM

CONTRACTOR: شركة دريم واي

Material / Source of Soil :- Agg. Crushed Stone. (2.0")

LAB. REF. Q.C. 1716/2

TRIAL NO	1	2	AVERAGE
A. WEIGHT OF Oven Dry TEST SAMPLE IN AIR (g)	5007.0	5005.0	5006.0
B. WEIGHT OF S.S.D. TEST SAMPLE IN AIR. (g)	5054.0	5058.0	5056.0
C. WEIGHT OF S. TEST SAMPLE IN WATER. (g)	3073.0	3078.0	3075.5
D. ABSORPTION = (B - A)	47.0	53.0	50.0
E. ABSORPTION % = [(B - A)/A] X 100	0.94	1.06	1.00
F. SPECIFIC GRAVITY:			
a) Bulk sp. Gr. , Oven Dry (A / (B - C))	2.53	2.53	2.53
b) Bulk, Sat. Surface Dry (B / (B - C))	2.55	2.55	2.55
c) Apparent sp. Gr. (A / (B - C))	2.59	2.60	2.59
Tested By : Mostfa	Checked By : Eng. Eman E. Kandil		



Eman





COMIBASSAL International Controllers

الجمعية التعاونية لأصحاب الأعمال الدولية والخبرة الدولية (كوبيباسال)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للبترول
تحت رقم ٣٤/٢٩/١١.٢٠١١

د. ليم واي استشارات الهندسة
إدارة الجودة والبيئة والسلامة
من ٢٠١١ إلى ٢٠٢٢

ABSORPTION AND SPECIFIC GRAVITY FOR COARSE AGGREGATE

ASTM C 127 - AASHTO T 85 - BS :812 part 107

PROJECT: Electric Express Train

DATE: 07/11/2022

General Consultant :- SYSTRA

Consultant :- SPECTRUM

CONTRACTOR: شركة ليم واي

Material / Source of Soil :- Agg. Crushed Stone. (3.0")

LAB. REF. Q.C. 1716/3

TRIAL NO	1	2	AVERAGE
A. WEIGHT OF Oven Dry TEST SAMPLE IN AIR (g)	5003.0	5002.0	5002.5
B. WEIGHT OF S.S.D. TEST SAMPLE IN AIR. (g)	5054.0	5053.0	5053.5
C. WEIGHT OF S. TEST SAMPLE IN WATER. (g)	3071.0	3071.0	3071.0
D. ABSORPTION = (B - A)	51.0	51.0	51.0
E. ABSORPTION % = $[(B - A)/A] \times 100$	1.02	1.02	1.02
F. SPECIFIC GRAVITY:			
a) Bulk sp. Gr. , Oven Dry $(A / (B - C))$	2.52	2.52	2.52
b) Bulk, Sat. Surface Dry $(A / (B - C))$	2.55	2.55	2.55
c) Apparent sp. Gr. $(A / (A - C))$	2.59	2.59	2.59

Tested By : Mostfa

Checked By : Eng. Eman E. Kandil



Eman

الإدارة: 40 سفية زغلول - الإسكندرية - مصر

ت. ٤٨٧٠٩٧٢ - ف. ٤٨٧٠٩٧٢ - ٤٨٧٠٩٧٢

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القطاع: 49 طريق الحرية - الإسكندرية - مصر

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COMIBASSAL International Controllers

الجمعية التعاونية لأعمال الإشراف والمراجعة الدولية (كوميباسال)

حاصلة على شهادة الأيزو 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

Report No: 1716 - 4 - center

Date: 23/11/2022

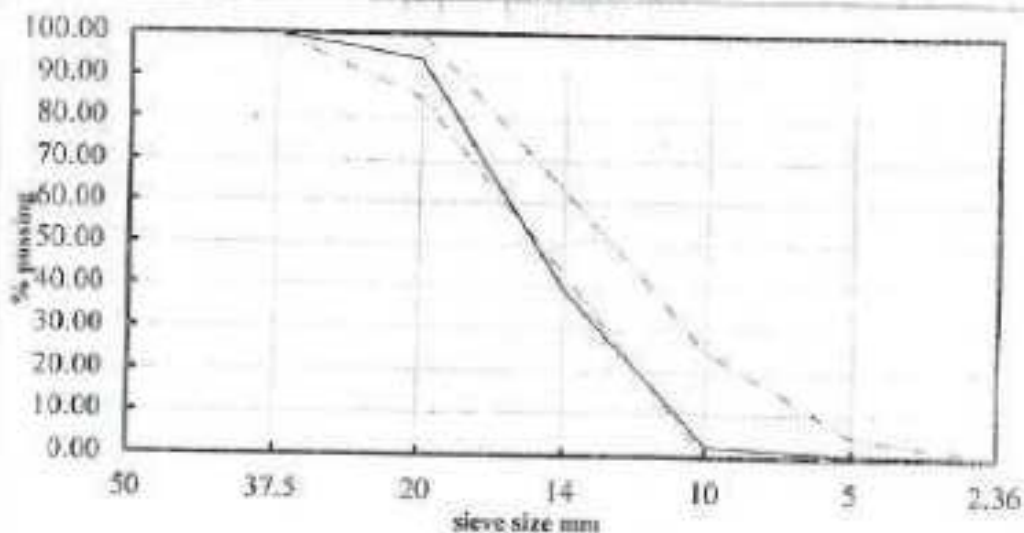
قطاع التفتيش الداخلي والمعامل

معتد لدى الهيئة المصرية العامة للبترو
تحت رقم ٢٩ / ١١ - ٢٠١١

SIEVE ANALYSIS FOR COARSE AGGREGATE

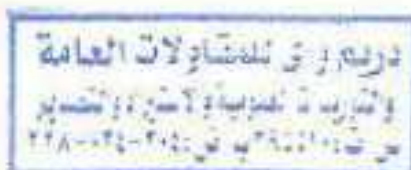
General consultant	:	SYSTRA
Consultant	:	SPECTRUM
Contractor	:	شركة دريم واى
Project	:	Electric express train
Test method	:	BS 882 Table 4. 20 mm
Sample	:	COARSE AGGREGATE (Agg 1.6)
Date of Test	:	7/11/2022

Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	100	94	39	3	1	0

Civil. Eng Department



Eng: Eman, E. Kandil





COMIBASSAL International Controllers

الجمعية التعاونية لأعمال الوزن والمراجعة والخبرة الدولية لكونترول

حاصلة على شهادة الأيزو ISO 9001:2008

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

بموجب لدى الهيئة المصرية العامة للترول
تحت رقم ٢٠١١/١١٠٢٩/٢٤

Report no : 1716 / 5 / center
Date : 23 / 11 / 2022

ABRASION AND IMPACT " LOS ANGELES " TEST

(For small size coarse aggregate)

ASTM- C 131-96 / AASHTO-T-96

General consultant :

SYSTRA

Consultan :

SPECTRUM

Contractor :

شركة دريم واى

Project :

Electric express train

Sample :

COARSE AGGREGATE (Agg 1.5)

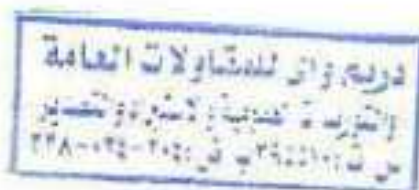
Date of Test :

07/11/2022

Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intital Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3440
% Wear By Weight Passing on Sieve No.12	31.2%

Civil Eng. Depart.



Eman
Eng: Eman E. Kandil





COMIBASSAL International Controllers

الجمعية الدولية للتحكم في الجودة لأعمال الإشراف والمراجعة والمختبرات الدولية (كوميباسال)

حاصلة على شهادة الأيزو 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

Report No: 1716 - 6 - center

Date: 23/11/2022

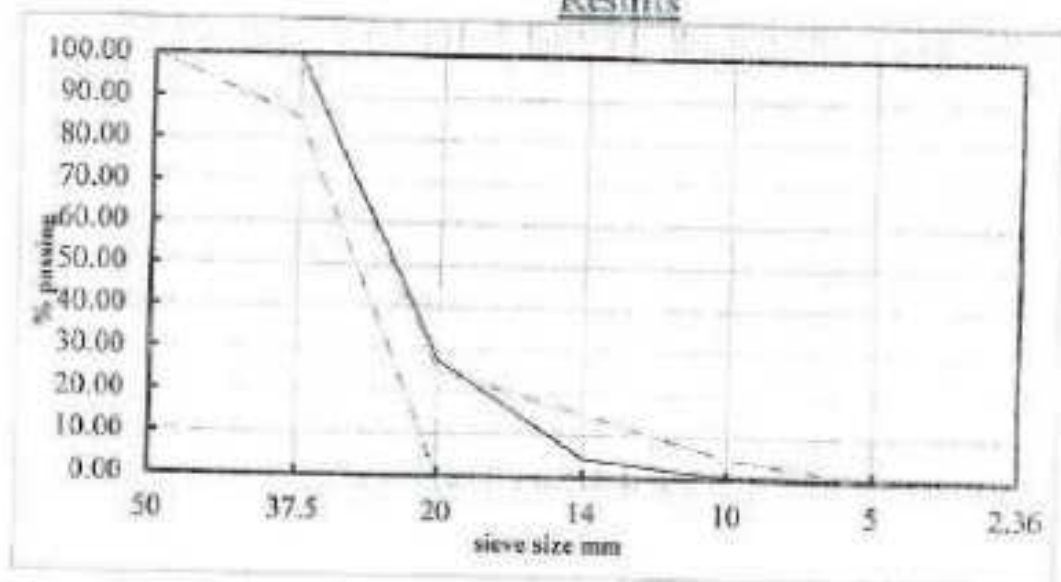
قطاع التفتيش الداخلي والمعامل

متمم لدى الهيئة المصرية العامة للتبترول
تحت رقم ٢٠١١/١١-٢٩/٢٤

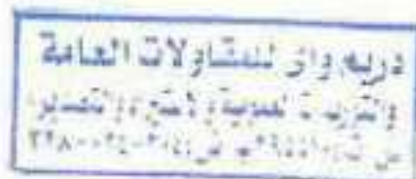
SIEVE ANALYSIS FOR COARSE AGGREGATE

General consultant : SYSTRA
Consultant : SPECTRUM
Contractor : شركة مريم واى
Project : Electric express train
Test method : BS 882 Table 4. 40 mm
Sample : COARSE AGGREGATE (Agg 2)
Date of Test : 7/11/2022

Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	100	27	5	1	0	0



Civil Eng Department

Eng. Eman, E. Kandil





COMIBASSAL International Controllers

الجمعية التعاونية للاتحادية لأعمال الوزن والمراجعة والكفاءة الدولية (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2008

Accredited by:
Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للبترول
تحت رقم ٣٠١١/١١٠٢٩/٢٤

Report no.: 1716 / 7 / center
Date: 23 / 11 / 2022

ABRASION AND IMPACT " LOS ANGELES " TEST

(For small size coarse aggregate)

ASTM- C 131-96 / AASHTO-T-96

General consultant:

SYSTRA

Consultant :

SPECTRUM

Contractor :

شركة دريم واى

Project :

Electric express train

Sample :

COARSE AGGREGATE (Agg 2)

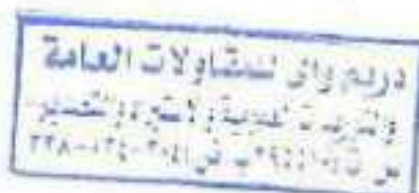
Date of Test :

07/11/2022

Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intital Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3620
% Wear By Weight Passing on Sieve No.12	27.6%

Civil Eng. Depart.



Eng: Eman E. Kanhal



الإدارة: 40 ش. مطية زغلول - الإسكندرية - ب 139

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القطاع: خلف 19 طريق الحرية - الإسكندرية - مصر

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COMIBASSAL International Controllers

الجمعية التعاونية للمعايير الدولية (كوميباسال)

حاصلة على شهادة الأيزو 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

Report No: 1716 - 8 - center
Date: 23/11/2023

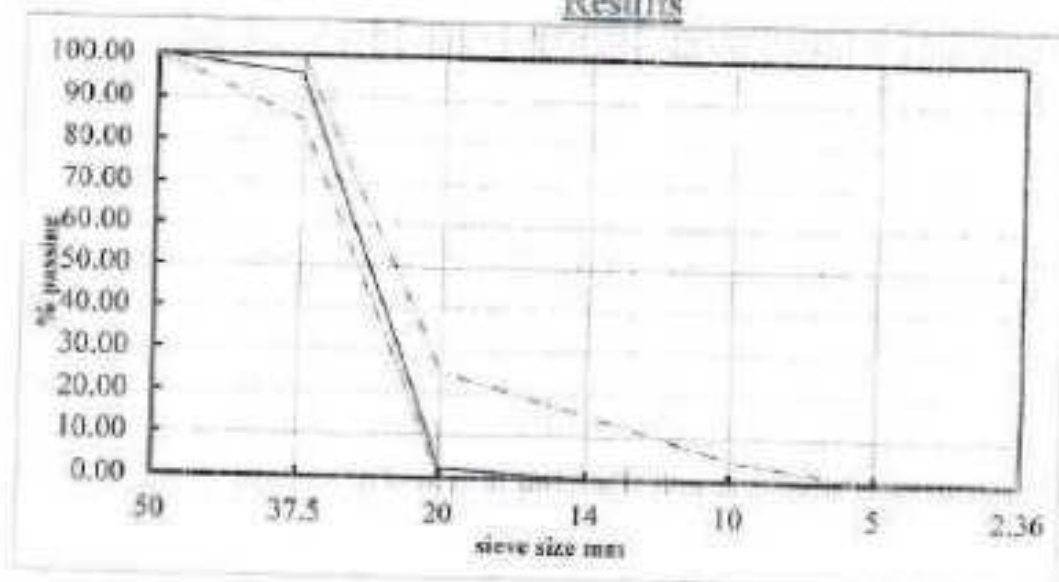
قطاع التفتيش الداخلي والمعامل

ممتد لدى الهيئة المصرية العامة للبترول
تحت رقم ٢٩ / ١١ / ٢٠١١

SIEVE ANALYSIS FOR COARSE AGGREGATE

General consultant : SYSTRA
Consultant : SPECTRUM
Contractor : شركة دريم واى
Project : Electric express train
Test method : BS 882 Table 4. 40 mm
Sample : COARSE AGGREGATE (Agg 3)
Date of Test : 7/11/2022

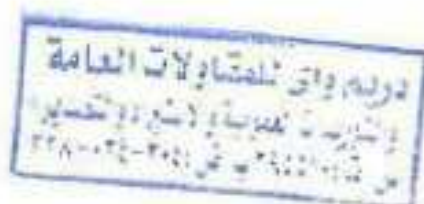
Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	96	2	0	0	0	0

Civil, Eng Department

Eman
Eng: Eman, E. Kandil





COMIBASSAL International Controllers

الجمعية التعاونية لأعمال الوزن والمراجعة والخبرة الدولية (كوميباسال)

ISO 9001:2008 حاصلة على شهادة الأيزو

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

بمكتب لدى الهيئة المصرية العامة للبترول
تحت رقم ٢٠١١/١١٠٢٩/٢٤

Report no : 1716 / 9 / center
Date : 23 / 11 / 2022

ABRASION AND IMPACT " LOS ANGELES " TEST

(For small size coarse aggregate)

ASTM- C 131-96 / AASHTO-T-96

General consultant:

SYSTRA

Consultant :

SPECTRUM

Contractor :

شركة لريم واى

Project :

Electric express train

Sample :

COARSE AGGREGATE (Agg 3)

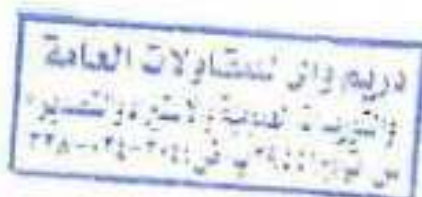
Date of Test :

07/11/2022

Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intital Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3690
% Wear By Weight Passing on Sieve No.12	26.2%

Civil Eng. Depart.



الإدارة: ٤٠ ش. صفيية زغلول - الإسكندرية - مصر

ت. ٤٨٧-٥٢٢ - فاكس: ٤٨٧٩٣٩٨ - ٤٨٧-٩٦٥

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Tel: 4870573 - Fax + Tel : 4869798 - 4870665



القطاع: بجانب ٩٩ طريق الحرية - الإسكندرية - مصر
ت. ٣٩٠٠١٣٩ - ٣٩٩١٤٨٢ - ٣٩٠٠١٣٩

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Tel: 3920176 - 3931482 - Fax: 3900476
E-mail: Internal - inspection@comibassal.com

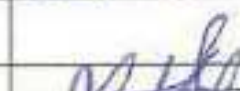
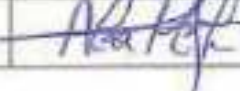
Contractor Company	Dream Way for construction		Designer Company	SPECTRUM									
Issued by Contractor	Name	Sign	Date/Serial Number	Time									
	Eng. ElSaeed Mohamed		26/10/2022 (SS-B-DW) (P.L.T.01)	10:00 AM									
Received by G&B CONSULTANT	Eng. Mazen Esamy		MS	1	2	3	4	5	6	7	8	9	10

CIVIL	SS to S23	DL to S3	By XXX Note
PAGE 3	Station Reference	Depot Reference	For Kilometer point only Start Km is used
	Work Activity		
	Sub Element of Activity		

Description of Materials	FILTER			
Location to be Used	REV 29	388+500	TO	389+000
	REV 35	388+683.86	TO	389+183.86
Supplier Name	محاجر السيوي - العتيق			
Test Requirement	P.L.T (DIN 18134)	Specification	PART H WORKING OPERATIONS & TESTING REPORT (CS21-4L2) VERSION 2 BY CIVEION GROUP	
Reference Photos	No/Yes	Other	(SS-B-DW-IR F(01)), (SS-B-DW-IR F(02)), (SS-B-DW-IR F(03)), (SS-B-DW-IR F(04)), (SS-B-DW-IR F(05)), (SS-B-DW-IR F(06)), (SS-B-DW-IR F(10))	

Item	Description	Unit	Quantity	Arrival Date	Note
1	PLATE LOAD TEST	NUMBER	5	29/10/2022	
2					
3					
4					

Comments by: Eng. Mazen Esamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allah (BR)
1-The Plate Load Test Results of (DIN 18134) is Approved.	1-P.L.T was carried out by third party lab (CEL). 2-Results report attached and acceptable with project specifications.

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. ElSaeed Mohamed		29/10/2022	A
QA/QC *	Eng. Mazen Esamy			A
G&B**	Eng. Margret Magdy			
Employers Representative	Eng. Alaa Abd-Allah			A

* Designer

** Alignment/Bridges Civils only



Electrical Express Train From Bang Alorab
to Alamein
From Station 388+000 To Station 389+000



Serial No.
PLT
(1)



مكتب أ.م. عبد الله



Date
27/10/2022

Material Inspection Request

We request your attendance to inspect the following works :

Discipline :	☐ Material submittal	☐ FIELD COMBUSTION TEST	☒ PLATE LOAD TEST
Location :	Zone Dream way	From Station 388+500	To Station 389+000
References	Specification: EET L1.1. Earthworks Specifications and Testing Report		

Purpose of the inspection

1. Earthworks

- | | |
|--|--|
| ☐ Natural Sub Grade | ☐ Sub Base |
| ☐ Upper Embankment | ☐ Surface |
| ☐ 1.5' H Embankment | ☒ FILTER LAYER |

Attachments

1- Plate load test Report

2-

3-

4-

Works To be Inspected

Plate load test by consulting Engineering Bureau & Laboratories

Submitted by: Dream way

Signature:

Date of Inspection: 1/11

GARP Consultant Engineer's Comments :

The plate load test result by third party is acceptable

The works are :

☒ Approved (A)

☐ Approved as noted (B)

☐ Revised Specification (C)

☐ Rejected (D)

Name: Mazen Gamy

Signature:

Date: 1/11

General Consultant's Comments:

- (1) 5 points of PLT was carried out by (CEL) on filter layer
- (2) Result attached and found acceptable and completely as specs
- (3) final approval is subject to above mentioned comments

The works are :

☒ Approved (A)

☐ Approved as noted (B)

☐ Revised Specification (C)

☐ Rejected (D)

Name: Abu Abdellatif

Signature:

Date: 30/10/22

GARP Engineer's Comments:

Name:

Signature:

General Consultant Eng.

GARP Eng.



الهيئة العامة للطرق والنقل

Serial No.
18-F(01)مكتب (إدارة) جدة
Electrical Supply Trunk from Bus Stand to Alameda
From Station 388+00 To Station 388+00Date
1/10/2023

Works Inspection Request

We request your attendance to inspect the following works:

Discipline:	☐ Driveway/Pavement	☐ Drainage	☐ Bridge	☐ Sewer
Location:	From	From Station	To Station	Level
	Driveway	388+520	388+720	0.70 متر
Reference	Drawing: ECR-0000 EL. ROAD NEW 2018 Profile Specifications SRTA & Sanitation specifications and testing results.			

Purpose of the inspection

- Service:
- ☐ Sewer
 - ☐ Road
 - ☐ Water

Attachments

1- Master sheet for cut for RVP20

2- daylight coordinates

3- Submittal sheets

4- PLAN

Works To Be Inspected

AS BUILT FOR FILTER LAYER FROM STATION 388+520 TO 388+720

Submitted by: Dr. Hany

Signature:

Serving Consultant Engineer's Comments:

Date of inspection: 1 / 1

The works are:

☐ Approved (S)☐ Approved as noted (S)☐ Rejected (S)☐ Rejected (S)

Name: Mohamed Munsav

Signature:

Serving Consultant Engineer's Comments:

Date of inspection: 1 / 1

The works are:

☐ Approved (S)☐ Approved as noted (S)☐ Rejected (S)☐ Rejected (S)

Name: Hazen Gorny

Signature:

General Consultant's Comments:

Date: 1 / 1

The works are:

☐ Approved (S)☐ Approved as noted (S)☐ Rejected (S)☐ Rejected (S)

Name:

Signature:

QA/QC Engineer's Comments:

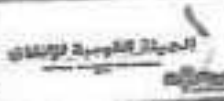
Date: 1 / 1

Name:

Signature:

SRTA Eng.





Serial No.
10-2(02)

ملكية (أرض عامة)
Receivable/Export from King Abdulaziz Al-Sayid
From Station 388+00 to Station 388+00



Date
16/10/2022

Works Inspection Request

We request your attendance to inspect the following works:

Discipline:	☐ Drainage/Storm	☐ Bridge	☐ Tunnel	☐ Sewer
Location:	Zone	From Station	To Station	Remarks
	Expressway	388+720	388+820	مستوية من قبل 6.70
Reference:	Drawing: 021-0000 SL 0000 001 30 Plus Profile			
Purpose of the inspection:	Specifications I.C.I.L. and works specifications and testing method.			

Purpose of the inspection:	☒ Surveying ☐ Sampling ☐ Tests ☐ Materials
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Attachment:	1- master sheet for cut for REMED	2-daylight coordinates
	3- As-built levels	4- RUM
Works to be inspected	AS BUILT FILTER LAYER FROM STATION 388+720 TO 388+820	

Submitted by:	Drawn by	Signature:
		Date of Inspection: 1 / 1

Executive Consultant Engineer's Comments:

The works are:	☐ Approved	☐ Approved with (R)	☐ Approved with (S)	☐
Name:	Mohamed Mansour	Signature:		
Executive Consultant Engineer's Comments:		Date of Inspection:	1 / 1	

The works are:	☐	☐	☐	☐
Name:	Mazen Erany	Signature:		
Executive Consultant Engineer's Comments:		Date:	1 / 1	

The works are:	☐	☐	☐	☐
Name:		Signature:		
Executive Consultant Engineer's Comments:		Date:	1 / 1	

Name:		Signature:	
		SARF Eng.	





الهيئة العامة للطرق والمواصلات

Serial No.

10-2(03)

الهيئة العامة للطرق والمواصلات
General Directorate of Transport and Public Works
From Station 388-020 to Station 389-000



Date
11/10/2022

Works Inspection Request

We request your attendance to inspect the following works:

Discipline:	☐ Highway	☐ Water	☐ Canal	☐ Tunnel
Location:	Area	From Station	To Station	Length
	General	388+020	389+000	0.78 Km
Reference	Drawing: 107-0000 EL. ASSE. REV. 20 Plan Profile			

Purpose of the inspection

☒ Surveying

☐ Design

☐ Test

☐ Material

Attachments:

1- as-built plan for the works

2- as-built cross-section

3- As-built levels

4- PLAN

Works to be inspected

AS BUILT FILTER LATCH FROM STATION 388+020 TO 389+000

Submitted by:

Design

Signature:

Date of inspection:

Supervisor: Mohamed Karam
General Consultant's Committee

The works are:

☐ As-built (A)

☐ As-built (B)

☐ As-built (C)

Signature:

Date of inspection:

Name: Mohamed Karam
General Consultant's Committee

The works are:

☐

☐

☐

Signature:

Date:

Name: Mazen Gham
General Consultant's Committee

The works are:

☐

☐

☐

Signature:

Date:

Name: Mazen Gham
General Consultant's Committee

Name:

Signature:

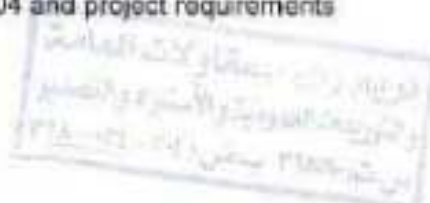
General Consultant's Committee



Scanned with CamScanner

Company : شركة دريم واى

Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (6)
- Alamein to Foka
Subject : Determine the deformation and strength characteristics of soil by the plate loading test according specifications DIN 18134:2012-04 and project requirements
Test Location: Station 388+500 to 389+000.
Test Date : 27/10/2022
Report Date : 29/10/2022
Type of soil : Fill Filter (Mix of Size 1, 2, 3)
Report No. : 03:07



Dear Gentleman,

According to the above mentioned subject the test performed as follows:-

Apparatus

1. Loading plates consists of two plates with 600 mm and 300 mm diameter
2. The thickness of plates 30 mm
3. Dial gauges with accuracy 0.01 mm to measuring the settlement
4. Steel straightedges with magnetic supports to fixed the dial gauges
5. Hydraulic jack with pump to transfer reactive loads to the loading plates
6. Dial indicator measuring device with scale capacity 700 Bar (Enerbac)
7. Reaction loading system by roller compactor with weight approximately 15 ton
8. Calibration certificates are attached

Test Procedure

1. Clean the ground on test area to the required level with undisturbed soil
2. Install loading plates 600 mm and 300 mm diameter, hydraulic jack and 3 dial gauges
3. Prior to starting the test applied preloading about 30 seconds.
4. The strain gauge and the dial gauge shall be set to zero
5. For a 600 mm loading plate, the limit values are 2.5 kg/cm²
6. The load shall be applied in six stages, in approximately equal increments, until the required maximum normal stress is reached.
7. Each change in load (from stage to stage) shall be completed within one minute
8. The load shall be released in 3 stages, to 50 % , 25 % , and approximately 2 % of the maximum load.
9. Following unloading, a further (2nd) loading cycle shall be carried out, in which, however, the load is to be increased only to the penultimate stage of the first cycle (so that the full load is not reached).
10. At each stage the load shall be maintained until the rate of settlement of the plate becomes less than 0.02 mm/min.
11. Remove the loads

Report



1. Evaluation and representation of results
2. Load Settlement curve
3. The test report content the following:-
 - location of test site - Dimension of loading plate
 - Measuring device used - Type of soil
 - Type of Bedding material below the plate -Weathering condition
 - Time and date of measurements - Unusual observation made during test
 - Dial gauge reading and corresponding normal stress - Loading-settlement curve
 - Description of the soil condition below the plate after testing



Report

- Type of Soil : Fill Filter (Mix of Size 1,2,3)
- Job Requirement : $E_{v2} > 300 \text{ Kg/cm}^2$ (30 MPa).

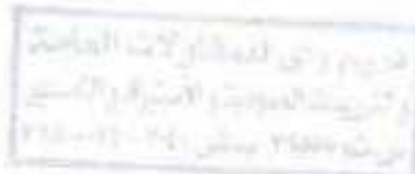
Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Sunny
- Plate Diameter (mm)	600
- date of measurement	27/10/2022
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

Evaluation and representation of results

Test No.	Station		First Cycle	Second Cycle	E_{v2} / E_{v1} Ratio	Remarks
	From	To	$E_{v1} (\text{kg/cm}^2)$	$E_{v2} (\text{kg/cm}^2)$		
1	388+500	388+600	333	1500	4.5	---
2	388+600	388+700	409	1800	4.4	---
3	388+700	388+800	375	1500	4.0	---
4	388+800	388+900	237	1286	5.4	---
5	388+900	389+00	391	1800	4.6	---

Signature /





Company Name : شركة تريم واي
Project : Electric Express Train, from Al Ain Sekhea to Marsa Matrouh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+500 to 388+600
Test No. : 01

Nonrepetitive Static Plate Load Tests of Soils DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.50	0.50	19.67	0.33	19.78	0.22	0.35
2	0.83	19.10	0.90	19.38	0.62	19.50	0.50	0.67
3	1.25	18.70	1.30	19.00	1.00	19.10	0.90	1.07
4	1.67	17.58	2.41	18.40	1.60	18.40	1.60	1.87
5	2.08	17.17	2.83	18.10	1.90	17.90	2.10	2.28
6	2.50	16.85	3.15	17.80	2.20	17.28	2.72	2.69

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	16.85	3.15	17.80	2.20	17.28	2.72	2.69
2	1.25	16.88	3.12	17.85	2.15	17.32	2.68	2.65
3	0.625	16.98	3.02	17.95	2.05	17.52	2.48	2.52
4	0.01	17.25	2.75	18.20	1.80	17.55	2.05	2.20

Loading Stage (2)

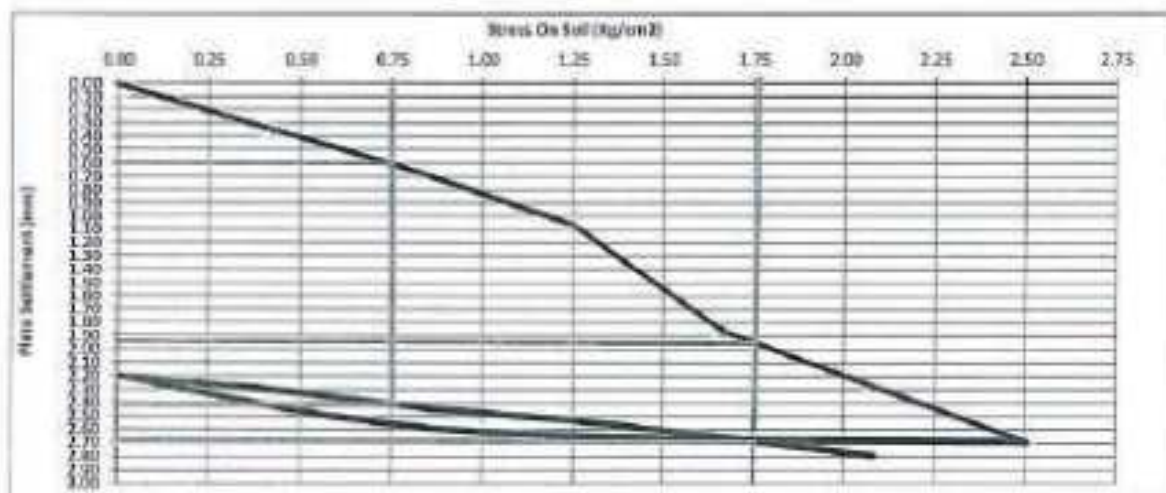
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.17	2.83	18.10	1.90	17.82	2.18	2.30
1	0.83	17.08	2.92	17.97	2.03	17.64	2.36	2.44
2	1.25	17.00	3.00	17.90	2.10	17.50	2.50	2.53
3	1.67	16.90	3.10	17.80	2.20	17.32	2.68	2.66
4	2.08	16.80	3.20	17.67	2.33	17.15	2.85	2.79
5	0.00	0.00	0.00	0.00	0.00	0.00		#REF!

Signature



Company Name : شركة فريم وان
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matruh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+500 to 388+600
Test No. : 01

**Nonrepetitive Static Plate Load Tests of Soils
DIN 18134**



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5876.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.35	0.67	1.07	1.67	2.28	2.60

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	2.60	2.65	2.52	2.20

D (mm) =	600	S1 (mm) =	0.60	S2 (mm) =	1.35	ΔS =	1.35
Ev1 (kg/cm²) =	$(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$						
	333						

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5876.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.20	2.30	2.44	2.53	2.66	2.79

Ev2/Ev1 = 0.5

D (mm) =	600	S1 (mm) =	2.49	S2 (mm) =	2.79	ΔS =	0.30
Ev2 (kg/cm²) =	$(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$						
	1600						

Ev1 = Modulus of deformation during the loading stage.

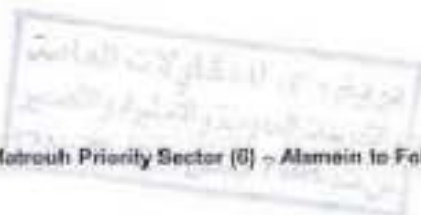
Ev2 = Modulus of deformation during the Releasing stage.

D = Plate diameter (mm)

ΔS = The difference between S2 and S1 from the maximum loading (σmax) (kg/cm²)

ΔS = Difference in settlements corresponding to S2 and S1 from the maximum loading (mm)





Company Name : شركة دريم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+600 to 388+700
Test No. : 02

Nonrepetitive Static Plate Load Tests of Soils

DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.70	0.30	19.65	0.35	19.75	0.25	0.30
2	0.83	19.45	0.55	19.14	0.86	19.35	0.65	0.69
3	1.25	19.03	0.97	18.50	1.50	18.74	1.26	1.24
4	1.67	18.70	1.30	18.05	1.95	18.25	1.75	1.67
5	2.08	18.44	1.56	17.69	2.31	17.90	2.10	1.99
6	2.50	18.20	1.80	17.38	2.62	17.56	2.44	2.29

Unloading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	18.20	1.80	17.38	2.62	17.56	2.44	2.29
2	1.25	18.28	1.72	17.50	2.50	17.62	2.38	2.20
3	0.625	18.42	1.58	17.64	2.36	17.74	2.26	2.07
4	0.01	18.75	1.25	18.00	2.00	18.10	1.90	1.72

Loading Stage (2)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	18.62	1.38	17.85	2.15	17.95	2.05	1.86
1	0.83	18.50	1.50	17.70	2.30	17.88	2.17	1.99
2	1.25	18.40	1.60	17.60	2.40	17.74	2.26	2.09
3	1.67	18.30	1.70	17.48	2.52	17.68	2.37	2.20
4	2.08	18.20	1.80	17.40	2.60	17.54	2.46	2.29
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(REF)

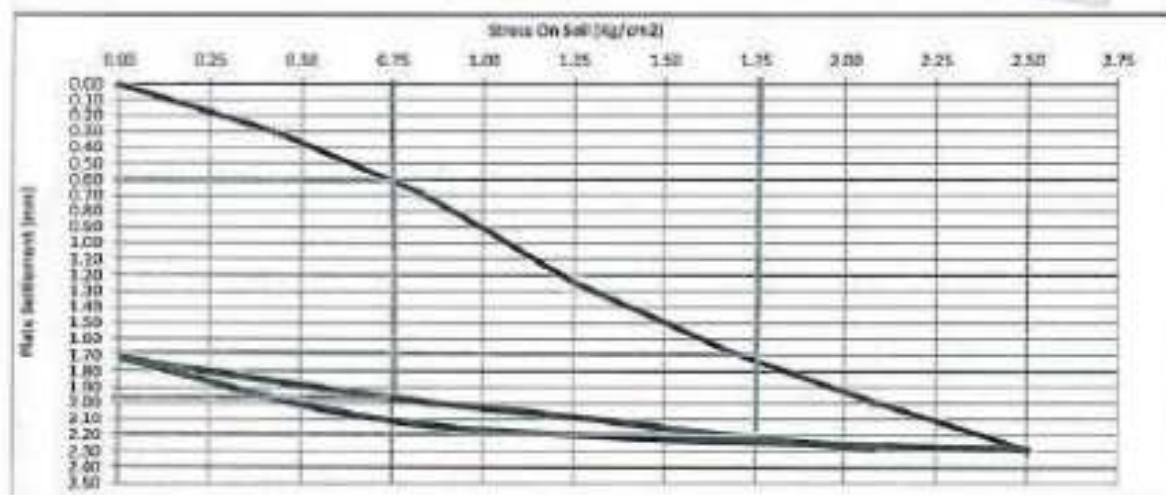
Signature

[Signature]
مكتب معامل الاستشارات الهندسية
الاستشارات الهندسية
315 - 591 - 537
27/10/2022



Company Name : شركة مريم وان
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+600 to 388+700
Test No. : 02

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.30	0.69	1.24	1.67	1.99	2.29

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.825	0.01
Settlement (mm)	2.29	2.20	2.07	1.72

D (mm) = 600	S1 (mm) = 0.60	S2 (mm) = 1.70	ΔS = 1.10
Ev1 (kg/cm²) = (0.75 * D * Δσ) / ΔS	408		

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	1.72	1.86	1.99	2.09	2.20	2.29

Ev2/Ev1 = 4.4

D (mm) = 600	S1 (mm) = 1.99	S2 (mm) = 2.20	ΔS = 0.25
Ev2 (kg/cm²) = (0.75 * D * Δσ) / ΔS	1800		

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δσ = The Difference between 0.3 and 0.7 from the maximum loading (σmax) (kg/cm²)

ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

Signature : 
الاستشاري
219-991-5371
219-991-5371





Company Name : شركة نريم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+700 to 388+800
Test No. : 03

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.73	0.27	19.65	0.35	19.74	0.26	0.29
2	0.83	19.25	0.75	19.30	0.70	19.40	0.60	0.68
3	1.25	18.60	1.40	18.80	1.20	19.00	1.00	1.20
4	1.67	17.95	2.05	18.30	1.70	18.64	1.36	1.70
5	2.08	17.45	2.55	17.95	2.05	18.35	1.65	2.08
6	2.50	16.90	3.10	17.50	2.50	18.05	1.95	2.52

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	16.90	3.10	17.50	2.50	18.05	1.95	2.52
2	1.25	16.97	3.03	17.57	2.43	18.09	1.91	2.48
3	0.625	17.10	2.90	17.70	2.30	18.14	1.86	2.35
4	0.01	17.50	2.50	18.10	1.90	18.38	1.62	2.01

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.35	2.65	17.92	2.08	18.30	1.70	2.14
1	0.83	17.20	2.80	17.79	2.21	18.20	1.80	2.27
2	1.25	17.05	2.95	17.67	2.33	18.10	1.90	2.39
3	1.67	16.92	3.08	17.57	2.43	18.00	2.00	2.50
4	2.08	16.78	3.22	17.48	2.52	17.92	2.08	2.61
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

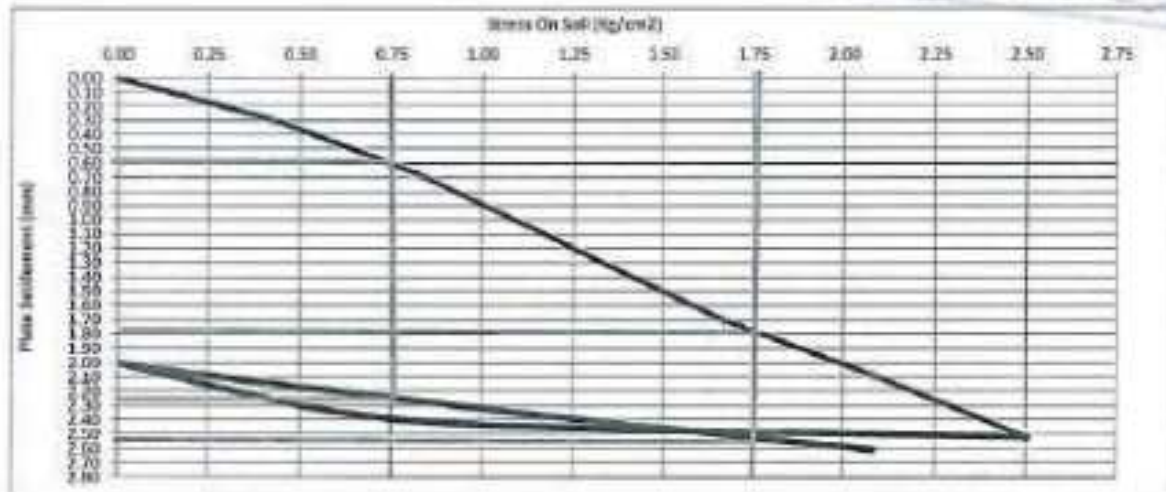
Signature

مكتب معامل الاستشارات الهندسية
213-571-572
213-571-572



Company Name : شركة دريم واي
Project : Electric Express Train, from Al Ain Solihna to Marsa Matruh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+700 to 388+800
Test No. : 03

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.02	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.29	0.68	1.20	1.70	2.08	2.52

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	2.52	2.46	2.35	2.01

D (mm) =	600	B1 (mm) =	0.60	B2 (mm) =	1.33	ΔS =	1.20
Ev1 (kg/cm²) =	$(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$						375

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.02	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.01	2.14	2.27	2.39	2.50	2.61

$Ev2/Ev1 = 4.0$

D (mm) =	600	B1 (mm) =	2.25	B2 (mm) =	2.55	ΔS =	0.30
Ev2 (kg/cm²) =	$(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$						1500

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δs = The difference between 0.3 and 0.7 from the maximum loading (smax) (kg/cm²)

ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)





Company Name : شركة نديم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (G) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+800 to 388+900
Test No. : 04

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.64	0.36	19.70	0.30	19.78	0.22	0.29
2	0.83	19.05	0.95	19.22	0.78	19.33	0.67	0.80
3	1.25	18.10	1.90	18.40	1.60	18.70	1.30	1.60
4	1.67	17.12	2.88	17.48	2.52	17.80	2.20	2.53
5	2.08	16.70	3.30	17.10	2.90	17.40	2.60	2.93
6	2.50	16.08	3.92	16.52	3.48	16.90	3.10	3.50

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	16.08	3.92	16.52	3.48	16.90	3.10	3.50
2	1.25	16.15	3.85	16.60	3.40	16.95	3.05	3.43
3	0.825	16.35	3.65	16.73	3.27	17.05	2.95	3.29
4	0.01	16.76	3.24	17.05	2.95	17.30	2.70	2.96

Loading Stage (2)

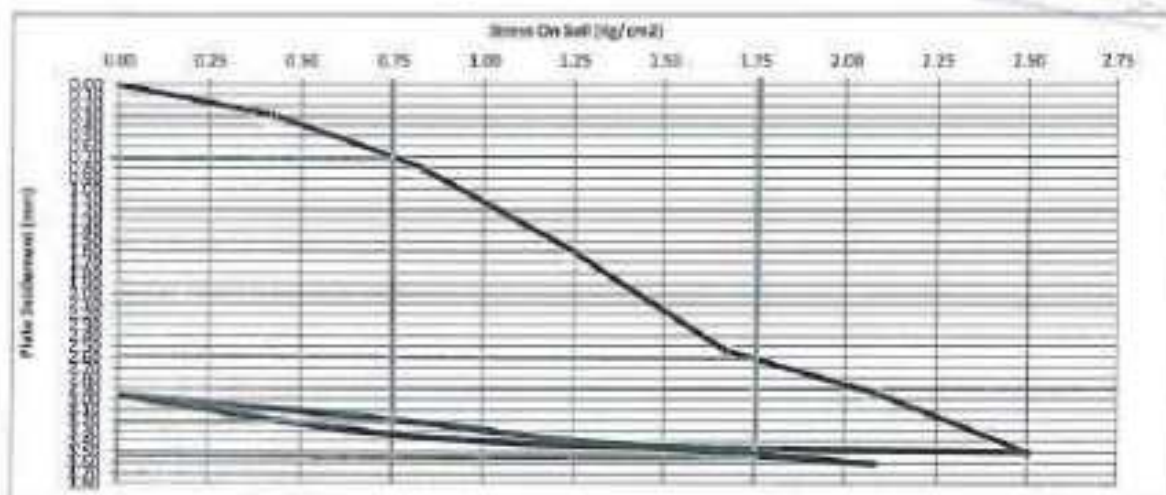
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	16.60	3.40	16.93	3.07	17.20	2.80	3.09
1	0.83	16.43	3.57	16.80	3.20	17.09	2.91	3.23
2	1.25	16.25	3.75	16.65	3.35	16.92	3.08	3.39
3	1.67	16.10	3.90	16.55	3.45	16.84	3.16	3.50
4	2.08	16.00	4.00	16.44	3.56	16.73	3.27	3.81
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature \



Company Name : شركة دريم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+800 to 388+900
Test No. : 04

Nonrepetitive Static Plate Load Tests of Soils DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.29	0.80	1.60	2.53	2.93	3.50

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	3.50	3.43	3.29	2.06

D (mm) = 500	S1 (mm) = 0.70	S2 (mm) = 2.60	ΔS = 1.90
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta e) / \Delta S$	237		

$$Ev2/Ev1 = 5.4$$

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.96	3.09	3.23	3.39	3.50	3.61

D (mm) = 600	S1 (mm) = 3.29	S2 (mm) = 3.86	ΔS = 0.55
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta e) / \Delta S$	1286		



Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Reloading stage.
D = Plate diameter (mm)
Δs = The difference between S2 and S1 from the maximum loading (smax) (kg/cm²)
ΔS = Difference in settlements corresponding to S2 and S1 from the maximum loading (mm)



Company Name : شركة دريم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (5) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+900 to 389+00
Test No. : 05

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.70	0.30	18.80	1.20	19.78	0.22	0.57
2	0.83	19.20	0.80	18.30	0.70	19.33	0.67	0.72
3	1.25	18.80	1.20	18.03	0.97	18.70	1.30	1.16
4	1.67	18.40	1.60	18.64	1.36	17.80	2.20	1.72
5	2.08	18.00	2.00	17.90	2.10	17.40	2.60	2.23
6	2.50	17.60	2.40	18.00	2.00	16.90	3.10	2.50

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	17.60	2.40	18.00	2.00	16.90	3.10	2.50
2	1.25	17.70	2.30	18.17	1.83	16.95	3.05	2.39
3	0.625	17.85	2.15	18.40	1.60	17.05	2.95	2.23
4	0.01	18.20	1.80	18.30	1.70	17.30	2.70	2.07

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	18.10	1.90	18.20	1.80	17.20	2.80	2.17
1	0.83	17.97	2.03	18.08	1.92	17.09	2.91	2.29
2	1.25	17.84	2.16	18.00	2.00	16.92	3.08	2.41
3	1.67	17.70	2.30	17.88	2.12	16.84	3.16	2.53
4	2.08	17.60	2.40	17.77	2.23	16.73	3.27	2.63
5	0.00	6.00	0.00	6.00	0.00	0.00	0.00	#REF!

Signature \

مكتب معامل الاستشارات الهندسية
310-301-337
310-301-337



Company Name :

شركة فريم واي :

Project :

Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) - Alamein to Foka

Test Date :

27/10/2022

report date :

29/10/2022

Location :

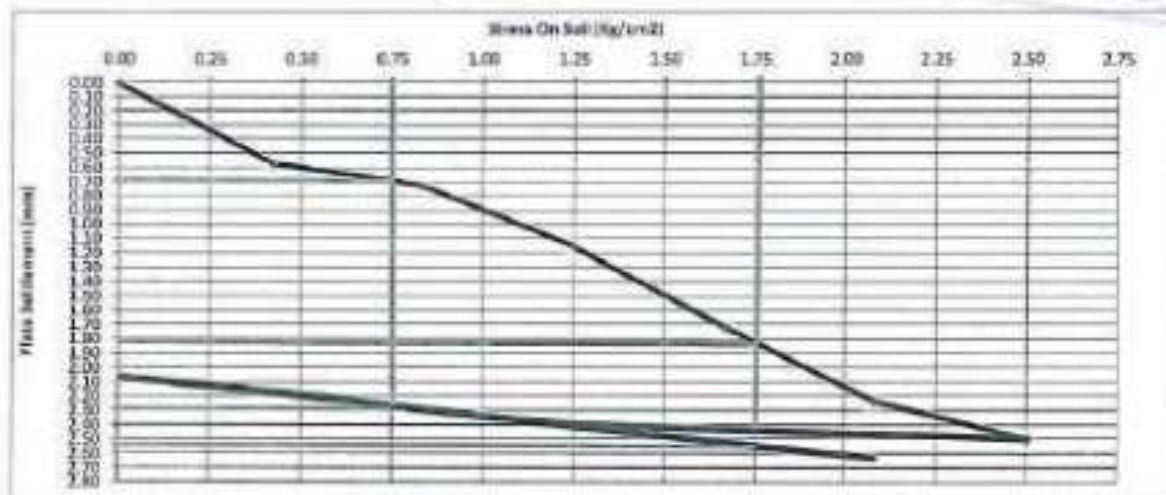
Station 388+900 to 389+00

Test No. :

05

Nonrepetitive Static Plate Load Tests of Soils

DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.57	0.72	1.10	1.72	2.23	2.50

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	2.50	2.39	2.23	2.07

D (mm) =	600	S1 (mm) =	0.70	S2 (mm) =	1.43	ΔS =	1.15
Ev1 (kg/cm²) =	(0.75 * D * Δe) / ΔS						
	391						

$$Ev2/Ev1 = 4.6$$

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.07	2.17	2.29	2.41	2.53	2.63

D (mm) =	600	S1 (mm) =	2.39	S2 (mm) =	2.55	ΔS =	0.25
Ev2 (kg/cm²) =	(0.75 * D * Δe) / ΔS						
	1300						

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δs = The difference between S2 and S1 from the maximum loading (smax) (kg/cm²)

ΔS = Difference in settlements corresponding to S2 and S1 from the maximum loading (mm)

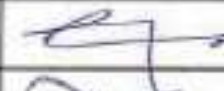


Contractor Company	Dream Way for constructions	Designer Company	SPECTRUM																
Issued by Contractor	Name	Sign	Time																
	Eng. ElSaeed Mohamed		10:00 AM																
Received by GARB CONSULTANT	Eng. Mazen Esamy	Sign	Date/Serial Number																
			6/11/2022 (55-B-DW) (P.L.T.02)																
		NR	<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td>21</td><td>21</td><td>21</td><td>20</td><td>NM</td><td>TV</td><td>HR</td><td>MS</td> </tr> <tr> <td>334</td><td>EW</td><td>CS</td><td>7</td><td>11</td><td>22</td><td>28</td><td>0</td> </tr> </table>	21	21	21	20	NM	TV	HR	MS	334	EW	CS	7	11	22	28	0
21	21	21	20	NM	TV	HR	MS												
334	EW	CS	7	11	22	28	0												

CMT-1	S2 to S23	C8 to S3	Kp 300/1000
Station Reference	Depth Reference	For Kilometer point only Start Km is used	
Work Activity			
Sub Element of Activity			

Description of Materials	FILTER			
Location to be Used	REV 29	388+000	TO	388+500
	REV 35	388+183.86	TO	388+583.86
Supplier Name	محاجر السوي - العلمين			
Test Requirement	P.L.T (DIN 18134)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (0523-A1.2) VERSION 2 BY ONCCO GROUP	
Reference Photos	No/Yes	Other	(55-B-DW-IR F(07)), (55-B-DW-IR F(08)(REV.01)), (55-B-DW-IR F(08)(REV.02)), (55-B-DW-IR F(09))	
Item	Description	Unit	Quantity	Arrival Date
1	PLATE LOAD TEST	NUMBER	5	9/11/2022
2				
3				
4				

Comments by: Eng. Mazen Esamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allah (ER)
 1-The Plate Load Test Result (in DIN 18134) is Approved.	1-P.L.T was carried-out by third party lab (CIL). 2-Results report attached and acceptable with project specifications

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. ElSaeed Mohamed		9/11/2022	A
QA/QC *	Eng. Mazen Esamy			A
GARB**	Eng. Margrit magdy			
Employers Representative	Eng. Alaa Abd-Allah			A

* Designer

** Approved/Signs Subvert only

 Electrical Express Train From Sang Alarab to Alamein From Station 388+000 To Station 389+000	 الهيئة العامة للنقل	Serial No. PLT (2)
  مكتب (د) صناديق	 مكتب (د) صناديق	Date 7/11/2022

Material Inspection Request

We request your attendance to inspect the following works :

Discipline :	☐ Material control	☐ FIELD DENSITY TEST	☒ PLATE LOAD TEST	
Location :	Zone Dream way	From Station 388+000	To Station 388+500	Filter
References	Specification: EET LL.3 Earthworks Specifications and Testing Report			
Purpose of the inspection	1. Earthworks ☐ Natural Sub Grade ☐ Sub Drift ☐ Upper Embankment ☐ Salust ☐ L/H Embankment ☒ FILTER LAYER			
Attachments	1- Plate load test Report 3- 5- 7-			
Works To be Inspected	Plate load test by Consulting Engineering Bureau & Laboratories			

Submitted by:	Dream way	Signature: 
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GARP Consultant Engineer's Comments :

The Plate Load Test result by third party is approval

The works are :	☐ Approved (A)	☐ Approved on Hold (B)	☐ Rejected (C)	☐ Rejected (D)
Name: <u>Mazen Gamy</u>	Signature: 			
General Consultant's Comments:	Date: 11/11/2022			

(1) 5 Points of Plt was carried out by (C.E.L) on filter layer
 (2) Result attached and found acceptable and completely for spec
 (3) final approval is subject to above mentioned comment

The works are :	☐ Approved (A)	☐ Approved on Hold (B)	☐ Rejected (C)	☐ Rejected (D)
Name: <u>Ali Abdellatif</u>	Signature: 			
GARP Engineer's Comments:	Date: 10/11/2022			

Name:	Signature:
General Consultant Eng.	GARP Eng.

Company : شركة دريم واى

Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (6)
- Alamein to Foka

Subject : Determine the deformation and strength characteristics of soil by the plate loading test according specifications DIN 18134-2012-04 and project requirements

Test Location: Station 388+000 to 388+500.

Test Date : 07/11/2022

Report Date : 09/11/2022

Type of soil : Fill Filter (Mix of Size 1, 2, 3) (Aggregate).

Report No. : 08:12



Dear Gentleman,

According to the above mentioned subject the test performed as follows:-

Apparatus

1. Loading plates consists of two plates with 600 mm and 300 mm diameter
2. The thickness of plates 30 mm
3. Dial gauges with accuracy 0.01 mm to measuring the settlement
4. Steel straightedges with magnetic supports to fixed the dial gauges
5. Hydraulic jack with pump to transfer reactive loads to the loading plates
6. Dial indicator measuring device with scale capacity 700 Bar (Enerbac)
7. Reaction loading system by roller compactor with weight approximately 15 kN
8. Calibration certificates are attached

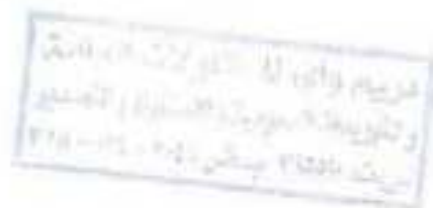
Test Procedure

1. Clean the ground on test area to the required level with undisturbed soil
2. Install loading plates 600 mm and 300 mm diameter, hydraulic jack and 3 dial gauges
3. Prior to starting the test applied preloading about 30 seconds.
4. The strain gauge and the dial gauge shall be set to zero
5. For a 600 mm loading plate, the limit values are 2.5 kg/cm²
6. The load shall be applied in six stages, in approximately equal increments, until the required maximum normal stress is reached.
7. Each change in load (from stage to stage) shall be completed within one minute
8. The load shall be released in 3 stages, to 50 % , 25 % , and approximately 2 % of the maximum load.
9. Following unloading, a further (2nd) loading cycle shall be carried out, in which, however, the load is to be increased only to the penultimate stage of the first cycle (so that the full load is not reached).
10. At each stage the load shall be maintained until the rate of settlement of the plate becomes less than 0.02 mm/min.
11. Remove the loads



Report

1. Evaluation and representation of results
2. Load Settlement curve
3. The test report content the following:-
 - location of test site - Dimension of loading plate
 - Measuring device used - Type of soil
 - Type of Bedding material below the plate -Weathering condition
 - Time and date of measurements - Unusual observation made during test
 - Dial gauge reading and corresponding normal stress - Loading-settlement curve
 - Description of the soil condition below the plate after testing



Report

- Type of Soil : Fill Filter (Mix of Size 1,2,3)
- Job Requirement : $E_{v2} > 300 \text{ Kg/cm}^2$ (30 MPa).

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Sunny
- Plate Diameter (mm)	600
- date of measurement	07/11/2022
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

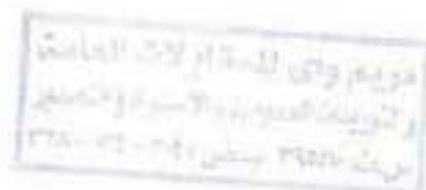
Evaluation and representation of results

Test No	Station		First Cycle	Second Cycle	E_{v2}/E_{v1} Ratio	Remarks
	From	To	$E_{v1} \text{ (kg/cm}^2\text{)}$	$E_{v2} \text{ (kg/cm}^2\text{)}$		
1	388+000	388+100	385	1286	3.3	---
2	388+100	388+200	257	750	2.9	---
3	388+200	388+300	391	900	2.3	---
4	388+300	388+400	346	1286	3.7	---
5	388+400	388+500	429	1406	3.3	---

Signature

مكتب معامل الاستشارات الهندسية
 الاستشارات الهندسية
 رقم الترخيص: 219-521-637
 القاهرة





Company Name : dream Way Co.
 Project : Electric Express Train, from Borg El Arab to Alamein
 Test Date : 07/11/2022
 report date : 09/11/2022
 Location : Station 388+000 to 388+100
 Test No. : 01

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.74	0.26	19.70	0.30	19.69	0.31	0.29
2	0.83	19.40	0.60	19.34	0.66	19.30	0.70	0.65
3	1.25	18.75	1.25	18.53	1.47	19.25	0.75	1.16
4	1.67	18.10	1.90	17.75	2.25	19.20	0.80	1.65
5	2.08	17.65	2.35	17.16	2.84	18.65	1.35	2.18
6	2.50	17.25	2.75	16.65	3.35	17.95	2.05	2.72

Unloading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	17.25	2.75	16.65	3.35	17.95	2.05	2.72
2	1.25	17.30	2.70	16.80	3.20	18.05	1.94	2.61
3	0.825	17.55	2.45	17.00	3.00	18.10	1.90	2.45
4	0.01	17.90	2.10	17.45	2.55	18.48	1.52	2.06

Loading Stage (2)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.87	2.13	17.23	2.77	18.36	1.64	2.18
1	0.83	17.50	2.50	17.10	2.90	18.24	1.76	2.39
2	1.25	17.40	2.60	16.94	3.06	18.02	1.98	2.55
3	1.67	17.21	2.79	16.77	3.23	17.92	2.08	2.70
4	2.08	17.08	2.92	16.59	3.41	17.74	2.26	2.86
5	0.00	0.00	0.00	0.00	0.00	0.00		#REF!

Signature

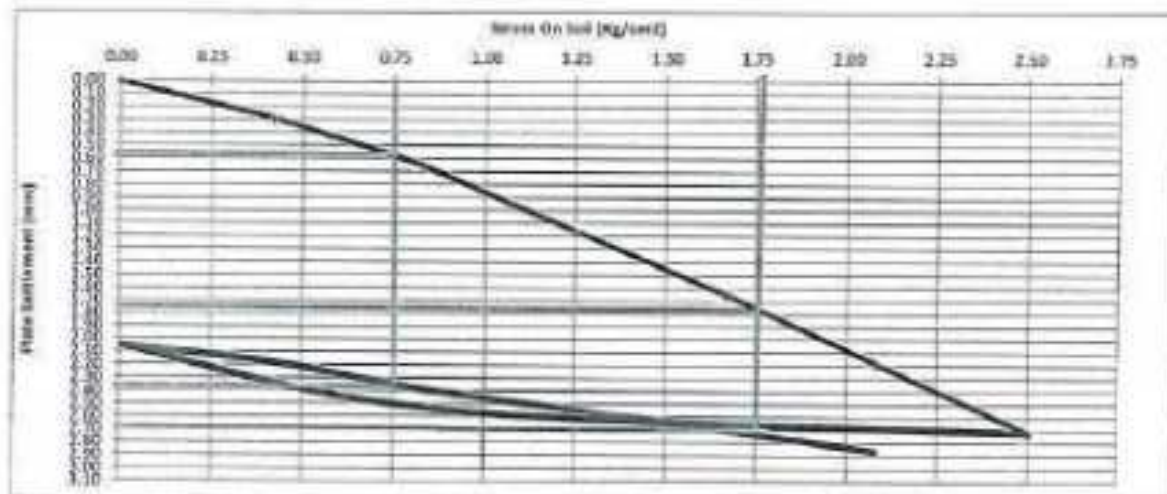
(Handwritten signature and stamp of the Consulting Engineering Bureau & Laboratories)



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 07/11/2022
report date : 09/11/2022
Location : Station 388+000 to 388+100
Test No. : 01

مركز معامل الاستشارات الهندسية
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Nonrepetitive Static Plate Load Tests of Soils DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.29	0.65	1.16	1.65	2.15	2.72

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	2.72	2.81	2.45	2.06

D (mm) =	600	S1 (mm) =	6.58	S2(mm) =	1.75	ΔS =	1.17
Ev1 (kg/cm²) =	(0.75*D*Δs)/ΔS		385				

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.06	2.18	2.39	2.55	2.70	2.86

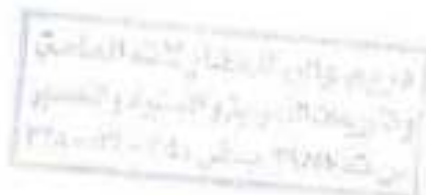
D (mm) =	600	S1 (mm) =	2.38	S2(mm) =	2.73	ΔS =	0.35
Ev2 (kg/cm²) =	(0.75*D*Δs)/ΔS		1286				

Ev2/Ev1 = 3.3

CEL
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مكتب معامل الاستشارات الهندسية
Signature 1



Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Re-loading stage.
D = Plate diameter (mm)
Δs = The difference between 6.3 and 8.7 from the maximum loading (mm) (kg/cm²)
ΔS = Difference in settlements corresponding to 6.3 and 8.7 from the maximum loading (mm)



Company Name : dream Way Co.
Project : Electric Express Train, from Borg El Arab to Alamein.
Test Date : 07/11/2022
report date : 09/11/2022
Location : Station 388+100 to 388+200
Test No. : 02

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.58	0.42	19.60	0.40	19.69	0.31	0.38
2	0.83	19.11	0.89	19.09	0.91	19.44	0.56	0.79
3	1.25	18.26	1.74	18.32	1.68	18.70	1.30	1.57
4	1.67	17.44	2.56	17.33	2.67	18.15	1.85	2.36
5	2.08	16.87	3.13	16.85	3.15	17.55	2.45	2.91
6	2.50	16.20	3.80	16.75	3.25	17.04	2.96	3.34

Unloading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	16.20	3.80	16.75	3.25	17.04	2.96	3.34
2	1.25	16.44	3.56	16.80	3.20	17.16	2.84	3.20
3	0.825	16.56	3.44	17.01	2.99	17.25	2.75	3.06
4	0.01	17.32	2.68	17.70	2.30	17.57	2.43	2.47

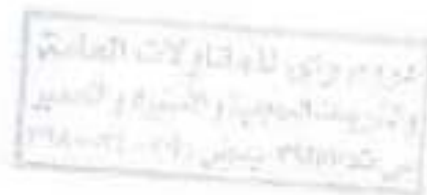
Loading Stage (2)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.22	2.78	17.60	2.40	17.48	2.52	2.57
1	0.83	17.18	2.82	17.54	2.46	17.40	2.60	2.63
2	1.25	16.95	3.05	17.28	2.72	17.13	2.87	2.88
3	1.67	16.72	3.28	17.00	3.00	16.90	3.10	3.13
4	2.08	16.52	3.48	16.72	3.28	16.71	3.29	3.35
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

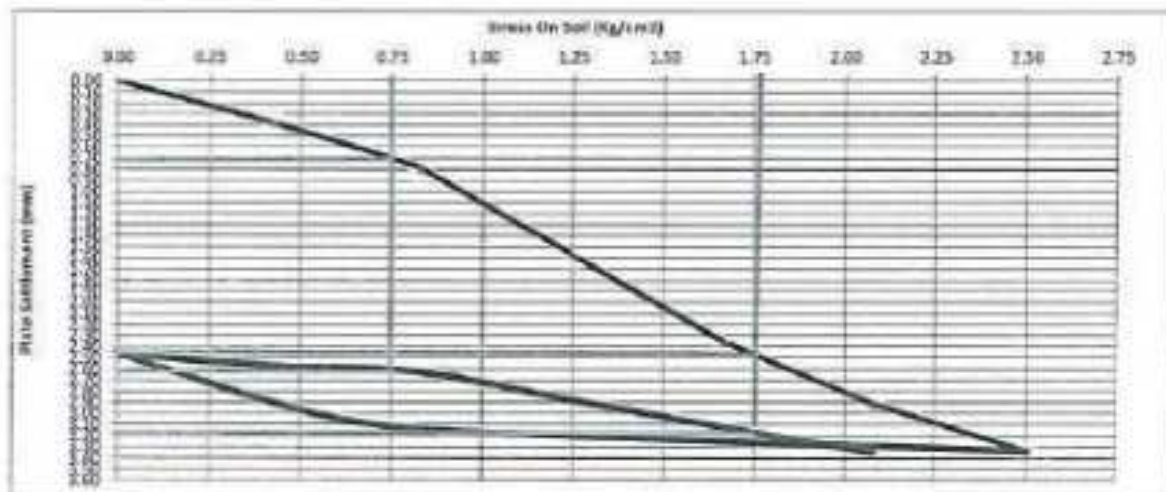
Signature



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Almain.
Test Date : 07/11/2022
report date : 09/11/2022
Location : Station 388+100 to 388+200
Test No. : 02



Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.38	0.79	1.57	2.35	2.91	3.34

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	3.34	3.20	3.00	2.47

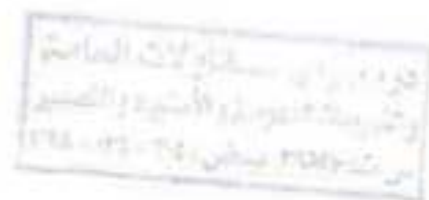
D (mm) = 600	S1 (mm) = 0.70	S2 (mm) = 2.45	ΔS = 1.75
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	257		

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.47	2.57	2.63	2.88	3.13	3.35

D (mm) = 600	S1 (mm) = 2.88	S2 (mm) = 3.39	ΔS = 0.66
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	750		

Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Reloading stage.
D = Plate diameter (mm)
Δσ = The difference between 0.3 and 0.7 from the maximum loading (sigma) (kg/cm²)
ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)





Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 07/11/2022
report date : 09/11/2022
Location : Station 388+200 to 388+300
Test No. : 03

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.68	0.32	19.72	0.28	19.70	0.30	0.30
2	0.83	19.45	0.55	19.50	0.50	19.51	0.49	0.51
3	1.25	19.11	0.89	19.20	0.80	19.22	0.78	0.82
4	1.67	18.40	1.60	18.61	1.39	18.69	1.31	1.43
5	2.08	17.60	2.40	17.80	2.20	18.05	1.95	2.18
6	2.50	16.68	3.32	16.83	3.17	17.31	2.69	3.06

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	16.68	3.32	16.83	3.17	17.31	2.69	3.06
2	1.25	16.71	3.29	16.95	3.05	17.35	2.65	3.00
3	0.825	16.81	3.19	17.12	2.88	17.46	2.64	2.87
4	0.01	17.32	2.68	17.52	2.48	17.82	2.18	2.45

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.11	2.89	17.21	2.79	17.63	2.37	2.68
1	0.83	16.92	3.08	16.95	3.05	17.42	2.58	2.90
2	1.25	16.71	3.29	16.77	3.23	17.12	2.88	3.13
3	1.67	16.52	3.48	16.52	3.48	16.92	3.08	3.35
4	2.08	16.31	3.69	16.40	3.60	16.73	3.27	3.52
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature



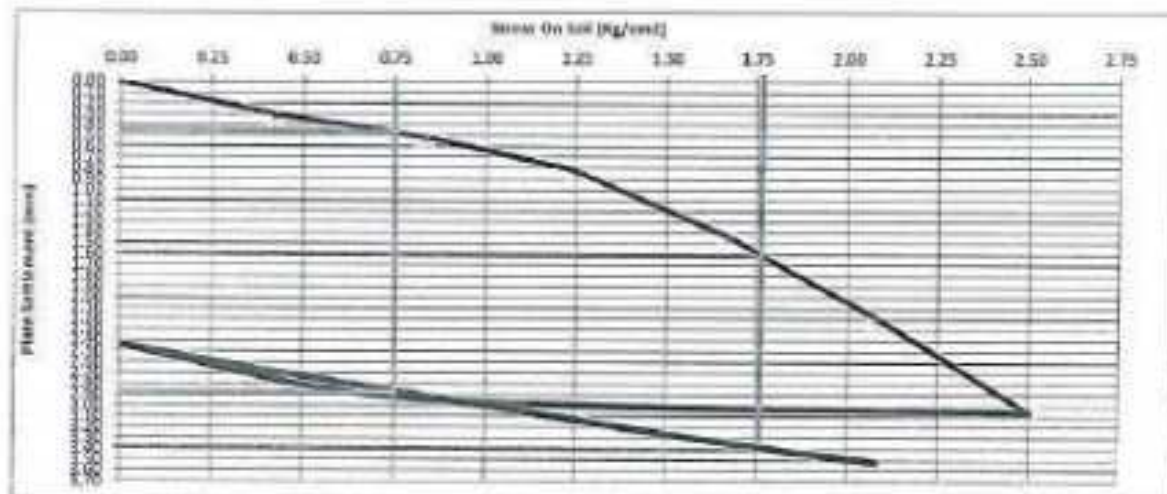
CEL

Consulting Engineering Bureau & Laboratories
مكتب معامل الاستشارات الهندسية

Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Almain.
Test Date : 07/11/2022
report date : 09/11/2022
Location : Station 388+290 to 388+300
Test No. : 03

مركز معامل الاستشارات الهندسية
والبحوث التطبيقية
بمبنى ٣٨٨+٢٩٠ - ٣٨٨+٣٠٠
القاهرة - مصر

Nonrepetitive Static Plate Load Tests of Soils DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.30	0.51	0.82	1.43	2.18	3.06

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.825	0.01
Settlement (mm)	3.06	3.00	2.87	2.45

D (mm) = 600	S1 (mm) = 0.45	S2(mm) = 1.60	ΔS = 1.15
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	391		

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.45	2.66	2.90	3.13	3.35	3.52

Ev2/Ev1 = 2.3

D (mm) = 600	S1 (mm) = 2.90	S2(mm) = 3.40	ΔS = 0.50
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	500		

Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Reloading stage.
D = Plate diameter (mm)
Δs = The difference between S2 and S1 from the maximum loading (Smax) (kg/cm²)
ΔS = Difference in settlements corresponding to S2 and S1 from the maximum loading (mm)

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مكتب معامل الاستشارات الهندسية
والبحوث التطبيقية
بمبنى ٣٨٨+٢٩٠ - ٣٨٨+٣٠٠
القاهرة - مصر
Signature



3 El Malek El Afdal Street
Zamalek, Cairo.
Tel.& Fax : 27367231 - 27363093



3 ش الملك الأفضل
الزمالك - القاهرة
تليفون - فاكس : ٢٧٣٦٧٢٣١ - ٢٧٣٦٣٠٩٣
www.cel-egypt.com



Company Name : dream Way Co.
 Project : Electric Express Train, from Borg El Arab to Alamein.
 Test Date : 07/11/2022
 report date : 09/11/2022
 Location : Station 388+300 to 388+400
 Test No. : 04

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.77	0.23	19.75	0.25	19.74	0.26	0.26
2	0.83	19.27	0.73	19.29	0.71	19.47	0.53	0.68
3	1.25	18.64	1.36	18.76	1.24	18.91	1.09	1.23
4	1.67	18.07	1.93	18.19	1.81	18.35	1.65	1.80
5	2.08	17.50	2.50	17.59	2.41	17.74	2.26	2.39
6	2.50	17.75	2.25	17.10	2.90	17.26	2.74	2.63

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	17.75	2.25	17.10	2.90	17.26	2.74	2.63
2	1.25	16.93	3.07	17.22	2.78	17.39	2.61	2.82
3	0.625	17.19	2.81	17.45	2.55	17.53	2.47	2.81
4	0.01	17.61	2.39	17.87	2.13	17.85	2.15	2.22

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.46	2.54	17.70	2.30	17.79	2.21	2.35
1	0.83	17.29	2.71	17.52	2.48	17.64	2.36	2.52
2	1.25	17.10	2.90	17.37	2.63	17.53	2.47	2.67
3	1.67	16.93	3.07	17.24	2.76	17.39	2.61	2.81
4	2.08	16.75	3.25	17.09	2.91	17.26	2.74	2.97
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature

(Handwritten signature and official stamp of the Consulting Engineering Bureau & Laboratories)



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Almain.
Test Date : 07/11/2022
report date : 09/11/2022
Location : Station 388+300 to 388+400
Test No. : 04

تم إجراء الاختبار في
مكتب محامل الاستشارات الهندسية
في 07/11/2022
بمقر الشركة - القاهرة

**Nonrepetitive Static Plate Load Tests of Soils
DIN 18134**



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.25	0.65	1.23	1.90	2.39	2.53

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	2.03	2.82	2.01	2.22

D (mm) = 600	S1 (mm) = 0.60	S2 (mm) = 1.30	ΔS = 1.30
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta\sigma) / \Delta S$	346		

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.22	2.35	2.52	2.67	2.81	2.97

D (mm) = 600	S1 (mm) = 2.86	S2 (mm) = 2.85	ΔS = 0.35
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta\sigma) / \Delta S$	1286		

Ev2/Ev1 = 3.7

CEL
مكتب محامل الاستشارات الهندسية
التجارة العامة
Signature: /
المهندس /



Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Reloading stage.
D = Plate diameter (mm)
Δσ = The difference between 0.3 and 0.7 from the maximum loading (sigma) (kg/cm²)
ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

Company Name : dream Way Co.
Project : Electric Express Train, from Borg El Arab to Alamein.
Test Date : 07/11/2022
report date : 09/11/2022
Location : Station 388+400 to 388+500
Test No. : 65

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.70	0.30	19.68	0.32	19.74	0.26	0.29
2	0.83	19.35	0.65	19.43	0.57	19.49	0.51	0.58
3	1.25	18.90	1.10	18.94	1.06	19.00	0.91	1.02
4	1.67	18.46	1.54	18.47	1.53	18.69	1.37	1.48
5	2.08	18.10	1.90	18.13	1.87	18.24	1.76	1.84
6	2.50	17.77	2.23	17.80	2.20	17.95	2.05	2.16

Unloading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	17.77	2.23	17.80	2.20	17.95	2.05	2.16
2	1.25	17.87	2.13	17.86	2.14	18.01	1.99	2.09
3	0.625	18.06	1.94	17.96	2.04	18.13	1.87	1.96
4	0.01	18.45	1.54	18.52	1.48	18.53	1.47	1.50

Loading Stage (2)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	18.32	1.68	18.32	1.68	18.40	1.60	1.65
1	0.83	18.18	1.82	18.21	1.79	18.22	1.78	1.80
2	1.25	18.06	1.94	18.06	1.94	18.01	1.99	1.96
3	1.67	17.90	2.10	17.92	2.08	17.92	2.08	2.09
4	2.08	17.78	2.22	17.81	2.19	17.76	2.24	2.22
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature \

مكتب محامل الاستشارات الهندسية
الاستشارات الهندسية
إدارة مشاريع
القاهرة - مصر



Company Name

: dream Way Co.

Project

: Electric Express Train, from Borg Al Arab to Alamein.

Test Date

: 07/11/2022

report date

: 09/11/2022

Location

: Station 388+400 to 388+500

Test No.

: 05

Nonrepetitive Static Plate Load Tests of Soils

DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.29	0.58	1.02	1.45	1.84	2.16

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	2.16	2.09	1.95	1.50

D (mm) =	600	S1 (mm)=	0.50	S2(mm)=	1.55	ΔS =	1.05
Ev1 (kg/cm²) =	(0.75*D*Δs)/ΔS						429

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	1.50	1.65	1.80	1.95	2.09	2.22

Ev2/Ev1 = 3.3

D (mm) =	600	S1 (mm)=	1.78	S2(mm)=	2.19	ΔS =	0.32
Ev2 (kg/cm²) =	(0.75*D*Δs)/ΔS						1406

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δs = The difference between 0.3 and 0.7 from the maximum loading (smax) (kg/cm²)

ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)



UNIVERSAL INSPECTION REQUEST



DREAM WAY

المشروع
القطار السريع
الخط ١



مكتب الدراسات والدراسات



RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time given:

Contractor Company	Dream Way COMPANY			Designer Company*	(SPECTRUM) Engineering Consulting Office						
Issued by Contractor	Name	Sign		Date/Serial Number		Time					
	Eng. Elsaed Mohamed			11/10/2022 SS-B-DW-JR 1(04)		1:00					
Received by GARB CONSULTANT	Eng. Mazen Esamey		UIR	C1	C2	C3	C4	MM	YY	MM	DD
				388	EW	CS	12	10	2022	01	00

CODE-1	S1 to S21 Station Reference	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

EXPLANATION OF WORK TO BE INSPECTED

Description				Element	Item
From SL	388+500	To SL	388+520	REV 29	Filter layer at level 7.00m
From SL	388+603.85	To SL	388+703.85	REV 36	
				Fill Filter	

INSPECTION DETAILS The following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	References	M5 Reference	
PLAN AND PROFILE (REV.35) (REV.29)	NAAR-SS-B-DW (JT-03-01)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-01.2) VERSION 2 BY CIVECON GROUP	
POINT OF SHEET		-TECHNICAL REPORT (CG21-02.1) VERSION 1 BY CIVECON GROUP	
POINT ON PLAN			
MASTER SHEET FOR CUT AND FILL			
APPROVED BY (SPECTRUM) CONSULTING			

Comments by Eng. Mohamed KHALIL (XYZ)

- 1- Attached Master Sheet approved by SPECTRUM
- 2- As Built (TBM level 7.10) fill layer indicates Elevation, Width



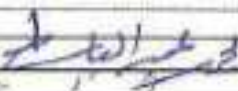
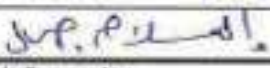
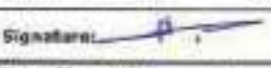
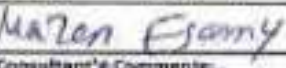
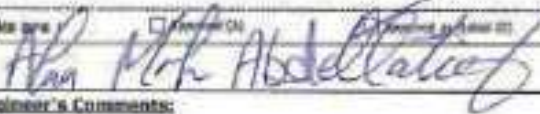
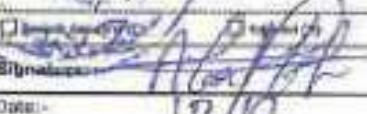
Comments by Eng. Mastafa reyad (SPECTRUM)

Comments by Eng. Alaa Abd-Allatif (ER)

- 1- تم استلام القطاع لموقع بصري
- 2- تم مراجعة شيت المقياس
- 3- coordinates & levels and width checked by GARB consultant

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsaed Mohamed				A	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamey				A	
GARB**	Eng. Margret magdy					
Employers Representative	Eng. Alaa Abd-Allatif				A	

Contractor	  		Serial No. IR-HQ4							
	 		Date 12/10/2022							
	مكتب أرقام النيل Electrical Express Train from Burg El Arab to Atmanis From Station 388+00 To Station 388+60									
	Works Inspection Request We request your attendance to inspect the following works : Discipline : ☐ Overlap Protection ☐ Ducting ☐ Drainage ☐ Lane Location : <table border="1"> <tr> <th>Zone</th> <th>From Station</th> <th>To Station</th> <th>Level</th> </tr> <tr> <td>Drainage</td> <td>388+500</td> <td>388+520</td> <td>7.00 مقلوب من القار</td> </tr> </table> Reference : Drawing : EET-BORG EL ARAB REV 29 Plan Profile Specification EETL1.1 Earthworks specifications and testing report. Purpose of the inspection ☐ Surveying ☐ Setting out ☐ Lane ☐ Repetition Attachments 1- master sheet for cut for R0V29 2- daylight coordinates 3- Asbuilt levels 4- PLAN Works To be Inspected FILTER LAYER FROM STATION 388+500 TO 388+520 مشروع القطار السريع غرب النيل Submitted by : Drainage Signature :  Date of Inspection : 1 / 1			Zone	From Station	To Station	Level	Drainage	388+500	388+520
Zone	From Station	To Station	Level							
Drainage	388+500	388+520	7.00 مقلوب من القار							
Consultants	Surveying Consultant Engineer's Comments : level matching the attached master sheet which approved by SPECTRUM. The works are : ☐ Approved (A) ☒ Approved as noted (B) ☐ Revoked/Revised (C) ☐ Rejected (D) Name :  Signature :  GARP Consultant Engineer's Comments : Date of Inspection : 1 / 1									
	The works are : ☐ Approved (A) ☐ Approved as noted (B) ☐ Revoked/Revised (C) ☐ Rejected (D) Name :  Signature :  General Consultant's Comments : 1 coordinates & levels & width master sheet checked by GAN Consultant but 2 Sec/20m shown approved by spectrum 2 final approval is subject to mentioned comment The works are : ☐ Approved (A) ☐ Approved as noted (B) ☐ Revoked/Revised (C) ☐ Rejected (D) Name :  Signature :  GARP Engineer's Comments : Date : 12/10									
	Name : Signature : GARP Eng.									
	Name : Signature :									

Dream Way width Accounting to rev.28 (27-10-17)									
Station	Left Offset	X Left	Y Left	Cl	BR Offset	X Right	Y Right	total width	
388+500.00	-15.215	427,579.511	900,001.92	900,018.1098m	12.208	427,589.47	900,027.49	27.423	
388+520.00	-15.19	427,560.93	900,009.16	900,023.3287m	12.197	427,570.82	900,034.70	27.357	

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Handwritten signature/initials.



[illegible]

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مشروع القطار السريع غرب النيل

دریم وائر نیٹ ورک انجینئر
نیٹ ورک انجینئر
نیٹ ورک انجینئر



1	900034.7	427570.9	7.02 s
2	900030.1	427569.4	7.01 s
3	900024.7	427567.4	7.03 s
4	900020.1	427565.7	6.99 s
5	900015.6	427563.2	6.98 s
6	900010.1	427560.2	6.98 s
7	900001.9	427579.6	7.02 s
8	900007.3	427581.7	7.03 s
9	900011.1	427583.1	7.02 s
10	900014.9	427584.6	7.04 s
11	900020.1	427586.6	7 s
12	900027.5	427589.5	7.02 s
13	900022	427587.3	7.03 s
14	900029.3	427584.8	7.02 s
15	900025.8	427583.5	7.01 s
16	900022.4	427582.1	7.02 s
17	900019.3	427581	7.02 s
18	900015.2	427579.4	7 s
19	900011.4	427577.9	7.03 s
20	900008.5	427576.8	7 s
21	900003.7	427574.9	7.02 s
22	900031.1	427580.1	7.01 s
23	900027.3	427578.7	7 s
24	900024.7	427577.7	7.02 s
25	900020.6	427576.1	7.01 s
26	900017.3	427574.8	7 s
27	900012.9	427573.1	7.01 s
28	900009.9	427571.9	7 s
29	900005.5	427570.3	7 s
30	900007.4	427565.6	7.02 s
31	900011.3	427567.1	7.01 s
32	900014.4	427568.3	7.01 s
33	900018.4	427569.9	7.02 s
34	900023.1	427571.7	7.03 s
35	900026.3	427572.9	7.02 s
36	900032.9	427575.5	7 s

منزلة



UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION-Minimum Notice Period shall be less than 24 hours

The Work described below will be complete and ready for inspection at the following time:

Contractor Company	Dream Way COMPANY			Designer Company*	(SPECTRUM) Engineering Consulting Office				
Issued by Contractor	Name Eng. Elbared Mohamed	Sign 	Date/Serial Number 01/10/2022 SS-B-DW-IR F(02)	Time 1:00 p					
Received by GARB CONSULTANT	Eng. Mazen Esamy	UIR 	CS 388	EW CS	DO 10	MM 10	YY 2022	HH 01	MM 09
CODE-1	S1 to S21 Station Reference		D1 to D3 Depot Reference		Kp XXX Note For K10 meter point only Start Km is used				
CODE-2	Work Activity								
CODE-3	Sub Element of Activity								

EXPLANATION OF WORK TO BE INSPECTED

Description					Element	Item
From St.	388+720	To St.	388+820	REV 29	Fill Filter	Filter layer at level 6.70m
From St.	388+903.86	To St.	388+903.86	REV 35		

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	References	MS Reference	
PLAN AND PROFILE (REV.35) (REV.29)	MAR SS-B-DW (QT-02-01)	Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY EYECON GROUP.	
POINT OF SHEET		TECHNICAL REPORT (CG21-322.1) VERSION 1 BY EYECON GROUP.	
POINT ON PLAN			
MASTER SHEET FOR CUT AND FILL			
APPROVED BY (SPECTRUM)CONSULTING			

Comments by: Eng. Mohamed KHALIL (XYZ)

1- Attached Master Sheet approved by SPECTRUM ,
2- As Built (Filter level (6.70)) fill layer coordinates , Elevations , Width



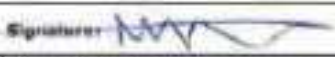
Comments by: Eng. Mostafa reyad (SPECTRUM)

Comments by: Eng. Nao Abd-Allah (GARB)

1- coordinates & levels and width checked by GARB consultant
2- تم مراجعة شيت النفاذ

INSPECTION RESULT

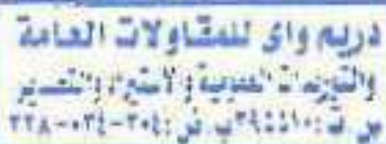
Organisation	Name	Sign	Date	Time	Approval Status A-AWC-R	Please Tick if Not Attend
Contractor	Eng. Elbared Mohamed				A	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
GARB**	Eng. Margret magdy				A	
Employers Representative	Eng. Alaa Abd-Allah				A	

Contractor				Serial No. IR-F(02)	
	مكتب أ.د. عبد النيل Electrical Express Train From Burg El Arab to Al-Nasr From Station 388+00 To Station 389+00			Date 10/10/2022	
	Works Inspection Request				
	We request your attendance to inspect the following works :				
Discipline : ☐ Civil/Sign Protection ☐ Structure ☐ Bridge ☐ Survey					
Location :	Zone	From Station	To Station	Level	
	Drainway	388+720	388+820	6.70 مسمو من القعر	
References	Drawing: EET-BORG EL ARAB REV 28 Plan Profile		Specification: ECTLL 1 Earthworks specifications and testing report.		
Purpose of the inspection Surveying ☐ Setting out ☐ Level ☐ Quantity دريم واتر للمشاوالات العامة والتشييد والتطوير في ٢٩/١٠/٢٠٢٢ ٢٢٨-٠٢٢-٢٠٢					
Attachments 1- master sheet for cut for REV28 2-daylight coordinates 3- Asbuilt levels 4- PLNE					
Works To be Inspected	AS BUILT FILTER LAYER FROM STATION 388+720 TO 388+820  مشروع القطار السريع غرب النيل				
Submitted by:	Designing	Signature: 			
Surveying Consultant Engineer's Comments :		Date of Inspection: 1 / 1			
The works are : ☒ Approved (A) ☐ Approved with (R) ☐ Rejected (R) ☐					
Name: Mohamed Mursun		Signature: 			
SARP Consultant Engineer's Comments :		Date of Inspection: 1 / 1			
Consultants	The works are : ☒ Approved (A) ☐ Approved with (R) ☐ Rejected (R) ☐				
	Name: Hazen Esam		Signature: 		
	General Consultant's Comments:		Date: 1 / 1		
	1 Coordinates & levels & width and Master sheet checked by GARA Consultants but a Sec/2cm should approved by spectu 2 final approval is subject to above mentioned comment				
	Name: Ali Abdellatif		Signature: 		
GARR Engineer's Comments:		Date: 10/10			
Name:		Signature:			
GARP Eng.					



در جلسه شورای تخصصی بررسی و تصویب شد
تاریخ: ۱۳۹۷/۰۷/۰۷
محل: دفتر مدیریت

مختار
مختار

[illegible]

UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION-Minimum Notice Period **not less than 24 Hours**

The Work described below will be complete and ready for inspection at place of work

Contractor Company	Dream Way COMPANY		Designer Company*	(SPECTRUM) Engineering Consulting Office	
Issued by Contractor	Name Eng. Elsaed Mohamed	Sign 	Date/Serial Number 26/10/2022 SS-B-DW-IR G(01)	Time 1:00	
Received by GARB CONSULTANT	Eng. Mazen Esamy	UIR 	MM 10	YY 2022	HH 01

CODE-1	\$1 to \$21 Station Reference	D1 to D3 Depot Reference	Kg XXX Note For Mile meter point only Start Km is used		
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CODE-2	Work Activity
CODE-3	Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Description				Element	Item
From St.	388+700	To St.	389+000	REV 29	OVERLAP 30CM , AREA=8621.022M2
From St.	388+883.88	To St.	389+183.88	REV 30	

INSPECTION DETAILS The following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference PLAN AND PROFILE(REV.35) ,(REV.29) POINT OF SHEET POINT ON PLAN MASTER SHEET FOR CUT AND FILL APPROVED BY (SPECTRUM)CONSULTING	References MAR :SS-B-DW-PLT(01)	MS Reference -Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.3)VERSION2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by:Eng. Mohamed KHALIL (XYZ)

- 1- Attached Master Sheet approved by SPECTRUM.
- 2-As Built (Geotextile) with overlap 30 cm , AREA=8621.022M2

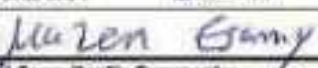
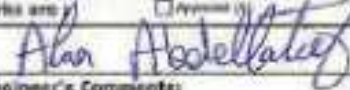
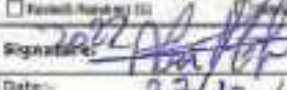
Comments by:Eng. Mostafa Nagdy (SPECTRUM)

Comments by:Eng. Alaa Abd-Allatif (GARB)

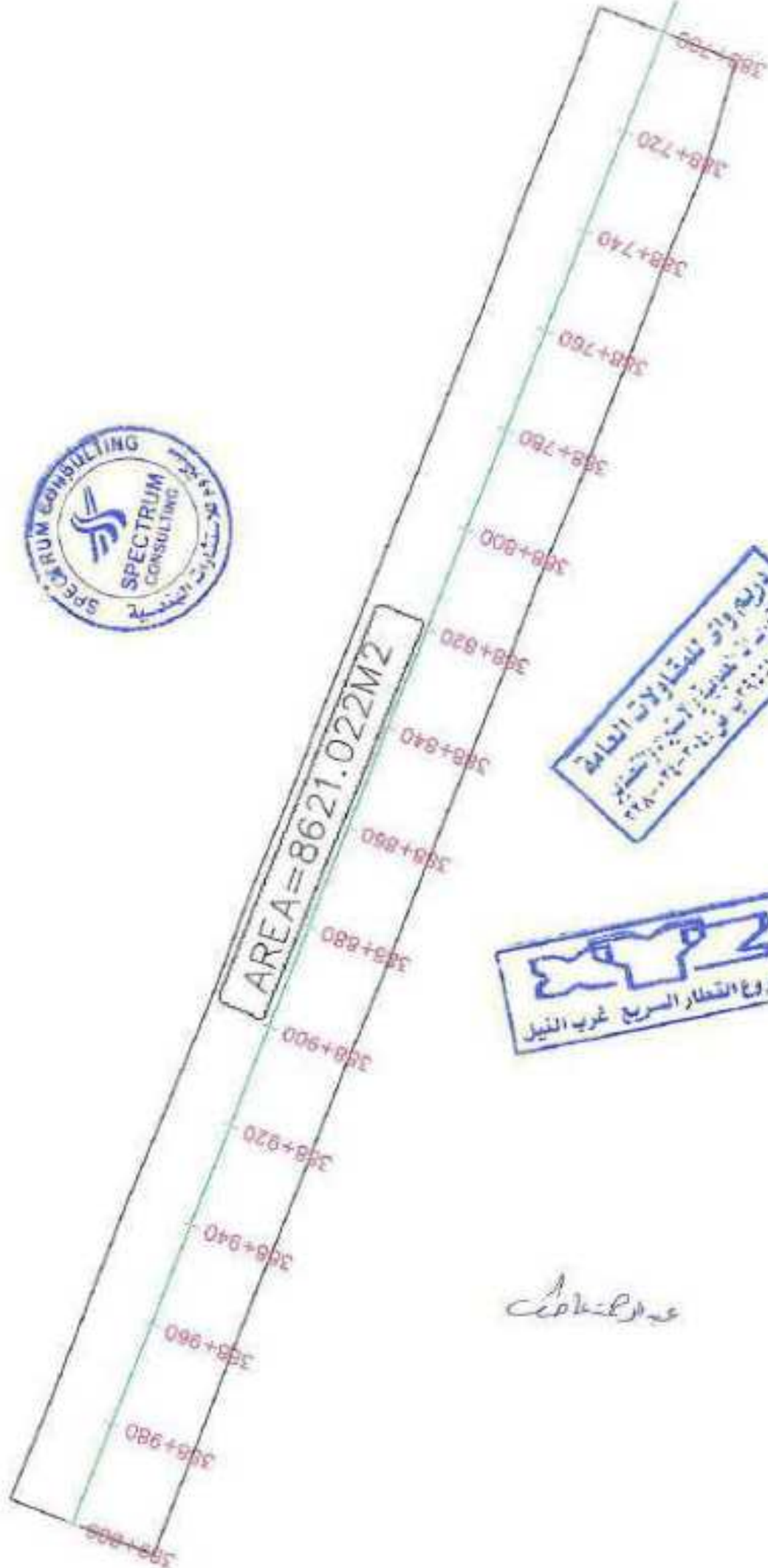
- 1- width and overlap checked by GARB consultant
- 2-Quality test checked in Third party laboratory (National Research Center)

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsaed Mohamed				A	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
GARB**	Eng. Margret Nagdy					
Employers Representative	Eng. Alaa Abd-Allatif				A	

Contractor	  				Serial No. IR-G(01)
	 				Date 27/10/2022
Works Inspection Request					
We request your attendance to inspect the following works:					
Discipline : ☐ Drainage ☐ Structure ☐ Bridge ☐ Road					
Location :		Zone	From Station	To Station	Level
		Drainage	388+700	389+000	
References		Drawing: EET-BORG EL AKAB REV 29 Plan Profile Specification: EETLS 1 Earthworks specifications and testing report			
Purpose of the inspection					
☐ Surveying ☐ Setting out ☐ Level ☐ Section					
Attachments					
1- Testing reports					
2- PLNE					
Works To be Inspected		Geotextile layer from 388+700 to 389+000 with average 300m ² Area=800m ² 0.22m ²			
		 			
Submitted by:		Drawing		Signature: 	
Surveying Consultant Engineer's Comments:				Date of Inspection: - / /	
The works are : ☐ Approved (A) ☐ Approved as noted (D) ☐ Partially Approved (P) ☐ Rejected (R)					
Name:				Signature:	
GARP Consultant Engineer's Comments:				Date of Inspection: - / /	
The geotextile layer is accepted.					
The works are : ☒ Approved (A) ☐ Approved as noted (D) ☐ Partially Approved (P) ☐ Rejected (R)					
Name: 				Signature: 	
General Consultant's Comments:				Date: - / -	
1. X/Sac/20m should be approved from SYSTRA to calculate the Area 2. Sample already checked in third party lab and results attached and from 3. Final approval is subject to above mentioned comments Comply with Aig9					
The works are : ☐ Approved (A) ☐ Approved as noted (D) ☐ Partially Approved (P) ☐ Rejected (R)					
Name: 				Signature: 	
GARP Engineer's Comments:				Date: 27/10/	
Name:				Signature:	
GARP Eng.					

Consultants



عبد الرحمن

معهد بحوث وتكنولوجيا النسيج

معمل اختبارات خامات النسيج

Test Report No.: 152-2022

بيانات العميل

شركة دريم واي

اسم المشروع: مشروع القطار السريع برج العرب - العالمين
الاستشاري: مكتب سبيكتروم للاستشارات الهندسية (مقدم العينة)

دريم واي للمقاولات العامة
الترخيص رقم: ٢٠١٠/٢٠٤٠
الرقم: ٢٠١٠/٢٠٤٠

بيانات العينة

تاريخ الاستلام: ٢٠٢٢/١٠/٣٠	الظروف البيئية للاختبار: جو الغرفة
تاريخ التقرير: ٢٠٢٢/١١/٠٦	وصف العينة: إجراء بعض اختبارات CBR puncture resistance على عينة قماش غير منسوج grey اللون

نتيجة الاختبار

Test	Test Method	Sample repeat	Result	Unit	Uncertainty		Conformity
					Result	Unit	Compliance
CBR puncture resistance	ASTM D 6241	1	2260.00	N			
		2	2354.40				
		3	2352.00				
		4	2266.11				
		5	2209.70				
Final result		AVE	2288.44				

* هذه النتيجة تخص العينة المقدمة وتمثلها لأي كميات أخرى هي مسئولية جهة تقييم العينة.
* لا يجوز استخدام هذا التقرير في الدعاية أو الإعلان عن المنتج إلا بعد الرجوع إلى المركز والاتفاق على ذلك.
* يتم الاحتفاظ بالعينة بعد اختبارها بالمعامل لمدة أقصاها شهر من تاريخ الاختبار.
* التقرير صالح لمدة عام من تاريخ الاستلام.

بمعلومات

الوظيفة	المشرف على الاختبارات	رئيس القسم	وحدة التحاليل والاستشارات
اسم	أ.د. محمود حمودة الشلقفيري	أ.د. مروة عاطف علي	رئيس مجال النسيج
التوقيع			أ.د. أميرة محمد الشافعي
التاريخ			

الساده / شركة دريم واى

تحية طيبة وبعد...

الموضوع :- بشأن الطلب المقدم من سوابتكم بتاريخ ٢٠٢٢/١٠/١١ لإجراء اختبار عينة جيوتكستائل.

بالإشارة إلى الموضوع عالياً، نشرف بأن نرفق لسيادتكم التقرير الذي أعد بواسطة :-

د/ اشرف حسين النحراوى بقسم هندسة الغزل والنسيج وذلك من خلال المركز الهندسى.

مع خالص احترامي وتقديري،،

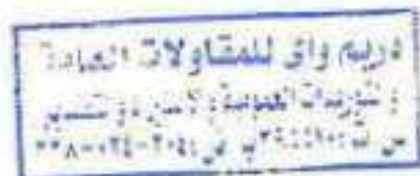
المدير التنفيذي للمركز الهندسى

كلية الهندسة - جامعة الاسكندرية

د/ زياد محمد طارق الصياد



تبريداً فى ٠١ أكتوبر ٢٠٢٢
عزق





جامعة الإسكندرية

المركز الهندسي بكلية الهندسة

Customer: شركة دريم واى

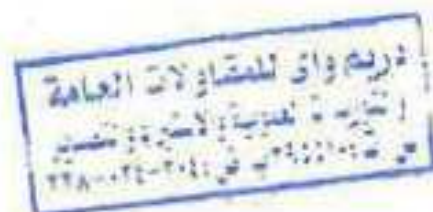
Sample type: Non-Woven Fabric

Test Type	Sample Number	Results
Grab Tensile Strength (N) ASTM D4632	Sample 1	1010.61
	Sample 2	1105.07
	Sample 3	964.83
	Average	1026.84
Grab Elongation (%) ASTM D4632	Sample 1	77.54
	Sample 2	77.2
	Sample 3	79.6
	Average	78.11
Bursting strength (kPa) ASTM D3786	Sample 1	2124.1
	Sample 2	2305.6
	Sample 3	2328.1
	Average	2252.6
Mass per unit area (g/m ²) ASTM D5261	Sample 1	450
	Sample 2	450
	Sample 3	450
	Average	450

The laboratory is responsible only for the samples provided
The samples provided are the responsibility of the supplier
The results have a tolerance $\pm 5\%$.

Approved:

Prof. Dr. Ashraf Hussein Ahmed



UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time

Contractor Company	Dream Way COMPANY		Designer Company*	SPECTRUM Engineering Consulting Office			
Issued by Contractor	Name	Sign	Date/Serial Number	Time			
	Eng. Elhaseed Mohamed		30/10/2022 SS-B-DW-IR G(02)	1:00			
Received by GARB CONSULTANT	Eng. Mazen Esamy		UIR	S1	S2	S3	S4
				300	8W	CS	01
				MM	YY	RR	MM
				11	2022	01	01

CODE 1	S1 to S21 Sublot Reference	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
CODE 2	Work Activity		
CODE 3	Sub Element of Activity		

EXPLANATION OF WORK TO BE INSPECTED

Description				Element	Item
From St.	388+520	To St.	388+700	REV 29	OVERLAB 30CM , AREA=5009.437 M2
From St.	388+703.00	To St.	388+883.00	REV 30	
				Geotextile	

INSPECTION DETAILS The following will be ready at the planned inspection time

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	References	MS Reference	
PLAN AND PROFILE (REV.35) (REV.29)	MAR-SS-B-DW-PLT(01)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (KG21-41.2) VERSION 2 BY CIVECON GROUP.	
POINT OF SHEET		-TECHNICAL REPORT (CG21-123.1) VERSION 1 BY CIVECON GROUP.	
POINT ON PLAN			
MASTER SHEET FOR CUT AND FILL			
APPROVED BY (SPECTRUM)CONSULTING			

Comments by: Eng. Mohamed KHALIL (XYZ)

1- Attached Master Sheet approved by SPECTRUM

2-As Built (Geotextile) with overlap 30 cm , AREA= 5009.437 M2



Comments by: Eng. Mostafa reyad (SPECTRUM)

Comments by: Eng. Alaa Abd-Allatif (GK)

1- width and overlap checked by GARB consultant	2-Quality test checked in Third party laboratory (National Research Center)
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INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elhaseed Mohamed				A	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
GARB**	Eng. Margret magdy					
Employers Representative	Eng. Alaa Abd-Allatif				A	

Contractor	 		Serial No. TR-G(03)	
	مكتبة امداد شمس النيل Electrical Express Trains from Borg Al Arab to Alexandria from Station 386+00 To Station 389+00		Date 1/11/2022	
	Works Inspection Request			
	We request your attendance to inspect the following works :			
Discipline : ☐ Civil/Infrastructure ☐ Structure ☐ Railway ☒ Survey				
Location :	Zone	From Station	To Station	
	Dreamway	386+520	389+700	
Reference		Drawing: EET-BORD EL ARAB REV 25 Plan Profile Specifications: E.T.I.L Earthworks specifications and testing report.		
Purpose of the inspection Surveying ☐ Setting out ☒ Level ☐ Topography درجہ واتی للمقاولات العامة والتاخير في الطبقات الخاصة بالمتنوع من ٢٠٢٠-٢٠٢١-٢٠٢٢				
Attachments				
1- Testing reports				
2- PLNE				
Works To be Inspected	Geotextile layer from 386+520 to 389+700 with overlay 30cm, Area = 50091.87 m2			
Submitted by: <u>Underway</u>		Signature: 		
Surveying Consultant Engineer's Comments :		Date of inspection: / /		
The works are : ☐ Approved (A) ☐ Approved as noted (B) ☐ Rejected/Reserve (C) ☐ Rejected (D)				
Name:		Signature:		
GARP Consultant Engineer's Comments :		Date of inspection: / /		
The geotextile layer is accepted.				
The works are : ☒ Approved (A) ☐ Approved as noted (B) ☐ Rejected/Reserve (C) ☐ Rejected (D)				
Name: <u>Hazen Emry</u>		Signature: 		
General Consultant's Comments:		Date: / /		
1- X/Rat form of Nov. 29 should approved from SPS TRA to Calculate the Area 9- Quality tests checked in Third Party Lab and Results attached and signed by SPS 3- Final approval is subject to above mentioned comments with the Prof SPS				
The works are : ☐ Approved (A) ☐ Approved as noted (B) ☐ Rejected/Reserve (C) ☐ Rejected (D)				
Name: <u>Alaa Abdelkader</u>		Signature: 		
GARP Engineer's Comments:		Date: 01/11/2022		
Name:		Signature:		
GARP Eng.				



AREA = 5009.437 M²



م.د. محمد عبد الحليم

معهد بحوث وتكنولوجيا النسيج

Test Report No.: 152-2022

معمل اختبارات خامات النسيج

بيانات العميل

شركة دريم واي

اسم المشروع: مشروع القطر السريع برج العرب - العالمين
الاستشاري: مكتب سبيكترم للاستشارات الهندسية (مقدم العينة)



بيانات العينة

تاريخ الاستلام: ٢٠٢٢/١٠/٣٠	الظروف البيئية للاختبار: جو الغرفة
تاريخ التقرير: ٢٠٢٢/١١/٠٦	وصف العينة: إجراء بعض اختبار CBR puncture resistance على عينة لماس غير ملسوح grey اللون

نتيجة الاختبار

Test	Test Method	Sample repeat	Result	Unit	Uncertainty		Conformity	
					Result	Unit	Compliance	Non
CBR puncture resistance	ASTM D 6241	1	2260.00	N				
		2	2354.40					
		3	2352.00					
		4	2266.11					
		5	2209.70					
Final result		AVE	2288.44					

* هذه النتيجة تكفي العينات المقدمة وتمثلها لأي كميات أخرى هي مستوية جهة تقديم العينة.
* لا يجوز استخدام هذا التقرير في الدعاية أو الإعلان عن المنتج إلا بعد الرجوع إلى المركز والاتفاق على ذلك.
* يتم الاحتفاظ بالعينات بعد اختبارها بالمعامل لمدة أقصاها شهر من تاريخ الاختبار.
* التقرير صالح لمدة عام من تاريخ الاستلام

يعتمد،

الوظيفة	المكلف على الاختبارات	رئيس القسم	وحدة التحاليل والاستشارات رئيس مجال النسيج
اسم	أ.د. محمود حمودة الشقنقيري	أ.د. مروة عاطف علي	أ.د. أميرة محمد الشافعي
التوقيع			
التاريخ			

الساده / شركة دريم واى

تحية طيبة وبعد...

الموضوع :- بشأن الطلب المقدم من سيادتكم بتاريخ ٢٠٢٢/١٠/١١ لإجراء اختبار عينة جيوتكستايل.
بالإشارة إلى الموضوع عالية. نتشرف بأن نرفق لسيادتكم التقرير الذي أعد بواسطة :-
إ.د/ اشرف حسين النحراوى بقسم هندسة الغزل والنسيج وذلك من خلال المركز الهندسي.

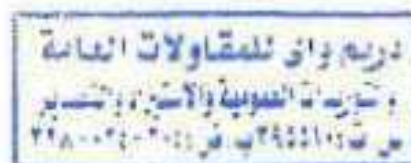
مع خالص احترامي وتقديري،،

المدير التنفيذي للمركز الهندسي
كلية الهندسة - جامعة الاسكندرية

إ.د/ زياد محمد طارق الصياد



تحريراً في - ٣١ أكتوبر ٢٠٢٢
عزق





Customer: شركة دريم واى

Sample type: Non-Woven Fabric

Test Type	Sample Number	Results
Grab Tensile Strength (N) ASTM D4632	Sample 1	1010.61
	Sample 2	1105.07
	Sample 3	964.83
	Average	1026.84
Grab Elongation (%) ASTM D4632	Sample 1	77.54
	Sample 2	77.2
	Sample 3	79.6
	Average	78.11
Bursting strength (kPa) ASTM D3786	Sample 1	2124.1
	Sample 2	2305.6
	Sample 3	2328.1
	Average	2252.6
Mass per unit area (g/m ²) ASTM D5261	Sample 1	450
	Sample 2	450
	Sample 3	450
	Average	450

The laboratory is responsible only for the samples provided
 The samples provided are the responsibility of the supplier
 The results have a tolerance $\pm 5\%$.

Approved:
 Prof. Dr. Ashraf Hussein Ahmed



UNIVERSAL INSPECTION REQUEST



شركة
القوة والتميز
GARB



RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 hours

The Work described below will be complete and ready for inspection at the following time:

Contractor Company	Dream Way COMPANY			Designer Company*	(SPECTRUM) Engineering Consulting Office
Issued by Contractor	Name Eng. Elsayed Mohamed	Sign	Date/Serial Number 20/11/2022 SS-B-DW-IR G(05)		Time 1:00
Received by GARB CONSULTANT	Eng. Mazen Essam	UIR	D1 388	D2 EW	D3 CS

CODE-1	S1 to S21 Station Reference	D1 to D3 Depot Reference	Kp XXX Note For Kilometer point only Start Km is used
CODE-2	Work Activity		
CODE-3	Sub Element of Activity		

EXPLANATION OF WORK TO BE INSPECTED

Description				Element	Item
From St.	388+520	To St.	388+620	REV 29	OVERLAB 30CM , AREA= 2889.324 M2
From St.	388+703.88	To St.	388+803.88	REV 30	

INSPECTION DETAILS The following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as Indicated
Drawing Reference PLAN AND PROFILE (REV.35) (REV.29) POINT OF SHEET POINT ON PLAN MASTER SHEET FOR CUT AND FILL APPROVED BY (SPECTRUM) CONSULTING	References MAR -SS-B-DW-PLY(01)	MS Reference -Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (G621-4L2) VERSION 2 BY CIVECON GROUP. -TECHNICAL REPORT (G621-123.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed KHALIL (XYZ)

- 1- Attached Master Sheet approved by SPECTRUM
- 2- As Built (Geotextile) with overlaid 30 cm , AREA= 2889.324 M2



Comments by: Eng. Mostafa reyad (SPECTRUM)

Comments by: Eng. Alaa Abd-Allah (ER)

1- width and overlaid checked by GARB consultant	2- Quality test checked in Third party laboratory (National Research Center)
--	--

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsayed Mohamed				A-AWC-B	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Essam				A	
GARB**	Eng. Margret magly					
Employers Representative	Eng. Alaa Abd-Allah				A	

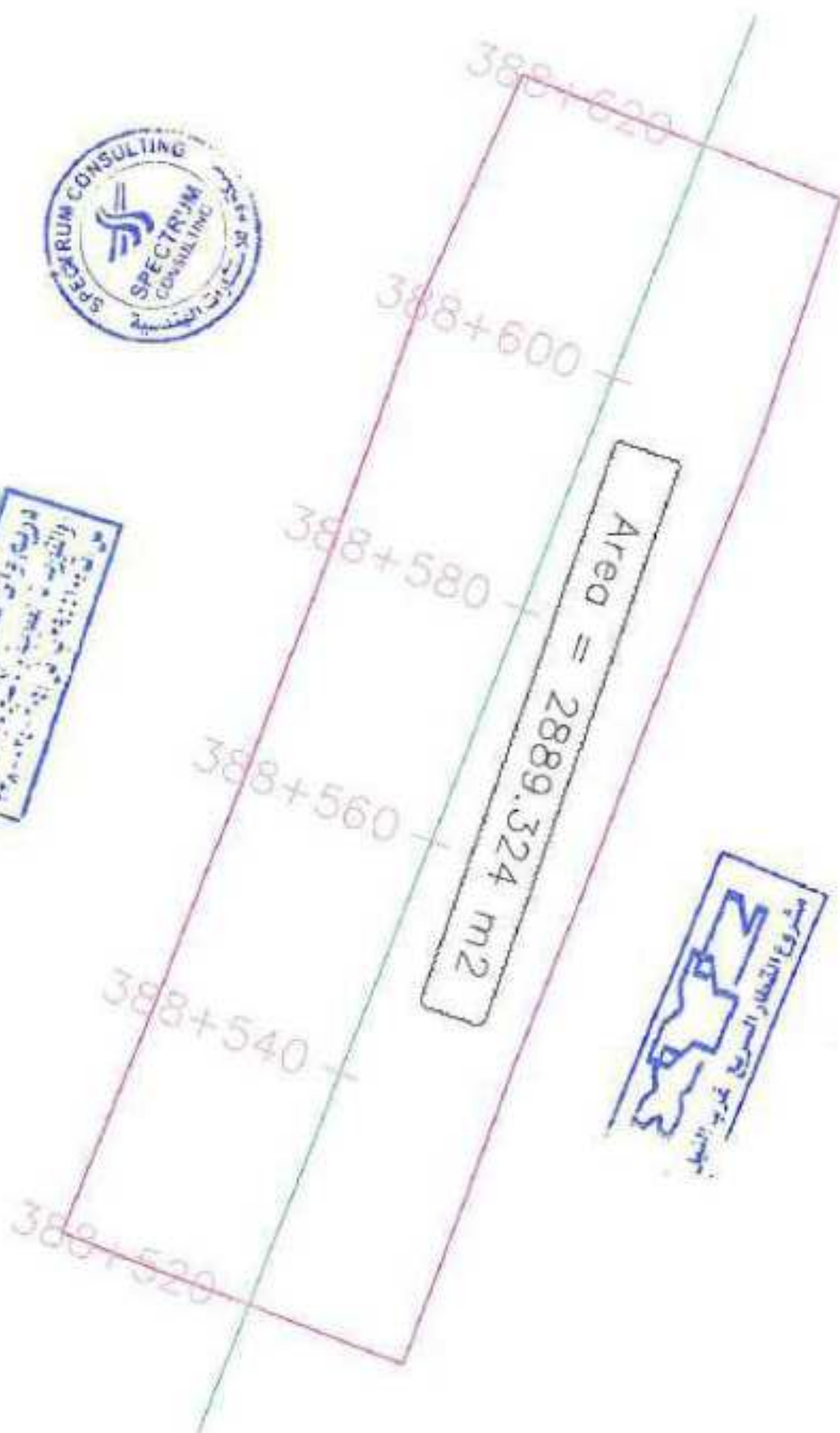
Contractor	  Electrical Express Train from Borg Al Arab to Alameda From Station 388+000 To Station 389+000				Serial No. IR G-(05)
	 مكتب (د) هندسة شيل				Date 21 / 11 / 2022
Works Inspection Request					
We request your attendance to inspect the following works :					
Discipline : ☐ Civil/Highway/Structure ☐ Structure ☐ Drainage ☐ Survey					
Location :		Zone	From Station	To Station	Level
		DRAIN WAY	388+530	388+620	
References		Drawing: ZET-BORG EL ARAB REV 29 Plan Profile Specification: BET C.C. Earthworks Specifications and Testing Report			
Purpose of the inspection					
☐ Surveying ☐ Soil/Asph ☐ Drain ☐ Waterway					
Attachments 1- TESTING REPORT 2- PLAN					
Works To be inspected GEOTEXTILE LAYER FROM 388+530 TO 388+620 AFTER REMOVE THE SOIL LAYER AND INCREASE THE LEVEL OF FILTER LAYER FROM 6.75 TO 7.00 WITH OVERLAP=30CM AREA=3336.33 SQM					
Submitted by:		DREAM WAY		Name:	Signature: 
Receiving Consultant Engineer's Comments:				Date of inspection: / /	
The works are : ☐ Approved (A) ☐ Approved as noted (AN) ☐ Rejected as noted (RJ) ☐ Rejected (R)					
Name:				Signature:	
GARP Consultant Engineer's Comments:				Date of inspection: / /	
The geotextile layer is accepted.					
The works are : ☒ Approved (A) ☐ Approved as noted (AN) ☐ Rejected as noted (RJ) ☐ Rejected (R)					
Name: <u>MaZen Gamy</u>				Signature: 	
General Consultant's Comments:				Date:	
1- See / plan of the (29) should be approved from SYST AD to Calculate the Area. 2- Re-laying a layer of Geotextile because of increasing of water level. 3- Final approval is subject to above mentioned comments. 4- Quality test checked in Third Party Lab.					
The works are : ☐ Approved (A) ☐ Approved as noted (AN) ☐ Rejected as noted (RJ) ☐ Rejected (R)				Signature: 	
Name: <u>Abu Hattalia</u>				Date: 21 / 11 /	
GARP Engineer's Comments:				Date:	
Name:				Signature:	
General Consultant Eng.				GARP Eng.	



مجلس إدارة
الهيئة العامة
للتنظيم والإدارة
بمحافظة القاهرة
مصر



Area = 2889.324 m²





NATIONAL RESEARCH CENTER
TAHRIR ST. DOKKI CAIRO EGYPT

المركز القومي للبحوث

القاهرة - القاهرة - جمهورية مصر العربية
إدارة البحوث تحت المظلة العامة
شعبة بحوث الدراسات التطبيقية

معهد بحوث وتكنولوجيا النسيج

Test Report No.: 152-2022

اختبارات خيوط النسيج



بيانات العميل

شركة دريم وائي

اسم المشروع: مشروع القطار السريع برج العرب - العالمين
الاستشاري: مكتب سيكترم للاستشارات الهندسية (مقدم العينة)

بيانات العينة

تاريخ الاستلام: ٢٠٢٢/١٠/٢٠	الظروف البيئية للاختبار: جو الغرفة
تاريخ التقرير: ٢٠٢٢/١١/٠٦	وصف العينة: أجزاء بعض الخيوط CBR puncture resistance على حبة قماش شاور منسوج grey اللون

نتيجة الاختبار

Test	Test Method	Sample repeat	Result	Unic	Uncertainty		Conformity	
					Result	Unit	Com-pliance	Item
CBR puncture resistance	ASTM D 6241	1	2260.00	N				
		2	2354.40					
		3	2352.00					
		4	2266.11					
		5	2209.70					
Final result		AVE	2288.44					

* هذه النتيجة تخص العينات المرفقة وتصلحها لأن تكون أخرى في مسجلة جهة تقديم العينة.
* لا يجوز استخدام هذا التقرير في ادعاء أو الاعتراض عن المنتج إلا بعد الرجوع إلى المركز والاتفاق على ذلك.
* يتم الاحتفاظ بالعينات بعد اختبارها بالمعامل لمدة أقصاها شهر من تاريخ الاختبار.
* التقرير صالح لمدة ١٢ شهرا من تاريخ الاستلام.

بمختصة

الوظيفة	المشرف على الاختبارات	رئيس القسم	وحدة التحليل والاستشارات رئيس مجال التسيير
اسم	أ.د. محمود حمودة الشلتنقيري	أ.د. مروة عاطف علي	أ.د. أميرة محمد الشالبي
التوقيع			
التاريخ			



السادة / شركة هرم وادى

تحية طيبة وبعد...

الموضوع :- بشأن الطلب المقيم من سيادتكم بتاريخ ٢٠٢٢/١٠/١١ لإجراء اختبار هيئة جبروتكتيل.

بالإشارة إلى الموضوع حالية. نشرف بأن أرفق لسيادتكم التقرير الذي أعد بواسطة :-

أ/د اشرف حسين الخرازي بقسم خدمة الغزل والنسيج وذلك من خلال المركز الهندسي.

مع خالص احترامي وتقديرى

المدير التنفيذي للمركز الهندسي
كلية الهندسة - جامعة الإسكندرية

أ/د زياد محمد طارق الصياد



تاريخ الإصدار: ٢٠٢٢/١٠/١١
الرجوع





جامعة الإسكندرية

المركز الهندسي بالكلية الهندسية

Customer: شركة نعيم والى

Sample type: Non-Woven Fabric

Test Type	Sample Number	Result
Grab Tensile Strength (N) ASTM D4632	Sample 1	1010.61
	Sample 2	1105.07
	Sample 3	964.83
	Average	1026.84
Grab Elongation (%) ASTM D4632	Sample 1	77.54
	Sample 2	77.2
	Sample 3	79.6
	Average	78.11
Bursting strength (kPa) ASTM D3786	Sample 1	2124.1
	Sample 2	2305.5
	Sample 3	2328.1
	Average	2252.6
Mass per unit area (g/m ²) ASTM D5261	Sample 1	450
	Sample 2	450
	Sample 3	450
	Average	450



The laboratory is responsible only for the samples provided
The samples provided are the responsibility of the supplier
The results have a tolerance $\pm 5\%$

Approved:
Prof. Dr. Ashraf Hussein Ahmed

مركز استشارات الهندسية
جامعة الإسكندرية
الكلية الهندسية



معهد بحوث وتكنولوجيا النسيج

معمل اختبارات خامات النسيج

Test Report No.: 152-2022

بيانات العميل

شركة دريم واى

اسم المشروع: مشروع المطار السريع برج العرب - العالمين
الاستشاري: مكتب سبيكترم للاستشارات الهندسية (سند العينة)

دريم واى للمقاولات العامة
الشارع: المقصورة ١٠٠٠٠٠٠٠٠
م. ت. ٢٢٨-٠٢٤-٢٠١٠

بيانات العينة

تاريخ الاستلام: ٢٠٢٢/١٠/٣٠	الظروف البيئية للاختبار: جو الغرفة
تاريخ التقرير: ٢٠٢٢/١١/٠٦	وصف العينة: إجراء بعض اختبارات CBR puncture resistance على عينة فماش غير منسوجة grey اللون

نتيجة الاختبار

Test	Test Method	Sample repeat	Result	Unit	Uncertainty		Comments	
					Result	Unit	Compliance	Notes
CBR puncture resistance	ASTM D 6241	1	2260.00	N				
		2	2354.40					
		3	2352.00					
		4	2266.11					
		5	2209.70					
Final result		AVE	2288.44					



* هذه النتيجة نفس العينات المقدمة وتمثلها لأي كمية أخرى هي مسؤولة جهة تقديم العينة.
* لا يجوز استخدام هذا التقرير في الدعاية أو الإعلان عن المنتج إلا بعد الرجوع إلى المركز والاتفاق على ذلك.
* يتم الاحتفاظ بالعينة بعد اختبارها بالمعمل لمدة أقصاها شهر من تاريخ الاختبار.
* التقرير صالح لمدة عام من تاريخ الاستلام

بمصادق

الوظيفة	المشرف على الاختبارات	رئيس القسم	وحدة التحاليل والاستشارات رئيس مجال النسيج
اسم	أ.د. محمود حمودة الشقيري	أ.د. مروة عاطف علي	أ.د. أميرة محمد الشافعي
التوقيع			
التاريخ			

السادة / شركة دريم واى

تحية طيبة وبعد...

الموضوع :- بشأن الطلب المقدم من سيادتكم بتاريخ ٢٠٢٢/١٠/١١ لإجراء اختبار عينة جيوتكستايل.

بالإشارة إلى الموضوع عالية. نقشرف بأن نرفق لميادتكم التقرير الذي أعد بواسطة :-

ا.د/ اشرف حسين النحراوى بقسم هندسة الغزل والنسيج وذلك من خلال المركز الهندسى.

مع خالص احترامي وتقديري،،

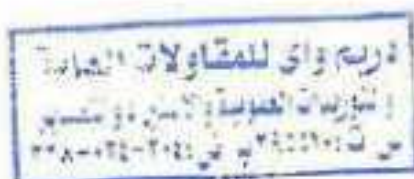
المدير التنفيذي للمركز الهندسى

كلية الهندسة - جامعة الاسكندرية

ا.د/ زياد محمد طارق الصياد



تحريراً في :- ٢١ أكتوبر ٢٠٢٢
حزق





Customer: شركة دريم واي

Sample type: Non-Woven Fabric

Test Type	Sample Number	Results
Grab Tensile Strength (N) ASTM D4632	Sample 1	1010.61
	Sample 2	1105.07
	Sample 3	964.83
	Average	1026.84
Grab Elongation (%) ASTM D4632	Sample 1	77.54
	Sample 2	77.2
	Sample 3	79.6
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	Sample 2	2305.6
	Sample 3	2328.1
	Average	2252.6
Mass per unit area (g/m ²) ASTM D5261	Sample 1	450
	Sample 2	450
	Sample 3	450
	Average	450

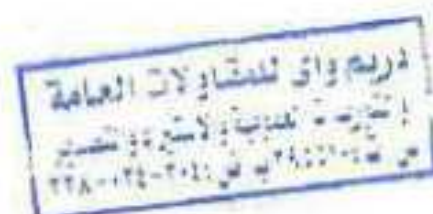
The laboratory is responsible only for the samples provided

The samples provided are the responsibility of the supplier

The results have a tolerance $\pm 5\%$.

Approved:

Prof. Dr. Ashraf Hussein Ahmed



MATERIAL APPROVAL REQUEST		    										
Contractor Company	Dream way		Designer Company	(SPECTRUM) Engineering Consulting Office								
Issued by Contractor	Name	Sign	Date/Serial Number	Time								
	Eng. Saeed Mohamed		16/10/2022 (55-B-DW) (Q.T-12-02)	1:00								
Received by GARIB CONSULTANT	Eng. Mazen Esamy		MAR	<table border="1"> <tr> <td>128</td> <td>EW</td> <td>CS</td> <td>17</td> <td>10</td> <td>2022</td> <td>1</td> <td>0</td> </tr> </table>	128	EW	CS	17	10	2022	1	0
128	EW	CS	17	10	2022	1	0					
CODE X	S1 to S21 Station Reference		D1 to D8 Dugout Reference		Kp XXX Note For Kilometer point only Start, Km is used							
CODE Y	Work Activity											
CODE Z	Sub Element of Activity											
Description of Materials	Embankment											
Location to be Used	المشون											
Sample only	yes	Materials Type	Replacement									
Supplier Name	EL-SEEWY	Data Sheet provided										
Reference in BoQ		Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CINECON GROUP									
Prequalification reference		Test Samples Results										
Reference Photos	No	Other										
Comments by: Eng. Mazen Esamy (SPECTRUM) 1-Quality test Result By Site laboratory IS THIS SAMPLE REPRESENTATIVE (5000) M ³ ONLY 		Comments by: Eng. Alaa Abd-Allatif (ER) 1-All tests were carried-out by Site laboratory 2-Results report attached and acceptable with the project specifications.										
APPROVAL STATUS												
Organisation	Name	Sign	Date	A-AWC-R								
Contractor	Eng. Saeed Mohamed		17/10/2022	A								
QA/QC *	Eng. Mazen Esamy			A								
GARB **	Eng. Margret											
Employers Representative	Eng. Alaa Abd-Allatif			A								

* Designer
** Alignment/Bridges: Client only



Electrical Express Train From Berg Alarab to
Alamein
From Station 388+000 To Station 389+000



Serial No.
QT
(1-2)



الهيئة العامة للنقل



Date
17/ 10 /2022

Material Inspection Request

We request your attendance to inspect the following works :

Discipline : ☐ Bridge/structure ☐ Station ☐ Dockage ☐ Sewer

Location : **Zone** **VOLUME**
DREAM WAY **8000 M3**

References Drawing: EET-SONG EL ARAB REV29 Plan Profile Specification: EET L1.1 Earthworks Specifications and Testing Report

Purpose of the inspection

1. Earthworks

- ☐ Retain Soil Grade ☐ Soil Filling
☐ New Embankment ☐ Slope
☐ L / R Embankment ☐ Excavation

Attachments

1- Quality test report soil Material

Materials to be Inspected **Quality Test For Soil by site laboratory**



Submitted by: **DREAM WAY**

Signature: *[Signature]*

Date of Inspection: / /

GAAP Consultant Engineer's Comments :

The quality test result by site laboratory is ok
This sample representative 500cm³ only.
The contractor must send another sample to third party laboratory

The works are : ☒ Approved (A) ☐ Approved as noted (B) ☐ Rejected (C) ☐ Rejected (D)

Name: **Hazen Esamy**

Signature: *[Signature]*

Date: / /

General Consultant's Comments:

for information only
one sample was selected for Quality Test and carried out by Contractor and GAAP consultants. Results attached found is ok.
final approval is subjected to above mentioned comment.

The works are : ☒ Approved (A) ☐ Approved as noted (B)

Name: **Alan Abdelkhalik**

Signature: *[Signature]*

Date: 21/10/

GAAP Engineer's Comments:

Name:

Signature:

General Consultant Eng.

GAAP Eng.



Electrical Express Train From Borg Al arab to Alamein

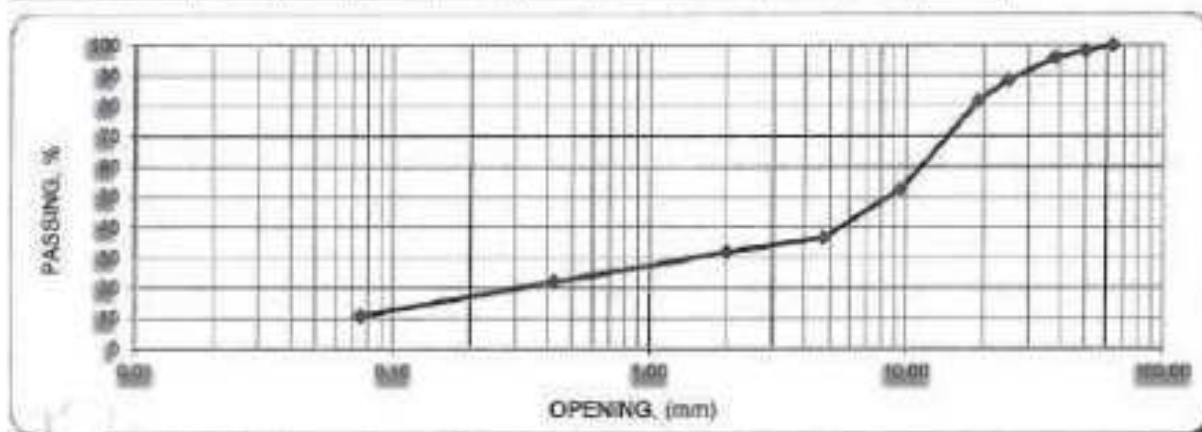
Company:	Dream Way	Sample No:	1
description:		Sample Date :	17/10/2022
Station Represented :	توريدات المحجر	Report Date:	17/10/2022

SOIL CLASSIFICATION / ATTERBERGS LIMITS

(ASTM:D-424/ / AASHTO :T-90-80)

Source of Tested Material	
---------------------------	--

Sieve No.	25 in.	20 in.	15 in.	10 in.	3/4 in.	3/8 in.	No.4	No.10	No.40	No.200
Opening (mm)	63.50	50.00	38.00	25.00	19.00	9.50	4.75	2.00	0.425	0.075
Passing, %	100.0	98.2	95.9	88.7	81.5	52.7	36.6	31.9	22.0	10.8



Atterberg Limits	LL	0.0	Max. 15	PL	0	PI	0.0	(Max. 6)
------------------	----	-----	---------	----	---	----	-----	----------

SOIL CLASSIFICATION :	A-1-A	عديمه اللدونه
-----------------------	-------	---------------

GARP Consultant Engineer's Comments :

Lab Contractor Eng.:-

[Signature]

Spectrum Consultant Eng.:-

[Signature]



Electrical Express Train From BORG ALARP City to EL ALAMEIN

Laboratory Compaction Characteristics (Proctor) of Soil Sample

ASTM D 1557 - Method "C" 6 in. mold, 5 equal layers, each compacted by 56 blows
Using 10 lb. rammer dropped from 18 in. high, Producing a compactive effort of 58000 ft-lb/ft³

Sampling Date : 16-10-2022

Testing Date :

16/10/2022

Source of Soil

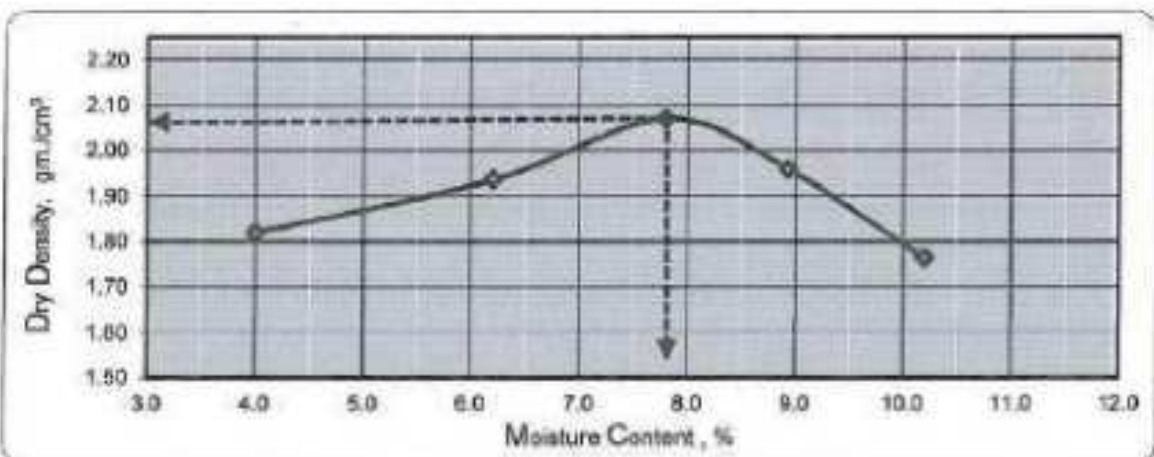
توريدات الحجر

Classification, according to AASHTO M145

A-1-a

Weight of PROCTOR Mould, gm	6365	Volume of PROCTOR Mould, cm ³	2225
-----------------------------	------	--	------

Point No.	1	2	3	4	5
Weight of Soil + Mould, gm	10,576	10,941	11,332	11,113	10,559
Wet Density, gm/cm ³	1.893	2.057	2.232	2.134	1.945
Weight of Wet Soil Portion, gm	150.0	150.0	150.0	150.0	150.0
Weight after Drying, gm	144.0	140.7	138.3	136.6	134.7
Moisture Content, %	4.0	6.2	7.8	8.9	10.2
Dry Density, gm/cm ³	1.820	1.937	2.071	1.959	1.763



Max. Dry Density =

2.071

gm/cm³

Optimum Moisture Content = 7.8%

CONSULTANT COMMENTS

A.C. Lab contractor Eng.:

Name :-

Signature :-

spectrum Q.C Consultant Eng.:

Name :-

Signature :-



الهيئة القومية للإسكان



Electrical Express Train from BORG ALARP city to EL ALAMIN

CBR (CALIFORNIA BEARING RATIO) of LABORATORY-COMPACTED SOILS

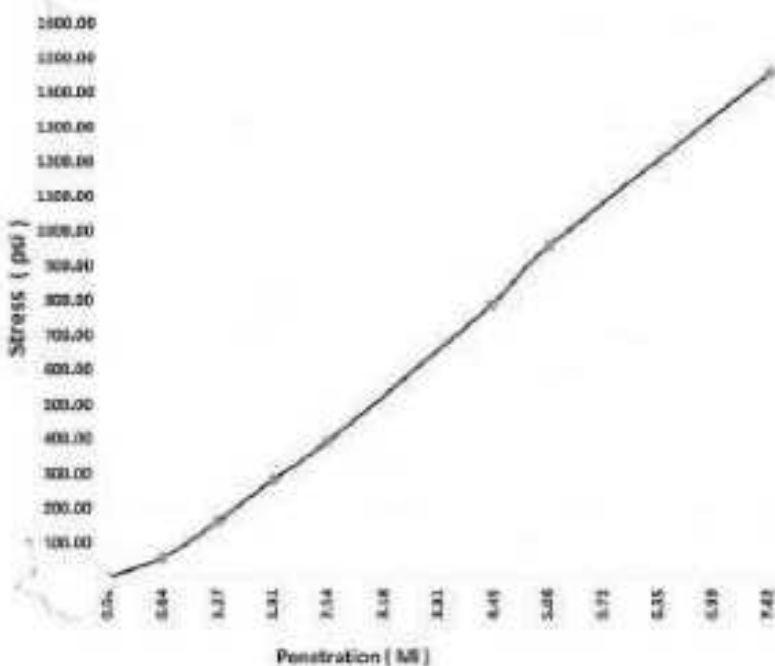
Ref.: ASTM D 1583 & D 1557 — AASHTO T-180 (Method D) & AASHTO T-193

SAMPLING DATE : 17/8/2022	TEST DATE : 20/10/2022	STATION	تريم واي
---------------------------	------------------------	---------	----------

DENSITY DETERMINATION		MOISTURE CONTENT		Swell	
Proctor Density	2.071	Moisture Content %	7.8	Swell Percent %	0.7

Results of (65) Blows after Soaking for 4 days

PENETRATION vs. UNIT Load (STRESS) CURVE (65 blows)



Penetration (mm)	Penetration (in.)	Reading (0.01 ml)	Stress (psi)
0.000	0.000	0	0.00
0.640	0.025	25	57.46
1.270	0.050	50	162.77
1.910	0.075	75	283.29
2.540	0.100	100	394.38
4.400	0.175	125	786.55
6.080	0.200	150	958.08
7.620	0.300	175	1458.08

CBR, % at 0.1 in. Penetration	29.00	CBR, % at 0.2 in. Penetration	47.00
Corrected CBR, % at 0.1 in. Penetration		Corrected CBR, % at 0.2 in. Penetration	



Lab controller Eng.:-

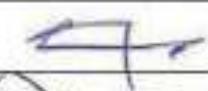
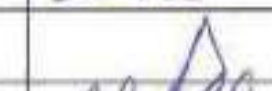
ame >

Signature :-

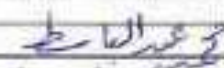
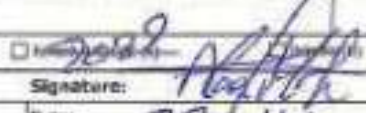
SGAC Q.C. Consultant Eng.:-

Name >

Signature >

MATERIAL APPROVAL REQUEST		    																					
Contractor Company	Dream way	Designer Company	(SPECTRUM) Engineering Consulting Office																				
Issued by Contractor	Name	Date/Serial Number	Time																				
	Eng. Saeed Mohamed	16/11/2022 (S5-B-DW) (Q.T-15-01)	1:00																				
Received by QA/QC CONSULTANT	Eng. Mazen Esamy	MAZ	<table border="1"> <tr> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> </tr> <tr> <td>28</td> <td>29</td> <td>30</td> <td>31</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> </tr> </table>	11	12	13	14	15	16	17	18	19	20	28	29	30	31	1	2	3	4	5	6
11	12	13	14	15	16	17	18	19	20														
28	29	30	31	1	2	3	4	5	6														
CODE	S1 to S21	01 to 51	Sp. XXX Note																				
	Station Reference	Depot Reference	For Kilometer point only Start Km is used																				
	Work Activity																						
	Sub Element of Activity																						
Description of Materials	Embankment																						
Location to be Used	المشور																						
Sample only	yes	Materials Type	Replacement																				
Supplier Name	EL-SEEWY	Data Sheet provided																					
Reference in BoQ		Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP																				
Prequalification reference		Test Samples Results																					
Reference Photos	No	Other																					
Comments by: Eng. Mazen Esamy (SPECTRUM/M) 1-Quality test Result By THIRD PARTY LABORATORY IS THIS SAMPLE REPRESENTATIVE (5000) M ³ ONLY		Comments by: Eng. Alaa Abd-Allatif (ER) 1-All tests were carried-out by Third party laboratory (COMIBASSAL) 2-Results report attached and acceptable with the project specifications.																					
APPROVAL STATUS																							
Organisation	Name	Sign	Date	A-AWC-R																			
Contractor	Eng. Saeed Mohamed		17/11/2022	A																			
QA/QC *	Eng. Mazen Esamy			P																			
GARB**	Eng. Margret																						
Employers Representative	Eng. Alaa Abd-Allatif			A																			

* Designer
** Alignment/Bridges/Culvert only

Contractor			Electrical Express Train From Borg Al Arab to Alameda From Station 300-000 To Station 309-000				Serial No. QT (7-2)
			مكتب أ.د/ عبد الحليم				Date 17/11/2022
	Material Inspection Request						
	We request your attendance to inspect the following works :						
Discipline : ☐ Bridge/Pier/Abutment ☐ Structure ☐ Drainage ☐ Tunnel							
Location :		Zone : DREAM WAY		Volume : 20000 m3			
Reference :		Drawing : ETT-BORG EL ARAB REV20 Plan Profile		Specification : ETT L.S.Earthworks Specifications and Testing Report			
Purpose of the Inspection							
1. Earthwork :							
☐ Natural Sub-Grade ☐ Sub-Grade ☐ Upper Gravelment ☐ Slope ☒ L / H Embankment ☐ Excavation							
Attachments							
1-quality test report soil material							
							
Materials to be Inspected :		Quality Test For Soil by compaction					
Submitted by:		DREAM WAY		Signature: 			
GARP Consultant Engineer's Comments :				Date of Inspection :			
the Quality Test Results by Third Party Lab Comibassal is ok. This sample Represents 5000 m³ only							
The works are : ☐ Approved (A) ☐ Approved as Noted (B) ☐ Rejected/Revised (C) ☐ Rejected (D)							
Name: Maron Gamy				Signature: 			
General Consultant's Comments:				Date:			
(1) one sample was selected for Quality Test. (2) Quality Test was carried out by Third Party Comibassal. (3) Results attached found acceptable and completely with project. (4) final approval is subjected to above mentioned comment.							
The works are : ☐ Approved (A) ☐ Approved as Noted (B) ☐ Rejected/Revised (C) ☐ Rejected (D)				Signature: 			
Name: Alaa Abdelkader				Date: 27/11			
GARP Engineer's Comments:				Signature:			
Name:				Signature:			
General Consultant Eng.				GARP Eng.			

Consultants



COMIBASSAL International Controllers

ISO 9001:2015 حاصلة على شهادة الأيزو

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

متمد لدى الهيئة المصرية العامة للبترول
تحت رقم ٢٤/٢٩-١١/٢٠١١

PARTICLE SIZE DISTRIBUTION ANALYSIS

ASTM C136 & AASHTO T27- (Drying Samples)

PROJECT:

Electric Express Train

DATE: 17/11/2022

General Consultant :- SYSTRA

Consultant :- SPECTRUM

CONTRACTOR: شركة دريم واي

Material / Source of Soil :-

Filling Soil.

LAB. REF. Q.C. 1728/1



CLAY and SILT (Finer)		SAND			GRAVEL	COBBLES
1.0		12.0			87.0	
SAMPLE No.	DEPTH (m)	MOISTURE (%)	LL (%)	PI (%)	CLASS	SOIL DESCRIPTION
Filling Soil.			26.0	1.8	A-1-a (0)	Well graded Gravel (GW)
D10= 2.80	D30= 12.0 D60= 23.0	Cu = D60/D10= 8.21 Cc = (D30) ² / (D10 * D60)= 2.24				
Remarks:	AASHTO (T87) SOIL CALSSIFICATION SYSTEM - A-1-a (0) Stone Fragments, Gravel and Sand.					
Soil Classification:	ASTM (D421) SOIL CALSSIFICATION SYSTEM - Well-graded Gravel (GW)					

Tested By : Mostafa

Checked By : Eng. Eman E. Kandil

Eman





COMIBASSAL International Controllers

الجمعية التعاونية الاستشارية لأعمال الوزن والمراجعة والطبقة الدولية (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2008

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للقياس
تحت رقم ٢٩/٢٤-٢٠١١/١١

Report : 1728/2/Center
Date : 17/11/2022

Report Of Liquid limit and Plastic Limit Test ASTM- D 4318

General Consultant :

Consultant :

Contractor :

Project :

Sample :

Date of Test :

SYSTRA

SPECTRUM

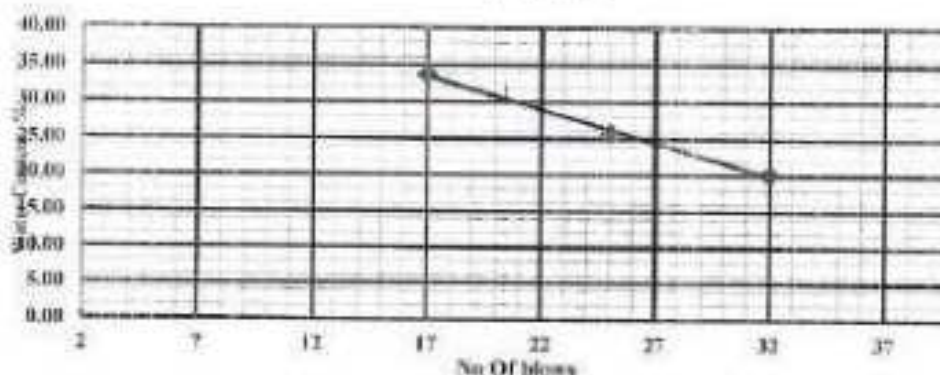
شركة ايم واي

Electric express train

Filling Soil

17/11/2022

Results



No. of blows	32	25	17
Wt. before drying	44.7	45.9	44
Wt. after drying	37.2	36.5	32.9
Water Content %	20.2	25.8	33.7
(A) . L.L at blow no.25 =			26.0%

Wt. before drying	5.7	5.3	5.9
Wt. after drying	4.6	4.3	4.7
Water Content %	23.9	23.3	26.5
(B) . P.L =			24.2%

P.I = (A-B) =	1.8%
---------------	------



Genl. Eng. Department.

Eng. Eman E. Kandil

الإدارة: 40 سفية زغلول - الإسكندرية - مصر

ت. ٤٨٧٠٥٧٣ - فاكس: ٤٨٦٩٧٠٨ - ٤٨٧٠٦٦٥

40safia zaghioul st., p.o.Box 157 Alex, Egypt

Tel:4870573 - Fax * Tel : 4869708 - 4870665



القطاع: خلف ٤٩ طريق الحرية - الإسكندرية - مصر

ت. ٣٩٠٤٧٦ - ٣٩٣١٤٨٢ - ٣٩٠٤٧١٦

49 EL Horria Ave. -Alex, Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail : internal - inspection@comibassal.com



COMIBASSAL International Controllers

الجمعية التعاونية الانتاجية لأعمال الوزن والمراجعة والتجربة الدولية كوميباسال

حاصلة على شهادة الأيزو ISO 9001:2008

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

بمقتضى لدى الهيئة المصرية العامة للبترول
تحت رقم ٢٤ / ٢٩ / ١١٠٢٠١١

Report No. : 1728 - 3 - center

Date : 27/11/2022

Proctor Test Report

ASTM - D 698

General consultant :
Consultant :
Contractor :
Project :
Sample :
Date of Test :

SYSTRA

SPECTRUM

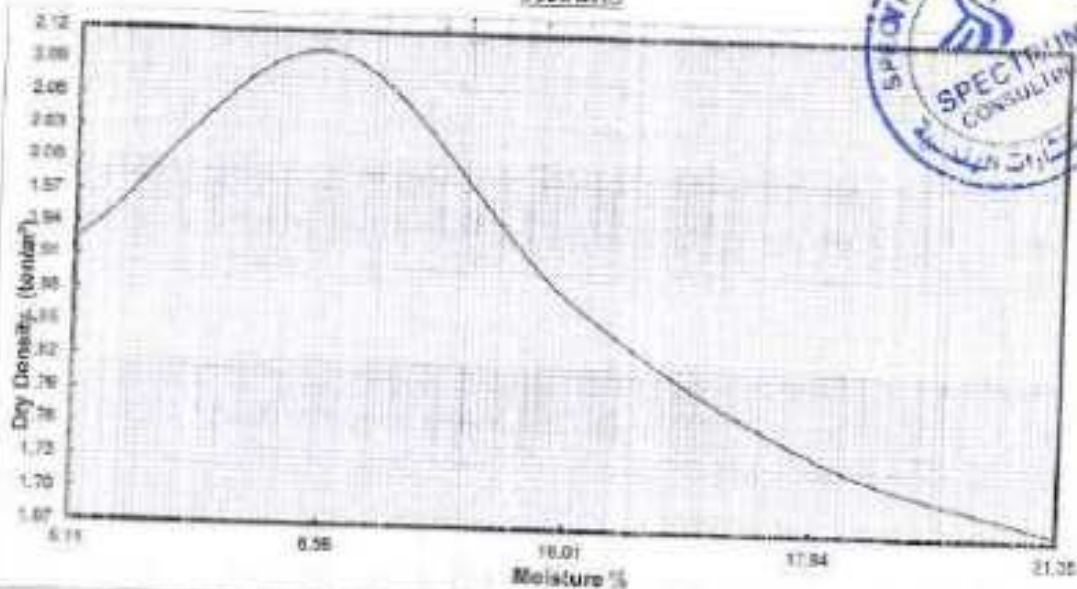
شركة نريم واى

Electric express train

Filling Soil

17/11/2022

Results



moisture content (%)	5.11	8.56	16.01	17.84	21.35
Dry Density (ton/m³)	1.92	2.10	1.88	1.74	1.67
Max. Dry Density (ton/m³)	2.10				
optimum moisture cont. (%)	8.56				



Civil. Eng Department

Eman

Eng : Eman. E. Kandil

الإدارة: ٤٠ ش سفية زغلول - الإسكندرية - مصر

ت. ٤٨٧٠٥٧٢ - ف. ٤٨٧١٣٩٨ - ٤٨٧٠٦٦٥

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Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع: ١٩ شارع طريق الحرية - الإسكندرية - مصر

ت. ٣٩٠٠٤٧١ - ف. ٣٩٢٦٤٨٢ - ٣٩٢٠١٧٦

49. EL Horria Ave. - Alex, Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

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COMIBASSAL International Controllers

الجمعية المتكاملة للتحكم في الجودة والبيئة والسلامة والموثوقية

حاصلة على شهادة الأيزو ISO 9001:2008

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للبترول
تحت رقم ٢٠١١/١١٠٢٩/٢٤

Report no : 1728 / 4 / center
Date : 27 / 11 / 2022

Report Of C.B.R TEST ASTM - D 1883

General Consultant :

Consultant :

Contractor :

Project :

Sample :

Date of Test :

SYSTRA

SPECTRUM

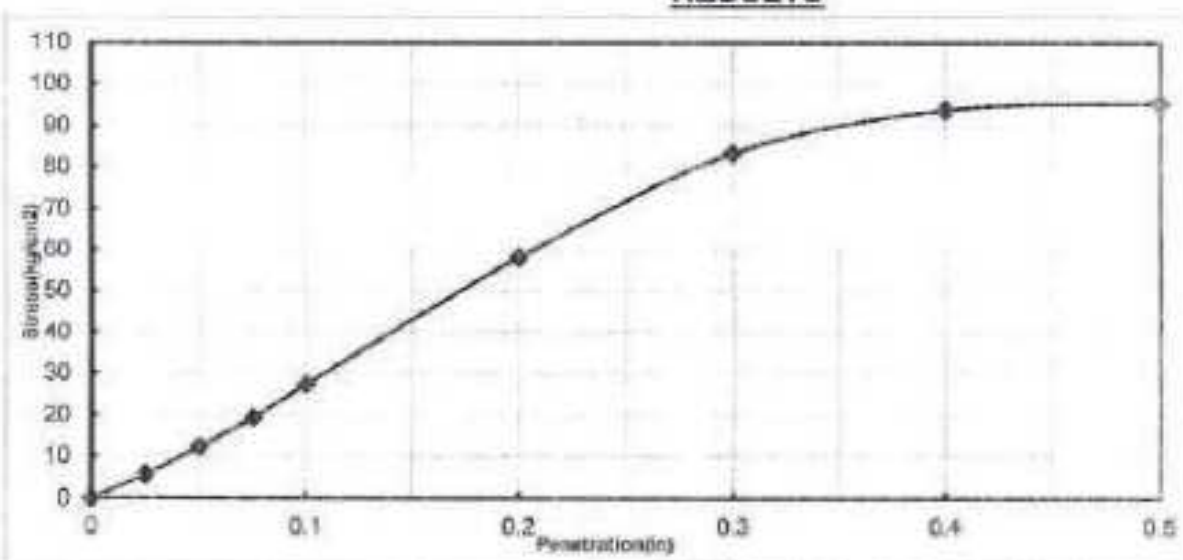
شركة تريم وائى

Electric express train

Filling Soil

21/11/2022

RESULTS



Penetration (Inch)	0	0.025	0.05	0.075	0.1	0.2	0.3	0.4
stress (1st phase) (kg/cm²)	0	6.032	14.82	21.84	26.52	52	78.28	91.28
stress (2nd phase) (kg/cm²)	0	8.2	9.62	16.54	28.08	64.22	88.4	96.2
Average stress (kg/cm²)	0	6.616	12.22	19.382	27.3	58.11	83.33	93.73

C.B.R = 55.0 %



Civil Eng. Department.

Eman

Eng : Eman E. Kandil

الإدارة: ٤٠ شارع صفية زغلول - الإسكندرية - مصر

ت: ٤٨٧٠٣٧٢ - فاكس: ٤٨٧٩٩٨٨ - ٤٨٧٠٦٦٥

40safia zaghloul st., p.o.Box 157 Alex, Egypt

Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع: ٤٩ طريق الحرية - الإسكندرية - مصر

ت: ٣٩٢٠١٧٦ - ٣٩٢١٤٨٢ - ٣٩٠٠٤٧٦

49 EL Horria Ave. - Alex, Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail: internal - inspection@comibassal.com

																	
MATERIALS APPROVAL REQUEST		Contractor Company Dream way		Issued by Eng. Saeed Mohamed		Received by GAB Eng. Mazen Essam		Design Company (SPECTRUM) Engineering Consulting Office		Date/Serial Number 18/11/2022		Time 1:00		Signature 		Stamp 	
Issued by Eng. Saeed Mohamed		Received by GAB Eng. Mazen Essam		Design Company (SPECTRUM) Engineering Consulting Office		Date/Serial Number 18/11/2022		Time 1:00		Signature 		Stamp 		Signature 		Stamp 	
Issued by Eng. Saeed Mohamed		Received by GAB Eng. Mazen Essam		Design Company (SPECTRUM) Engineering Consulting Office		Date/Serial Number 18/11/2022		Time 1:00		Signature 		Stamp 		Signature 		Stamp 	
Issued by Eng. Saeed Mohamed		Received by GAB Eng. Mazen Essam		Design Company (SPECTRUM) Engineering Consulting Office		Date/Serial Number 18/11/2022		Time 1:00		Signature 		Stamp 		Signature 		Stamp 	
Issued by Eng. Saeed Mohamed		Received by GAB Eng. Mazen Essam		Design Company (SPECTRUM) Engineering Consulting Office		Date/Serial Number 18/11/2022		Time 1:00		Signature 		Stamp 		Signature 		Stamp 	
Issued by Eng. Saeed Mohamed		Received by GAB Eng. Mazen Essam		Design Company (SPECTRUM) Engineering Consulting Office		Date/Serial Number 18/11/2022		Time 1:00		Signature 		Stamp 		Signature 		Stamp 	
Issued by Eng. Saeed Mohamed		Received by GAB Eng. Mazen Essam		Design Company (SPECTRUM) Engineering Consulting Office		Date/Serial Number 18/11/2022		Time 1:00		Signature 		Stamp 		Signature 		Stamp 	
Issued by Eng. Saeed Mohamed		Received by GAB Eng. Mazen Essam		Design Company (SPECTRUM) Engineering Consulting Office		Date/Serial Number 18/11/2022		Time 1:00		Signature 		Stamp 		Signature 		Stamp 	
Issued by Eng. Saeed Mohamed		Received by GAB Eng. Mazen Essam		Design Company (SPECTRUM) Engineering Consulting Office		Date/Serial Number 18/11/2022		Time 1:00		Signature 		Stamp 		Signature 		Stamp 	
Issued by Eng. Saeed Mohamed		Received by GAB Eng. Mazen Essam		Design Company (SPECTRUM) Engineering Consulting Office		Date/Serial Number 18/11/2022		Time 1:00		Signature 		Stamp 		Signature 		Stamp 	

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Saeed Mohamed		19/11/2022	A
QA/QC *	Eng. Mouna Essawy			f
GARP **	Eng. Margret			
Employers Representative	Eng. Alaa Abd-Alaziz			A

.. A (Representative: Client only)

 		From Station 388+000 To Station 389+000 Alameda Electrical Expenses Taken From Borg Almadh to		Serial No. 01 (0-2)		Date 19/11/2022	
Material Inspection Request							
We request your attendance to inspect the following works :							
Bid/line : ☐ Detailed Inspection ☐ Routine ☐ Other :							
Location :		DREAM WAY		Zone :		Volume :	
Drawing: SET-BORG EL ALAMA NEW29 PLAN PROFILE		Specification: EBT 1.3 Earthworks Specifications and Testing Report		Quantity: 25000 m3		Purpose of the Inspection	
1. (in) works ☐ New Sub-Grade ☐ Old Sub-Grade ☐ Old Road ☐ Old Bridge ☐ Old Drainage							
Attachments							
1-quality test report soil material							
2-							
3-							
Materials to be inspected: Quality Test For Soil by compass							
Submitted by: DREAM WAY							
Signature: B. Williams							
Date of Inspection:							
The Quality Test Results is ok and was by third party lab (Compass).							
This sample representative for only 5000 m ³ .							
The works are :							
Name: Nazim Emay							
General Consultant's Comments:							
One sample was selected for Quality Test.							
Quality Test was carried out by third party lab (Compass).							
Results attached found acceptable and comply with project.							
Final approval is subjected to above mentioned comment.							
The works are :							
Name: Mr. Hadeed							
General Engineer's Comments:							
Date:							
Signature:							
Name:							
General Consultant Eng.							
Name:							

Copyright © : Eng. Eman E. Kandil

AS 16 (141) SOIL CLASSIFICATION SYSTEM -

ASHITO (187) SOIL CLASSIFICATION SYSTEM -

STATE FLORIDA, COUNTY OF DALLAS, ss. I, _____, Clerk of the Court, do hereby certify that the foregoing is a true and correct copy of the original as the same appears in the records of the Court.

$$D_{60} = 15.0$$

D30 = S2

 $C_u = D60/D_{10} = 5$

646

26.92

(0) A-I-V	7.7
-----------	-----

(d) With Sand (GP)

DEPTH (m)

NOTES

4. 14

CLASS	(%) 14
-------	--------

[illegible]

417

0.71

[illegible]

CLAY and SILT (Fines)

SAND

TRAVEL

COBBLES



Filling Soil

Consistent :- SPECTRUM

Electric Express Train

ASTM C136 & AASHTO 127 - (Driving Samples)

DATE: 19/11/2022

Accredited by:
Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

॥ ॐ नमो भगवते वासुदेवाय ॥
 ॥ श्रीगणेशाय नमः ॥
 ॥ श्रीकृष्णाय नमः ॥

COMIBASSAL International Controllers





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Accredited by:
Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

شركة كومباسال للتحكم
رقم الترخيص: 34/29.11.2011

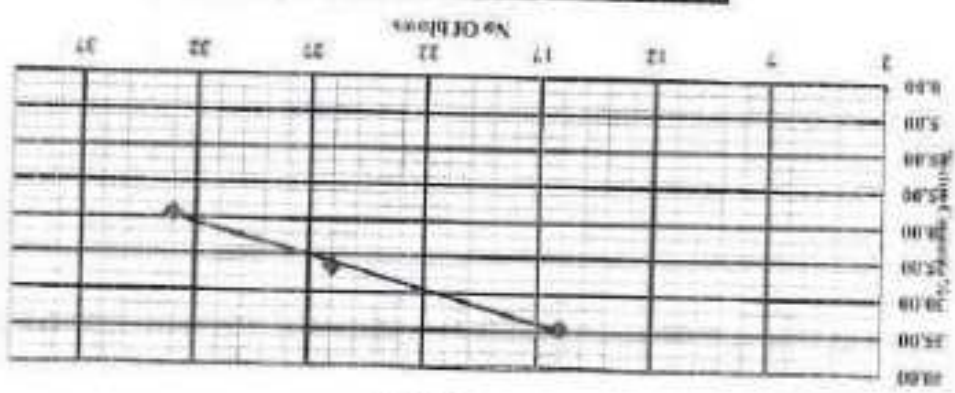
قطاع البترول والغاز

Report : 1729/2/Control
Date : 27/11/2022

Report Of Liquid Limit and Plastic Limit Test ASTM-D 4318

General Consultant :
Consultant :
Contractor :
Project :
Sample :
Date of Test :
Electric express train
Filling Soil
19/11/2022

Results



(A) - L.L. at blow no. 25 =		27.0%	
No. of blows	33	26	16
Wt. before drying	45.1	44.8	43.5
Wt. after drying	37.8	35.4	32.3
Water Content %	19.3	26.6	34.7

(B) - P.L. =		24.8%	
Wt. before drying	5.8	5.9	5.4
Wt. after drying	4.7	4.7	4.3
Water Content %	23.4	25.6	25.6

$$PI = (A-B) = 2.2\%$$



Eng. E. Kandil
Eng. Department



1074 - The Agency - (Jeddah) Saudi Arabia - 11521
40888a zaghafat st - p.o. Box 157 Alex, Egypt
Toll: 4870673 - Fax + Tel : 4869798 - 4870605

49 El Horra Ave - Alex, Egypt
Toll: 3920176 - 3931482 - Fax: 3900476
E-mail: info@comibassal.com



COMIBASSAL International Controllers

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 Accredited by:
 Egyptian General Authority for Petroleum
 Under No: 34/29.11.2011

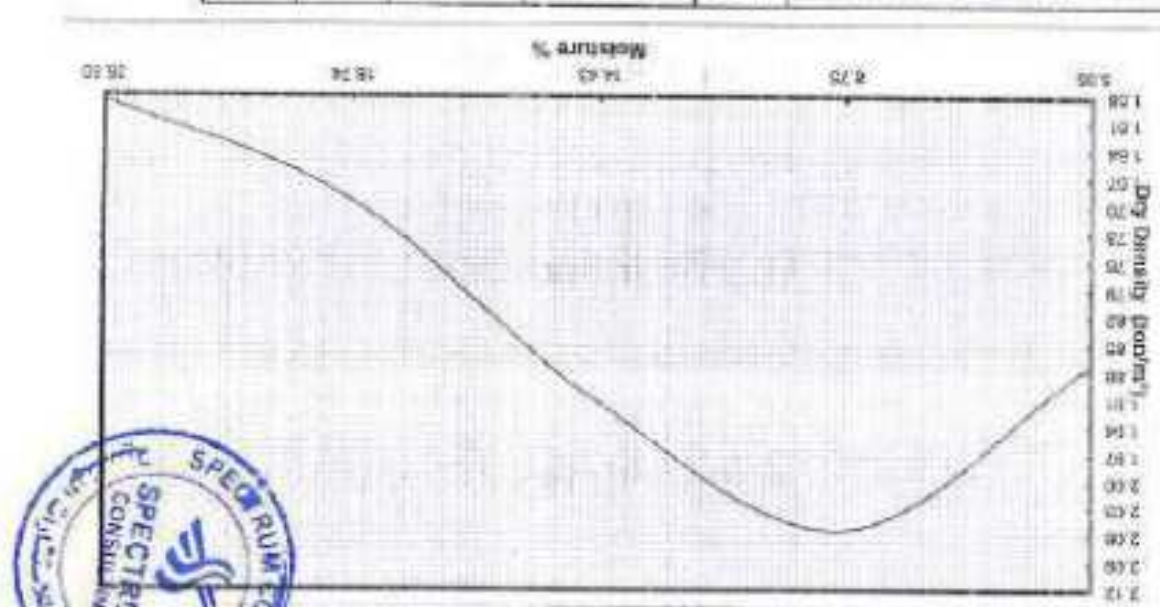
قطاع البترول والغاز
 مصر
 ٢٠١١/١١-٢٠١٢/٠٤

Report No. : 1729 - 3 - center
 Date : 27/11/2022

Proctor Test Report ASTM - D 698

General consultant : SYSTRA
 Consultant : SPECTRUM
 Contractor : شركة بريم وافي
 Project : Electric express train
 Sample : Filling soil
 Date of Test : 19/11/2022

Results



moisture content (%)	5.86	8.75	14.43	18.74	25.50
Dry Density (ton/m³)	1.87	2.05	1.91	1.69	1.58
Max. Dry Density (ton/m³)	2.05				
optimum moisture cont. (%)	8.75				



Civil. Eng Department
 Eng : Eman E. Kandil
 E-mail: eman@comibassal.com



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 E-mail: info@comibassal.com



COMBASSAL International Controllers

ISO 9001:2008 معتمد على الجودة

Accredited by:
Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

مصدق على الجودة
4.11/11.04/12 تحت رقم

مجلس الاعمال والادارة

Report no: 1729 / A / center
Date: 27 / 11 / 2022

Report Of C.B.R TEST ASTM - D 1883

RESULTS

23/11/2022

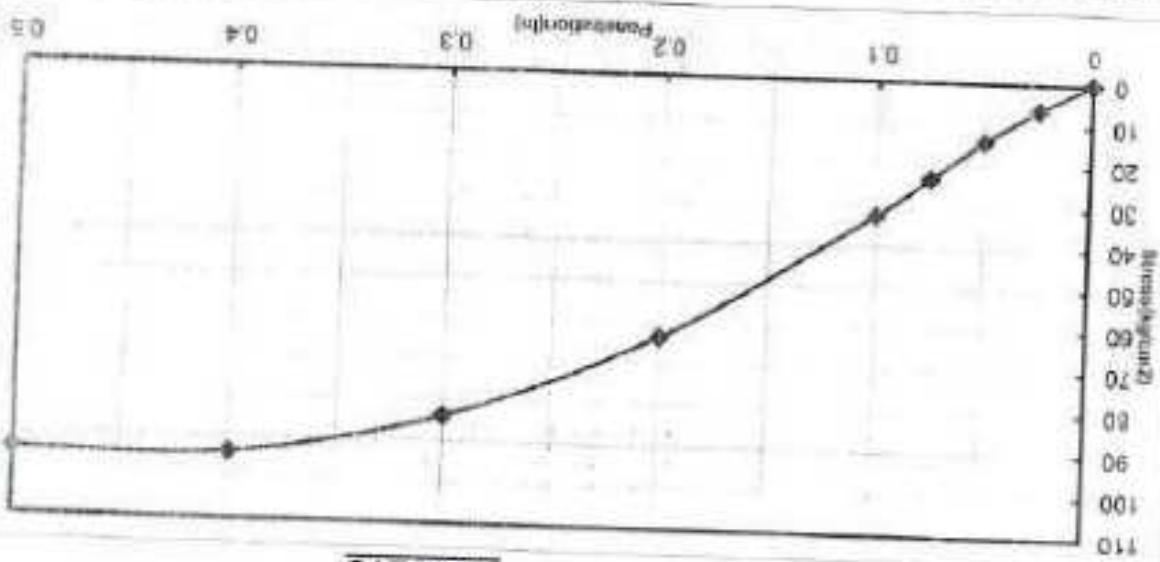
Filling Soil
Electric express train

جربة حديد

SPECTRUM

SYSTRA

General Consultant:
Contractor:
Project:
Sample:
Date of Test:



Penetration (mm)	0	0.025	0.05	0.075	0.1	0.2	0.3	0.4
average (1st phase) (kg/cm²)	0	7.384	17.94	25.74	32.968	52	76.44	96.72
average (2nd phase) (kg/cm²)	0	0.2	10.4	20.80	31.72	76.4	91.26	95.35
Average stress (kg/cm²)	0	0.292	14.17	23.27	32.348	63.7	93.65	95.99

C.B.R = 60.4 %

Civil Eng. Department

Eng: Ennan E. Kandil



1074 - On Highway 7 - Jeddah, Saudi Arabia
40565a Zaghioui st., p.o.Box 157 Alex, Egypt
Tel: 4870573 - Fax + Tel: 4869798 - 4870665
E-mail: info@combasal.com



49 EL Horia Ave - Alex, Egypt
Tel: 3920176 - Fax: 390476
E-mail: info@combasal.com

Contractor Company	Dream Way			Designer Company				SPECTRUM ENGINEER CONSULTING OFFICE			
Issued by Contractor	Name	Sign		Date/Serial Number				Time			
	Eng.SAIED MOHAMMED			16/1/2023				10:00 AM			
				(S5-B-DW) (P.L.T.07)							
Received by GARIB CONSULTANT	Eng.MAZEN ESSAMY		MIR	ST	CS	CS	TO	MM	YY	MM	DD
				388	EW	CS	17	1	2023	10	0

000-2	SA to SP2	01 to 53	Kp XXX Note
	Station Reference	Depart Reference	For Kilometer pole only Start Km is used
000-2	Work Activity		
	Sub Element of Activity		

Description of Materials		FERMA				
Location to be Used	REV.29	388+200	TO	388+300		
	REV.35	388+383.86		388+483.86		
Supplier Name	محاجر السوي - العنبر					
Test Requirement	P.L.T (DIN 18134)		Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CS21-PL2) VERSION 2 BY ORECON GROUP		
Reference Photos	No/Yes		Other	S5-B-DW-IR-5(S2) S5-B-DW-QT(19-1)		
Item	Description		Unit	Quantity	Arrival Date	Note
1	PLATE LOAD TEST		NUMBER	4	18/1/2023	
2						
3						
4						

Comments by: Eng. MAZEN ESSAMY (Spectrum)	Comments by: Eng. Alaa Abd-Allatif (ER)
 1-The Plate Load Test Result (P.L.T. (DIN 18134)) is Approved.	1-P.L.T was carried out by third party lab (CEL). 2-Results report attached and acceptable with project specifications.

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. SAIED MOHAMMED			A
QA/QC*	Eng. MAZEN ESSAMY			A
GARB**	Eng. Margret magdy			
Employer's Representative	Eng. Alaa Abd-Allatif			A

* Designer

** Agreement/Approval Date only

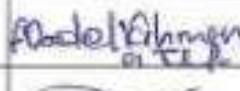
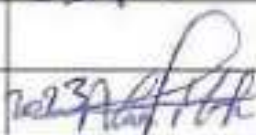
شركة سبكتروم
التقنية والهندسة
محاجر السوي - العنبر
16/1/2023

Contractor Company	DREAM WAY			Designer Company				SPECTRUM Engineering Consulting Office			
Issued by Contractor	Name		Sign	Date/Serial Number				Time			
	Eng. Abdelrahman Ataf			17/1/2023				3:00 PM			
				PLT/08							
Received by GARB CONSULTANT	Eng. Mazen Essamy		MR	C1	C2	C3	DD	MM	YY	HH	MM
				388	EW	ES	18	1	23	3	0

Kilometer	S1 to S23	S3 to S5	Rd Km Mile
	Station Reference	Depot Reference	For Kilometer point only Start Km is used
Activity	Work Activity		
	Sub Element of Activity		

Location to be Used		From	388+200	TO	388+300
MAR		QT(12-2)	Date	20/12/2023	
Supplier Name		ELSEWY , Dream way			
Test Requirement		PLATE LOAD TEST ON FERMA	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (02/2014) VERSION 2 BY CYTECON GROUP	
Reference Photos		No/Yes	Other	UR -5-48	
Item	Description	Unit	Quantity	Arrival Date	Note
1	PLT BY CONSULTING ENGINEERING BUREAU&LABORATORIES	NUMBER	2		
2					
3					
4					

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allah (ER)
 1-The plate load test result by third party is approved.	1-2 points of plt. was carried-out by (CEL) on ferma layer 2-Results report attached and acceptable with project specifications. 3-Final approval is subject to above mentioned comments.

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-B
Contractor	Eng. Abd el rahman ataf			A
QA/QC*	Eng. Mazen Essamy			A
GARB**	Eng. Mohammed Fayad			
Employer's Representative	Eng. Alaa Abd-Allah			AWC

* Designer

** Alignment/Bridges Culvert only

19/101

Contractor Company	AlMotahada 2 CO. for Contracting and Paving Roads			Designer Company	SPECTRUM Engineering Consulting Office		
Issued by Contractor	Name	Sign	Date/Serial Number	Time			
	Eng. Abdelrahman Ataf		17/1/2023 PLT008				
Received by GARB CONSULTANT	Name	Sign	Date/Serial Number	Time			

Kilometer	Station Reference	Diput Reference	KmXXX Note
			For Kilometer point only Start Km is used
Work Activity			
Sub Element of Activity			

Location to be Used	From	388+200	TO	388+300
MAIL		Date	15/1/2023	
Supplier Name	ELSEWY, Dream way			
Test Requirement	PLATE LOAD TEST	Specification	GARBWORK SPECIFICATIONS & TESTING REPORT (G22-41.2) VERSION 2 BY QVECON GROUP	
Reference Photos	No/Yes	Other	uik—	

Item	Description	Unit	Quantity	Arrival Date	Note
1	PLT BY CONSULTING ENGINEERING BUREAU/LABORATORIES	NUMBER	2		
2					
3					
4					

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allah (ER)
1-The plate load test result by third party is approval	1-2 points of plt. was carried- out by (CEL) on ferme layer 2-Results report attached and acceptable with project specifications. 3-Final approval is subject to above mentioned comments.

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Abdelrahman ataf			A
QA/QC *	Eng. Mazen Essamy			A
GARB**	Eng. Mohammed Fayad			
Employers Representative	Eng. Alaa Abd-Allah			

* Designer
 ** Alignment/Bridges: Civil only

Company : شركة دريم واى

Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (8)
- Borg AlArab to Foka

Subject : Determine the deformation and strength characteristics of soil by the plate loading test according specifications DIN 18134:2012-04 and project requirements

Test Location: Station 388+200 to 388+300

Test Date : 17/01/2023

Report Date : 18/01/2023

Type of Soil : A-1-a

Type of soil : Upper Embankment (Ferma).

Report No. : 96/97

درم واى للمهندسات العامة
والتي هي من الشركات المتخصصة
في مجال الاستشارات الهندسية
تحت رقم ٢٧٣٦٧٢٣١ - ٢٧٣٦٣٠٩٣

Dear Gentleman,

According to the above mentioned subject the test performed as follows:-

Apparatus

1. Loading plates consists of two plates with 600 mm and 300 mm diameter
2. The thickness of plates 30 mm
3. Dial gauges with accuracy 0.01 mm to measuring the settlement
4. Steel straightedges with magnetic supports to fixed the dial gauges
5. Hydraulic jack with pump to transfer reactive loads to the loading plates
6. Dial indicator measuring device with scale capacity 700 Bar (Enerbac)
7. Reaction loading system by roller compactor with weight approximately 15 ton
8. Calibration certificates are attached

Test Procedure

1. Clean the ground on test area to the required level with undisturbed soil
2. Install loading plates 600 mm and 300 mm diameter, hydraulic jack and 3 dial gauges
3. Prior to starting the test applied preloading about 30 seconds
4. The strain gauge and the dial gauge shall be set to zero
5. For a 600 mm loading plate, the limit values are 2.5 kg/cm²
6. The load shall be applied in six stages, in approximately equal increments, until the required maximum normal stress is reached.
7. Each change in load (from stage to stage) shall be completed within one minute
8. The load shall be released in 3 stages, to 50 % , 25 % , and approximately 2 % of the maximum load.
9. Following unloading, a further (2nd) loading cycle shall be carried out, in which, however, the load is to be increased only to the penultimate stage of the first cycle (so that the full load is not reached).
10. At each stage the load shall be maintained until the rate of settlement of the plate becomes less than 0.02 mm/min.
11. Remove the loads



Report

1. Evaluation and representation of results
2. Load Settlement curve
3. The test report content the following:-
 - location of test site - Dimension of loading plate
 - Measuring device used - Type of soil
 - Type of Bedding material below the plate - Weathering condition
 - Time and date of measurements - Unusual observation made during test
 - Dial gauge reading and corresponding normal stress - Loading-settlement curve
 - Description of the soil condition below the plate after testing

أقرت
وتميزت
بشأن
27/01/2023

Report

Type of Soil : Upper Embankment (Ferma).

Job Requirement : $E_{v2} > 600 \text{ Kg/cm}^2$ (60 MPa).

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Partly Sunny
- Plate Diameter (mm)	600
- date of measurement	17/01/2023
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

Evaluation and representation of results

Test No.	Station		First Cycle	Second Cycle	E_{v2}/E_{v1} Ratio
	From	To	$E_{v1} (\text{kg/cm}^2)$	$E_{v2} (\text{kg/cm}^2)$	
1	388+200	388+250	1607	1607	1.0
2	388+250	388+300	1286	2045	1.6

Signature /

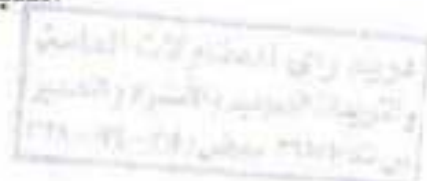
مكتب معامل الاستشارات الهندسية
3 شارع الملك الافيال - القاهرة





Consulting Engineering Bureau & Laboratories

مكتب معامل الاستشارات الهندسية



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 17/01/2023
report date : 18/01/2023
Location : Station 388+200 to 388+250
Test No. : 1

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.84	0.16	19.83	0.17	19.90	0.10	0.14
2	0.83	19.71	0.29	19.70	0.30	19.78	0.22	0.27
3	1.25	19.60	0.40	19.58	0.42	19.65	0.35	0.38
4	1.67	19.48	0.52	19.46	0.54	19.55	0.45	0.50
5	2.08	19.36	0.64	19.34	0.66	19.46	0.54	0.61
6	2.50	19.26	0.74	19.24	0.76	19.37	0.63	0.71

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.26	0.74	19.24	0.76	19.37	0.63	0.71
2	1.25	19.30	0.70	19.30	0.70	19.40	0.60	0.67
3	0.825	19.46	0.54	19.48	0.52	19.56	0.44	0.50
4	0.01	19.74	0.26	19.78	0.22	19.82	0.18	0.22

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.67	0.33	19.68	0.32	19.78	0.22	0.29
1	0.83	19.56	0.44	19.54	0.46	19.66	0.34	0.41
2	1.25	19.45	0.55	19.42	0.58	19.54	0.46	0.53
3	1.67	19.35	0.65	19.32	0.68	19.44	0.56	0.63
4	2.08	19.25	0.75	19.22	0.78	19.36	0.64	0.72
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature


مكتب معامل الاستشارات الهندسية
3 شارع الملك الراحل - القاهرة



3 El Malek El Afdal Street
Zamalek, Cairo.
Tel. & Fax : 27367231 - 27363093

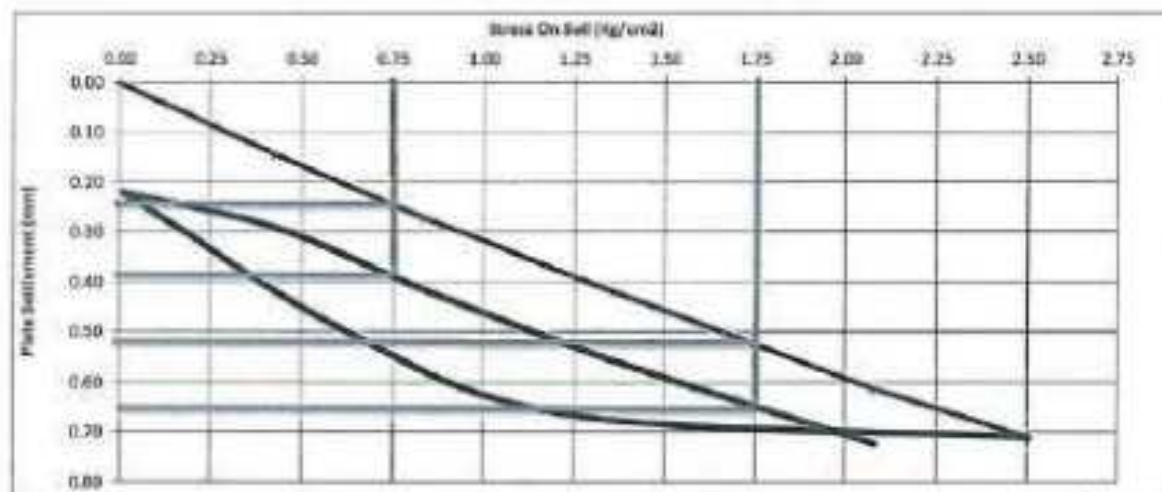


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الزمالك - القاهرة
تليفون - فاكس : ٢٧٣٦٧٢٣١ - ٢٧٣٦٣٠٩٣
www.cel-egypt.com

Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 17/01/2023
report date : 18/01/2023
Location : Station 388+200 to 388+250
Test No. : 1

مركز أبحاث
والبحوث
والدراسات
الهندسية
والعمرانية
والبيئية
والطبيعية
والاجتماعية
والاقتصادية
والسياسية
والثقافية
والدينية
والفنية
والعلمية
والفنية
والعلمية
والفنية
والعلمية

Nonrepetitive Static Plate Load Tests of Soils DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.14	0.27	0.39	0.50	0.61	0.71

Unloading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	0.71	0.67	0.50	0.22

D (mm) = 600	S1 (mm) = 0.24	S2 (mm) = 0.52	ΔS = 0.28
$R_{v1} (kg/cm^2) = (0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	1607		

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.22	0.29	0.41	0.53	0.63	0.72

$$E_{v2}/E_{v1} = 1.0$$

D (mm) = 600	S1 (mm) = 0.38	S2 (mm) = 0.66	ΔS = 0.28
$E_{v2} (kg/cm^2) = (0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	1607		

E_{v1} = Modulus of deformation during the loading stage.

E_{v2} = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δs = The difference between 6.3 and 6.7 from the maximum loading (mm) (kg/cm²)

ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

Signature: 
مكتب استشارات
والبحوث
والدراسات
الهندسية
والعمرانية
والبيئية
والطبيعية
والاجتماعية
والاقتصادية
والسياسية
والثقافية
والدينية
والفنية
والعلمية





Consulting Engineering Bureau & Laboratories

مكتب معامل الإستشارات الهندسية



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 17/01/2023
report date : 18/01/2023
Location : Station 388+250 to 388+300
Test No. : 2

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.82	0.18	19.83	0.17	19.83	0.17	0.17
2	0.83	19.70	0.30	19.71	0.29	19.71	0.29	0.29
3	1.25	19.58	0.42	19.51	0.49	19.57	0.43	0.45
4	1.67	19.37	0.63	19.41	0.59	19.43	0.57	0.60
5	2.08	19.25	0.75	19.28	0.72	19.32	0.68	0.72
6	2.50	19.14	0.86	19.18	0.82	19.21	0.79	0.82

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.14	0.86	19.18	0.82	19.21	0.79	0.82
2	1.25	19.17	0.83	19.22	0.78	19.26	0.74	0.78
3	0.625	19.21	0.79	19.26	0.74	19.41	0.59	0.71
4	0.01	19.34	0.46	19.58	0.42	19.81	0.19	0.36

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.46	0.54	19.50	0.50	19.65	0.35	0.46
1	0.83	19.40	0.60	19.41	0.59	19.51	0.49	0.56
2	1.25	19.34	0.66	19.32	0.68	19.37	0.63	0.66
3	1.67	19.29	0.77	19.28	0.77	19.31	0.69	0.74
4	2.08	19.22	0.88	19.20	0.90	19.26	0.74	0.84
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature


مكتب معامل الإستشارات الهندسية
إدارة الاختبارات - القاهرة



3 El Mulek El Afdal Street
Zamalek, Cairo.
Tel. & Fax : 27367231 - 27363093



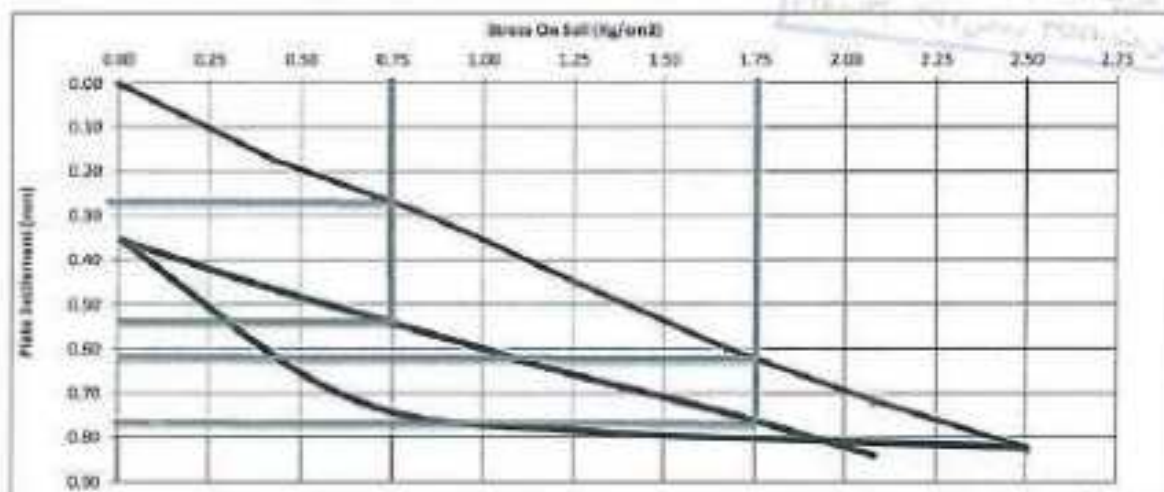
3 ش الملك الأفضل
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www.cel-egypt.com

CEL

Consulting Engineering Bureau & Laboratories
مكتب معمل الإستشارات الهندسية

Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 17/01/2023
report date : 18/01/2023
Location : Station 388+250 to 388+300
Test No. : 2

Nonrepetitive Static Plate Load Tests of Soils DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.17	0.29	0.46	0.60	0.72	0.82

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1765	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	0.82	0.76	0.71	0.36

D (mm) =	600	S1 (mm) =	0.27	S2 (mm) =	0.62	ΔS =	0.35
Ev1 (kg/cm²) =	$(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$						1286

$$Ev2/Ev1 = 1.6$$

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.36	0.46	0.56	0.66	0.74	0.84

D (mm) =	600	S1 (mm) =	0.54	S2 (mm) =	0.76	ΔS =	0.22
Ev2 (kg/cm²) =	$(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$						2045

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δs = The difference between S2 and S1 from the maximum loading (mm) (kg/cm²)

DS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)



Contractor Company	Dream Way	Designer Company	SPECTRUM ENGINEER CONSULTING	Time	10:00 AM
Issued by Contractor	Eng. SAIED MOHAMMED	Date/Serial Number	30/01/2023		
Received by GAB	Eng. MAZEN ESSAMY	MIR			
		288	EWI	CS	CS
		38	CS	CS	CS
		1	MM	YY	MM
		2023			
		10			
		0			

30 to 32.1	30 to 32.1	30 to 32.1	30 to 32.1	30 to 32.1	30 to 32.1
Station reference	Design reference	For reference point only. Station is used	Work activity	Sub Element of Activity	

Description of Materials		Location to be Used		Supplier Name		Test Requirement		Reference Photos		Description		Unit		Quantity		Arrival Date		Note	
		REV. 29 388+000		REV. 35 388+183.86		P.L.T (DIN 18134)		Specification		Other		NUMBER		1/2/2023		55-B-DW-QT(20-1)		55-B-DW-IR-SIS4	
FERMA		TO																	
Comments by: Eng. MAZEN ESSAMY(spectrum)		Comments by: Eng. Alno Abd-Alatt (ER)																	
1-The Plate Load Test Result per (DIN 18134) is approved																			
2-Review report attached and acceptable with project specifications.		1-P.L.T was carried out by third party lab (CEL).																	



APPROVAL STATUS					
Organization	Name	Sign	Date	A-AWCER	
Contractor	Eng. SAIED MOHAMMED			A	
QA/QC	Eng. MAZEN ESSAMY			A	
GAB	Eng. Mervat magdy				
Employer Representative	Eng. Alno Abd-Alatt			A	

RECEIPT OF NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at the time shown

Contractor Company Dream way Company		Designers Company (SPECTRUM) Engineering Consulting Office	
		Issued by Contractor Name: _____ Sign: _____ Date/Serial Number: 30/01/2023 PLTY10	
Received by GARS CONSULTANT Eng. Mazen Essam		No. KKK Note For site meter point only Start Km is used	
STATION REFERENCE D1 to D3 Depot Reference		Work Activity Sub Element of Activity	
CODE - 1 CODE - 2 CODE - 3		Description of material PLATE LOAD TEST ON FERMA	

Description of material PLATE LOAD TEST ON FERMA		Location to be used From 388+000 TO 388+200	
DATE 29/12/2022	QTY(3-2) 3	SUPPLIER NAME ELSEWY Dream way	TEST REQUIREMENT PLATE LOAD TEST ON FERMA
REFERENCE PHOTOS No. / 03	UNIT 4	QUANTITY 4	Arrival Date 29/12/2022

Item 1 2	Description 1 2	Unit 4	Quantity 4	Arrival Date 29/12/2022	Note 1-4 points of pit was carried-out by (ce) on Ferma layer. 2- Result report attached and acceptable with project specifications. 3- Final approval is subject to above mentioned comment.
-----------------------	------------------------------	------------------	----------------------	-----------------------------------	--

Comments by: Eng. Mazen Essam (SPECTRUM)	
The plate load test results is approval	

APPROVAL STATUS A-AWC-R	
Organization Name: _____ Sign: _____ Date: _____	Contractor Eng. Abdelrahman atef
QA/QC Eng. Mazen Essam	GARS Eng. Mohamed Fayad
Employers Representative Eng. Alaa Abd-Alatt	Designer No. 1001

2023/02/01
 2023/02/01
 2023/02/01

Company Name : dream Way Co.
 Project : Electric Express Train, from Borg Al Arab to Alamein.
 Test Date : 31/01/2023
 report date : 01/02/2023
 Location : Station 388+000 to 388+050
 Test No. : 05

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	20.00	0.00
1	0.42	19.89	0.11	19.68	0.32	19.81	0.19	19.81	0.21
2	0.83	19.75	0.25	19.54	0.46	19.64	0.36	19.64	0.36
3	1.25	19.62	0.38	19.40	0.60	19.48	0.52	19.48	0.50
4	1.67	19.48	0.52	19.24	0.76	19.34	0.66	19.34	0.65
5	2.08	19.35	0.65	19.12	0.88	19.19	0.81	19.19	0.78
6	2.50	19.15	0.85	18.92	1.08	19.00	1.00	19.00	0.98

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	19.15	0.85	18.92	1.08	19.00	1.00	19.00	0.98
2	1.25	19.24	0.76	19.01	0.99	19.08	0.92	19.08	0.88
3	0.625	19.42	0.58	19.20	0.80	19.26	0.74	19.26	0.71
4	0.01	19.72	0.28	19.53	0.47	19.59	0.41	19.59	0.39

Loading Stage (2)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	19.64	0.36	19.41	0.59	19.47	0.53	19.47	0.49
1	0.83	19.52	0.48	19.29	0.71	19.34	0.66	19.34	0.62
2	1.25	19.40	0.60	19.17	0.83	19.21	0.79	19.21	0.74
3	1.67	19.37	0.63	19.07	0.93	19.10	0.90	19.10	0.82
4	2.08	19.27	0.73	18.92	1.08	19.02	0.98	19.02	0.93



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٧ شارع الملك الاهدال
 الجيزة - القاهرة
 ٢٧٣٦٧٢٣١ - ٢٧٣٦٣٠٩٣
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EVZ/EV1 = 1.8

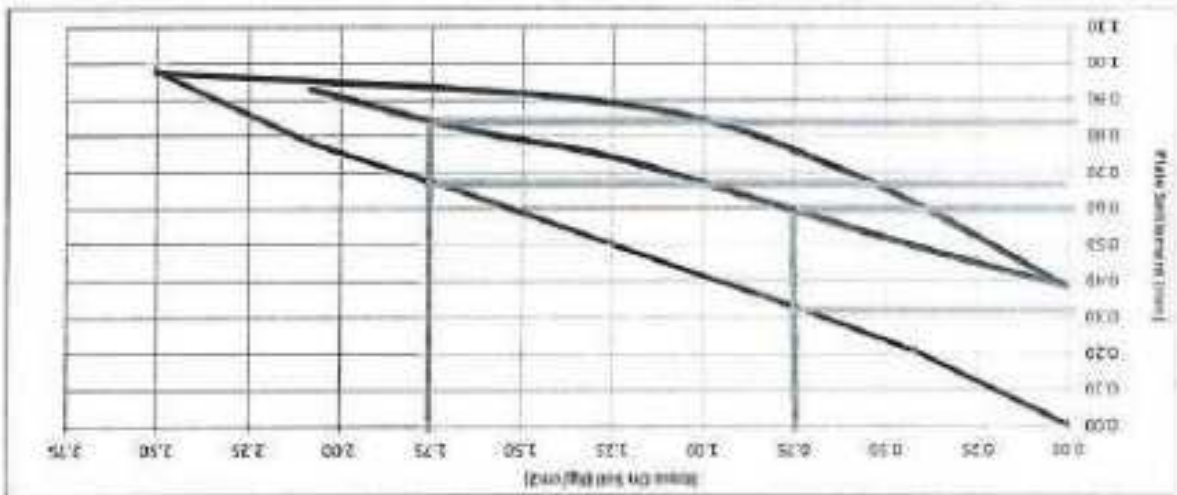
Exc (kg/cm ²) = 18.75°C/Avg/25	2045
D (mm) = 600	91.9mm/ 0.60
AS = 0.22	0.82

Loading (t)	Stage (kg)	Stress (kg/cm ²)	Settlement (mm)
0	0	0.01	0.39
1	1188.92	0.42	0.49
2	2345.6	0.83	0.62
3	3502.5	1.25	0.74
4	4719.4	1.67	0.82
5	5878.1	2.09	0.93

Exc (kg/cm ²) = 18.75°C/Avg/25	1256
D (mm) = 600	51.9mm/ 0.32
AS = 0.36	0.68

Loading (t)	Stage (kg)	Stress (kg/cm ²)	Settlement (mm)
0	0	0.00	0.00
1	1188.92	0.42	0.21
2	2345.6	0.83	0.36
3	3502.5	1.25	0.50
4	4719.4	1.67	0.65
5	5878.1	2.09	0.78
6	7065	2.50	0.88

Unloading (t)	Stage (kg)	Stress (kg/cm ²)	Settlement (mm)
1	7065	2.50	0.58
2	3533	1.25	0.525
3	1768	0.625	0.71
4	0	0.01	0.39



Nonrespective Static Load Tests of Soils
DIN 18134

Company Name
Project
Test Date
Report Date
Location
Test No.

dream Way Co.
Electric Express Train, from Borg El Arab to Alameda.
31/01/2023
01/02/2023
Station 388+000 to 388+050
05



تمت المراجعة والتوقيع
مهندس / محمد عبد الله
17/02/2023

Company Name : dream Way Co.
Project : Electric Express Train, from Bang Al Arab to Almarai.
Test Date : 31/01/2023
Report date : 01/02/2023
Location : Station 388+050 to 388+100
Test No. : 06

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.42	0.42	0.22	19.78	0.16	19.69	0.31	19.50	0.23
2	0.83	0.83	0.40	19.60	0.29	19.50	0.50	19.50	0.40
3	1.25	1.25	0.62	19.38	0.43	19.35	0.65	19.35	0.57
4	1.67	1.67	0.80	19.20	0.60	19.21	0.79	19.21	0.73
5	2.08	2.08	0.96	19.04	0.78	19.04	0.96	19.04	0.90
6	2.50	2.50	1.10	18.90	0.98	18.91	1.09	18.91	1.06

Unloading Stage (1)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	2.50	1.10	18.90	0.98	18.91	1.09	18.91	1.06
2	1.25	1.25	1.00	19.00	0.90	19.03	0.97	19.03	0.96
3	0.625	0.625	0.72	19.28	0.69	19.19	0.61	19.19	0.74
4	0.01	0.01	0.40	19.60	0.40	19.58	0.42	19.58	0.41

Loading Stage (2)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	0.42	0.50	19.50	0.52	19.50	0.50	19.50	0.51
1	0.83	0.83	0.62	19.38	0.70	19.36	0.64	19.36	0.65
2	1.25	1.25	0.75	19.25	0.87	19.21	0.79	19.21	0.80
3	1.67	1.67	0.87	19.13	0.98	19.11	0.89	19.11	0.91
4	2.08	2.08	1.00	19.00	1.07	19.00	1.00	19.00	1.02



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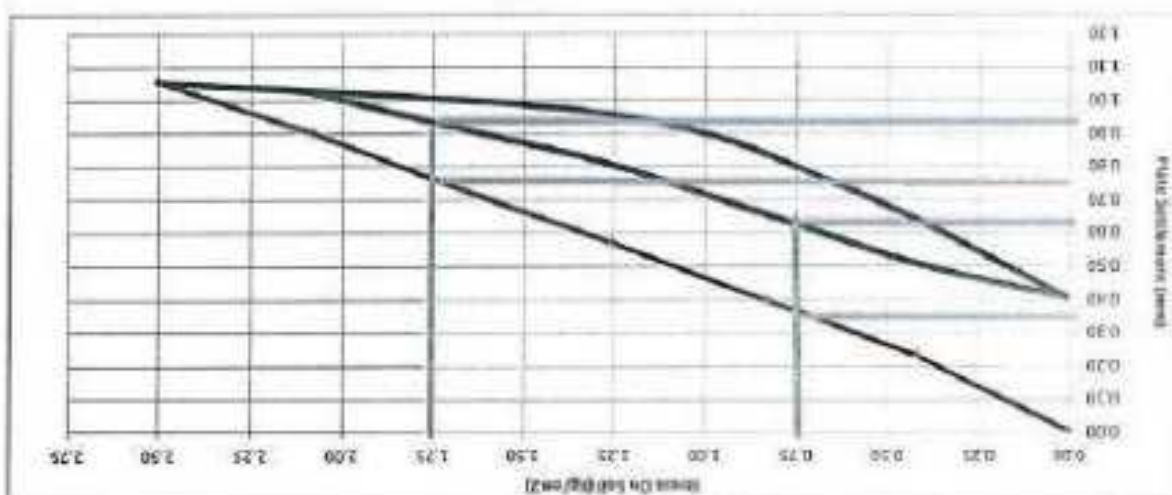
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17717-47 - 17717771 : فاكس + هاتف
17717-47 : هاتف



D (mm) = 600		S (mm) = 0.62		S (mm) = 0.92		AS = 0.30	
E (mm) = 0.25		E (mm) = 0.25		E (mm) = 0.25		E (mm) = 0.25	

$\Delta S = 0.40$	$S(\text{J/K}) = -2.05$	$R \ln(1 + 0.76) = 1.92$	$\Delta S = 0.40$
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Unloading (t)	1	2	3	4
Stage(Kg)	7665	3533	1768	0
Stress (Kg/cm ²)	2.50	1.25	0.625	0.01
Settlement (mm)	1.00	0.98	0.74	0.41



06
Station 388+050 to 388+100
01/02/2023
31/01/2023
Electric Express Train, from Bang Al Arab to Alammah.
dream way co.

Company Name	Project	Test Date	Location	Test No
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Consulting Engineering Bureau & Laboratories
2200 West 12th Avenue, Denver, Colorado

730



Loading	Stress	Dial 1	Settlement	Dial 2	Settlement	Dial 3	Settlement	Average
	Kg/cm2	mm	mm	mm	mm	mm	mm	
1	2.50	19.28	0.72	19.25	0.75	19.10	0.90	0.78
2	1.25	19.35	0.65	19.30	0.64	19.16	0.64	0.71
3	0.625	19.50	0.50	19.47	0.53	19.33	0.67	0.57
4	0.01	19.60	0.20	19.70	0.30	19.65	0.35	0.28

Loading	Stress	Kg/cm ²
0	0.00	28.00
1	0.42	29.88
2	0.83	29.75
3	1.26	29.68
4	1.67	28.51
5	2.08	29.40
6	2.50	29.28
Dial 1	mm	
Settlement	mm	0.00
0.12		29.82
0.25		29.70
0.36		29.69
0.49		29.58
0.60		29.44
0.72		29.25
Dial 2	mm	
Settlement	mm	0.00
0.16		29.79
0.30		29.65
0.31		29.53
0.47		29.40
0.60		29.29
0.71		29.10
0.80		
Dial 3	mm	
Settlement	mm	0.00
Average		0.00
		0.17
		0.30
		0.38
		0.50
		0.62
		0.79

Noncompetitive Static Plate Load Tests of Soils

Data sheet

Electric Express Train, from Borg Al Arab to Alamein,
dream way Co.
31/01/2023
01/02/2023
Station 388+100 to 388+150
07

Consulting Engineering Bureau & Laboratories
22501 15th Avenue, Suite 100, San Diego, CA 92160

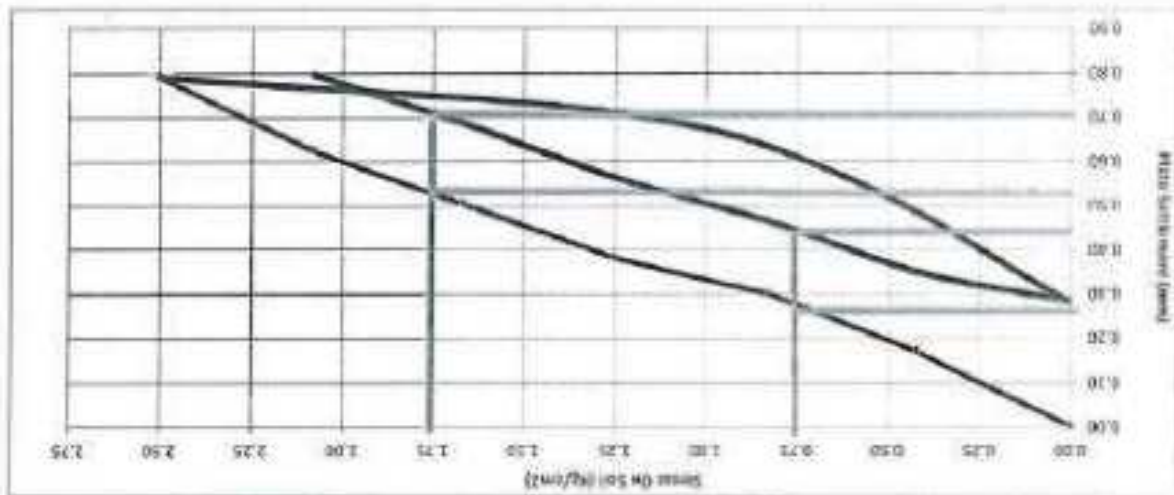
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Company Name
Project
Test Date
Report Date
Location
Test No.

: dream Way Co.
: Electric Express Train, from Borg Al Arab to Alamein.
: 31/01/2023
: 01/02/2023
: Station 388+100 to 388+150
: 07

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Nonrepetitive Static Load Tests of Soils
DIN 18134



Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	0	1186.92	2345.6
1	1	1186.92	3532.5
2	2	1186.92	4719.4
3	3	1186.92	5878.1
4	4	1186.92	7065
5	5	1186.92	8252
6	6	1186.92	9440

D (mm) = 600	σ ₁ (mm) = 0.27	σ ₂ (mm) = 0.53	σ ₃ = 0.26
--------------	----------------------------	----------------------------	-----------------------

Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	0	1186.92	2345.6
1	1	1186.92	3532.5
2	2	1186.92	4719.4
3	3	1186.92	5878.1
4	4	1186.92	7065
5	5	1186.92	8252
6	6	1186.92	9440

D (mm) = 600	σ ₁ (mm) = 0.27	σ ₂ (mm) = 0.53	σ ₃ = 0.26
--------------	----------------------------	----------------------------	-----------------------

σ₁ = loading of deformation during the loading stage
σ₂ = loading of deformation during the unloading stage
σ₃ = Final settlement (mm)
σ₄ = The difference between σ₁ and σ₂ from the maximum loading (kg/cm²)
σ₅ = Difference in settlement corresponds to σ₁ and σ₂ with the maximum loading (mm)



EV2/EV1 = 1.0

Unloading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	0	1186.92	2345.6
1	1	1186.92	3532.5
2	2	1186.92	4719.4
3	3	1186.92	5878.1
4	4	1186.92	7065
5	5	1186.92	8252
6	6	1186.92	9440

Company Name : dream Way Co.
Project : Electric Express Train, from Borg El Arab to Alamin.
Test Date : 31/01/2023
report date : 01/02/2023
Location : Station 388+150 to 388+200
Test No. : 08

Nonrepertive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	20.00	0.00
1	0.42	19.84	0.16	19.78	0.22	19.80	0.20	19.86	0.19
2	0.83	19.70	0.30	19.63	0.37	19.66	0.34	19.66	0.34
3	1.25	19.03	0.37	19.52	0.48	19.56	0.44	19.56	0.43
4	1.67	19.51	0.49	19.40	0.60	19.45	0.55	19.45	0.55
5	2.08	19.40	0.60	19.31	0.69	19.34	0.66	19.34	0.66
6	2.50	19.28	0.72	19.12	0.88	19.15	0.85	19.15	0.82

Unloading Stage (1)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	19.28	0.72	19.12	0.88	19.15	0.85	19.15	0.82
2	1.25	19.42	0.68	19.18	0.82	19.20	0.80	19.20	0.77
3	0.625	19.44	0.56	19.29	0.71	19.38	0.62	19.38	0.63
4	0.01	19.75	0.25	19.60	0.40	19.71	0.29	19.71	0.31

Loading Stage (2)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	19.70	0.30	19.49	0.51	19.60	0.40	19.60	0.40
1	0.83	19.52	0.48	19.37	0.63	19.49	0.51	19.49	0.54
2	1.25	19.40	0.60	19.28	0.72	19.37	0.63	19.37	0.65
3	1.67	19.28	0.72	19.19	0.81	19.28	0.72	19.28	0.75
4	2.08	19.19	0.81	19.08	0.92	19.17	0.83	19.17	0.85



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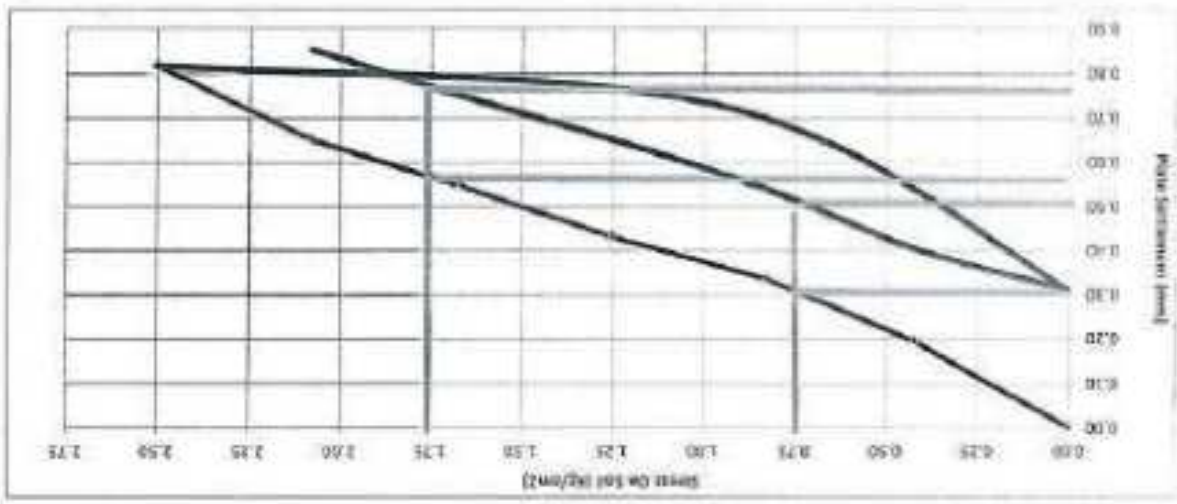
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Company Name
Project
Test Date
Report Date
Location
Test No.

dream Way Co.
Electric Express Train from Borg Al Arab to Alamein.
31/01/2023
01/02/2023
Station 308+150 to 308+200
06

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**Nonrepetitive Static Load Tests of Soils
DIN 18134**



Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	1166.92	0.00	0.00
1	2345.6	0.42	0.10
2	3532.5	0.63	0.24
3	4719.4	1.25	0.43
4	5878.1	1.67	0.65
5	7065	2.05	0.82

Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	1166.92	0.00	0.00
1	2345.6	0.42	0.10
2	3532.5	0.63	0.24
3	4719.4	1.25	0.43
4	5878.1	1.67	0.65
5	7065	2.05	0.82

Unloading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
1	7065	2.05	0.82
2	3533	1.25	0.77
3	1768	0.625	0.63
4	0	0.01	0.31

EV1 = modulus of deformation during the loading stage
 EV2 = modulus of deformation during the Resisting stage
 D = The difference between EV1 and EV2 from the maximum loading (mm)
 OS = Difference in settlement corresponding to EV1 and EV2 from the maximum loading (mm)

D (mm)	EV1 (kg/cm²)	EV2 (kg/cm²)	OS (mm)
600	0.32	0.32	0.32
AS = 0.34			



Contractor Company	Dream Way		Designer Company	SPECTRUM ENGINEER CONSULTING OFFICE				
Issued by Contractor	Name	Sign	Date/Serial Number		Time			
	Eng. SAIED MOHAMMED		12/1/2023 (55-B-DW) (P.L.T.07)		10:00 AM			
Received by GARB CONSULTANT	Eng. MAZEN ESSAMY		MR	1	2	3	4	5
				388	EW	CS	13	1 2023 10 0

CODE	S1 to S23	D1 to S3	Kp XXX Note
	Section Reference	Expert Reference	For Kilometer point only Start Km is used
	Web Activity Sub Element of Activity		

Description of Materials		FERMA			
Location to be Used	REV.29	388+300	TO	388+500	
	REV.35	388+483.86		388+683.86	
Supplier Name	مهاجر السوي - العلمين				
Test Requirement	P.L.T (DIN 18134)		Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CMCON GROUP	
Reference Photos	No/Yes		Other	55-B-DW-IR-5(48) 55-B-DW-QT(19-1)	
Item	Description	Unit	Quantity	Arrival Date	Note
1	PLATE LOAD TEST	NUMBER	4	14/1/2023	
2					
3					
4					
Comments by: Eng.MAZEN ESSAMY(spectrum)			Comments by: Eng. Alaa Abd-Allah (ER)		
1-The Plate Load Test Result (P.L.T. (DIN 18134)) is Approved.			1-P.L.T was carried out by third party lab (CEL) . 2-Results report attached and acceptable with project specifications.		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. SAIED MOHAMMED			A
QA/QC *	Eng. MAZEN ESSAMY			A
GARB **	Eng. Margret magdy			
Employers Representative	Eng. Alaa Abd-Allah			A

* Designer

** Approver/Bridges/ Culvert only

Contractor Company	DREAM WAY		Designer Company	SPECTRUM Engineering Consulting Office			
Issued by Contractor	Name	Sign	Date/Serial Number		Time		
	Eng. Abdelrahman Ataf	Abdel Rahman Ataf	17/01/2023		3:00 PM		
Received by GARB CONSULTANT	Eng. Mazen Essamy		MIR	CC	CC	CC	CC
				100	EW	CS	2

COPIES	SI to SI2	SI to SI3	SI to SI4
	Station Reference	Target Reference	By XXX Name
	Work Activity		
	Sub Element of Activity		

Location to be Used	From	388+300	TO	388+500
MAR	QT(12-2)	Date	01/07/2023	

Supplier Name	ELSEWY, Dream way		
Test Requirement	PLATE LOAD TEST ON FERMA	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (02/14/21) VERSION 1 BY CIVISION GROUP
Reference Photos	No/Yes	Other	UIR-5-16

Item	Description	Unit	Quantity	Arrival Date	Note
1	PLT BY CONSULTING ENGINEERING BUREAU & LABORATORIES	NUMBER	4		
2					
3					
4					

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allah (ER)
 1-The plate load test result by the company is approval	1-4 points of plt was carried out by (CEL) on ferma layer 2-Results report attached and acceptable with project specifications. 3-Final approval is subject to above mentioned comments.

APPROVAL STATUS				
Organization	Name	Sign	Date	A.AWC-R
Contractor	Eng. Abd el rahman ataf	Abdel Rahman Ataf		A
QA/QC *	Eng. Mazen Essamy			A
GARB**	Eng. Mohammed Fayad			
Employers Representative	Eng. Alaa Abd-Allah	Alaa Abd-Allah		AWC

* Designer

** Agreement/Bridge Consultant only

15/01

Company : شركة دريم واى

Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (6)
- Alamein to Foka
Subject : Determine the deformation and strength characteristics of soil by the plate loading test according specifications DIN 18134:2012-04 and project requirements
Test Location: Station 388+300 to 388+500
Test Date : 12/01/2023
Report Date : 14/01/2023
Type of Soil : A-1-a
Type of soil : Upper Embankment (Ferma).
Report No. : 92:95

شركة دريم واى
مكتب معامل الاستشارات الهندسية
الاستشارات الهندسية
12/01/2023 - 14/01/2023

Dear Gentleman,

According to the above mentioned subject the test performed as follows:-

Apparatus

1. Loading plates consists of two plates with 600 mm and 300 mm diameter
2. The thickness of plates 30 mm
3. Dial gauges with accuracy 0.01 mm to measuring the settlement
4. Steel straightedges with magnetic supports to fixed the dial gauges
5. Hydraulic jack with pump to transfer reactive loads to the loading plates
6. Dial indicator measuring device with scale capacity 700 Bar (Enerbac)
7. Reaction loading system by roller compactor with weight approximately 15 ton
8. Calibration certificates are attached

Test Procedure

1. Clean the ground on test area to the required level with undisturbed soil
2. Install loading plates 600 mm and 300 mm diameter, hydraulic jack and 3 dial gauges
3. Prior to starting the test applied preloading about 30 seconds.
4. The strain gauge and the dial gauge shall be set to zero
5. For a 600 mm loading plate, the limit values are 2.5 kg/cm²
6. The load shall be applied in six stages, in approximately equal increments, until the required maximum normal stress is reached.
7. Each change in load (from stage to stage) shall be completed within one minute
8. The load shall be released in 3 stages, to 50 % , 25 % , and approximately 2 % of the maximum load.
9. Following unloading, a further (2nd) loading cycle shall be carried out, in which, however, the load is to be increased only to the penultimate stage of the first cycle (so that the full load is not reached).
10. At each stage the load shall be maintained until the rate of settlement of the plate becomes less than 0.02 mm/min.
11. Remove the loads



Report

1. Evaluation and representation of results
2. Load Settlement curve
3. The test report content the following:-
 - location of test site - Dimension of loading plate
 - Measuring device used - Type of soil
 - Type of Bedding material below the plate - Weathering condition
 - Time and date of measurements - Unusual observation made during test
 - Dial gauge reading and corresponding normal stress - Loading-settlement curve
 - Description of the soil condition below the plate after testing

Report

Type of Soil : Upper Embankment (Ferma).
Job Requirement : $E_{v2} > 600 \text{ Kg/cm}^2$ (60 MPa).

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Partly Sunny
- Plate Diameter (mm)	600
- date of measurement	12/01/2023
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

Evaluation and representation of results

Test No.	Station		First Cycle	Second Cycle	E_{v2}/E_{v1} Ratio
	From	To	$E_{v1} \text{ (kg/cm}^2\text{)}$	$E_{v2} \text{ (kg/cm}^2\text{)}$	
1	388+300	388+350	1324	2250	1.7
2	388+350	388+400	1286	2250	1.8
3	388+400	388+450	1324	2143	1.6
4	388+450	388+500	1125	2045	1.8

Signature / 



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 12/01/2023
report date : 14/01/2023
Location : Station 388+300 to 388+350
Test No. : 1



Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.80	0.20	19.75	0.25	19.84	0.16	0.20
2	0.83	19.65	0.34	19.62	0.38	19.73	0.27	0.33
3	1.25	19.50	0.50	19.48	0.52	19.60	0.40	0.47
4	1.67	19.35	0.65	19.31	0.69	19.46	0.54	0.63
5	2.08	19.24	0.76	19.18	0.82	19.32	0.68	0.75
6	2.50	19.12	0.88	19.06	0.94	19.20	0.80	0.87

Unloading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.12	0.88	19.06	0.94	19.20	0.80	0.87
2	1.25	19.15	0.85	19.11	0.89	19.24	0.76	0.83
3	0.625	19.19	0.81	19.16	0.84	19.29	0.71	0.79
4	0.01	19.52	0.48	19.38	0.62	19.62	0.38	0.49

Loading Stage (2)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.46	0.54	19.31	0.69	19.52	0.48	0.57
1	0.83	19.38	0.62	19.25	0.75	19.44	0.56	0.64
2	1.25	19.30	0.70	19.19	0.81	19.35	0.65	0.72
3	1.67	19.22	0.78	19.12	0.88	19.26	0.74	0.80
4	2.08	19.13	0.87	19.04	0.96	19.18	0.82	0.88
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

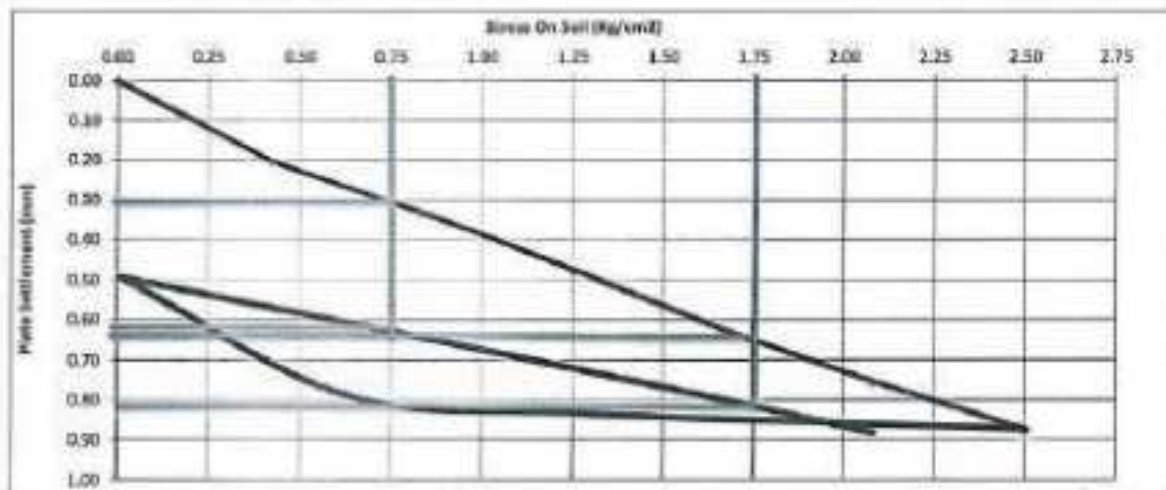
Signature 1



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein,
Test Date : 12/01/2023
report date : 14/01/2023
Location : Station 388+300 to 388+350
Test No. : 1

تم إجراء اختبار الضغط الساكن للتراب
في محطة 388+300 إلى 388+350
في 12/01/2023
بمكتب معمل الاستشارات الهندسية

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.20	0.33	0.47	0.63	0.79	0.87

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.825	0.01
Settlement (mm)	0.87	0.83	0.79	0.49

D (mm) =	600	S1 (mm) =	0.30	S2 (mm) =	0.64	ΔS =	0.34
Ev1 (kg/cm²) =	$(0.75 \cdot D^2 \cdot \Delta S) / \Delta S$						
	1324						

$Ev2/Ev1 = 1.7$

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.49	0.57	0.64	0.72	0.80	0.88

D (mm) =	600	S1 (mm) =	0.62	S2 (mm) =	0.82	ΔS =	0.20
Ev2 (kg/cm²) =	$(0.75 \cdot D^2 \cdot \Delta S) / \Delta S$						
	2250						

Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Reloading stage.
D = Plate diameter (mm)

ΔS = The difference between 0.3 and 0.7 from the maximum loading (mm) (kg/cm²)

ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

Signature: 
مكتب معمل الاستشارات الهندسية
الاستشارات الهندسية
بمكتب معمل الاستشارات الهندسية
القاهرة
11537 - 991 - 49



Company Name : dream Way Co.
 Project : Electric Express Train, from Borg El Arab to Alamein.
 Test Date : 12/01/2023
 report date : 14/01/2023
 Location : Station 388+350 to 388+400
 Test No. : 2

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.83	0.17	19.78	0.22	19.81	0.19	0.19
2	0.83	19.70	0.30	19.63	0.37	19.70	0.30	0.32
3	1.25	19.54	0.46	19.50	0.50	19.52	0.48	0.48
4	1.67	19.37	0.63	19.41	0.59	19.35	0.65	0.62
5	2.08	19.25	0.75	19.28	0.72	19.20	0.80	0.76
6	2.50	19.14	0.86	19.18	0.82	19.07	0.93	0.87

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.14	0.86	19.18	0.82	19.07	0.93	0.87
2	1.25	19.17	0.83	19.22	0.78	19.11	0.89	0.83
3	0.625	19.21	0.79	19.26	0.74	19.15	0.85	0.79
4	0.01	19.54	0.46	19.58	0.42	19.42	0.58	0.49

Loading Stage (2)

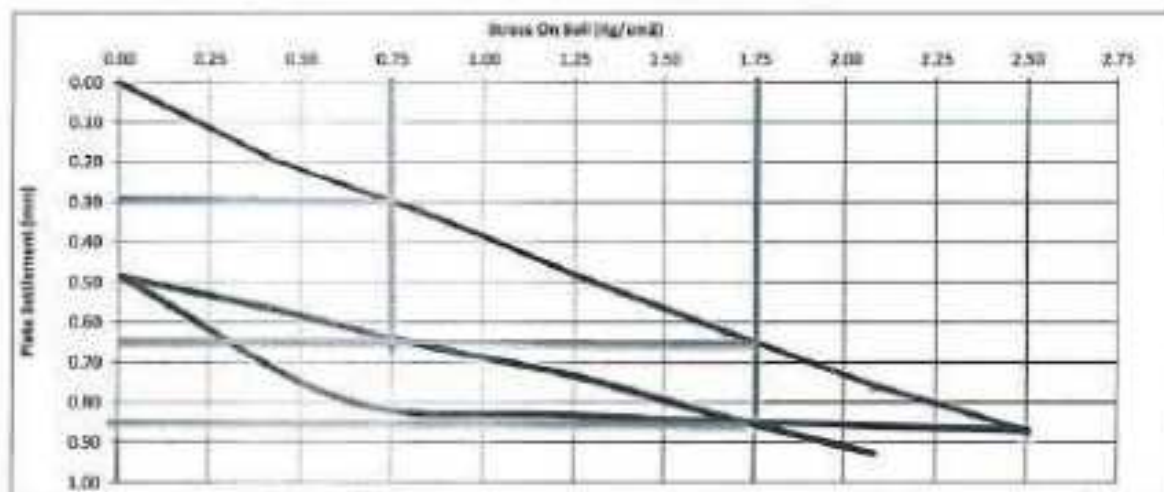
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.46	0.54	19.50	0.50	19.34	0.66	0.57
1	0.83	19.40	0.60	19.41	0.59	19.22	0.78	0.66
2	1.25	19.34	0.66	19.32	0.68	19.14	0.86	0.73
3	1.67	19.28	0.77	19.28	0.77	19.03	0.97	0.84
4	2.08	19.12	0.88	19.10	0.90	19.00	1.00	0.93
5	0.00	19.50	0.00	0.00	0.00	0.00	0.00	#REF!



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 12/01/2023
report date : 14/01/2023
Location : Station 388+350 to 388+499
Test No. : 2

مكتب معمل الاستشارات الهندسية
الاستشارات الهندسية والاساسية
البيانات : 1766-075-075-075

**Nonrepetitive Static Plate Load Tests of Soils
DIN 18134**



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.19	0.32	0.48	0.62	0.76	0.87

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	0.87	0.83	0.79	0.49

D (mm) = 600	S1 (mm) = 0.30	S2 (mm) = 9.85	ΔS = 0.35
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	1308		

Ev2/Ev1 = 1.8

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.49	0.57	0.66	0.73	0.84	0.93

D (mm) = 600	S1 (mm) = 0.49	S2 (mm) = 9.85	ΔS = 0.20
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	2250		

Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Reloading stage.
D = Plate diameter (mm)
Δs = The difference between 0.3 and 0.7 from the maximum loading (smax) (kg/cm²)
ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)





Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 12/01/2023
report date : 14/01/2023
Location : Station 388+400 to 388+450
Test No. : 3

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	19.00	0.00	19.00	0.00	19.00	0.00	0.00
1	0.42	19.92	0.08	19.80	0.29	19.73	0.27	0.18
2	0.83	19.82	0.18	19.68	0.32	19.56	0.44	0.31
3	1.25	19.70	0.30	19.53	0.47	19.42	0.58	0.45
4	1.67	19.58	0.42	19.40	0.60	19.30	0.70	0.59
5	2.08	19.36	0.64	19.27	0.73	19.17	0.83	0.73
6	2.50	19.23	0.77	19.16	0.84	19.05	0.95	0.85

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.23	0.77	19.16	0.84	19.05	0.95	0.85
2	1.25	19.26	0.74	19.19	0.81	19.09	0.91	0.82
3	0.825	19.32	0.68	19.24	0.76	19.13	0.87	0.77
4	0.01	19.63	0.37	19.50	0.50	19.39	0.61	0.49

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.54	0.46	19.42	0.58	19.30	0.70	0.56
1	0.83	19.42	0.58	19.33	0.67	19.23	0.77	0.67
2	1.25	19.33	0.67	19.26	0.74	19.14	0.86	0.76
3	1.67	19.25	0.79	19.18	0.82	19.06	0.94	0.84
4	2.08	19.17	0.93	19.10	0.90	18.98	1.02	0.92
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature





Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 12/01/2023
report date : 14/01/2023
Location : Station 388+450 to 388+500
Test No. : 4

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.78	0.27	19.83	0.17	19.76	0.24	0.23
2	0.83	19.60	0.40	19.71	0.29	19.52	0.48	0.39
3	1.25	19.46	0.54	19.54	0.46	19.30	0.70	0.57
4	1.67	19.31	0.69	19.34	0.66	19.18	0.82	0.72
5	2.08	19.17	0.83	19.22	0.78	19.08	0.92	0.84
6	2.50	19.06	0.94	19.10	0.90	18.95	1.05	0.96

Unloading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.06	0.94	19.10	0.90	18.95	1.05	0.96
2	1.25	19.10	0.90	19.15	0.85	18.98	1.02	0.92
3	0.625	19.14	0.86	19.21	0.79	19.04	0.96	0.87
4	0.01	19.38	0.62	19.47	0.53	19.34	0.68	0.60

Loading Stage (2)

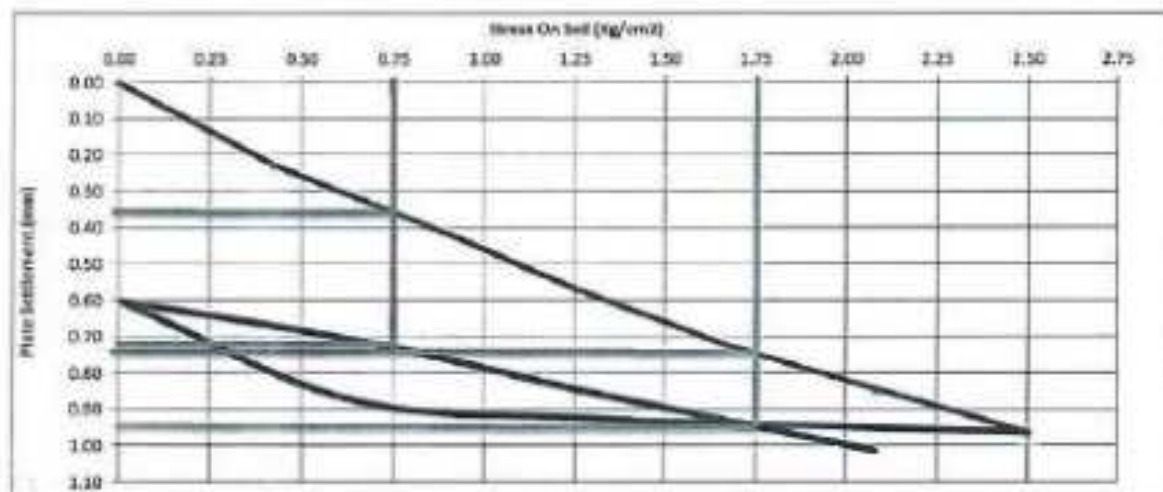
Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.31	0.69	19.40	0.60	19.28	0.72	0.67
1	0.83	19.23	0.77	19.32	0.68	19.21	0.79	0.75
2	1.25	19.14	0.86	19.23	0.77	19.10	0.90	0.84
3	1.67	19.08	0.92	19.12	0.88	19.01	0.99	0.93
4	2.08	19.00	1.00	19.03	0.97	18.93	1.07	1.01
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature: 
مكتب معامل الاستشارات الهندسية
الاستشاري: 
219/391 - 537
القاهرة - مصر



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Almamain.
Test Date : 12/01/2023
report date : 14/01/2023
Location : Station 388+450 to 388+500
Test No. : 4

Nonrepetitive Static Plate Load Tests of Soils



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm ²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.23	0.39	0.57	0.72	0.84	0.96

UnLoading (T)	1	2	3	4
Stage(Kg)	7665	3533	1768	0
Stress (Kg/cm ²)	2.50	1.25	0.625	0.01
Settlement (mm)	0.96	0.92	0.87	0.80

D (mm) = 600	S1 (mm) = 6.35	S2 (mm) = 9.75	ΔS = 0.40
Ev1 (kg/cm2) = (0.76°DΔσ/ΔS	1125		

Load (Z)	0	1	2	3	4	5
Stage (Kg)	0	1186.02	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm ²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.60	0.67	0.75	0.84	0.93	1.01

D (mm) =	600	S1 (mm) =	6.72	S2 (mm) =	9.94	ΔS =	0.22
Ez (g/cm2) =	(6.75*D*Δσ)/ΔS		2045				

$$E_{y2}/E_{y1} = 1.8$$


Evt = Modulus of deformation during the loading stage.

E_{v2} = Modulus of deformation during the Reloading stage.

 $D = \text{Plate diameter (mm)}$
$$D_5 = \text{The difference between 6.3 and 6.7 from the maximum loading (max) / (kN/m}^2\text{)}$$

DS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)



3 El Malek El Afdal Street
Zamalek, Cairo.
Tel. & Fax : 27367231 - 27363093



٣ ش الملك الأفضل
الزمالك - القاهرة
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www.cel-egypt.com

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION-Minimum Notice Period, not less than 24 Hours

Contractor Company

Dream Way COMPANY

Designer Company*

(SPECTRUM) Engineering Consulting Office

Issued by Contractor

Name

Eng. Elsayed Mohamed

Sign

Date/Serial Number

27/11/2022
S5-B-DW-IR-S(21)

Time

01:00 م

Received by GARB CONSULTANT

Eng. Mazen Esamy

U/R

388

EW

CS

28

11

2022

01

01

CODE-1

S1 to S21 Station Reference

D1 to D3 Depot Reference

Kp XXX Note
For Kilo meter point only Start Km is used

CODE-2

Work Activity

CODE-3

Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Description				Element	Item
From St.	388+200	To St.	388+300	REV 29	upper embankment
From St.	388+383.86	To St.	388+483.86	REV 35	
				Fill layer (-1.50)	

INSPECTION DETAILS The following will be ready at the planned inspection Time

Planned Inspection Date

Planned Inspection Time

COMPLIANCE EVIDENCE Next to be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	References	MS References	
PLAN AND PROFILE(REV.35) POINT OF SHEET POINT ON PLAN MASTER SHEET FOR CUT AND FILL APPROVED BY (SPECTRUM)CONSULTING	MAR (S5-B-DW-QT-15-01) MIR (S5-B-DW-FDT-15)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2)VERSION2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by:Eng. Mohamed KHALIL (XYZ)

1- Attached Master Sheet approved by SPECTRUM ,
 2-As Built (-1.50) fill layer coordinates , Elevations , Width

Comments by:Eng. Mostafa reyd (SPECTRUM)

Comments by: Eng. Alaa Abd-Allatif

Comments by:Eng. Alaa Abd-Allatif

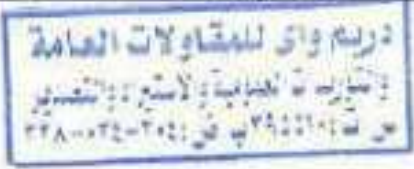
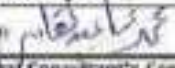
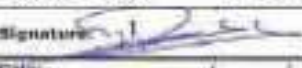
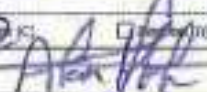
Comments by: Eng. Alaa Abd-Allatif

Comments by:Eng. Alaa Abd-Allatif

Comments by: Eng. Alaa Abd-Allatif

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsayed Mohamed				A-AWC-R	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
GARB**	Eng. Margret magdy					
Employers Representative	Eng. Alaa Abd-Allatif				A	

Contractor	  Electrical Express Train From Borg Alarah to Alaminia From Station 388+000 To Station 389+000				Serial No. IR-5 (21)
	 مكتب الدراسات  Date 28 / 11 / 2022				
Works Inspection Request					
We request your attendance to inspect the following works :					
Discipline : ☐ On ground structure ☐ Roadwork ☐ Drainage ☒ Survey					
Location :		Zone DREAM WAY	From Station 388+200	To Station 388+300	Level (0.1-0.9) -1.50
References		Drawing: EET-DORS EL ARAB REV 29 Plan Profile Specification: EEFLL 1 Earthworks Specifications and Testing Report			
Purpose of the inspection					
☐ Surveying ☒ Setting out ☒ Layout ☐ Valuation					
Attachments 1- LEVELS SHEET 2- EXPLANATIONS 3- Coordinations of Layer Works To be Inspected: Fill layer (-1.50) from 388+200 TO 388+300					
 					
Submitted by:		DREAM WAY		Name: _____ Signature: 	
Surveying Consultant Engineer's Comments :					
I have checked the levels and the width of the road which is approved by SPECTRUM.					
The works are : ☐ Approved (A) ☒ Approved in Word (B) ☐ Rejected (C) ☐ Rejected (D)					
Name: J.P. P. P. P. Signature: 					
GARB Consultant Engineer's Comments :					
Surface need more Compaction after 3 hours, Surface is ok.					
The works are : ☐ Approved (A) ☒ Approved in Word (B) ☐ Rejected (C) ☐ Rejected (D)					
Name:  Signature: 					
General Consultant's Comments :					
1- Coordinates & levels & width checked by GARB Consultants but Xsec / plan should be approved from SYSTRA 2- Final approval is subject to above mentioned comments					
The works are : ☐ Approved (A) ☒ Approved in Word (B) ☐ Rejected (C) ☐ Rejected (D)					
Name: Abou Abdellatif Signature: 					
GARB Engineer's Comments :					
Date: 28/11					
Name: _____ Signature: _____ General Consultant Eng. GARB Eng.					

Levels Of Layer (-1.5) From F.L. (from 388+000 to 398+300)

Station	Left Side				CL	Right Side			
	SLOPE %	15.69	12	8		4	8	12.19	SLOPE %
388+200	2%	7.397	7.471	7.581	7.711	7.631	7.591	7.467	2%
الارتفاع									
الحد									
388+220	2%	7.343	7.419	7.499	7.609	7.579	7.499	7.419	2%
الارتفاع									
الحد									
388+240	2%	7.294	7.368	7.448	7.528	7.528	7.448	7.364	2%
الارتفاع									
الحد									
388+260	2%	7.243	7.317	7.397	7.477	7.477	7.397	7.318	2%
الارتفاع									
الحد									
388+280	2%	7.192	7.266	7.346	7.426	7.426	7.346	7.262	2%
الارتفاع									
الحد									
388+300	2%	7.140	7.214	7.294	7.374	7.374	7.294	7.210	2%
الارتفاع									
الحد									

م. م. م. م. م.

الارتفاع والحد للقطاعات العامة
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Master Sheet For Fill (From 308+000 To 389+000)(Cream way) Rev 24 (17-10-2012)

Station	100-000	100-020	100-040	100-060	100-080	100-100	100-120	100-140	100-160	100-180	100-200	100-220	100-240	100-260	100-280	100-300	100-320	100-340	100-360	100-380	100-400	100-420	100-440	100-460	100-480	100-500	100-520	100-540	100-560	100-580	100-600	100-620	100-640	100-660	100-680	100-700	100-720	100-740	100-760	100-780	100-800	100-820	100-840	100-860	100-880	100-900	100-920	100-940	100-960	100-980	100-1000																																																																																																																																																																																																																																																																																																						
0	7.233	7.230	7.228	7.225	7.222	7.219	7.216	7.213	7.210	7.207	7.204	7.201	7.198	7.195	7.192	7.189	7.186	7.183	7.180	7.177	7.174	7.171	7.168	7.165	7.162	7.159	7.156	7.153	7.150	7.147	7.144	7.141	7.138	7.135	7.132	7.129	7.126	7.123	7.120	7.117	7.114	7.111	7.108	7.105	7.102	7.099	7.096	7.093	7.090	7.087	7.084	7.081	7.078	7.075	7.072	7.069	7.066	7.063	7.060	7.057	7.054	7.051	7.048	7.045	7.042	7.039	7.036	7.033	7.030	7.027	7.024	7.021	7.018	7.015	7.012	7.009	7.006	7.003	7.000	6.997	6.994	6.991	6.988	6.985	6.982	6.979	6.976	6.973	6.970	6.967	6.964	6.961	6.958	6.955	6.952	6.949	6.946	6.943	6.940	6.937	6.934	6.931	6.928	6.925	6.922	6.919	6.916	6.913	6.910	6.907	6.904	6.901	6.898	6.895	6.892	6.889	6.886	6.883	6.880	6.877	6.874	6.871	6.868	6.865	6.862	6.859	6.856	6.853	6.850	6.847	6.844	6.841	6.838	6.835	6.832	6.829	6.826	6.823	6.820	6.817	6.814	6.811	6.808	6.805	6.802	6.799	6.796	6.793	6.790	6.787	6.784	6.781	6.778	6.775	6.772	6.769	6.766	6.763	6.760	6.757	6.754	6.751	6.748	6.745	6.742	6.739	6.736	6.733	6.730	6.727	6.724	6.721	6.718	6.715	6.712	6.709	6.706	6.703	6.700	6.697	6.694	6.691	6.688	6.685	6.682	6.679	6.676	6.673	6.670	6.667	6.664	6.661	6.658	6.655	6.652	6.649	6.646	6.643	6.640	6.637	6.634	6.631	6.628	6.625	6.622	6.619	6.616	6.613	6.610	6.607	6.604	6.601	6.598	6.595	6.592	6.589	6.586	6.583	6.580	6.577	6.574	6.571	6.568	6.565	6.562	6.559	6.556	6.553	6.550	6.547	6.544	6.541	6.538	6.535	6.532	6.529	6.526	6.523	6.520	6.517	6.514	6.511	6.508	6.505	6.502	6.499	6.496	6.493	6.490	6.487	6.484	6.481	6.478	6.475	6.472	6.469	6.466	6.463	6.460	6.457	6.454	6.451	6.448	6.445	6.442	6.439	6.436	6.433	6.430	6.427	6.424	6.421	6.418	6.415	6.412	6.409	6.406	6.403	6.400	6.397	6.394	6.391	6.388	6.385	6.382	6.379	6.376	6.373	6.370	6.367	6.364	6.361	6.358	6.355	6.352	6.349	6.346	6.343	6.340	6.337	6.334	6.331	6.328	6.325	6.322	6.319	6.316	6.313	6.310	6.307	6.304	6.301	6.298	6.295	6.292	6.289	6.286	6.283	6.280	6.277	6.274	6.271	6.268	6.265	6.262	6.259	6.256	6.253	6.250	6.247	6.244	6.241	6.238	6.235	6.232	6.229	6.226	6.223	6.220	6.217	6.214	6.211	6.208	6.205	6.20

عن أبي عبد الله

مجلس إدارة الجامعة

مشرع و القطار المصري
عرب الفيل

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RECEIPT OF NOTIFICATION - Minimum Notice Period not less than 24 hours

We warrant that the work described below will be complete and ready for inspection at the stated time stated.

Inspector's Name: Eng. Elsayed Mohamed

Inspector's Signature: [Signature]

Inspector's Stamp: [Stamp]

Inspector Company

Inspector's Name

Inspector's Signature

Inspector's Stamp

Inspector's Name

Inspector's Signature

Inspector's Stamp

Inspector's Name

Inspector's Signature

Inspector's Stamp

Inspector's Name

Inspector's Signature

Inspector's Stamp

Description		Element		Item	
From SL	To SL	From SL	To SL	From SL	To SL
368+900	369+000	368+900	369+000	368+900	369+000
REV 20	REV 35	REV 20	REV 35	REV 20	REV 35
Fill layer (-1.00)		upper embankment			

Planned Inspection Date

Planned Inspection Time

Planned Inspection Date

Planned Inspection Time

Test Results Attached

Calibration Attached

Other as indicated

References

References

References

Comments by Eng. Elsayed Mohamed

Comments by Eng. Elsayed Mohamed

Comments by Eng. Elsayed Mohamed

Comments by Eng. Elsayed Mohamed

SECTION RESULT		Approval		Please Tick if	
Inspector	Eng. Elsayed Mohamed	Signature	Date	Time	Status
2. Survey	Eng. Mohamed Khalil	Signature	Date	Time	Status
VQC	Eng. Mazen Esam	Signature	Date	Time	Status
WB	Eng. Mazen Esam	Signature	Date	Time	Status
Employers Representative	Eng. Alaa Abd-Alattar	Signature	Date	Time	Status

 14/11/2022	 14/11/2022	Works Inspection Request	
		The request for attendance to inspect the following works :	
Discipline : ☐ Overhaul ☐ Repair ☐ New	Location : ☐ Station ☐ En route	Reference : ☐ Drawing : ET-1-0001 CL ARAB STN 25 plan view	Purpose of the inspection : ☐ Surveying ☐ Survey ☐ Test ☐ Check
Level : ☐ Level ☐ Level	Station : ☐ Station ☐ Station	Drawing : ET-1-0001 CL ARAB STN 25 plan view	Specification: ET-1-1-0001 CL ARAB STN 25 plan view
Date : 14/11/2022	Date : 14/11/2022	Signature : 	Signature : 
Serial No. : 14/11/2022	Date : 14/11/2022	Signature : 	Signature : 



Levels Of Layer (-1) From F.L. (from 388+900 to 389+000)

Station	Left Side					CL	Right Side				
	SLOPE %	14.94	12	8	4		4	8	11.44	SLOPE%	
388+900	4%	6.898	7.016	7.176	7.336	7.496	7.336	7.176	7.038	4%	
Label E.L.											
388+920	4%	6.900	7.018	7.178	7.338	7.498	7.338	7.178	7.040	4%	
Label E.L.											
388+940	4%	6.903	7.021	7.181	7.341	7.501	7.341	7.181	7.043	4%	
Label E.L.											
388+960	4%	6.905	7.023	7.183	7.343	7.503	7.343	7.183	7.045	4%	
Label E.L.											
388+980	4%	6.907	7.025	7.185	7.345	7.505	7.345	7.185	7.047	4%	
Label E.L.											
389+000	4%	6.909	7.027	7.187	7.347	7.507	7.347	7.187	7.049	4%	
Label E.L.											

11

Signature

مراجعة المهندس عمر النجار
مراجعة المهندس عمر النجار



مراجعة المهندس عمر النجار
مراجعة المهندس عمر النجار

Master Sheet For Fill (From 386+000 To 389+000)(Dream way) New 25 (17-10-2022)

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مشروع القطار السريع بحرية الفيل
مستطيل



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و به سمت بالا بردارید و به سمت بالا بردارید



STATION	N	E	WIDTH	N	E	N	E	RIGHT WIDTH	TOTAL WIDTH
388+900.00	900146.556	427206.641	14.94	900160.685m	427,212.0936m	900171.157	427216.163	11.44	26.38
388+920.00	900153.775	427187.989	14.94	900107.3974m	427,200.3818m	900178.376	427197.511	11.44	26.38
388+940.00	900160.993	427169.338	14.94	900174.5253m	427,194.7507m	900185.595	427178.859	11.44	26.38
388+960.00	900168.212	427150.686	14.94	900182.5433m	427,186.0786m	900192.814	427160.208	11.44	26.38
388+980.00	900175.431	427132.034	14.94	900189.3942m	427,187.4267m	900200.033	427141.556	11.44	26.38
389+000.00	900182.65	427113.382	14.94	900196.5831m	427,188.7749m	900207.252	427122.904	11.44	26.38

21

[Signature]



UNIVERSAL INSPECTION RECEIPT		WAY		مستند القياس		مستند القياس		مستند القياس		مستند القياس			
RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 Hours The Work described below will be completed and ready for inspection at planned time stated													
Contractor Company		Dewaili Way COMPANY				Designer Company*		SPECTRUM Engineering Consulting Office					
Issued by Contractor		Name		Sign		Date/Serial Number		Time					
		Eng. Ehsan Mohamed				18/11/2022 SS-B-DW-IR-N(15)		01:00					
Received by GARD CONSULTANT		Eng. Mazen Emery		UIR		380		380		380			
						380		380		380			
CODE - 1		S1 to S21 Station Reference				D1 to D3 Depot Reference				Sp XXX Note For Kilo meter point only Start Km is used			
CODE - 2		Work Activity											
CODE - 3		Sub Element of Activity											
EXPLANATION OF WORK TO BE INSPECTED													
Description				Element				Item					
From St.	380+200	To St.	380+300	REV 28	P1H layer (-1.75)				middle embankment				
From St.	380+303.86	To St.	380+403.86	REV 35									
INSPECTION DETAILS The Following will be ready at the Planned Inspection Time													
Planned Inspection Date						Planned Inspection Time							
COMPLIANCE EVIDENCE Must be included as appropriate													
Checklist Attached		Test Results Attached				Calibration Attached				Other as indicated			
Drawing Reference		References				MS References							
PLAN AND PROFILE (REV.35) POINT OF SHEET POINT ON PLAN MASTER SHEET FOR CUT AND FILL APPROVED BY		MAR (SS-B-DW-QT-14-01) MIR (SS-B-DW-P.1.T-02)				-Specification EARTHWORK SPECIFICATIONS -TESTING REPORT (SS-B-13-01) BY OVECON GROUP -TECHNICAL REPORT (SS-B-13-01) VERSION 1 BY OVECON GROUP							
Comments by Eng. Mohamed KHALIL (XV2)													
1- Attached Master Sheet approved by SPECTRUM 2- As Built (-1.75) fill layer coordinates , Elevations , Width													
Comments by Eng. Moustafa reyal (SPECTRUM)						Comments by: Eng. Alaa Abd-Allah (EIR)							
						1-coordinates & levels and width checked by GARD consultant							
INSPECTION RESULT													
Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend							
Contractor	Eng. Ehsan Mohamed				A								
K12 Survey	Eng. Mohamed Khalil				A								
QA/QC*	Eng. Mazen Emery				A								
GARD**	Eng. Moustafa reyal				A								
Employers Representative	Eng. Alaa Abd-Allah				A								

Contractor	 		Electrical Express Train From Borg Alarah to Alamsia From Station 388+000 To Station 389+000				Serial No. IR-9 (15)
	 		مكتب اعداد جداول				Date 10 / 11 / 2022
	Works Inspection Request						
	We request your attendance to inspect the following works :						
Discipline : ☐ Civil/Geotechnical ☐ Structure ☐ Bridge ☐ Sewer							
Location :		Zone DREAM WAY	From Station 388+200	To Station 388+300	Level (D.L-0.9) -1.75		
References		Drawing: EET-BORG EL ARAB REV 20 Plan Profile		Specification: EET 1-1.3 Earthworks Specifications and Testing Report			
Purpose of the Inspection							
☐ Surveying ☐ Setting out ☒ Levels ☐ Verticality							
Attachments							
1- LEVELS SHEET							
2- FIB LAYERS							
3- Coordinations of Layer							
Works To be Inspected		FIB layers -1.75 from 388+200 TO 388+300					
							
Submitted by: DREAM WAY Name: Signature:							
Supervision Consultant Engineer's Comments :							
checks matching the attached master sheet which approved by SPECTRUM							
The works are : ☐ Approved ☒ Approved as noted (N) ☐ Rejected (R) ☐ Rejected (R)							
Name: J.P. P. P. Signature:							
GARP Consultant Engineer's Comments :							
The works are : ☒ Approved ☐ Approved as noted (N) ☐ Rejected (R) ☐ Rejected (R)							
Name: Mazen Esamy Signature:							
General Consultant's Comments:							
1- Coordinates levels & width and master sheet checked by GARP Consultants but Xsec/2m should approved from SYSTRA							
2- Final approval is subject to above mentioned comments							
The works are : ☐ Approved ☐ Approved as noted (N) ☐ Rejected (R) ☐ Rejected (R)							
Name: Abou Abdellatif Signature:							
GARP Engineer's Comments:							
Name: Signature:							
General Consultant Eng. GARP Eng.							

Master Sheet for Fill (From 386+000 To 399+000)(Drawn Way) Rev 29 (17-10-2022)

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مكتبة
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الكتاب العربي



Station	SLOPE %	Left Side						CL	Right Side					
		Left width	Level	12	8	4	4		8	Level	Right width	SLOPE%		
388+200	0%	16.28	7.461	7.461	7.461	7.461		7.461	7.461	7.461	13.40	0%		
قرية الداء														
القرى			-1	-1	-1			-	-	-1				
388+220	0%	16.13	7.409	7.409	7.409	7.409		7.409	7.409	7.409	11.98	0%		
قرية الداء														
القرى			-	-	-	-		-	-	-1	-			
388+240	0%	16.06	7.358	7.358	7.358	7.358		7.358	7.358	7.358	12.93	0%		
قرية الداء														
القرى			-1	-	-	-		-	-1	+1	-1			
388+260	0%	15.88	7.307	7.307	7.307	7.307		7.307	7.307	7.307	10.98	0%		
قرية الداء														
القرى			A	-	-			-	-	+				
388+280	0%	16.17	7.256	7.256	7.256	7.256		7.256	7.256	7.256	12.30	0%		
قرية الداء														
القرى			-	-	-			-	-					
388+300	0%	15.97	7.204	7.204	7.204	7.204		7.204	7.204	7.204	12.57	0%		
قرية الداء														
القرى			-	-	-	-		-	-	-	-			

لرسم وانك تلتحقا ولا تلتصقا
والطريق في الداء في الداء
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UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 Hours
The Work described below will be complete and ready for inspection prior to this time

Contractor Company		Dream Way COMPANY		Designer Company*		(SPECTRUM) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/Serial Number		Time	
	Eng. Elsayed Mohamed			13/11/2022 S5-B-DW-IR-S(07)		01:00	
Received by GARB CONSULTANT	Eng. Mazen Esamy	UIR		388 EW CS 13		11 22 01 00	
	S1 to S21 Station Reference		D1 to D3 Depot Reference		Kp XXX Note For Kilo meter point only Start Km is used		
CODE - 1	Work Activity						
CODE - 2	Sub Element of Activity						
CODE - 3							

EXPLANATION OF WORK TO BE INSPECTED

Description					Element	Item
From St.	388+640	To St.	388+700	REV 29	Fill layer (-1.25)	upper embankment
From St.	388+823.86	To St.	388+883.86	REV 35		

INSPECTION DETAILS: The following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

COMPLIANCE EVIDENCE must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	References	MS References	
PLAN AND PROFILE (REV.35)	MAR (S5-B-DW-QT-12-01)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY DVECON GROUP.	
POINT OF SHEET	MIR (S5-B-DW-FDT-4)	-TECHNICAL REPORT (CG21-122.1) VERSION 1 BY DVECON GROUP.	
POINT ON PLAN			
MASTER SHEET FOR CUT AND FILL			
APPROVED BY			
(SPECTRUM) CONSULTING			

Comments by: Eng. Mohamed KHAIL (XYZ)

- 1- Attached Master Sheet approved by SPECTRUM.
- 2- As Built (-1.25) fill layer coordinates, Elevations, Width

Comments by: Eng. Mostafa royad (SPECTRUM)

Comments by: Eng. Alaa Abd-Allah (E)

1-coordinates & levels and width checked by GARB consultant

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsayed Mohamed				A	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
GARB**	Eng. Margret magdy					
Employers Representative	Eng. Alaa Abd-Allah				A	

Contractor	  		Serial No. IR-5(07)									
	 		Date 13/11/2022									
	ملاب أثار حاد ليل Electrical Express Train from Harg Alansh to /opment From Station 388+00 To Station 388+00											
	Works Inspection Request We request your attendance to inspect the following works: Discipline : ☐ Design/Protection ☐ Station ☐ Bridge ☒ Survey <table border="1"> <thead> <tr> <th>Location :</th> <th>Zone</th> <th>From Station</th> <th>To Station</th> <th>Level</th> </tr> </thead> <tbody> <tr> <td></td> <td>Drainway</td> <td>388+640</td> <td>388+700</td> <td>-1.25</td> </tr> </tbody> </table> References: Drawing: EET-BONG EL ARAB REV 26 Plan Profile Specification EETLL 1 Earthworks specifications and testing report Purpose of the inspection ☒ Surveying ☐ Setting out ☐ earth ☐ Roadside Attachments: 3- master sheet for cuttings REG29 2-daylight coordinates 3- AS BUILT SHEET FOR WORKING 4- Master sheet for fill row29 Works To be Inspected: SOIL LAYER AT (-1.25) FROM PERMA LEVEL FROM 388+640 TO 388+700 Submitted by: Drainway Signature: 			Location :	Zone	From Station	To Station	Level		Drainway	388+640	388+700
Location :	Zone	From Station	To Station	Level								
	Drainway	388+640	388+700	-1.25								
Consultants	Surveying Consultant Engineer's Comments : Length matching the attached master sheet, which approved by SPECTRUM The works are : ☐ Approved (A) ☐ Approved as noted (N) ☐ Revised/Rejected (R) ☐ Rejected (R) Name:  Signature:  GARP Consultant Engineer's Comments : Date of inspection: / /		Date of inspection: / /									
	The works are : ☒ Approved (A) ☐ Approved as noted (N) ☐ Revised/Rejected (R) ☐ Rejected (R) Name: Mazen Gamy Signature:  General Consultant's Comments: 1- BMS levels & width and Master sheet checked by GARP Consultant but Xsec / 20m must be approved from SPECTRA 2- Final approval is subject to above mentioned comments		Date: / /									
	The works are : ☐ Approved (A) ☐ Approved as noted (N) ☐ Revised/Rejected (R) ☐ Rejected (R) Name: Alan Aboukhaty Signature:  GARP Engineer's Comments: Date: 13/11/		Date: 13/11/									
	Name: Signature: GARP Eng.											

[illegible]

Dream Way width according to rev 29 (17-10-2021)									
Station	Left	X Left	Y Left	CL		Right Offset	X Right	Y Right	total width
	Offset			N	E				
388+640.00	-12.9	427,449.40	900,053.46	900,066.6423m	427,454.5060m	6.67	427,458.19	900,076.16	19.57
388+660.00	-13.02	427,430.83	900,060.87	900,073.8612m	427,435.8543m	6.67	427,439.57	900,083.46	19.69
388+680.00	-13.28	427,412.25	900,068.29	900,081.0802m	427,417.2026m	10.074	427,420.84	900,090.48	23.354
388+700.00	-13.704	427,393.60	900,075.52	900,088.2991m	427,398.5509m	11.876	427,402.84	900,099.38	25.58

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Station	Left Side						Right Side					
	SLOPE %	Left Width	Level	12	8	4	C/L	4	8	Level	Right Width	SLOPE %
388+640 قراءة الدامة الفرق	2%	12.90	6.960	6.978	7.058	7.138	7.218	7.138	7.058	7.085	6.67	2%
388+660 قراءة الدامة الفرق	2%	13.02	6.961	6.981	7.061	7.141	7.221	7.141	7.061	7.088	6.67	2%
388+680 قراءة الدامة الفرق	2%	13.28	6.957	6.983	7.063	7.143	7.223	7.143	7.063	7.072	10.07	2%
388+700 قراءة الدامة الفرق	2%	13.70	6.951	6.985	7.065	7.145	7.225	7.145	7.065	6.967	11.88	2%

				Date 21/11/2022
Material Inspection Request				
We request your attendance to inspect the following works :				
Discipline : ☐ Highway Network ☒ Road Drainage ☐ Road Side Bar				
Location :		Zone		
References		IR- Survey No. 15		
Specification: ERT U.I. Earthworks Specifications and Testing Report		From Station		
To Station		388+200		
Level		388+300		
-1.75		Level		
Attachments				
1- P.D.T result ASTM D 1556				
2- Master Sheet				
3- Previous Surveying IR 0				
4- Previous P.D.T. No. 0				
Works To Be Inspected				
Compaction test result (388+200 to 388+300) Layer (-1.75)				
Submitted by:				
Dream way		Name:		
Signature:		Signature:		
Date of Inspection:-		Date:-		
General Consultant Engineer's Comments:				
The works are :				
☐ Approved (A) ☐ Approved as noted (B) ☐ Rejected (C)				
Name:				
General Engineer's Comments:				
The works are :				
☐ Approved (A) ☐ Approved as noted (B) ☐ Rejected (C)				
Name:				
General Engineer's Comments:				
The works are :				
☐ Approved (A) ☐ Approved as noted (B) ☐ Rejected (C)				
Name:				
General Consultant Eng.				
Name:				
Signature:				
Date:-				

(1) Two sample was selected for (F.D.T)

(2) Sand cone test was carried out by centre forward GARP control

(3) Its attached and found acceptable completely with other test

(4) Final approval is subject to above mentioned comment.

Its compaction test result (4.0-7) is OK

Lab Contractor Eng.:- 		Spectrum Consultant Eng.:- 	
CONSULTANT COMMENTS			
Acceptance Criteria ☐ Comply ☐ Not Comply			
Compaction Testing Results & Calculations			
Hole No.	Station	Wt. of Sand before Test, gm	Wt. of Sand after Test, gm
1	388+250	9485	9530
2	388+300	8150	8213
		3859	3946
		1482	1482
		2377	2164
		1662	1513
		3537	3228
		2.122	2.132
		0.0	8
		2.002	2.011
		98.8%	98.2%
Modified Proctor Testing Results			
Max. Dry Density, gm/cm ³	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm ³
2.09	7.9	95%	1.430
Density and Unit Weight of Soil in Place by the Sand-Cone Method - ASTM D 1556			
Company:	Description:	Layer NO:	Layer Thickness:
Dream Way	IR-5(15)		
Station Represented:	(388+200) (388+300) M-1.75	Sample Date:	21/11/2022
DREAM WAY FROM 388+000 TO 389+000			
Lab Testing Results			
Activity: Earth Work	Date	21/11/2022	
Electrical Express train from Borg Al arab to Almarai			

   										MATERIAL INSPECTION REPORT									
Contractor Company Dream Way Company Name: _____ Date: _____ (SPECTRUM CONSULTING OFFICE)										Inspected By Contractor Eng. Ghazwan Mohamed (S.E.W. - DREAM WAY) 16/11/2022 10:00 AM Time: _____									
Received by Consultant Eng. Ghazwan Mohamed (S.E.W. - DREAM WAY) 16/11/2022 10:00 AM Time: _____										Inspected By Consultant Eng. Ghazwan Mohamed (S.E.W. - DREAM WAY) 16/11/2022 10:00 AM Time: _____									
Contractor Reference DT 01-02 DT 01-02 DT 01-02										Consultant Reference DT 01-02 DT 01-02 DT 01-02									
Site 1 Site 1 Site 1										Site 2 Site 2 Site 2									
Site 3 Site 3 Site 3										Site 4 Site 4 Site 4									
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Site 85 Site 85 Site 85																			

Serial No. FOT (12)	  	16/11/2022
		Date
Material Inspection Request		
We request your attendance to inspect the following works :		
Location : Zone : Dream way : From Station : 388+300 To Station : 388+400 Level : -1.50 Specification : EBT 1.1 Earthworks Specifications and Testing Report		
Purpose of the inspection ☐ 1. Earthworks ☐ 2. Foundation ☐ 3. Drainage ☐ 4. Other		
Attachments 1- F.O.T. result ASTM D 1556 2- Master Sheet 3- Previous Surveying IR 0 4- Previous F.O.T. No. 0 Works To be Inspected : Compaction test result (388+300 to 388+400) Layer (-1.5)		
Submitted by: Name : Signature : Date of Inspection :		
GARP Consultant Engineer's Comments : The GARP Consultant Engineer's Comments :		
GARP Engineer's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
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General Consultant's Comments : Name : Signature : Date :		
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General Consultant's Comments : Name : Signature : Date :		
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General Consultant's Comments : Name : Signature : Date :		
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General Consultant's Comments : Name : Signature : Date :		
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General Consultant's Comments : Name : Signature : Date :		
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General Consultant's Comments : Name : Signature : Date :		
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General Consultant's Comments : Name : Signature : Date :		
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General Consultant's Comments : Name : Signature : Date :		
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General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
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The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
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General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A) ☐ Approved in part (AP) ☐ Rejected (R)		
General Consultant's Comments : Name : Signature : Date :		
The works are : ☐ Approved (A)		

Handwritten note in a box at the top of the page.

Lab Contractor Eng.:-		Spectrum Consultant Eng.:-	
CONSULTANT COMMENTS			
Acceptance Criteria		Comply ☐ Not Comply ☐	
Companction Testing Results & Calculations			
Hole No.	1	2	
Surveys	388+350	388+400	
Wt. of Sand before Test, gm	8218	8608	
Wt. of Sand After Test, gm	5853	5338	
Wt. of Sand in Core + hole, gm	3585	3531	
Wt. of Sand in Core	1482	1482	
Wt. of Sand at hole, gm	2103	2049	
Volume of the Hole, cm ³	1471	1433	
Wt. of Soil from Hole, gm	3106	3039	
Bulk Density of Soil, gm/cm ³	2.146	2.113	
Moisture Content, %	6.0	6	
Dry Density, gm/cm ³	2.028	1.984	
Compaction, (%)	96.9%	96.4%	
Modified Proctor Testing Results			
Max. Dry Density, gm/cm ³	2.09	7.9	95%
Optimum Moisture Content, %			
Degree of Compaction Required, %			
Bulk Density of Specified Sand, gm/cm ³			1.438
Density and Unit Weight of Soil in Place by the Sand-Cone Method - ASTM D 1556			
Company:	Dream Way	Layer No:	M-1.50
Description:	M-5 (12)	Layer Thickness:	FOI 12
Station Represented:	(388+300) (388+400) M-1.50	Sample Date:	16/11/2022
Activity : Earth Work			
Lab Testing Results			
DREAM WAY FROM 388+000 TO 389+000			
Electrical Express train from Borg Al arab to Almamri			
Date 16/11/2022			

MATERIAL INSPECTION REQUEST



الهيئة العامة
للمرور والكباري
(GARB)



الهيئة العامة للمرور والكباري
(GARB)



Contractor Company	Dream Valley Company		Designer Company	(SPECTRUM) Consulting Office				
Issued by Contractor	Name	Sign	Date/Serial Number		Time			
	Eng. ELsaeed Mohamed		19/11/2022 (S5-B-DW) FDT(13)		10:00 AM			
Received by GARB CONSULTANT	Eng. Mazen Esamy		MR	308	EW	CS	20	11 22 10 00

0000-1	S1 to S21	D1 to D2	Hq. XXX Name
	Station Reference	Depot Reference	For Klemmer point only Start Km is used
0000-2	Work Activity		
0000-3	Sub Element of Activity		

Description of Materials	FILL LAYER(-1.00)		
Location to be Used	From	308+640 308+823.86	TO 308+700 308+883.86
	S5-B-DWR-S(13)		19/11/2022
MAR & UIR Approval No	MAR(S5-B-DW-Q.T.-13-01)		Date 13/11/2022
Supplier Name	ELSEWY, DREAM WAY		
Test Requirement	F.D.T (ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CINECON GROUP
Reference Photos	No/Yes	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	SAND CONE TEST	NUMBER	2	20/11/2022	
2					
3					
4					

Comments by: Eng. Mazen Esamy (Spectrum)	Comments by: Eng. Alaa Abd-Allatif (ER)
1-The Compaction Test Result F.D.T. (ASTM D 1556) is Approved.	1-F.D.T was carried- out by material engineer for both contractor and GARB Consultant 2-Results report attached and acceptable with project specifications.



APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. ELsaeed Mohamed		20/11/2022	A
QA/QC *	Eng. Mazen Esamy			A
GARB**	Eng. Margret			
Employers Representative	Eng. Alaa Abd-Allatif			A

* Engineer
** Approval/Bridges, Culverts only



Serial No.
FDT
(13)



مكتب إدارة أعمال
Electrical Express Train From Borg Al Arab to Alamein
From Station 388+000 To Station 389+000



Date
21/11/2022

Material Inspection Request

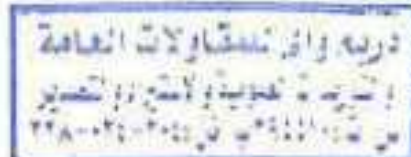
We request your attendance to inspect the following works :

Discipline : ☐ Material submittal ☒ Test Empty Tank ☐ Place Sub Soil

Location :	Zone	From Station	To Station	Level
	Dream way	388+640	388+700	-1.00
References	IR- Survey No. 13			
	Specification: EET L1.1.Earthworks Specifications and Testing Report			

Purpose of the inspection

1. Earthworks
- ☐ Actual Sub-Grade
 - ☐ Sub-Soil
 - ☐ Cooper Embankment
 - ☐ Rollout
 - ☒ L / M Excavation
 - ☐ Final Section



Attachments

- 1- F.D.T result ASTM D 1556
- 2-Master Sheet
- 3- Previous Surveying IR 7
- 4-Previous F.D.T. No. 7

Works To be Inspected: Compaction test result (388+640 to 388+700) Layer (-1)

Submitted by: Dream way Name: Signature:

GARP Consultant Engineer's Comments :

Date of inspection: 21/11/2022

the Compaction test result (F.D.T)



The works are : ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revised Request (C) ☐ Rejected (D)

Name: Hazen Emmy
General Consultant's Comments:

Signature:
Date: 21/11/2022

- 1) Two Sample was selected for (F.D.T)
2) Sand Cone Test was carried out by Contractor and GARP Eng.
3) Results attached and found acceptable and comply with Design
4) final Approval is Subject to mentioned Comment.

The works are : ☐ Approved (A) ☒ Approved as Noted (B) ☐ Revised Request (C) ☐ Rejected (D)

Name: Abu Abotellat Signature:
GARP Engineer's Comments: Date: 22/11/2022

Name: General Consultant Eng. Signature: GARP Eng.



Electrical Express train from Borg Al arab to Alamein

Activity : Earth Work

النوع اختبارات المعمل

Date

21/11/2022

Density and Unit Weight of Soil in Place by the Sand-Cone Method – ASTM D 1556

Company:	Dream Way	Layer NO:	M-1.00
Description :	IR 13	Layer Thickness:	FOT 13
Station Represented :	(388+640) (388+700)M-1.00	Sample Date :	21/11/2022

Modified Proctor Testing Results

Max. Dry Density, gm/cm^3	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm^3
2.09	7.9	95%	1.430

Compaction Testing Results & Calculations

Hole No.	1	2						
Stations	388+650	388+700						
Wt. of Sand before Test, gm	8762	8216						
Wt. of Sand After Test, gm	8124	4583						
Wt. of Sand in Cone + hole, gm	3636	3533						
Wt. of Sand in Cone	1330	1330						
Wt. of Sand in hole, gm	2306	2203						
Volume of the Hole, cm^3	1614	1610						
Wt. of Soil from Hole, gm	3461	3307						
Bulk Density of Soil, gm/cm^3	2.144	2.103						
Moisture Content, %	8.6	8						
Dry Density, gm/cm^3	2.023	2.003						
Compaction, (%)	96.8%	95.8%						

Acceptance Criteria

Comply

☐

Not Comply

☐

CONSULTANT COMMENTS

Lab Contractor Eng.:-

Spectrum Consultant Eng.:-

ملاحظة: ذات الصلة بالملحقات
المرفقة مع التقرير
من ٢٠٢٢-٠٣-٢٨



Serial No.
FDT
(08)



مكتب أ/أ/ عبد الحليم
Electrical Express Train From Burg Al Arab to Alamein
From Station 388+000 To Station 389+000



Date
15/11/2022

Material Inspection Request

We request your attendance to inspect the following works :

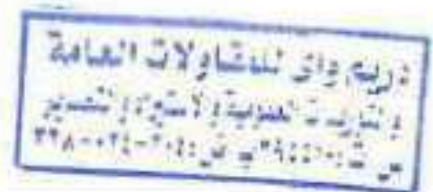
Discipline : ☐ Material control ☒ Field Density Test ☐ Field Moisture Test

Location :	Zone	From Station	To Station	Level
	Dream way	388+000	389+000	-1.00

References IR- Survey No. 5 Specification: EET 1.1.1 Earthworks Specifications and Testing Report

Purpose of the inspection

1. Earthworks
- | | |
|--|-------------------------------------|
| ☐ Natural Sub-grade | ☐ Sub-base |
| ☐ Upper Embankment | ☐ Gravel |
| ☒ L/H Embankment | ☐ Excavation |



Attachments

- | | |
|-----------------------------|-------------------------|
| 1- F.D.T result ASTM D 1556 | 2-Master Sheet |
| 3- Previous Surveying IR | 4-Previous F.D.T. No. 5 |

Works To be Inspected Compaction test result (388+900 to 389+000) Layer (-1)

Submitted by: Dream way Name: Signature:

GARP Consultant Engineer's Comments :

The Compaction test result is ok

Date of Inspection: / /

The works are : ☒ Approved (A) ☐ Approved as noted (AN) ☐ Revised (R) ☐ Rejected (R)

Name: Maren Emry

Signature:

General Consultant's Comments:

Date: / /

- Two Sample was selected for (F.D.T).
- Sand Cone Test was carried out by Contractor and GARP on
- Results attached is acceptable and completely with project spec.
- final approval is subjected to mentioned comments

The works are : ☒ Approved (A) ☐ Approved as noted (AN) ☐ Revised (R) ☐ Rejected (R)

Name: Alan Abdelkader

Signature:

GARP Engineer's Comments:

Date: 16/11

Name:

Signature:

General Consultant Eng.

GARP Eng.

Contractor Company	Dream Way	Designer Company	SPECTRUM ENGINEER CONSULTING OFFICE
Issued by Contractor	Name: Eng. SAIED MOHAMMED Sign:	Date/Serial Number 16/1/2023 (S5-B-DW) (P.L.T.07)	Time 10:00 AM
Received by GARIB CONSULTANT	Eng. MAZEN ESSAMY Sign:	MR	

000-2	SA to SP2	01 to 53	Kp XXX Note
	Station Reference	Depart Reference	For Kilometer pole only Start Km is used
000-2	Work Activity		
	Sub Element of Activity		

Description of Materials		FERMA				
Location to be Used	REV.29	388+200	TO	388+300		
	REV.35	388+383.86		388+483.86		
Supplier Name	محاجر السوي - العنبر					
Test Requirement	P.L.T (DIN 18134)		Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CS21-PL2) VERSION 2 BY ORECON GROUP		
Reference Photos	No/Yes		Other	S5-B-DW-IR-5(S2) S5-B-DW-QT(19-1)		
Item	Description		Unit	Quantity	Arrival Date	Note
1	PLATE LOAD TEST		NUMBER	4	18/1/2023	
2						
3						
4						

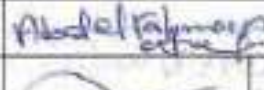
Comments by: Eng. MAZEN ESSAMY (Spectrum)	Comments by: Eng. Alaa Abd-Allatif (ER)
 1-The Plate Load Test Result (P.L.T. (DIN 18134)) is Approved.	1-P.L.T was carried out by third party lab (CEL). 2-Results report attached and acceptable with project specifications.

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. SAIED MOHAMMED			A
QA/QC*	Eng. MAZEN ESSAMY			A
GARB**	Eng. Margret magdy			
Employer's Representative	Eng. Alaa Abd-Allatif			A

* Designer

** Agreement/Signature Date is only

شركة سبكتروم
التقنية والهندسة
محاجر السوي - العنبر
16/1/2023

Contractor Company	DREAM WAY			Designer Company				SPECTRUM Engineering Consulting Office			
Issued by Contractor	Name	Sign	Date/Serial Number				Time				
	Eng. Abdelrahman Ataf		17/12/2022				3:00 PM				
			PLT/08								
Received by GARB CONSULTANT	Eng. Mazen Essamy		MR	C1	C2	C3	DD	MM	YY	HH	MM
				388	EW	ES	18	1	23	3	6

Kilometer	SS to S23	D3 to D3	Rd No/ Name
	Station Reference	Depot Reference	For Kilometer point only Start Km is used
Activity	Work Activity		
	Sub Element of Activity		

Location to be Used		From	388+200	TO	388+300
MAR		QT(12-2)	Date	20/12/2022	
Supplier Name		ELSEWY , Dream way			
Test Requirement		PLATE LOAD TEST ON FERMA	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (02/2014) VERSION 2 BY CYTECON GROUP	
Reference Photos		No/Yes	Other	UR -5-48	
Item	Description	Unit	Quantity	Arrival Date	Note
1	PLT BY CONSULTING ENGINEERING BUREAU&LABORATORIES	NUMBER	2		
2					
3					
4					

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allatif (ER)
 1-The plate load test result by third party is approved.	1-2 points of plt. was carried-out by (CEL) on ferma layer 2-Results report attached and acceptable with project specifications. 3-Final approval is subject to above mentioned comments.

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-B
Contractor	Eng. Abd el rahman ataf			A
QA/QC*	Eng. Mazen Essamy			A
GARB**	Eng. Mohammed Fayad			
Employer's Representative	Eng. Alaa Abd-Allatif			AWC

* Designer

** Alignment/Bridges Culvert only

19/10/1

Contractor Company	AlMotahada 2 CO. for Contracting and Paving Roads	Designer Company	(SPECTRUM) Engineering Consulting Office
Issued by Contractor	Name	Sign	Date/Serial Number
	Eng. Abdelrahman Ataf		17/1/2023 PLT008
Received by GARU CONSULTANT	Eng. Mazen Essamy		MR

Kilometer	90 to 333	01 to 33	KmXXX Note
	Station Reference	Diput Reference	For Kilometer point only Start Km is used
	Work Activity		
	Sub Element of Activity		

Location to be Used	From	388+200	TO	388+300
MAIL		Date	15/1/2023	
Supplier Name	ELSEWY , Dream way			
Test Requirement	PLATE LOAD TEST	Specification	GARHWORX SPECIFICATIONS & TESTING REPORT (C023-41.2) VERSION 2 BY QVECON GROUP	
Reference Photos	No/Yes	Other	uik—	
Item	Description	Unit	Quantity	Arrival Date
1	PLT BY CONSULTING ENGINEERING BUREAU&LABORATORIES	NUMBER	2	
2				
3				
4				

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allah (ER)
	1-2 points of plt was carried- out by (CEL) on ferme layer 2-Results report attached and acceptable with project specifications. 3-Final approval is subject to above mentioned comments.

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Abdelrahman ataf			A
QA/QC *	Eng. Mazen Essamy			A
GARB**	Eng. Mohammed Fayad			
Employers Representative	Eng. Alaa Abd-Allah			

* Designer

** Alignment/Bridges: Civil only

Company : شركة دريم واى

Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (8)
- Borg AlArab to Foka
Subject : Determine the deformation and strength characteristics of soil by the plate loading test according specifications DIN 18134:2012-04 and project requirements
Test Location: Station 388+200 to 388+300
Test Date : 17/01/2023
Report Date : 18/01/2023
Type of Soil : A-1-a
Type of soil : Upper Embankment (Ferma).
Report No. : 96/97

دريم واى للاستشارات الهندسية
مكتب معامل الاستشارات الهندسية
تحت إشراف المهندس
17/01/2023

Dear Gentleman,

According to the above mentioned subject the test performed as follows:-

Apparatus

1. Loading plates consists of two plates with 600 mm and 300 mm diameter
2. The thickness of plates 30 mm
3. Dial gauges with accuracy 0.01 mm to measuring the settlement
4. Steel straightedges with magnetic supports to fixed the dial gauges
5. Hydraulic jack with pump to transfer reactive loads to the loading plates
6. Dial indicator measuring device with scale capacity 700 Bar (Enerbac)
7. Reaction loading system by roller compactor with weight approximately 15 ton
8. Calibration certificates are attached

Test Procedure

1. Clean the ground on test area to the required level with undisturbed soil
2. Install loading plates 600 mm and 300 mm diameter, hydraulic jack and 3 dial gauges
3. Prior to starting the test applied preloading about 30 seconds
4. The strain gauge and the dial gauge shall be set to zero
5. For a 600 mm loading plate, the limit values are 2.5 kg/cm²
6. The load shall be applied in six stages, in approximately equal increments, until the required maximum normal stress is reached.
7. Each change in load (from stage to stage) shall be completed within one minute
8. The load shall be released in 3 stages, to 50 % , 25 % , and approximately 2 % of the maximum load.
9. Following unloading, a further (2nd) loading cycle shall be carried out, in which, however, the load is to be increased only to the penultimate stage of the first cycle (so that the full load is not reached).
10. At each stage the load shall be maintained until the rate of settlement of the plate becomes less than 0.02 mm/min.
11. Remove the loads



Report

1. Evaluation and representation of results
2. Load Settlement curve
3. The test report content the following:-
 - location of test site - Dimension of loading plate
 - Measuring device used - Type of soil
 - Type of Bedding material below the plate - Weathering condition
 - Time and date of measurements - Unusual observation made during test
 - Dial gauge reading and corresponding normal stress - Loading-settlement curve
 - Description of the soil condition below the plate after testing

أقرت
وتميزت
بشأن
27/01/2023

Report

Type of Soil : Upper Embankment (Ferma).

Job Requirement : $E_{v2} > 600 \text{ Kg/cm}^2$ (60 MPa).

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Partly Sunny
- Plate Diameter (mm)	600
- date of measurement	17/01/2023
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

Evaluation and representation of results

Test No.	Station		First Cycle	Second Cycle	E_{v2}/E_{v1} Ratio
	From	To	$E_{v1} (\text{kg/cm}^2)$	$E_{v2} (\text{kg/cm}^2)$	
1	388+200	388+250	1607	1607	1.0
2	388+250	388+300	1286	2045	1.6

Signature /

مكتب معامل الاستشارات الهندسية
3 شارع الملك الراحل
الزمالك - القاهرة



CEL

Consulting Engineering Bureau & Laboratories
مكتب معامل الاستشارات الهندسية

تمت في
مكتب
مهندس
2023-01-18

Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 17/01/2023
report date : 18/01/2023
Location : Station 388+200 to 388+250
Test No. : 1

Nonrepetitive Static Plate Load Tests of Soils DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.84	0.16	19.83	0.17	19.90	0.10	0.14
2	0.83	19.71	0.29	19.70	0.30	19.78	0.22	0.27
3	1.25	19.60	0.40	19.58	0.42	19.65	0.35	0.38
4	1.67	19.48	0.52	19.46	0.54	19.55	0.45	0.50
5	2.08	19.36	0.64	19.34	0.66	19.46	0.54	0.61
6	2.50	19.26	0.74	19.24	0.76	19.37	0.63	0.71

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.26	0.74	19.24	0.76	19.37	0.63	0.71
2	1.25	19.30	0.70	19.30	0.70	19.40	0.60	0.67
3	0.825	19.46	0.54	19.48	0.52	19.56	0.44	0.50
4	0.01	19.74	0.26	19.78	0.22	19.82	0.18	0.22

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.67	0.33	19.68	0.32	19.78	0.22	0.29
1	0.83	19.56	0.44	19.54	0.46	19.66	0.34	0.41
2	1.25	19.45	0.55	19.42	0.58	19.54	0.46	0.53
3	1.67	19.35	0.65	19.32	0.68	19.44	0.56	0.63
4	2.08	19.25	0.75	19.22	0.78	19.36	0.64	0.72
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature

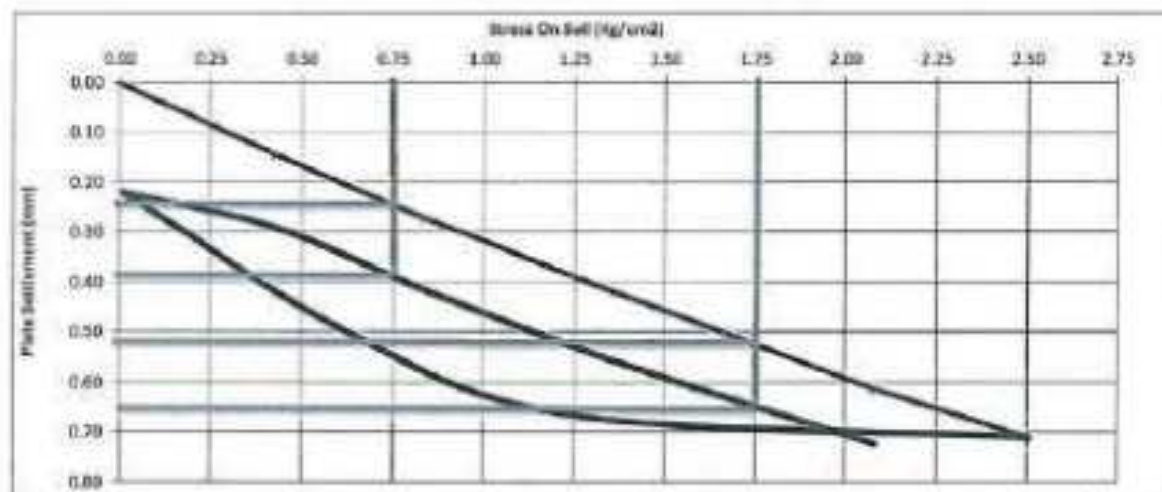

مكتب
مهندس
2023-01-18



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 17/01/2023
report date : 18/01/2023
Location : Station 388+200 to 388+250
Test No. : 1

مركز وادي لمقار لخدمة العملاء
والتي هي من خدماتنا المتميزة
والتي نقدمها لكم في كل وقت
وتحت إشرافنا المباشر
بمكتبنا في القاهرة
388+200 - 388+250

Nonrepetitive Static Plate Load Tests of Soils DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.14	0.27	0.39	0.50	0.61	0.71

Unloading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	0.71	0.67	0.50	0.22

D (mm) = 600	S1 (mm) = 0.24	S2 (mm) = 0.52	ΔS = 0.28
$R_v1 (kg/cm^2) = (0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	1607		

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.22	0.29	0.41	0.53	0.63	0.72

$$E_v2/E_v1 = 1.0$$

D (mm) = 600	S1 (mm) = 0.38	S2 (mm) = 0.66	ΔS = 0.28
$E_v2 (kg/cm^2) = (0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	1607		

E_v1 = Modulus of deformation during the loading stage.

E_v2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δs = The difference between 6.3 and 6.7 from the maximum loading (mm) (kg/cm²)

ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

Signature: 
مكتب استشارات وخدمات الهندسية
388+200 - 388+250





Company Name : dream Way Co.
 Project : Electric Express Train, from Borg Al Arab to Alamein.
 Test Date : 17/01/2023
 report date : 18/01/2023
 Location : Station 388+250 to 388+300
 Test No. : 2

Nonrepetitive Static Plate Load Tests of Soils DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.82	0.18	19.83	0.17	19.83	0.17	0.17
2	0.83	19.70	0.30	19.71	0.29	19.71	0.29	0.29
3	1.25	19.58	0.42	19.51	0.49	19.57	0.43	0.45
4	1.67	19.37	0.63	19.41	0.59	19.43	0.57	0.60
5	2.08	19.25	0.75	19.28	0.72	19.32	0.68	0.72
6	2.50	19.14	0.86	19.18	0.82	19.21	0.79	0.82

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.14	0.86	19.18	0.82	19.21	0.79	0.82
2	1.25	19.17	0.83	19.22	0.78	19.26	0.74	0.78
3	0.625	19.21	0.79	19.26	0.74	19.41	0.59	0.71
4	0.01	19.34	0.46	19.58	0.42	19.81	0.19	0.36

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.46	0.54	19.50	0.50	19.65	0.35	0.46
1	0.83	19.40	0.60	19.41	0.59	19.51	0.49	0.56
2	1.25	19.34	0.66	19.32	0.68	19.37	0.63	0.66
3	1.67	19.29	0.77	19.28	0.77	19.31	0.69	0.74
4	2.08	19.22	0.88	19.20	0.90	19.26	0.74	0.84
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature

مكتبة معامل الإستشارات الهندسية
 مركز البحوث والدراسات الهندسية

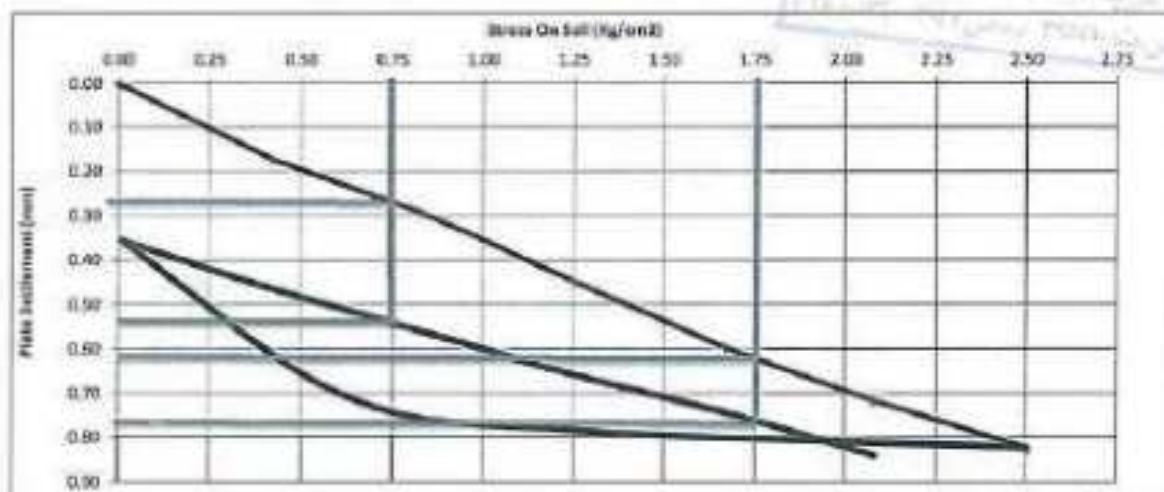


CEL

Consulting Engineering Bureau & Laboratories
مكتب معمل الإستشارات الهندسية

Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 17/01/2023
report date : 18/01/2023
Location : Station 388+250 to 388+300
Test No. : 2

Nonrepetitive Static Plate Load Tests of Soils DIN 18134



Loading (T)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.17	0.29	0.46	0.60	0.72	0.82

UnLoading (T)	1	2	3	4
Stage(Kg)	7065	3533	1765	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	0.82	0.76	0.71	0.36

D (mm) = 600	S1 (mm) = 0.27	S2 (mm) = 0.62	ΔS = 0.35
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	1286		

$$Ev2/Ev1 = 1.6$$

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.36	0.46	0.56	0.66	0.74	0.84

D (mm) = 600	S1 (mm) = 0.54	S2 (mm) = 0.76	ΔS = 0.22
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	2045		

Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Reloading stage.
D = Plate diameter (mm)
Δs = The difference between S2 and S1 from the maximum loading (mm) (kg/cm²)
ΔS = Difference in settlements corresponding to S2 and S1 from the maximum loading (mm)

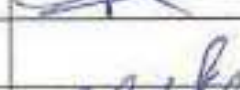
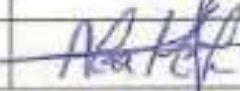


Contractor Company	Dream Way for construction		Designer Company	SPECTRUM				
Issued by Contractor	Name	Sign	Date/Serial Number	Time				
	Eng. ElSaeed Mohamed		26/10/2022 (SS-B-DW) (P.L.T.01)	10:00 AM				
Received by G&B CONSULTANT	Eng. Mazen Esamy		MS	C1	C2	C3	DD	MM
				25	10	22	10	0

CIVIL	SS to SS2	SS to SS	By XDC Note
	Station Reference	Depot Reference	For Kilometer point only Start Km is used
SS to SS2	Work Activity		
SS to SS2	Sub Element of Activity		

Description of Materials		FILTER				
Location to be Used		REV 29	388+500	TO	389+000	
		REV 35	388+683.86	TO	389+183.86	
Supplier Name		مهاجر السيوي - العتيق				
Test Requirement		P.L.T (DIN 18134)		Specification		
Reference Photos		No/Yes		Other		
				PART H WORKING OPERATIONS & TESTING REPORT (SS21-4L2) VERSION 2 BY CIVEION GROUP		
				[SS-B-DW-IR F(01)], [SS-B-DW-IR F(02)], [SS-B-DW-IR F(03)], [SS-B-DW-IR F(04)], [SS-B-DW-IR F(05)], [SS-B-DW-IR F(06)], [SS-B-DW-IR F(10)]		
Item	Description		Unit	Quantity	Arrival Date	Note
1	PLATE LOAD TEST		NUMBER	5	29/10/2022	
2						
3						
4						

Comments by: Eng. Mazen Esamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allah (BR)
 1-The Plate Load Test Results of (DIN 18134) is Approved.	1-P.L.T was carried-out by third party lab (CEL) . 2-Results report attached and acceptable with project specifications.

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. ElSaeed Mohamed		29/10/2022	A
QA/QC *	Eng. Mazen Esamy			A
G&B**	Eng. Margret Magdy			
Employers Representative	Eng. Alaa Abd-Allah			A

* Designer

** Alignment/Bridges/Culverts etc



Electrical Express Train From Bang Alorab
to Alamein
From Station 388+000 To Station 389+000



Serial No.
PLT
(1)



مكتب أ.م. عبد الله



Date
27/10/2022

Material Inspection Request

We request your attendance to inspect the following works :

Discipline :	☐ Material submittal	☐ FIELD COMBUSTION TEST	☒ PLATE LOAD TEST
Location :	Zone Dream way	From Station 388+500	To Station 389+000
References	Specification: EET L1.1. Earthworks Specifications and Testing Report		

Purpose of the inspection

1. Earthworks

- | | |
|--|--|
| ☐ Natural Sub Grade | ☐ Sub Base |
| ☐ Upper Embankment | ☐ Surface |
| ☐ 1.5' H Embankment | ☒ FILTER LAYER |

Attachments

1- Plate load test Report

2-

3-

4-

Works To be Inspected

Plate load test by consulting Engineering Bureau & Laboratories

Submitted by: Dream way

Signature:

Date of Inspection: 27/10/2022

GARP Consultant Engineer's Comments :

The plate load test result by third party is acceptable

The works are :

☒ Approved (A)

☐ Approved as noted (B)

☐ Revised Specification (C)

☐ Rejected (D)

Name: Mazen Gamy

Signature:

Date: 27/10/2022

General Consultant's Comments:

- (1) 5 points of PLT was carried out by (CEL) on filter layer
- (2) Result attached and found acceptable and completely as specs
- (3) final approval is subject to above mentioned comments

The works are :

☒ Approved (A)

☐ Approved as noted (B)

☐ Revised Specification (C)

☐ Rejected (D)

Name:

Signature:

Date: 30/10/2022

GARP Engineer's Comments:

Name:

Signature:

General Consultant Eng.

GARP Eng.



الهيئة العامة للطرق والمواصلات

Serial No.
10-F(01)

مكتب (إدارة) الطرق
Electrical Supply Trunk from Burg Al-Hadid to Al-Hadid
From Station 300+00 To Station 300+00



Date
1/10/2023

Works Inspection Request

We request your attendance to inspect the following works:

Discipline:	☐ Electrical	☐ Drainage	☐ Bridge	☐ Sewer
Location:	From	To Station	To Station	Level
	300+00	300+500	300+720	0.70
Reference	Drawing: ECT-0000 EL. ROAD NEW 2018 Profile			
	Specification: M.T.C. & S. & S. Specifications and testing results.			

Purpose of the inspection

- Service:
- ☐ Sewer
 - ☐ Road
 - ☐ Water

Attachments:

1- Master sheet for cut for 300+720

2- daylight coordinates

3- Submittal form

4- PLAN

Works To Be Inspected

AS BUILT FOR FILTER LAYER FROM STATION 300+520 TO 300+720

Submitted by: Imanway

Signature: [Signature]

Responsible Consultant Engineer's Comments:

Date of inspection: 1 / 1

The works are:

☐ Approved (A)

☐ Approved with remarks (A)

☐ Rejected (R)

☐ Rejected (R)

Name: Mohamed Munsav

Signature: [Signature]

General Consultant's Comments:

Date of inspection: 1 / 1

The works are:

☐ Approved (A)

☐ Approved with remarks (A)

☐ Rejected (R)

☐ Rejected (R)

Name: Hazen Gorny

Signature: [Signature]

General Consultant's Comments:

Date: 1 / 1

The works are:

☐ Approved (A)

☐ Approved with remarks (A)

☐ Rejected (R)

☐ Rejected (R)

Name:

Signature:

QA/QC Engineer's Comments:

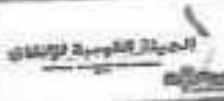
Date: 1 / 1

Name:

Signature:

QA/QC Eng.





Serial No.
10-2(02)

ملف رقم 101
Receival/Export form from SAG Jeddah to Almadina
From Station 388+00 to Station 388+00



Date
16/10/2022

Works Inspection Request

We request your attendance to inspect the following works :

Discipline : ☐ Drainage/Storm ☐ Bridge ☐ Tunnel ☐ Sewer ☐ Road

Location : ☐ Road ☐ Freeway ☐ Station 388+720 To 388+820 6.70 متر من تقاطع

Reference : Drawing: 021-0000 25 0000 001 30 Plan Profile Specifications I.C.L. and works specifications and traffic signs

Purpose of the inspection

☒ Surveying
☐ Bridge
☐ Sewer
☐ Tunnel

Attachment

1- master sheet for cut for R/W

2-daylight coordinates

3- As-built levels

4- R/W

Works to be inspected AS BUILT FILTER LAYER FROM STATION 388+720 TO 388+820

Submitted by : Drusway
Responsible Consultant Engineer's Comments :

Signature: [Signature]
Date of Inspection: 1 / 1

The works are : ☐ Approved ☐ Approved with (R) ☐ Approved with (S) ☐

Name: Mohamed Mansour
SAG Consultant Engineer's Comments :

Signature: [Signature]
Date of Inspection: 1 / 1

The works are : ☐ Approved ☐ Approved with (R) ☐ Approved with (S) ☐

Name: Mazen Emam
Responsible Consultant Engineer's Comments :

Signature: [Signature]
Date: 1 / 1

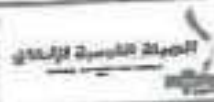
The works are : ☐ Approved ☐ Approved with (R) ☐ Approved with (S) ☐

Name: [Signature]
SAG Engineer's Comments :

Signature: [Signature]
Date: 1 / 1

Name: [Signature]
SAG Eng.





Serial No.

10-2(03)

Date

11/10/2022

مكتب (إ) جدة
Department of Express Trains from Jeddah to Al-Medina
From Station 388-02 to Station 389-00



Works Inspection Request

We request your attendance to inspect the following works:

Discipline:	☐ Railway Protection	☐ Station	☐ Signal	☐ Tunnel
Location:	Area	From Station	To Station	Length
	Groundwork	388+025	389+000	0.975 Km
Reference	Drawing: 127-0000 EL ALAS REV 20 Plan Profile			

Purpose of the inspection

Surveying

☐ Surveying☐ Level☐ Volume

Attachments

1- machine sheet for cut for CENB

2- daylight coordination

3- As-built levels

4- PLAN

Works to be inspected

AS DAILY FILTER LATER FROM STATION 388+020 TO 389+000

Submitted by:

Overseer

Signature:

Date of Inspection:

Supervisor: Dr. Mohamed Karamalla

The works are:

☐ Approved (A)☐ Approved with (B)☐ Not approved (C)

Signature:

Date of Inspection:

Name: Mohamed Karamalla
GARP Consultant Engineer's Committee

The works are:

☐☐☐

Signature:

Date:

Name: Hazem Ghamy
General Consultant's Committee

The works are:

☐☐☐

Signature:

Date:

Name: GARP Engineer's Committee

Name:

Signature:

GARP Eng.



Company : شركة دريم واى

Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (6)
- Alamein to Foka
Subject : Determine the deformation and strength characteristics of soil by the plate loading test according specifications DIN 18134:2012-04 and project requirements
Test Location: Station 388+500 to 389+000.
Test Date : 27/10/2022
Report Date : 29/10/2022
Type of soil : Fill Filter (Mix of Size 1, 2, 3)
Report No. : 03:07

Dear Gentleman,

According to the above mentioned subject the test performed as follows:-

Apparatus

1. Loading plates consists of two plates with 600 mm and 300 mm diameter
2. The thickness of plates 30 mm
3. Dial gauges with accuracy 0.01 mm to measuring the settlement
4. Steel straightedges with magnetic supports to fixed the dial gauges
5. Hydraulic jack with pump to transfer reactive loads to the loading plates
6. Dial indicator measuring device with scale capacity 700 Bar (Enerbac)
7. Reaction loading system by roller compactor with weight approximately 15 ton
8. Calibration certificates are attached

Test Procedure

1. Clean the ground on test area to the required level with undisturbed soil
2. Install loading plates 600 mm and 300 mm diameter, hydraulic jack and 3 dial gauges
3. Prior to starting the test applied preloading about 30 seconds.
4. The strain gauge and the dial gauge shall be set to zero
5. For a 600 mm loading plate, the limit values are 2.5 kg/cm²
6. The load shall be applied in six stages, in approximately equal increments, until the required maximum normal stress is reached.
7. Each change in load (from stage to stage) shall be completed within one minute
8. The load shall be released in 3 stages, to 50 % , 25 % , and approximately 2 % of the maximum load.
9. Following unloading, a further (2nd) loading cycle shall be carried out, in which, however, the load is to be increased only to the penultimate stage of the first cycle (so that the full load is not reached).
10. At each stage the load shall be maintained until the rate of settlement of the plate becomes less than 0.02 mm/min.
11. Remove the loads

Report

مكتب معامل الاستشارات الهندسية
الاستشارات المعمارية
219-501-357
الرياض - جدة
2022



1. Evaluation and representation of results
2. Load Settlement curve
3. The test report content the following:-
 - location of test site - Dimension of loading plate
 - Measuring device used - Type of soil
 - Type of Bedding material below the plate -Weathering condition
 - Time and date of measurements - Unusual observation made during test
 - Dial gauge reading and corresponding normal stress - Loading-settlement curve
 - Description of the soil condition below the plate after testing



Report

- Type of Soil : Fill Filter (Mix of Size 1,2,3)
- Job Requirement : $E_{v2} > 300 \text{ Kg/cm}^2$ (30 MPa).

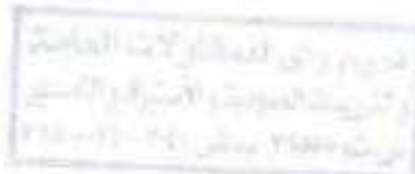
Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Sunny
- Plate Diameter (mm)	600
- date of measurement	27/10/2022
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

Evaluation and representation of results

Test No.	Station		First Cycle	Second Cycle	E_{v2}/E_{v1} Ratio	Remarks
	From	To	$E_{v1} (\text{kg/cm}^2)$	$E_{v2} (\text{kg/cm}^2)$		
1	388+500	388+600	333	1500	4.5	---
2	388+600	388+700	409	1800	4.4	---
3	388+700	388+800	375	1500	4.0	---
4	388+800	388+900	237	1286	5.4	---
5	388+900	389+00	391	1800	4.6	---

Signature /





Company Name : شركة تريم واي
Project : Electric Express Train, from Al Ain Sekhea to Marsa Matrouh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+500 to 388+600
Test No. : 01

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.50	0.50	19.67	0.33	19.78	0.22	0.35
2	0.83	19.10	0.90	19.38	0.62	19.50	0.50	0.67
3	1.25	18.70	1.30	19.00	1.00	19.10	0.90	1.07
4	1.67	17.58	2.41	18.40	1.60	18.40	1.60	1.87
5	2.08	17.17	2.83	18.10	1.90	17.90	2.10	2.28
6	2.50	16.85	3.15	17.80	2.20	17.28	2.72	2.69

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	16.85	3.15	17.80	2.20	17.28	2.72	2.69
2	1.25	16.88	3.12	17.85	2.15	17.32	2.68	2.65
3	0.625	16.98	3.02	17.95	2.05	17.52	2.48	2.52
4	0.01	17.25	2.75	18.20	1.80	17.55	2.05	2.20

Loading Stage (2)

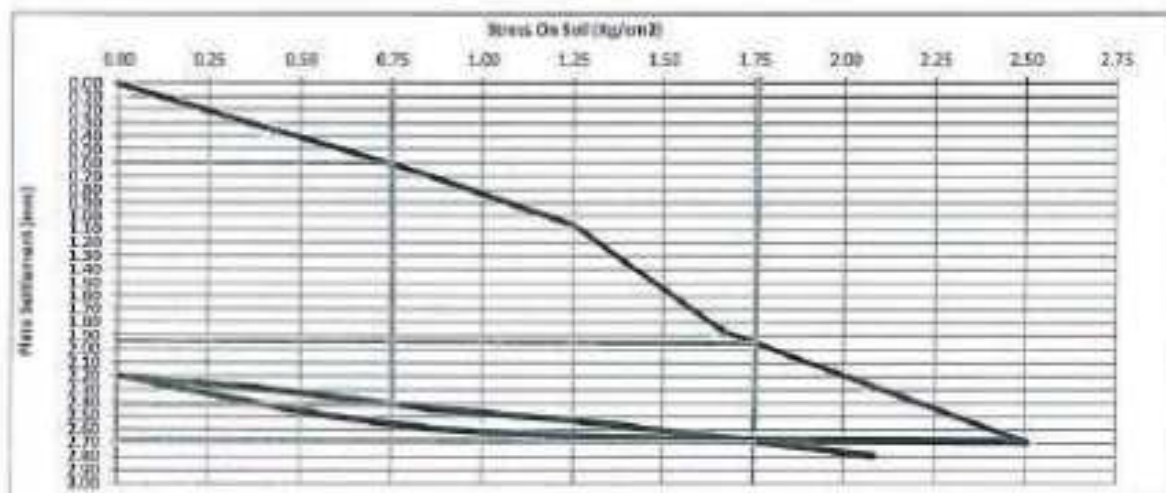
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.17	2.83	18.10	1.90	17.82	2.18	2.30
1	0.83	17.08	2.92	17.97	2.03	17.64	2.36	2.44
2	1.25	17.00	3.00	17.90	2.10	17.50	2.50	2.53
3	1.67	16.90	3.10	17.80	2.20	17.32	2.68	2.66
4	2.08	16.80	3.20	17.67	2.33	17.15	2.85	2.79
5	0.00	0.00	0.00	0.00	0.00	0.00		#REF!

Signature



Company Name : شركة فريم وان
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matruh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+500 to 388+600
Test No. : 01

**Nonrepetitive Static Plate Load Tests of Soils
DIN 18134**



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5876.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.35	0.67	1.07	1.67	2.28	2.68

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	2.68	2.65	2.52	2.20

D (mm) =	600	S1 (mm) =	0.60	S2 (mm) =	1.35	ΔS =	1.35
Ev1 (kg/cm²) =	$(0.75 \cdot D \cdot \Delta \sigma) / \Delta S$						333

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5876.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.20	2.30	2.44	2.53	2.66	2.79

Ev2/Ev1 = 0.5

D (mm) =	600	S1 (mm) =	2.49	S2 (mm) =	2.79	ΔS =	0.30
Ev2 (kg/cm²) =	$(0.75 \cdot D \cdot \Delta \sigma) / \Delta S$						1600

Ev1 = Modulus of deformation during the loading stage.

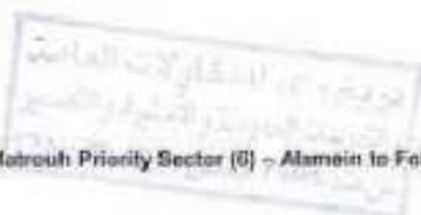
Ev2 = Modulus of deformation during the ReLoading stage.

D = Plate diameter (mm)

ΔS = The difference between S2 and S1 from the maximum loading (σmax) (kg/cm²)

ΔS = Difference in settlements corresponding to S2 and S1 from the maximum loading (mm)





Company Name : شركة دريم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+600 to 388+700
Test No. : 02

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.70	0.30	19.65	0.35	19.75	0.25	0.30
2	0.83	19.45	0.55	19.14	0.86	19.35	0.65	0.69
3	1.25	19.03	0.97	18.50	1.50	18.74	1.26	1.24
4	1.67	18.70	1.30	18.05	1.95	18.25	1.75	1.67
5	2.08	18.44	1.56	17.69	2.31	17.90	2.10	1.99
6	2.50	18.20	1.80	17.38	2.62	17.56	2.44	2.29

Unloading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	18.20	1.80	17.38	2.62	17.56	2.44	2.29
2	1.25	18.28	1.72	17.50	2.50	17.62	2.38	2.20
3	0.625	18.42	1.58	17.64	2.36	17.74	2.26	2.07
4	0.01	18.75	1.25	18.00	2.00	18.10	1.90	1.72

Loading Stage (2)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	18.62	1.38	17.85	2.15	17.95	2.05	1.86
1	0.83	18.50	1.50	17.70	2.30	17.88	2.17	1.99
2	1.25	18.40	1.60	17.60	2.40	17.74	2.26	2.09
3	1.67	18.30	1.70	17.48	2.52	17.68	2.37	2.20
4	2.08	18.20	1.80	17.40	2.60	17.54	2.46	2.29
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(REF)

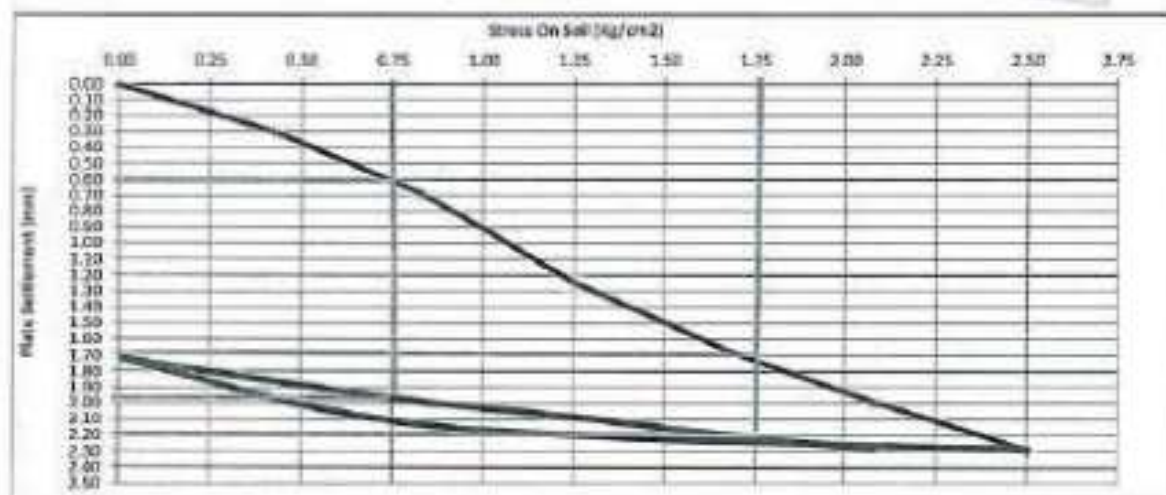
Signature

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مكتب معامل الاستشارات الهندسية
الاستشارات الهندسية
315 - 591 - 537
27/10/2022



Company Name : شركة مريم وان
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+600 to 388+700
Test No. : 02

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.30	0.69	1.24	1.67	1.99	2.29

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1760	0
Stress (Kg/cm²)	2.50	1.25	0.825	0.01
Settlement (mm)	2.29	2.20	2.07	1.72

D (mm) = 600	S1 (mm) = 0.60	S2 (mm) = 1.70	ΔS = 1.10
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	409		

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	1.72	1.86	1.99	2.09	2.20	2.29

Ev2/Ev1 = 4.4

D (mm) = 600	S1 (mm) = 1.99	S2 (mm) = 2.20	ΔS = 0.25
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	1800		

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δσ = The Difference between 0.3 and 0.7 from the maximum loading (σmax) (kg/cm²)

ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

Signature: 
مكتب محامل الاستشارات الهندسية
219-991-5371
القاهرة - مصر





Company Name : شركة نريم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+700 to 388+800
Test No. : 03

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.73	0.27	19.65	0.35	19.74	0.26	0.29
2	0.83	19.25	0.75	19.30	0.70	19.40	0.60	0.68
3	1.25	18.60	1.40	18.80	1.20	19.00	1.00	1.20
4	1.67	17.95	2.05	18.30	1.70	18.64	1.36	1.70
5	2.08	17.45	2.55	17.95	2.05	18.35	1.65	2.08
6	2.50	16.90	3.10	17.50	2.50	18.05	1.95	2.52

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	16.90	3.10	17.50	2.50	18.05	1.95	2.52
2	1.25	16.97	3.03	17.57	2.43	18.09	1.91	2.48
3	0.625	17.10	2.90	17.70	2.30	18.14	1.86	2.35
4	0.01	17.50	2.50	18.10	1.90	18.38	1.62	2.01

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.35	2.65	17.92	2.08	18.30	1.70	2.14
1	0.83	17.20	2.80	17.79	2.21	18.20	1.80	2.27
2	1.25	17.05	2.95	17.67	2.33	18.10	1.90	2.39
3	1.67	16.92	3.08	17.57	2.43	18.00	2.00	2.50
4	2.08	16.78	3.22	17.48	2.52	17.92	2.08	2.61
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

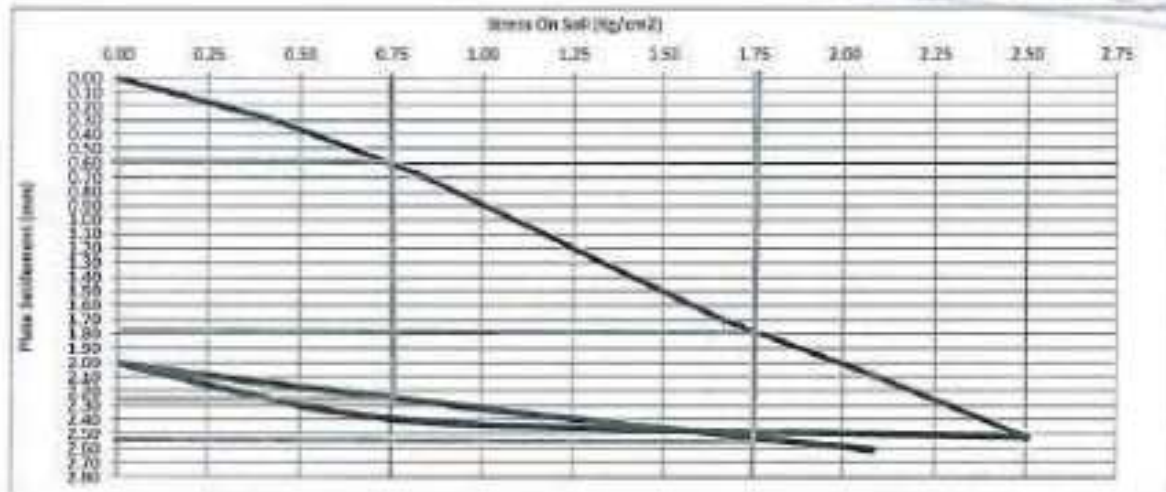
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مكتب معامل الاستشارات الهندسية
213-571-572
213-571-572



Company Name : شركة دريم واي
Project : Electric Express Train, from Al Ain Solihna to Marsa Matruh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+700 to 388+800
Test No. : 03

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.02	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.29	0.68	1.20	1.70	2.08	2.52

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	2.52	2.46	2.35	2.01

D (mm) =	600	B1 (mm) =	0.60	B2 (mm) =	1.33	ΔS =	1.20
Ev1 (kg/cm²) =	$(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$						375

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.02	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.01	2.14	2.27	2.39	2.50	2.61

$Ev2/Ev1 = 4.0$

D (mm) =	600	B1 (mm) =	2.25	B2 (mm) =	2.55	ΔS =	0.30
Ev2 (kg/cm²) =	$(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$						1500

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δs = The difference between 0.3 and 0.7 from the maximum loading (smax) (kg/cm²)

ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)





Company Name : شركة نديم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (G) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+800 to 388+900
Test No. : 04

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.64	0.36	19.70	0.30	19.78	0.22	0.29
2	0.83	19.05	0.95	19.22	0.78	19.33	0.67	0.80
3	1.25	18.10	1.90	18.40	1.60	18.70	1.30	1.60
4	1.67	17.12	2.88	17.48	2.52	17.80	2.20	2.53
5	2.08	16.70	3.30	17.10	2.90	17.40	2.60	2.93
6	2.50	16.08	3.92	16.52	3.48	16.90	3.10	3.50

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	16.08	3.92	16.52	3.48	16.90	3.10	3.50
2	1.25	16.15	3.85	16.60	3.40	16.95	3.05	3.43
3	0.625	16.35	3.65	16.73	3.27	17.05	2.95	3.29
4	0.01	16.76	3.24	17.05	2.95	17.30	2.70	2.96

Loading Stage (2)

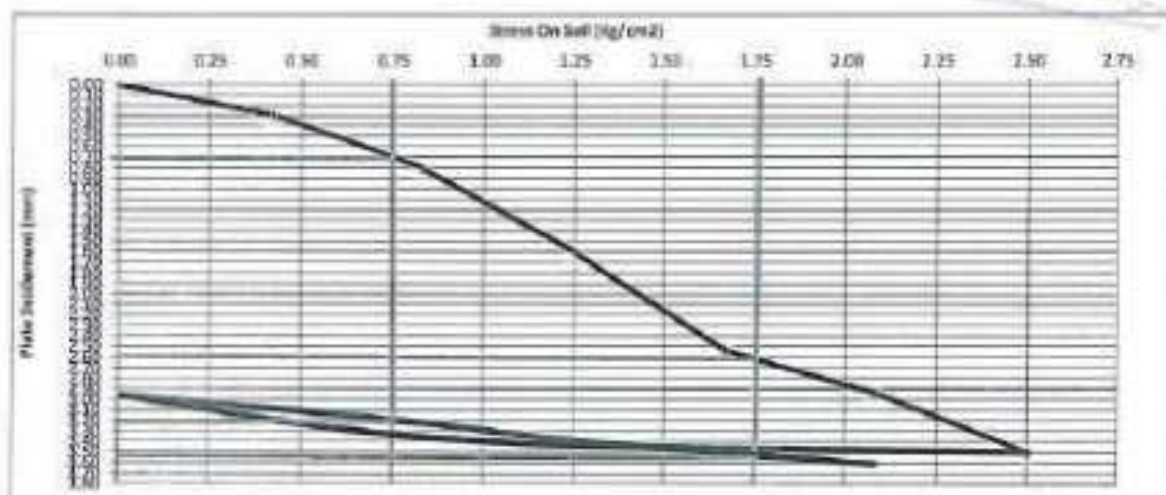
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	16.60	3.40	16.93	3.07	17.20	2.80	3.09
1	0.83	16.43	3.57	16.80	3.20	17.09	2.91	3.23
2	1.25	16.25	3.75	16.65	3.35	16.92	3.08	3.39
3	1.67	16.10	3.90	16.55	3.45	16.84	3.16	3.50
4	2.08	16.00	4.00	16.44	3.56	16.73	3.27	3.81
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

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Company Name : شركة دريم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (B) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+800 to 388+900
Test No. : 04

Nonrepetitive Static Plate Load Tests of Soils DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.29	0.80	1.60	2.53	2.93	3.50

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	3.50	3.43	3.29	2.06

D (mm) = 500	S1 (mm) = 0.70	S2 (mm) = 2.60	ΔS = 1.90
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta e) / \Delta S$	237		

$$Ev2/Ev1 = 5.4$$

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.96	3.09	3.23	3.39	3.50	3.61

D (mm) = 600	S1 (mm) = 3.29	S2 (mm) = 3.86	ΔS = 0.59
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta e) / \Delta S$	1286		



Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Reloading stage.
D = Plate diameter (mm)
Δs = The difference between S2 and S1 from the maximum loading (smax) (kg/cm²)
ΔS = Difference in settlements corresponding to S2 and S1 from the maximum loading (mm)



Company Name : شركة دريم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (5) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 388+900 to 389+00
Test No. : 05

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.70	0.30	18.80	1.20	19.78	0.22	0.57
2	0.83	19.20	0.80	18.30	0.70	19.33	0.67	0.72
3	1.25	18.80	1.20	18.03	0.97	18.70	1.30	1.16
4	1.67	18.40	1.60	18.64	1.36	17.80	2.20	1.72
5	2.08	18.00	2.00	17.90	2.10	17.40	2.60	2.23
6	2.50	17.60	2.40	18.00	2.00	16.90	3.10	2.50

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	17.60	2.40	18.00	2.00	16.90	3.10	2.50
2	1.25	17.70	2.30	18.17	1.83	16.95	3.05	2.39
3	0.625	17.85	2.15	18.40	1.60	17.05	2.95	2.23
4	0.01	18.20	1.80	18.30	1.70	17.30	2.70	2.07

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	18.10	1.90	18.20	1.80	17.20	2.80	2.17
1	0.83	17.97	2.03	18.08	1.92	17.09	2.91	2.29
2	1.25	17.84	2.16	18.00	2.00	16.92	3.08	2.41
3	1.67	17.70	2.30	17.88	2.12	16.84	3.16	2.53
4	2.08	17.60	2.40	17.77	2.23	16.73	3.27	2.63
5	0.00	6.00	0.00	6.00	0.00	6.00	0.00	#REF!

Signature \

مكتب معمل الإستشارات الهندسية
الأجهزة المستخدمة
310-201-237
310-201-237



Company Name :

شركة فريم واي

Project :

Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) - Alamein to Foka

Test Date :

27/10/2022

report date :

29/10/2022

Location :

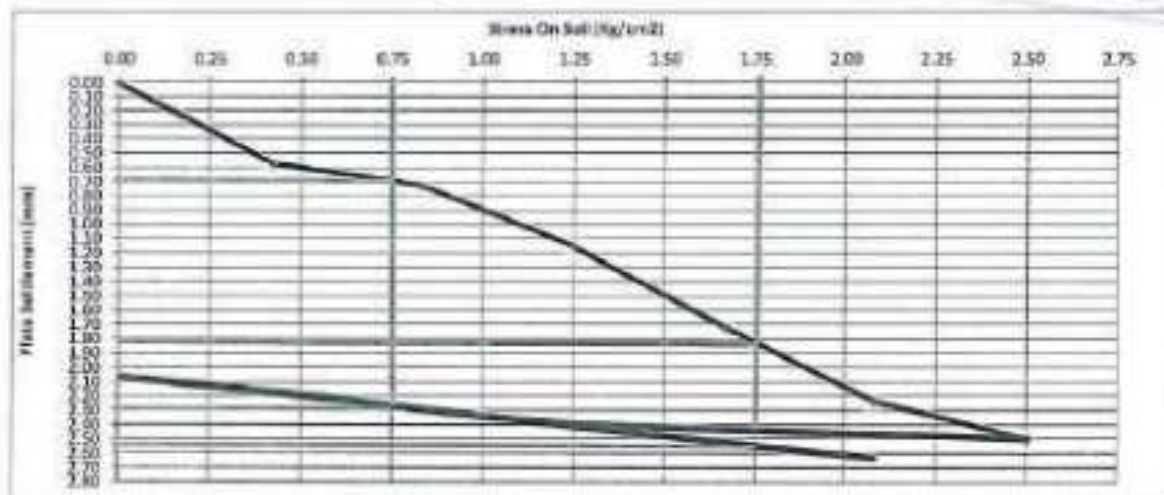
Station 388+900 to 389+00

Test No. :

05

Nonrepetitive Static Plate Load Tests of Soils

DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm2)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.57	0.72	1.10	1.72	2.23	2.50

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm2)	2.50	1.25	0.625	0.01
Settlement (mm)	2.50	2.39	2.23	2.07

D (mm) =	600	S1 (mm) =	0.70	S2 (mm) =	1.43	ΔS =	1.15
Ev1 (kg/cm2) =	(0.75 * D * Δe) / ΔS						
	391						

$$Ev2/Ev1 = 4.6$$

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm2)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.07	2.17	2.29	2.41	2.53	2.63

D (mm) =	600	S1 (mm) =	2.39	S2 (mm) =	2.55	ΔS =	0.25
Ev2 (kg/cm2) =	(0.75 * D * Δe) / ΔS						
	1300						

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δs = The difference between S2 and S1 from the maximum loading (smax) (kg/cm²)

ΔS = Difference in settlements corresponding to S2 and S1 from the maximum loading (mm)

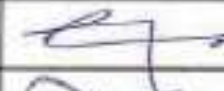


Contractor Company	Dream Way for construction	Designer Company	SPECTRUM																
Issued by Contractor	Name	Sign	Time																
	Eng. ElSaeed Mohamed		10:00 AM																
Received by GARB CONSULTANT	Eng. Mazen Esamy	Sign	Date/Serial Number																
			6/11/2022 (55-B-DW) (P.L.T.02)																
		<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td>21</td><td>21</td><td>21</td><td>20</td><td>NM</td><td>TV</td><td>HR</td><td>MS</td> </tr> <tr> <td>334</td><td>EW</td><td>CS</td><td>7</td><td>11</td><td>22</td><td>28</td><td>0</td> </tr> </table>		21	21	21	20	NM	TV	HR	MS	334	EW	CS	7	11	22	28	0
21	21	21	20	NM	TV	HR	MS												
334	EW	CS	7	11	22	28	0												

CMT-1	S2 to S23	C8 to S3	Kp 300/1000
	Station Reference	Depth Reference	For Kilometer point only Start Km is used
	Work Activity		
	Sub Element of Activity		

Description of Materials	FILTER			
Location to be Used	REV 29	388+000	TO	388+500
	REV 35	388+183.86	TO	388+583.86
Supplier Name	محاجر السوي - العلمين			
Test Requirement	P.L.T (DIN 18134)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (S22-A1.2) VERSION 2 BY ONCON GROUP	
Reference Photos	No/Yes	Other	(55-B-DW-IR F(07)), (55-B-DW-IR F(08)(REV.01)), (55-B-DW-IR F(08)(REV.02)), (55-B-DW-IR F(09))	
Item	Description	Unit	Quantity	Arrival Date
1	PLATE LOAD TEST	NUMBER	5	9/11/2022
2				
3				
4				

Comments by: Eng. Mazen Esamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allah (ER)
 1- The Plate Load Test Result (in DIN 18134) is Approved.	1- P.L.T was carried out by third party lab (CIL). 2- Results report attached and acceptable with project specifications.

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. ElSaeed Mohamed		9/11/2022	A
QA/QC *	Eng. Mazen Esamy			A
GARB**	Eng. Margrit magdy			
Employers Representative	Eng. Alaa Abd-Allah			A

* Designer

** Approved/Signs Subvert only

 Electrical Express Train From Sang Alarab to Alamein From Station 388+000 To Station 389+000	 الهيئة العامة للنقل	Serial No. PLT (2)
  مكتب (د) صناديق	 مكتب (د) صناديق	Date 7/11/2022

Material Inspection Request

We request your attendance to inspect the following works :

Discipline :	☐ Material control	☐ FIELD DENSITY TEST	☒ PLATE LOAD TEST
Location :	Zone Dream way	From Station 388+000	To Station 388+500
References	Specification: EET LL.3 Earthworks Specifications and Testing Report		
Purpose of the inspection	1. Earthworks ☐ Natural Sub Grade ☐ Sub Drift ☐ Upper Embankment ☐ Salust ☐ L/H Embankment ☒ FILTER LAYER		
Attachments	1- Plate load test Report 3- 5- 7-		
Works To be Inspected	Plate load test by Consulting Engineering Bureau & Laboratories		

Submitted by:	Dream way	Signature: 
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GARP Consultant Engineer's Comments :

The Plate Load Test result by third party is approval

The works are :	☐ Approved (A)	☐ Approved on Hold (B)	☐ Reserve Reserve (C)	☐ Rejected (D)
Name: <u>Mazen Elmaghrabi</u>	Signature: 			
General Consultant's Comments:	Date: 11/11/2022			

(1) 5 Points of PLT was carried out by (C.E.L) on filter layer
 (2) Result attached and found acceptable and completely for spec
 (3) Final approval is subject to above mentioned comment

The works are :	☐ Approved (A)	☐ Approved on Hold (B)	☐ Reserve Reserve (C)	☐ Rejected (D)
Name: <u>Ali Abdellatif</u>	Signature: 			
GARP Engineer's Comments:	Date: 10/11/2022			

Name:	Signature:
General Consultant Eng.	GARP Eng.

Company : شركة دريم واى

Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (6)
- Alamein to Foka

Subject : Determine the deformation and strength characteristics of soil by the plate loading test according specifications DIN 18134-2012-04 and project requirements

Test Location: Station 388+000 to 388+500.

Test Date : 07/11/2022

Report Date : 09/11/2022

Type of soil : Fill Filter (Mix of Size 1, 2, 3) (Aggregate).

Report No. : 08:12



Dear Gentleman,

According to the above mentioned subject the test performed as follows:-

Apparatus

1. Loading plates consists of two plates with 600 mm and 300 mm diameter
2. The thickness of plates 30 mm
3. Dial gauges with accuracy 0.01 mm to measuring the settlement
4. Steel straightedges with magnetic supports to fixed the dial gauges
5. Hydraulic jack with pump to transfer reactive loads to the loading plates
6. Dial indicator measuring device with scale capacity 700 Bar (Enerbac)
7. Reaction loading system by roller compactor with weight approximately 15 kN
8. Calibration certificates are attached

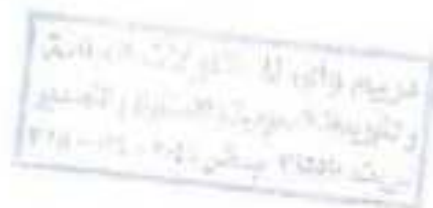
Test Procedure

1. Clean the ground on test area to the required level with undisturbed soil
2. Install loading plates 600 mm and 300 mm diameter, hydraulic jack and 3 dial gauges
3. Prior to starting the test applied preloading about 30 seconds.
4. The strain gauge and the dial gauge shall be set to zero
5. For a 600 mm loading plate, the limit values are 2.5 kg/cm²
6. The load shall be applied in six stages, in approximately equal increments, until the required maximum normal stress is reached.
7. Each change in load (from stage to stage) shall be completed within one minute
8. The load shall be released in 3 stages, to 50 % , 25 % , and approximately 2 % of the maximum load.
9. Following unloading, a further (2nd) loading cycle shall be carried out, in which, however, the load is to be increased only to the penultimate stage of the first cycle (so that the full load is not reached).
10. At each stage the load shall be maintained until the rate of settlement of the plate becomes less than 0.02 mm/min.
11. Remove the loads



Report

1. Evaluation and representation of results
2. Load Settlement curve
3. The test report content the following:-
 - location of test site - Dimension of loading plate
 - Measuring device used - Type of soil
 - Type of Bedding material below the plate -Weathering condition
 - Time and date of measurements - Unusual observation made during test
 - Dial gauge reading and corresponding normal stress - Loading-settlement curve
 - Description of the soil condition below the plate after testing



Report

- Type of Soil : Fill Filter (Mix of Size 1,2,3)
- Job Requirement : $E_{v2} > 300 \text{ Kg/cm}^2$ (30 MPa).

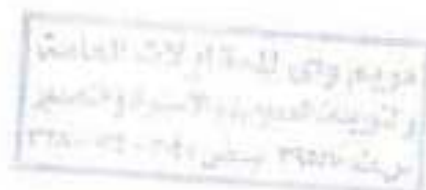
Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Sunny
- Plate Diameter (mm)	600
- date of measurement	07/11/2022
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

Evaluation and representation of results

Test No	Station		First Cycle	Second Cycle	E_{v2}/E_{v1} Ratio	Remarks
	From	To	$E_{v1} \text{ (kg/cm}^2\text{)}$	$E_{v2} \text{ (kg/cm}^2\text{)}$		
1	388+000	388+100	385	1286	3.3	---
2	388+100	388+200	257	750	2.9	---
3	388+200	388+300	391	900	2.3	---
4	388+300	388+400	346	1286	3.7	---
5	388+400	388+500	429	1406	3.3	---

Signature





Company Name : dream Way Co.
 Project : Electric Express Train, from Borg Al Arab to Alamein
 Test Date : 07/11/2022
 report date : 09/11/2022
 Location : Station 388+000 to 388+100
 Test No. : 01

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.74	0.26	19.70	0.30	19.69	0.31	0.29
2	0.83	19.40	0.60	19.34	0.66	19.30	0.70	0.65
3	1.25	18.75	1.25	18.53	1.47	19.25	0.75	1.16
4	1.67	18.10	1.90	17.75	2.25	19.20	0.80	1.65
5	2.08	17.65	2.35	17.16	2.84	18.65	1.35	2.18
6	2.50	17.25	2.75	16.65	3.35	17.95	2.05	2.72

Unloading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	17.25	2.75	16.65	3.35	17.95	2.05	2.72
2	1.25	17.30	2.70	16.80	3.20	18.05	1.94	2.61
3	0.825	17.55	2.45	17.00	3.00	18.10	1.90	2.45
4	0.01	17.90	2.10	17.45	2.55	18.48	1.52	2.06

Loading Stage (2)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.87	2.13	17.23	2.77	18.36	1.64	2.18
1	0.83	17.50	2.50	17.10	2.90	18.24	1.76	2.39
2	1.25	17.40	2.60	16.94	3.06	18.02	1.98	2.55
3	1.67	17.21	2.79	16.77	3.23	17.92	2.08	2.70
4	2.08	17.08	2.92	16.59	3.41	17.74	2.26	2.86
5	0.00	0.00	0.00	0.00	0.00	0.00		#REF!

Signature

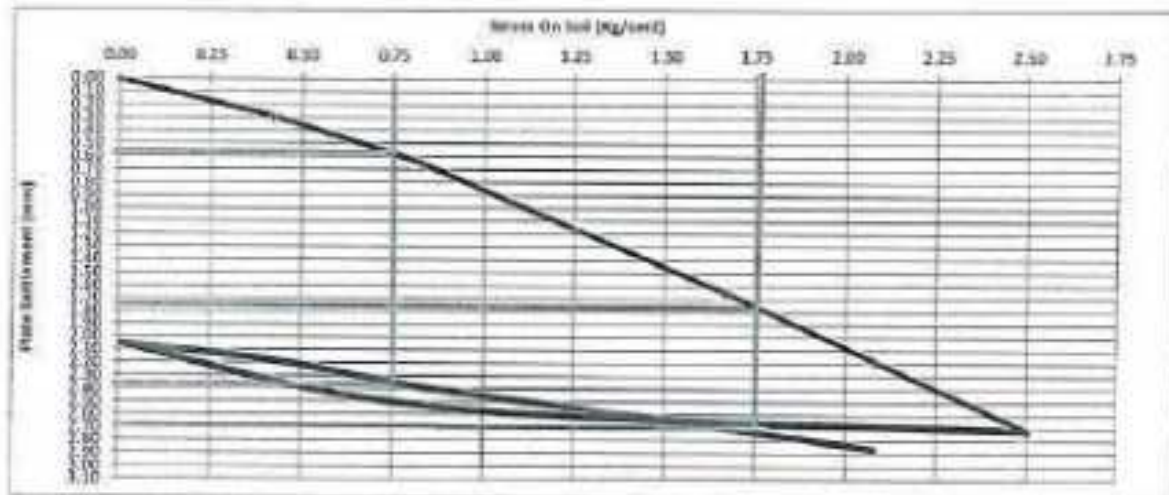
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Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Alamein.
Test Date : 07/11/2022
report date : 09/11/2022
Location : Station 388+000 to 388+100
Test No. : 01

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Nonrepetitive Static Plate Load Tests of Soils DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.29	0.65	1.16	1.65	2.15	2.72

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	2.72	2.61	2.45	2.06

D (mm) =	600	S1 (mm) =	6.58	S2(mm) =	1.75	ΔS =	1.17
Ev1 (kg/cm²) =	(0.75*D*Δs)/ΔS						
	385						

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.06	2.18	2.39	2.55	2.70	2.86

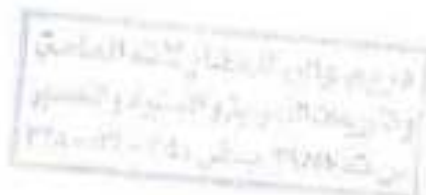
Ev2/Ev1 = 0.3

D (mm) =	600	S1 (mm) =	2.38	S2(mm) =	2.73	ΔS =	0.35
Ev2 (kg/cm²) =	(0.75*D*Δs)/ΔS						
	1286						

CEL
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Signature 1



Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Re-loading stage.
D = Plate diameter (mm)
Δs = The difference between 6.3 and 8.7 from the maximum loading (mm) (kg/cm²)
ΔS = Difference in settlements corresponding to 6.3 and 8.7 from the maximum loading (mm)



Company Name : dream Way Co.
 Project : Electric Express Train, from Borg El Arab to Alamein.
 Test Date : 07/11/2022
 report date : 09/11/2022
 Location : Station 388+100 to 388+200
 Test No. : 02

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.58	0.42	19.60	0.40	19.69	0.31	0.38
2	0.83	19.11	0.89	19.09	0.91	19.44	0.56	0.79
3	1.25	18.26	1.74	18.32	1.68	18.70	1.30	1.57
4	1.67	17.44	2.56	17.33	2.67	18.15	1.85	2.36
5	2.08	16.87	3.13	16.85	3.15	17.55	2.45	2.91
6	2.50	16.20	3.80	16.75	3.25	17.04	2.96	3.34

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	16.20	3.80	16.75	3.25	17.04	2.96	3.34
2	1.25	16.44	3.56	16.80	3.20	17.16	2.84	3.20
3	0.825	16.56	3.44	17.01	2.99	17.25	2.75	3.06
4	0.01	17.32	2.68	17.70	2.30	17.57	2.43	2.47

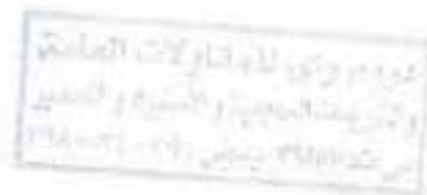
Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.22	2.78	17.60	2.40	17.48	2.52	2.57
1	0.83	17.18	2.82	17.54	2.46	17.40	2.60	2.63
2	1.25	16.95	3.05	17.28	2.72	17.13	2.87	2.88
3	1.67	16.72	3.28	17.00	3.00	16.90	3.10	3.13
4	2.08	16.52	3.48	16.72	3.28	16.71	3.29	3.35
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

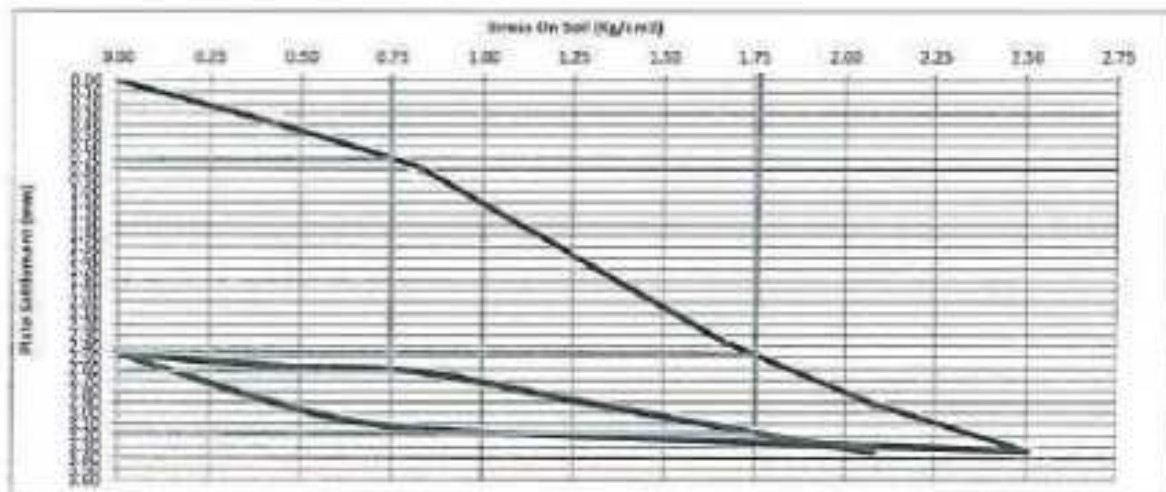
Signature



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Almain.
Test Date : 67/11/2022
report date : 68/11/2022
Location : Station 388+160 to 388+260
Test No. : 62



Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.38	0.79	1.57	2.35	2.91	3.34

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	3.34	3.20	3.00	2.47

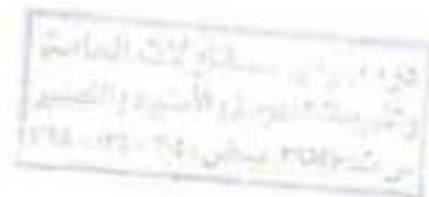
D (mm) = 600	S1 (mm) = 0.70	S2 (mm) = 2.45	ΔS = 1.75
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta S) / \Delta S$	257		

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.47	2.57	2.63	2.88	3.13	3.35

D (mm) = 600	S1 (mm) = 2.88	S2 (mm) = 3.39	ΔS = 0.66
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta S) / \Delta S$	750		

Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Reloading stage.
D = Plate diameter (mm)
ΔS = The difference between 0.3 and 0.7 from the maximum loading (mm) (kg/cm²)
ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)





Company Name : dream Way Co.
 Project : Electric Express Train, from Borg Al Arab to Alamein.
 Test Date : 07/11/2022
 report date : 09/11/2022
 Location : Station 388+200 to 388+300
 Test No. : 03

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.68	0.32	19.72	0.28	19.70	0.30	0.30
2	0.83	19.45	0.55	19.50	0.50	19.51	0.49	0.51
3	1.25	19.11	0.89	19.20	0.80	19.22	0.78	0.82
4	1.67	18.40	1.60	18.61	1.39	18.69	1.31	1.43
5	2.08	17.60	2.40	17.80	2.20	18.05	1.95	2.18
6	2.50	16.68	3.32	16.83	3.17	17.31	2.69	3.06

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	16.68	3.32	16.83	3.17	17.31	2.69	3.06
2	1.25	16.71	3.29	16.95	3.05	17.35	2.65	3.00
3	0.825	16.81	3.19	17.12	2.88	17.46	2.64	2.87
4	0.01	17.32	2.68	17.52	2.48	17.82	2.18	2.45

Loading Stage (2)

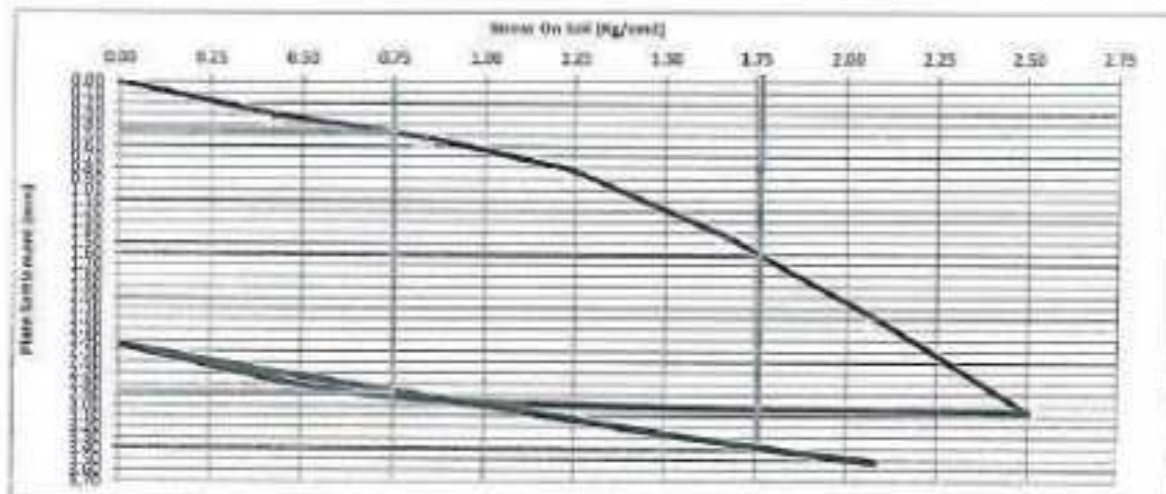
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.11	2.89	17.21	2.79	17.63	2.37	2.68
1	0.83	16.92	3.08	16.95	3.05	17.42	2.58	2.90
2	1.25	16.71	3.29	16.77	3.23	17.12	2.88	3.13
3	1.67	16.52	3.48	16.52	3.48	16.92	3.08	3.35
4	2.08	16.31	3.69	16.40	3.60	16.73	3.27	3.52
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Almain.
Test Date : 07/11/2022
report date : 09/11/2022
Location : Station 388+200 to 388+300
Test No. : 03

Nonrepetitive Static Plate Load Tests of Soils



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5876.1	7065
Stress (Kg/cm ²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.30	0.51	0.82	1.43	2.18	3.06

UnLoading (T)	1	2	3	4
Stage(Kg)	7665	3533	1768	0
Stress (Kg/cm ²)	2.50	1.25	0.625	0.01
Settlement (mm)	3.06	3.00	2.67	2.45

D (mm) = 600	S1 (mm) = 0.45	S2 (mm) = 1.00	$\Delta S = 1.15$
Ev1 (kg/cm ²) = (0.75°C°Δe)/ΔS		391	

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm ²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.45	2.66	2.90	3.13	3.35	3.52

D (mm) =	600	S1 (mm) =	2.00	S2 (mm) =	3.40	ΔS =	0.50
E ₂ (g/cm ²) =	[6.75 · D · Δs / ΔS]		900				

$$E_{y2}/E_{y1} = 2.3$$

Evt = modulus of deformation during the loading stage.

 E_{v2} = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Do = The difference between 0.3 and 0.7 from the maximum loading (f_{max}) (kg/cm^2)

DB = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

Signature _____





Company Name : dream Way Co.
 Project : Electric Express Train, from Borg El Arab to Alamein.
 Test Date : 07/11/2022
 report date : 09/11/2022
 Location : Station 388+300 to 388+400
 Test No. : 04

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.77	0.23	19.75	0.25	19.74	0.26	0.26
2	0.83	19.27	0.73	19.29	0.71	19.47	0.53	0.68
3	1.25	18.64	1.36	18.76	1.24	18.91	1.09	1.23
4	1.67	18.07	1.93	18.19	1.81	18.35	1.65	1.80
5	2.08	17.50	2.50	17.59	2.41	17.74	2.26	2.39
6	2.50	17.75	2.25	17.10	2.90	17.26	2.74	2.63

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	17.75	2.25	17.10	2.90	17.26	2.74	2.63
2	1.25	16.93	3.07	17.22	2.78	17.39	2.61	2.82
3	0.625	17.19	2.81	17.45	2.55	17.53	2.47	2.81
4	0.01	17.61	2.39	17.87	2.13	17.85	2.15	2.22

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.46	2.54	17.70	2.30	17.79	2.21	2.35
1	0.83	17.29	2.71	17.52	2.48	17.64	2.36	2.52
2	1.25	17.10	2.90	17.37	2.63	17.53	2.47	2.67
3	1.67	16.93	3.07	17.24	2.76	17.39	2.61	2.81
4	2.08	16.75	3.25	17.09	2.91	17.26	2.74	2.97
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature

(Handwritten signature and official stamp of the Consulting Engineering Bureau & Laboratories)



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Almain.
Test Date : 07/11/2022
report date : 09/11/2022
Location : Station 388+300 to 388+400
Test No. : 04

تم إجراء الاختبار في
مكتب محامل الاستشارات الهندسية
في 07/11/2022
بمقر الشركة - القاهرة

**Nonrepetitive Static Plate Load Tests of Soils
DIN 18134**



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.25	0.65	1.23	1.90	2.39	2.63

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	2.03	2.82	2.01	2.22

D (mm) = 600	S1 (mm) = 0.60	S2 (mm) = 1.30	ΔS = 1.30
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	346		

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.22	2.35	2.62	2.67	2.81	2.97

D (mm) = 600	S1 (mm) = 2.86	S2 (mm) = 2.85	ΔS = 0.35
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	1286		

Ev2/Ev1 = 3.7

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Signature 1: [Signature]



Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Reloading stage.
D = Plate diameter (mm)
Δσ = The difference between 0.3 and 0.7 from the maximum loading (sigma) (kg/cm²)
ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

Company Name : dream Way Co.
Project : Electric Express Train, from Borg El Arab to Alamein.
Test Date : 07/11/2022
report date : 09/11/2022
Location : Station 388+400 to 388+500
Test No. : 65

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.70	0.30	19.68	0.32	19.74	0.26	0.29
2	0.83	19.35	0.65	19.43	0.57	19.49	0.51	0.58
3	1.25	18.90	1.10	18.94	1.06	19.00	0.91	1.02
4	1.67	18.46	1.54	18.47	1.53	18.69	1.37	1.48
5	2.08	18.10	1.90	18.13	1.87	18.24	1.76	1.84
6	2.50	17.77	2.23	17.80	2.20	17.95	2.05	2.16

Unloading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	17.77	2.23	17.80	2.20	17.95	2.05	2.16
2	1.25	17.87	2.13	17.86	2.14	18.01	1.99	2.09
3	0.625	18.06	1.94	17.96	2.04	18.13	1.87	1.96
4	0.01	18.45	1.54	18.52	1.48	18.53	1.47	1.50

Loading Stage (2)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	18.32	1.68	18.32	1.68	18.40	1.60	1.65
1	0.83	18.18	1.82	18.21	1.79	18.22	1.78	1.80
2	1.25	18.06	1.94	18.06	1.94	18.01	1.99	1.96
3	1.67	17.90	2.10	17.92	2.08	17.92	2.08	2.09
4	2.08	17.78	2.22	17.81	2.19	17.76	2.24	2.22
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature \

مكتب محامل الاستشارات الهندسية
الاستشارات الهندسية
إدارة مشاريع
القاهرة - مصر



Company Name

: dream Way Co.

Project

: Electric Express Train, from Borg Al Arab to Alamein.

Test Date

: 07/11/2022

report date

: 09/11/2022

Location

: Station 388+400 to 388+500

Test No.

: 05

Nonrepetitive Static Plate Load Tests of Soils

DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.29	0.58	1.02	1.45	1.84	2.16

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	2.16	2.09	1.95	1.50

D (mm) =	600	S1 (mm)=	0.50	S2(mm)=	1.55	ΔS =	1.05
Ev1 (kg/cm²) =	(0.75*D*Δs)/ΔS						429

$$Ev2/Ev1 = 3.1$$

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	1.50	1.65	1.80	1.95	2.09	2.22

D (mm) =	600	S1 (mm)=	1.78	S2(mm)=	2.19	ΔS =	0.32
Ev2 (kg/cm²) =	(0.75*D*Δs)/ΔS						1406

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δs = The difference between 0.3 and 0.7 from the maximum loading (smax) (kg/cm²)

ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)



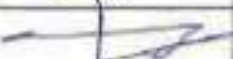
Contractor Company	Dream Way	Designer Company	SPECTRUM ENGINEER CONSULTING	Office	Time	10:00 AM
Issued by Contractor	Eng. SAIED MOHAMMED	30/01/2023	(SS-B-DW) (P.L.T.10)			
Reviewed by Client	Eng. MAZEN ESSAMY					
CONSULTANT						

100%	SAP Element of Activity	
100%	Work Activity	
100%	Station Reference	For Reference point only (start run is used)
100%	OT in SS	For Reference point only (start run is used)

Description of Materials	FERMA		
	Location to be Used	REV.29	REV.35
		388+000	388+183.86
		388+200	388+383.86

Item	Description	Unit	Quantity	Arrival Date	Note
1	PLATE LOAD TEST	NUMBER	4	1/2/2023	
2					
3					
4					

Comments by: Eng. MAZEN ESSAMAT (spectrum)	
Comments by: Eng. Alno Abd-Alattar (ER)	1-P.T.T was carried-out by third party lab (CEL) . 2-Review report attached and acceptable with project specifications. 1-The Plate Load Test Result pdf (CEL 181431) is approved

APPROVAL STATUS			
Organization	Name	Sign	Date
Contractor	Eng. SAIED MOHAMMED		
MC	Eng. MAZEN ESSAM		
ARB	Eng. MARWAN MADDY		
Employer Representative	Eng. Alaa Abd-Elhadi		

Contractor Company Dream way Company (SPECTRUM) Engineering Consulting Office		Issued by Contractor Name: _____ Sign: _____ Date: 30/01/2023 PLTY10		Received by GARS CONSULTANT Eng. Mazen Essam Signature: _____ Date: 31/01/2023 12:00	
		STATION REFERENCE P1 to P3 Depot Reference For site meter point only Start Km is used		CODE - 1 CODE - 2 CODE - 3	

Description of material		Location to be used		Date		Supply Name		Test Requirement		Reference photos	
PLATE LOAD TEST ON FERMA		38B+000		29/12/2022		ELSEWY, Dream way		PLATE LOAD TEST ON FERMA		No. / 03	
Description		Unit		Quantity		Arrival Date		Note		Other	
Item		Description		Unit		Quantity		Arrival Date		Note	
1		pit by consulting engineering		4							
2		bureaucratic									

Comments by: Eng. Mazen Essam (SPECTRUM)

The plate load test results is approval

1-4 points of pit was carried-out by (ce) on Ferma layer.
 2- Result report attached and acceptable with project specifications. 3- Final approval is subject to above mentioned comment.

APPROVAL STATUS A-AWC-R		Organization Name: _____ Sign: _____ Date: _____	
		Contractor Eng. Abdelrahman atef Signature: _____ Date: _____	
QA/QC Eng. Mazen Essam Signature: _____ Date: _____		GARS Eng. Mohamed Fayad Signature: _____ Date: _____	
Employer's Representative Eng. Alaa Abd-Alattar Signature: _____ Date: _____		Designer No. 1010	

مكتب استشارات الهندسة
م.ع.ب.ل
شارع ١٨١٣٤ - القاهرة

Company Name : dream Way Co.
Project : Electric Express Train, from Borg El Arab to Almhara.
Test Date : 31/01/2023
report date : 01/02/2023
Location : Station 388+000 to 388+050
Test No. : 05

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	0.42	19.89	0.11	19.68	0.32	19.81	0.19	0.21
2	0.83	0.83	19.75	0.25	19.54	0.46	19.64	0.36	0.36
3	1.25	1.25	19.62	0.38	19.40	0.60	19.48	0.52	0.50
4	1.67	1.67	19.48	0.52	19.24	0.76	19.34	0.66	0.65
5	2.08	2.08	19.35	0.65	19.12	0.88	19.19	0.81	0.78
6	2.50	2.50	19.15	0.85	18.92	1.08	19.00	1.00	0.98

Unloading Stage (1)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	2.50	19.15	0.85	18.92	1.08	19.00	1.00	0.98
2	1.25	1.25	19.24	0.76	19.01	0.99	19.08	0.92	0.88
3	0.625	0.625	19.42	0.58	19.20	0.80	19.26	0.74	0.71
4	0.01	0.01	19.72	0.28	19.53	0.47	19.59	0.41	0.39

Loading Stage (2)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	0.42	19.64	0.36	19.41	0.59	19.47	0.53	0.49
1	0.83	0.83	19.52	0.48	19.29	0.71	19.34	0.66	0.62
2	1.25	1.25	19.40	0.60	19.17	0.83	19.21	0.79	0.74
3	1.67	1.67	19.37	0.63	19.07	0.93	19.10	0.90	0.82
4	2.08	2.08	19.27	0.73	18.92	1.08	19.02	0.98	0.93



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البريد الإلكتروني : info@cel-egypt.com



EVZ/EV1 = 1.8

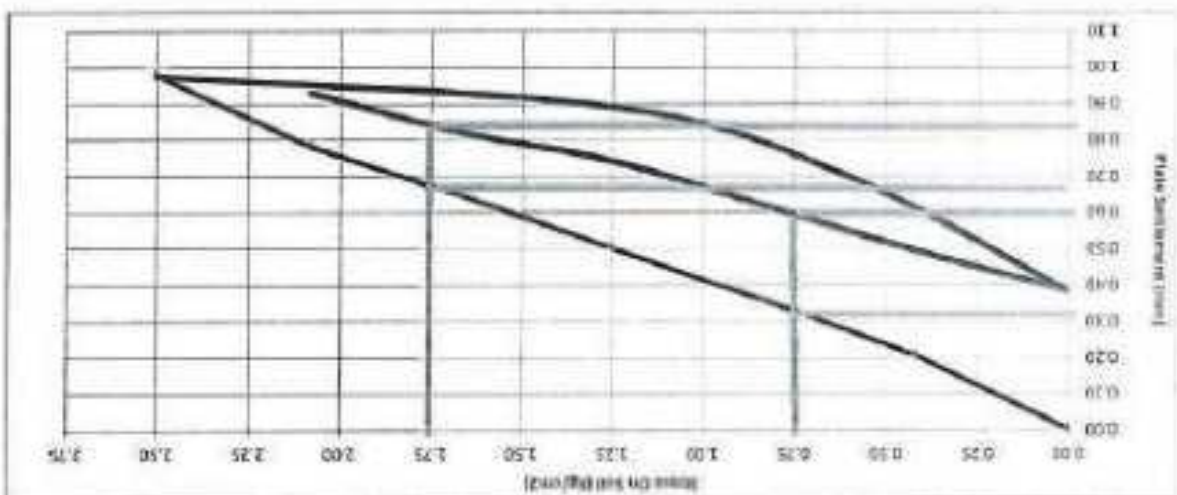
Exc (kg/cm ²) = 18.75°C/Avg/25	2045
D (mm) = 600	91.9mm/ 0.60
AS = 0.22	0.82

Loading (t)	Stage (kg)	Stress (kg/cm ²)	Settlement (mm)
0	0	0.01	0.39
1	1188.92	0.42	0.49
2	2345.6	0.83	0.62
3	3532.5	1.25	0.74
4	4719.4	1.67	0.82
5	5878.1	2.08	0.93

Exc (kg/cm ²) = 18.75°C/Avg/25	1256
D (mm) = 600	51.9mm/ 0.32
AS = 0.36	0.68

Loading (t)	Stage (kg)	Stress (kg/cm ²)	Settlement (mm)
0	0	0.00	0.00
1	1188.92	0.42	0.21
2	2345.6	0.83	0.36
3	3532.5	1.25	0.50
4	4719.4	1.67	0.65
5	5878.1	2.08	0.78
6	7065	2.50	0.88

Unloading (t)	Stage (kg)	Stress (kg/cm ²)	Settlement (mm)
1	7065	2.50	0.58
2	3533	1.25	0.525
3	1768	0.625	0.47
4	0	0.01	0.39



Nonresistive Static Load Tests of Soils
DIN 18134

Company Name
Project
Test Date
Report Date
Location
Test No.

dream Way Co.
Electric Express Train, from Borg El Arab to Alameda.
31/01/2023
01/02/2023
Station 388+000 to 388+050
05



تمت الاختبار في 01/02/2023
مهندس الاختبار: محمد عبد الله
مهندس الإشراف: أحمد محمد

Company Name : dream Way Co.
Project : Electric Express Train, from Bang Al Arab to Almarai.
Test Date : 31/01/2023
Report date : 01/02/2023
Location : Station 388+050 to 388+100
Test No. : 06

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.42	0.42	19.78	0.22	19.84	0.16	19.69	0.31	0.23
2	0.83	0.83	19.60	0.40	19.71	0.29	19.50	0.50	0.40
3	1.25	1.25	19.18	0.62	19.57	0.43	19.35	0.66	0.57
4	1.67	1.67	19.20	0.80	19.40	0.60	19.21	0.79	0.73
5	2.08	2.08	19.04	0.96	19.22	0.78	19.04	0.96	0.90
6	2.50	2.50	18.90	1.10	19.02	0.98	18.91	1.09	1.06

Unloading Stage (1)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	2.50	18.90	1.10	19.02	0.98	18.91	1.09	1.06
2	1.25	1.25	19.00	1.00	19.10	0.90	19.03	0.97	0.96
3	0.625	0.625	19.28	0.72	19.31	0.69	19.19	0.61	0.74
4	0.01	0.01	19.60	0.40	19.60	0.40	19.58	0.42	0.41

Loading Stage (2)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	0.42	19.50	0.50	19.48	0.52	19.50	0.50	0.51
1	0.83	0.83	19.38	0.62	19.30	0.70	19.36	0.64	0.65
2	1.25	1.25	19.25	0.75	19.13	0.87	19.21	0.79	0.80
3	1.67	1.67	19.13	0.87	19.02	0.98	19.11	0.89	0.91
4	2.08	2.08	19.00	1.00	18.93	1.07	19.00	1.00	1.02



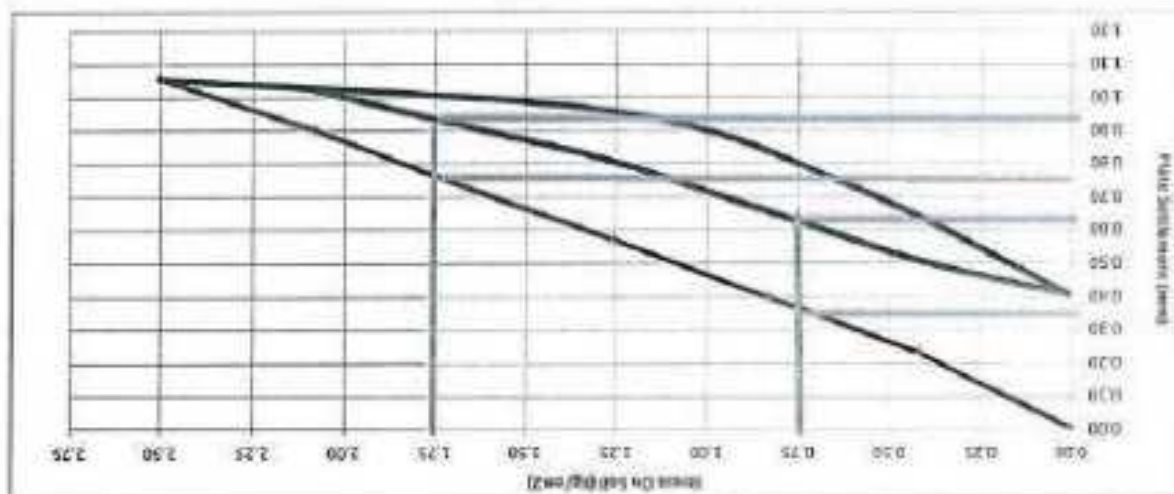
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Company Name
Project
Test Date
Report Date
Location
Test No.

: dream Way Co.
: Electric Express Train, from Borg Al Arab to Alamein.
: 31/01/2023
: 01/02/2023
: Station 388+050 to 388+100
: 06

Nonrespective Static Plate Load Tests of Soils
DIN 18134



Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	0	0.00	0.00
1	1186.92	0.42	0.23
2	2345.6	0.83	0.40
3	3532.5	1.25	0.57
4	4719.4	1.67	0.73
5	5878.1	2.08	0.90
6	7065	2.50	1.06

D (mm) = 600	EV1 (mm) = 0.25	EV2 (mm) = 0.25	AS = 0.40
--------------	-----------------	-----------------	-----------

Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	0	0.01	0.01
1	1186.92	0.42	0.05
2	2345.6	0.83	0.10
3	3532.5	1.25	0.15
4	4719.4	1.67	0.20
5	5878.1	2.08	0.25
6	7065	2.50	0.30

D (mm) = 600	EV1 (mm) = 0.02	EV2 (mm) = 0.02	AS = 0.30
--------------	-----------------	-----------------	-----------

EV1 = average of deformation during the loading stage.
EV2 = average of deformation during the unloading stage.
D = (Plate diameter (mm))
AS = The difference between EV1 and EV2 from the maximum loading (mm)
EV1 - EV2 = 0.02 (mm) (from the maximum loading (mm))
EV1 - EV2 = 0.02 (mm) (from the maximum loading (mm))



EV2/EV1 = 1.3

Unloading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
4	0	0.01	0.01
3	7665	1.25	0.95
2	3533	0.625	0.74
1	1665	0.41	0.41



Loading	Stress	Dial 1	Settlement	Dial 2	Settlement	Dial 3	Settlement	Average
	Kg/cm2	mm	mm	mm	mm	mm	mm	
1	2.50	19.28	0.72	19.25	0.75	19.10	0.90	0.78
2	1.25	19.35	0.65	19.30	0.64	19.16	0.84	0.71
3	0.625	19.50	0.50	19.47	0.53	19.33	0.67	0.57
4	0.01	19.60	0.20	19.70	0.30	19.65	0.35	0.28

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Noncompetitive Static Plate Load Tests of Soils

Data sheet

Electric Express Train, from Borg Al Arab to Alamein,
31/01/2023
01/02/2023
Station 388+100 to 388+150
07

Consulting Engineering Bureau & Laboratories
22501 15th Avenue, Suite 100, San Diego, CA 92160

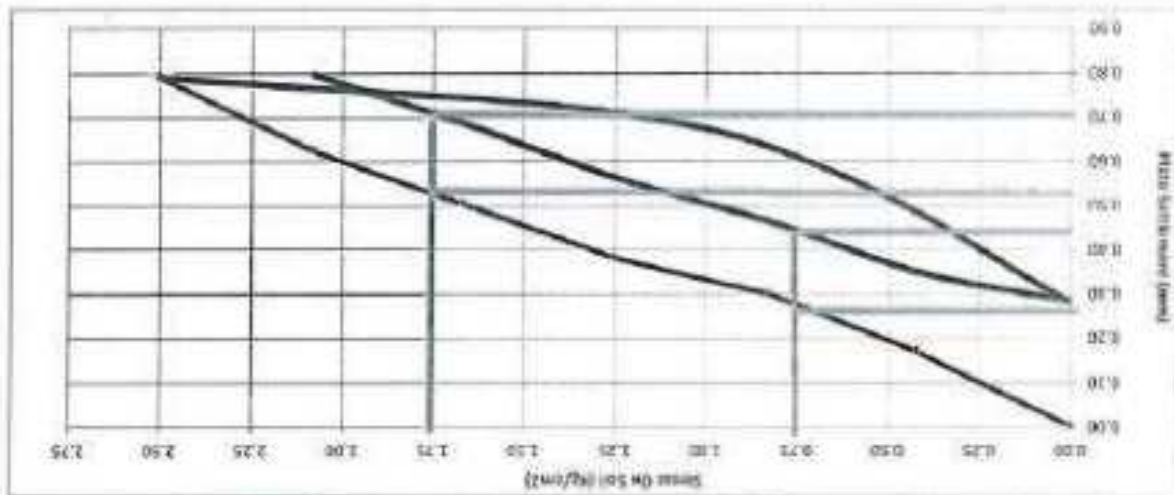
CEL

Company Name
Project
Test Date
Report Date
Location
Test No.

: dream Way Co.
: Electric Express Train, from Borg Al Arab to Alamein.
: 31/01/2023
: 01/02/2023
: Station 388+100 to 388+150
: 07

مكتب مهندسين واستشارات
www.cel-egypt.com

Nonrepetitive Static Load Tests of Soils
DIN 18134



Company Name : dream Way Co.
Project : Electric Express Train, from Borg El Arab to Alamin.
Test Date : 31/01/2023
report date : 01/02/2023
Location : Station 388+150 to 388+200
Test No. : 08

Nonrepertive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	20.00	0.00
1	0.42	19.84	0.16	19.78	0.22	19.80	0.20	19.86	0.19
2	0.83	19.70	0.30	19.63	0.37	19.66	0.34	19.66	0.34
3	1.25	19.03	0.37	19.52	0.48	19.56	0.44	19.56	0.43
4	1.67	19.51	0.49	19.40	0.60	19.45	0.55	19.45	0.55
5	2.08	19.40	0.60	19.31	0.69	19.34	0.66	19.34	0.65
6	2.50	19.28	0.72	19.12	0.88	19.15	0.85	19.15	0.82

Unloading Stage (1)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	19.28	0.72	19.12	0.88	19.15	0.85	19.15	0.82
2	1.25	19.42	0.68	19.18	0.82	19.20	0.80	19.20	0.77
3	0.625	19.44	0.56	19.29	0.71	19.38	0.62	19.38	0.63
4	0.01	19.75	0.25	19.60	0.40	19.71	0.29	19.71	0.31

Loading Stage (2)

Loading	Stress	Kg/cm ²	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	19.70	0.30	19.49	0.51	19.60	0.40	19.60	0.40
1	0.83	19.52	0.48	19.37	0.63	19.49	0.51	19.49	0.54
2	1.25	19.40	0.60	19.28	0.72	19.37	0.63	19.37	0.65
3	1.67	19.28	0.72	19.19	0.81	19.28	0.72	19.28	0.75
4	2.08	19.19	0.81	19.08	0.92	19.17	0.83	19.17	0.85



3 El Madk El Ahdal Street
Zamalek, Cairo.
Tel & Fax : 27367231 - 27363093

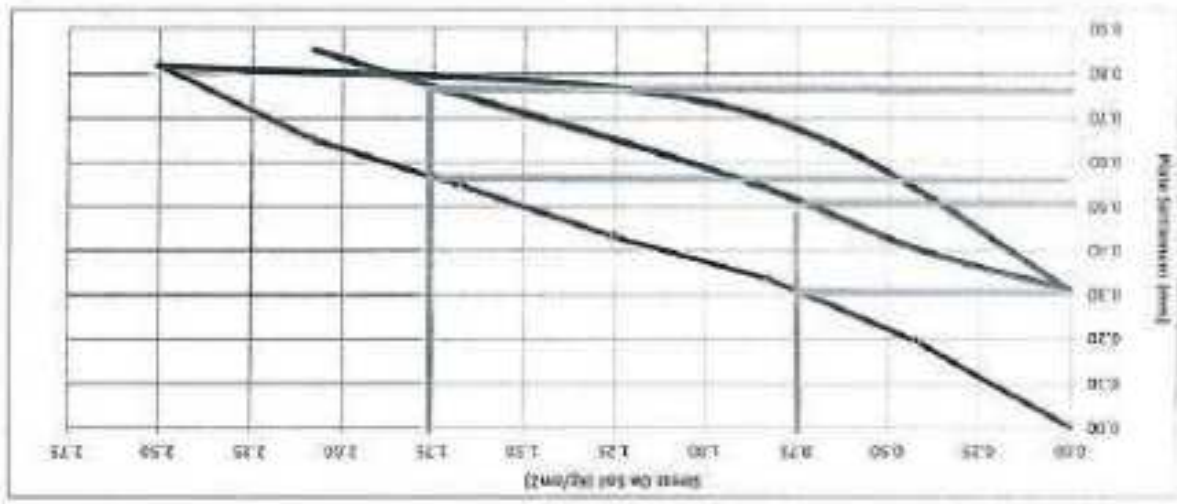
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www.cel-egypt.com

Company Name
Project
Test Date
Report Date
Location
Test No.

dream Way Co.
Electric Express Train from Borg Al Arab to Alamein.
31/01/2023
01/02/2023
Station 308+150 to 308+200
06

مكتب مهندسين الاستشارات والاختبارات
www.cel-egypt.com

**Nonrepetitive Static Load Tests of Soils
DIN 18134**



Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	1166.92	0.00	0.00
1	2345.6	0.42	0.10
2	3532.5	0.63	0.24
3	4719.4	1.25	0.43
4	5878.1	1.67	0.65
5	7065	2.05	0.82

D (mm) = 600	St (mm) = 0.32	St (mm) = 0.58	AS = 0.24
--------------	----------------	----------------	-----------

Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	1166.92	0.00	0.00
1	2345.6	0.42	0.01
2	3532.5	0.63	0.04
3	4719.4	1.25	0.09
4	5878.1	1.67	0.20
5	7065	2.05	0.30

D (mm) = 600	St (mm) = 0.32	St (mm) = 0.58	AS = 0.24
--------------	----------------	----------------	-----------

Settlement (mm)	Stress (kg/cm²)	Stress (kg/cm²)	Stress (kg/cm²)
0.00	0.00	0.00	0.00
0.10	0.42	0.63	0.75
0.24	0.63	1.25	1.57
0.30	0.75	1.67	2.05

EV2/EV1 = 1.8

Unloading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
1	7065	2.05	0.82
2	3533	1.25	0.77
3	1768	0.625	0.63
4	0	0.01	0.31



التقييم الفني

الهيئة
لمنارة و الكباري
(CARB)



مشروع : اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع
(العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع غرب النيل لتنفيذ المسافة من
الكم 388+000 الى الكم 389+000 بطول 1 كم إتجاه الضبعة.

تنفيذ : شركة دريم واي للمقاولات العامة .

إشراف : المنطقة الخامسة قطاع غرب الدلتا

الحسابات المالية ومفصل التقييم وقيمة الخصومات:

أنه في يوم الثلاثاء الموافق 2024/02/28 وبناء على القرار الإداري 121 بتاريخ 2022/9/14 الصادر من السيد عميد مهتمس رئيس الإدارة المركزية / منطقة غرب الدلتا ومحضر الاستلام الابتدائي للعملية المؤرخ في 2022/11/14 تم عمل التقييم الفني للعملية عليه.

وقد اجتمعت اللجنة المشكلة من كلا من:

(رئيساً للجنة)	مدير عام المشروعات	1) المهندس/ محمد حسني فياض
(عضواً)	ممثل الهيئة	2) المهندس/مارجريت مجدي
(عضواً)	ممثل المنطقة المشرفة	3) المهندس/عبدالله عبدالمحسن
(عضواً)	مكتب: ميهكثوم (د عماد نبيل) استشاري الهيئة	4) المهندس /مازن عصامي
(عضواً)	مكتب: (انس واي زد) استشاري المساحة بالمشروع	5) المهندس/محمد خليل
(عضواً)	الشركة المنفذة دريم واي للمقاولات العامة	6) المهندس/ السعيد محمد

وبعد الإطلاع على محضر الاستلام الابتدائي للعملية وملفات التجارب المعملية تم حساب الخصومات المالية وجاءت كالآتي :

- * الخصم على طبقة الفلتر : لا يوجد خصم
- * الخصم على اختبارات الدمك بطبقة الفلتر : لا يوجد خصم
- * الخصم على النقص في السمك لطبقة الفلتر : لا يوجد خصم
- * الخصم طبقا لمحضر الاستلام الابتدائي :-
- من الفحص البصري :-
- * الخصم على سطح الطريق $9998.95 = 199979.82 \times 0.05\%$ جنيه
- * الخصم على اختبارات التصنيف والتدرج وال CBR لطبقة الفلتر : لا يوجد خصم
- * القيمة المالية للخصم للجنة الاستلام الابتدائي : 9998.95 جنيهاً (تسعة آلاف وتسعمائة وثمانية وتسعون جنيهاً مصرياً وخمسة وتسعون قرشاً لا غير .)

التوقيعات :

رئيس هيئة المحاورات العامة
والأوربات العمومية والإستراتيجية والأمن
6- السيد محمد التميمي
5- السيد محمد التميمي
4- السيد محمد التميمي
3- السيد محمد التميمي
2- السيد محمد التميمي
1- السيد محمد التميمي

رئيس الإدارة المركزية

منطقة غرب الدلتا

الاستراتيجية - مرسى مطروح

عبد مهنس /

"عبد محمد محمود طه"

قائمة الكميات الواردة بالمستخلص الختامي

مشروع : اسناد اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - مطروح) لتنفيذ
اعمال الجسر الترابي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 الى الكم 389+000 بطول 1 كيلو متر استكمال
اتجاه النجيلة.

رقم البند وبياناته : (3-1) بالمتر المكعب أعمال توريد وتشغيل الرية صالحة للزدم ومطابقة للمواصفات وتشغيل باستخدام آلات التسوية بسمك لا يزيد عن 50 سم حتى ملسوب (2.09 متر) وسمك لا يزيد عن 25 سم لاستكمال الملسوب التصميمي للشكبات الجسر الترابي والاكتاف (نسبة لحمل كاليفورنيا لا تقل عن 15%) ورشها بالعمية الاصلية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهريسات للوصول الى قصى كثافة جافة (95% من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند بجميع مشتملاته طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكباري والاعمال الهندسية المشرف .

قائمة الاعمال عن شهر يناير طبقا للمقوضة بتاريخ 18/12/2023

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستاد والتصدير

الكمية	الارتفاع (متر)		الموقع الكيلومتري		التاريخ	رقم الطلب
	مساحة المقطع	طول	من	الى		
620.00	6.20	100.00	388+200	388+300	7/1/2023	IR-S-(47)
1164.00	5.82	200.00	388+300	388+500	7/1/2023	IR-S-(48)
1100.00	5.50	200.00	388+000	388+200	10/1/2023	IR-S-(49)
603.00	6.03	100.00	388+200	388+300	10/1/2023	IR-S-(50)
1100.00	5.50	200.00	388+000	388+200	15/1/2023	IR-S-(51)
586.00	5.86	100.00	388+200	388+300	15/1/2023	IR-S-(52)
1134.00	5.67	200.00	388+000	388+200	24/1/2023	IR-S-(53)
1170.00	5.85	200.00	388+000	388+200	30/1/2023	IR-S-(54)
7477.00	اجمال كميات خلال فترة المستخلص الحالية (م ³)					
7477.00	الكمية الكلى (م ³) من شهرين					

مهندس الهيئة

م / مارييت مجدي



مهندس الاستشاري

مكتب XYZ
م / محمد خليل



مهندس الشركة

م / محمد خليل



مشروع : استناد أعمال الجسر الترابي والأعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - مطروح) لتنفيذ أعمال الجسر الترابي (قطاع
برج العرب - العلمين) المسافة من الكم 388+000 إلى الكم 389+000 بطول 1 كيلو متر استكمال لإنهاء التجربة.

بم المبدأ وبالمه : (1-3) بعامر المكتب أعمال توريد وتشغيل التربة صالحة للتردم ومعالجة التماسكات وتشغيل باستخدام آلات التسيو بسعة لا تزيد عن 50 سم حتى غسوب (2.00 متر)
وبسعة لا تزيد عن 25 سم لاستكمال المسوب، التأسيس للشكل الجسر الترابي والاكشاف (تسوية التربة لا تقل عن 15%) وزنها والمادة الاصطناعية للوصول إلى نسبة الرطوبة المطلوبة
والتمتد الجرد بالهراست للوصول إلى أقصى كثافة حادة (95% من الكثافة الحادة القصوى) ويتم التفتيش طبقاً للمناسيب التصميمية والقطاعات العرضية النموذجية والموسوعات التصميمية
المعتادة بالمبدأ ويجمع مستندات طبقاً لاصول الصناعة ومواصفات الهيئة العامة لتطرق والتدري والتعليقات المهندسين المشرف .

علاوة مسافة النقل للتربة 115 كم (1480)

استطاع : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستشارة والتصميم

رقم العنصر	التاريخ	الموقع الكيلومترات		الكمية (متر)		
		من	إلى	متر	مساحة المثلث	الكمية
IR-5-(46)	19/12/2022	388+000	388+200	200.00	6.60	1056.00
IR-5-(47)	7/1/2023	388+200	388+300	100.00	6.20	496.00
IR-5-(48)	7/1/2023	388+300	388+500	200.00	5.82	931.20
IR-5-(49)	10/1/2023	388+000	388+200	200.00	5.50	880.00
IR-5-(50)	10/1/2023	388+200	388+300	100.00	6.03	482.40
IR-5-(51)	15/1/2023	388+000	388+200	200.00	5.50	880.00
IR-5-(52)	15/1/2023	388+200	388+300	100.00	5.86	468.80
IR-5-(53)	24/1/2023	388+000	388+200	200.00	5.67	907.20
IR-5-(54)	30/1/2023	388+000	388+200	200.00	5.95	936.00
7037.60	إجمالي الكميات جدول 1 (بالمتاح العامة) (م)					
7037.60	إجمالي الكمية (م)					

مهندس الهيئة

م / مازن حوت محسن



قائمة الكميات الواردة بالمستخلص النهائي

مشروع : اسناد اعمال الجسر القرائي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - مطروح) لتنفيذ اعمال الجسر القرائي (قطاع برج العرب - العامين) المسافة من الكم 388+000 الى الكم 389+000 بمعدل 1 كيلو متر استكمال اتجاه الشجيرة رقم البند وبيته : (1-3) بالمتر المكعب اعمال توريد وتشغيل التربة صالحة لتزويد ومطابقة للمواصفات والتشغيل باستخدام الات التسوية بسلك لا يزيد عن 50 سم حتى مشوب (-2.00 متر) وسلك لا يزيد عن 25 سم لاستكمال المشوب التصميمي لتشكيل الجسر القرائي والاكتاف (نسبة لحمل كاليفورنيا لا تقل عن 15%) ورشها بالعمية الاصلوية للوصول الى نسبة الرطوبة المطلوبة والدعم الجيد بالهراسات للوصول الى الحصن كثافة جافة (95% من الكثافة الجافة القصوى) ويتم التفتيش طبقا لنسب التجميعية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند بجميع مشتملاته طبقا لوصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف .

علاوة مسافته نقل للرمل 68 كم (20%)

تنفيذ : شركة دريم واي للتطاولات العامة والبريد العامة والاستاذ والمدير

رقم الطلب	التاريخ	شروع الكيلومتر		الابعاد (متر)			الكمية
		من	الى	طول	مساحة المقطع	العمق	
IR-S-(46)	19/12/2022	388+000	388+200	200	6.60	0.20	254.00
IR-S-(47)	7/1/2023	388+200	388+300	100	6.20	0.20	124.00
IR-S-(48)	7/1/2023	388+300	388+500	200	5.82	0.20	232.80
IR-S-(49)	10/1/2023	388+000	388+200	200	5.50	0.20	220.00
IR-S-(50)	10/1/2023	388+200	388+300	100	6.03	0.20	120.60
IR-S-(51)	15/1/2023	388+000	388+200	200	5.50	0.20	220.00
IR-S-(52)	15/1/2023	388+200	388+300	100	5.86	0.20	117.20
IR-S-(53)	24/1/2023	388+000	388+200	200	5.67	0.20	226.80
IR-S-(54)	30/1/2023	388+000	388+200	200	5.85	0.20	234.00
		إجمالي الكميات خلال فترة المستخلص (كم)					
		1759.40					
		الإجمالي الكلي (كم)					
		1759.40					

مهندس الهيئة

م / ماري حجت مجدي



مهندس الشركة

م / ماري حجت مجدي



قائمة الكميات الواردة بالمستخلص الخامس

مشروع : استناد أعمال الجسر الترابي والإعمال الصناعية لمشروع القطار الكهربائي السريع (عين السخنة - مطروح) لتنفيذ أعمال الجسر الترابي (قطاع برج العرب - العدين) المسافة من الكم 388+000 إلى الكم 389+000 بطول 1 كيلو متر استكمال اتجاه التجهيز.

رقم البند و بديله : (1-3) بالكم المكعب أعمال توريد وتشغيل التربة صالحة لردم ومعالجة للمواصفات والتشغيل باستخدام آلات التسمية بسمك لا يزيد عن 50 سم حتى مستوى 3.00 متر وبسمك لا يزيد عن 25 سم لاستكمال المنسوب التصميمي للكتل الجسر الترابي والكتل إنشائية لحمل كاتينوربا لا تقل عن 15% ورشها بالمياه الاسفلية للوصول إلى نسبة الرطوبة المطلوبة ولتتمك الجرد بالهوامش للوصول إلى أقصى كثافة جافة (95% من الكثافة الجافة القصوى) ويتم التنفيذ طبقاً للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند يجمع مشكلات طبقة لاصون الصناعية ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهامس المشرف.

ملاحظة: تحميل رسوم الكارثة والموازن طبقاً للائحة الشركة الوطنية

تسليم : شركة حريم وفي المقامات العامة والتوريدات المعمورة والاستناد والتصدير

رقم الطلب	التاريخ	الموقع الكيلومتری		الأبعاد (متر)		الكمية
		من	إلى	طول	مساحة المقطع	
IR-S-(46)	19/12/2022	388+000	388+200	200.00	6.50	1320.00
IR-S-(47)	7/1/2023	388+200	388+300	100.00	6.20	620.00
IR-S-(48)	7/1/2023	388+300	388+500	200.00	5.82	1164.00
IR-S-(49)	10/1/2023	388+000	388+200	200.00	5.50	1100.00
IR-S-(50)	10/1/2023	388+200	388+300	100.00	6.03	603.00
IR-S-(51)	15/1/2023	388+000	388+200	200.00	5.50	1100.00
IR-S-(52)	15/1/2023	388+200	388+300	100.00	5.86	586.00
IR-S-(53)	24/1/2023	388+000	388+200	200.00	5.67	1134.00
IR-S-(54)	30/1/2023	388+000	388+200	200.00	5.85	1170.00
		اجمالي الكميات خلال فترة المستخلص الحالية (م³)				
		اجمالي الكمية (م³)				
		8797.00				
		8797.00				

مهندس الهيئة

م / مازين ماضي



قائمة الكميات الواردة بالمستخلص الختلي

مشروع : اسناد اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - مطروح) لتنفيذ اعمال الجسر الترابي (قطاع
نرج العرب - العلمين) المسألة من الكم 388+000 إلى الكم 389+000 بطول 1 كيلو متر اتجاه استكمال النجيلة.

رقم الهند وبياناته : (1-11) بالمتر المسطح لوريد و تركيب طبقة من السجج المينائي جيو جريد مسانور الداخلي لا يقل عن 110% ويتم التنفيذ طبقا
لأصول الصناعة و الرسومات التفصيلية و الهند يجمع مشتتاته طبقا لتواصفات الهيئة العامة للطرق والكباري و تعليمات المهندس المشرف
ذات قوة شد لا تقل عن 30 ك. نيوتن في الاتجاهين

تسليم : شركة توبم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصنيع

الكمية	الأبعاد [متر]		الموقع الكيلومري		التاريخ	رقم الطلب
	عرض القطاع	طول	من	إلى		
3216	16.08	200	388+500	388+700	21/12/2022	IR-GE(02)
3216	16.08	200	388+300	388+500	23/01/2023	IR-GE(03)
3216	16.08	200	388+000	388+200	9/2/2023	IR-GE(05)
9648	اجمالي الكميات خلال فترة المستخلص الحالية (م ³)					

مهندس الهيئة
م / مارجريت مجدي



مشروع : امتداد أعمال الجسر الثرابي والأعمال الصناعية لمشروع القطار الكهربائي السريع (تأمين السخنة - مطروح) لتنفيذ أعمال الجسر الثرابي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 إلى الكم 389+000 بطول 1 كيلو متر اتجاه استكمال التجزئة.

رقم البند وبياناته : (2-5) بالمتر المكعب أعمال توريد وصب خرسانة عادية لتقدمات الحداية و الميول الجانبية لتكون من 0.8 م إلى 3 م مولوميت مدرج + 0.4 م رمل حريش والأضلاع طبقة لتعليمات الاستشاري (البر + سيكا) على أن يكون السن نظيف ومفصول والرمل خالي من الشوائب والطفلة والأملاح والمواد الغريبة مع وضع قوالب (بالفاصل) سمك 2 سم طبقة لتعليمات الاستشاري والبند يشمل أعمال الحفر والشدات وكل ما يلزم لنهوض العمل على أن تحقق الخرسانة أبعاد لا يقل عن 250 كجم/سم 2 وقلد الفواصل بالنيومين المرمل والتنفيذ طبقا لأصول الصناعة والرسومات التنفيذية المعتمدة والبند بجميع مشتقاته طبقا للمواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف.

تسليفت : شركة تريم وي للمطاولات العامة والتوريدات العمومية والإستيراد والتصدير

الكمية	الأبعاد [متر]		الموقع الكيلومتر		التاريخ	رقم الطلب
	مساحة المقطع	طول	من	إلى		
22.80	0.30	75	388+000	388+076	17/1/2024	IR(R.SP.1-BC)
18.80	0.30	55	388+076	388+132	21/1/2024	IR(R.SP.2-BC)
12.00	0.30	40	388+132	388+172	25/1/2024	IR(R.SP.3-BC)
20.40	0.30	59	388+172	388+240	3/2/2024	IR(R.SP.4-BC)
12.00	0.30	40	388+240	388+280	5/2/2024	IR(R.SP.5-BC)
10.80	0.30	35	388+280	388+316	6/2/2024	IR(R.SP.6-BC)
26.40	0.30	88	388+316	388+404	11/2/2024	IR(R.SP.7-BC)
22.80	0.30	75	388+404	388+492	14/2/2024	IR(R.SP.8-BC)
31.20	0.30	104	388+492	388+596	22/2/2024	IR(R.SP.9-BC)
20.40	0.30	59	388+596	388+716	25/2/2024	IR(R.SP.10-BC)
28.80	0.30	95	388+716	388+784	3/3/2024	IR(R.SP.11-BC)
25.20	0.30	84	388+784	388+880	4/3/2024	IR(R.SP.12-BC)
10.80	0.30	35	388+880	388+964	7/3/2024	IR(R.SP.13-BC)
260.40	إجمالي الكميات خلال فترة المستخلص الحالية (م ³)					
260.40	الأعمال (كم ³)					

مهندس الهيئة
م / مازح سيمعدي



مهندس الاستشاري
مكتب KVI
م / المهندس خليل



نموذج رقم ٢



بشان : حصر المواد المحجّرة الواردة بالمستخلص

القيد : / / ٢٠٢٣ المنطقة

التاريخ : / / ٢٠٢٣

الى السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة وبعد ،،،

نتشرف بان نرفق طية المستخلص الختامى الخاص بعملية
(اعمال الجسر الترابى والاعمال الصناعية للقطار الكهربائى السريع استكمال اتجاه النجيلة
تنفيذ شركة / دريم واى للمقاولات العامة والتوريدات عقد رقم ٢٠٢٣/٢٠٢٢/٧٢٩
يرجى التفضل بالاحاطة والتنبيه باتخاذ ما يلزم مع التفضل من سيادتكم
بالعلم ان المواد المحجّرة المستخدمة ببيانها كالاتى :-

م	نوع المادة المحجّرة	الوحدة	الكمية	الجهة الحصول على الخامة
١	سن	٣م	٣٢٨٤٧.٨٤	كسارة
٢	اتربة	٣م	١٨٢٤٨.٩٠	محجر المصرية
٣	رمل	٣م		محجر رقم / تصريح / بدون

هذا وقد تمت مراجعة (البونات المائية / التصريح) للكميات التى تم الحصول عليها من
(كسارات / محاجر / تشوينات) معتمدة ووجدت مطابقة للكميات بالمستخلص .
يرجى التكرم من سيادتكم بالعلم والاحاطة والتنبيه باتخاذ اللازم ،،،

وتفضلوا بقبول فائق الاحترام ،،،

٤

التوقيع (٩٢٩)
عميد مهندس / هانى محمد محمود طه
رئيس الادارة المركزية
للمنطقة الخامسة - غرب الدلتا

نموذج رقم ٢



بشان : حصر المواد المحجّرة الواردة بالمستخلص

القيد : / / ٢٠٢٣ المنطقة

التاريخ : / / ٢٠٢٣

الى السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة وبعد ،،،

نتشرف بان نرفق طيبة المستخلص الختامى الخاص بعملية
(اعمال الجسر القرابى والاعمال الصناعية للقطار الكهربائى السريع استكمال اتجاه النجيلة
تنفيذ شركة / دريم واى للمقاولات العامة والتوريدات عقد رقم ٢٠٢٣/٢٠٢٢/٧٢٩
يرجى التفضل بالاحاطة والتنبيه باتخاذ ما يلزم مع التفضل من سيادتكم
بالعلم ان المواد المحجّرة المستخدمة بيانها كالاتى :-

م	نوع المادة المحجّرة	الوحدة	الكمية	الجهة الحصول على الخامة
١	سن	م ^٣	٣٢٨٤٧.٨٤	كسارة
٢	اتربة	م ^٣	١٨٢٤٨.٩٠	محجر المصرية
٣	رمل	م ^٣		محجر رقم / تصريح / بدون

هذا وقد تمت مراجعة (البونات المائية / التصريح) للكميات التى تم الحصول عليها من
(كسارات / محاجر / تشوينات) معتمدة ووجدت مطابقة للكميات بالمستخلص .
يرجى التكرم من سيادتكم بالعلم والاحاطة والتنبيه باتخاذ اللازم ،،،

وتفضلوا بقبول فائق الاحترام ،،

(Signature)

التوقيع (*(Signature)*)
عميد مهندس / هانى محمد محمود طه
رئيس الادارة المركزية
للمنطقة الخامسة - غرب الدلتا

إفادة

بالإشارة لمشروع أعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع
(برج العرب - العمين)

العقد رقم: اتجاه الضبعة (2023/2022/729)

في المسافة من 388+000 الى 389+000

مقاوله شركة : دريم واي للمقاولات العمومية

اشراف استشاري : مكتب د/ عماد نبيل

كمية الاتربة المستخدمة في المشروع : 18248.90 م³.

يرجى العلم بأنه قد تم توريد المواد المحجزة بالمشروع ببيانات رسمية معتمدة وقام استشاري
المشروع بمراجعة جميع البيانات والتأكد من الكميات المدرجة وذلك تحت اشراف المنطقة.

مدير مشروع الشركة مدير مشروع الهيئة مدير عام المشروعات
م/ مازن عيسى م/ مارجريت مجدي م/ محمد حسني فياض



يعتمد

رئيس الادارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عميد مهندس /

" هاني محمد محمود طه "

كشف أتاوة المحاجر

عن كمية المواد التي تم استخدامها

مشروع أعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي
المريع (العين السخنة- العاصمة الادارية - العلمين - مطروح)
قطاع غرب النيل لتنفيذ المسافة من الكم 388+000 الي الكم 389+000 بطول
1 كم اتجاه (الضبعة)

تنفيذ : شركة دريم واي للمقاولات العمومية
أعمال تم تنفيذها حتي تاريخ 2024/2/28

كمية الاتربة المنفذة بند رقم (3-1)

بالمتر المكعب = 18248.90 م³

مدير مشروع الهيئة

م/ مارجريت مجدي

مدير مشروع الاستشاري



مدير مشروع الشركة

م/ السعيد محمد

رغم واي للمقاولات العامة
التوريدات العمومية والإستشارات والتصدير
ب. ط. ٢٠٤ - ٣٤ - ٣٤٠٠٠٠
٣٤٠٠٠٠ - ٣٤ - ٣٤٠٠٠٠

إفادة

بالإشارة لمشروع أعمال الجسر الترابي والأعمال الصناعية لمشروع القطر الكهربائي السريع
(برج العرب - العُلمين)

العقد رقم: اتجاه الضبعة (2023/2022/729)

في المسافة من 388+000 الي 389+000

مقولة شركة : دريم واي للمقاولات العمومية

إشراف استشاري : مكتب د/ عماد نبيل

كمية سن الفلتر المستخدمة في المشروع : 32847.84 م. . 3

يرجى العلم بأنه قد تم توريد المواد المحجزة بالمشروع ببيانات رسمية معتمدة وقام استشاري
المشروع بمراجعة جميع البيانات والتأكد من الكميات المدرجة وذلك تحت إشراف المنطقة.

مدير مشروع الشركة مدير مشروع الهيئة مدير عام المشروعات
م/ 7 السيد محمد م/ مارجريت مجدي م/ محمد حسني قياض



يعتمد

رئيس الادارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عميد مهندس /

" هاني محمد محمود طه "



كشف أتاوة المحاجر
عن كمية المواد التي تم استخدامها

مشروع أعمال الجسر الترابي والأعمال الصناعية لمشروع القطار الكهربائي
السريع (العين السخنة - العاصمة الإدارية - العظمين - مطروح)
قطاع غرب النيل لتنفيذ المسافة من الكم 388+000 إلى الكم 389+000 بطول
1 كم اتجاه (الضبعة)

تنفيذ : شركة دريم واي للمقاولات العمومية
أعمال تم تنفيذها حتى تاريخ 2024/2/28

كمية سن الفلتر المنفذة بند رقم (10-1)
بالمتر المكعب = 32847.84 م³

مدير مشروع الهيئة
م/ مارجريت مجدي

مدير مشروع الاستشاري



مدير مشروع الشركة

م/ السيد محمد



محضر استلام ابتدائي

لعملية: أعمال الجسر الترابي لمشروع القطار الكهربائي السريع (قطاع غرب النيل_قطاع برج العرب/العلمين)

لتنفيذ المسافة من الكم (388+000) إلى الكم (389+000) اتجاه الضبعة

تنفيذ شركة :- دريم واي للمقاولات العامة

إشراف: المنطقة الخامسة غرب الدلتا (الإسكندرية_مطروح)

استشاري الهيئة للمشروع : سيكترم (دعماد نبيل)

انه في يوم الاثنين الموافق 2024/02/28 وبناءً على قرار السيد العميد مهندس/رئيس الإدارة المركزية

لمنطقة غرب الدلتا رقم (121) بتاريخ 2022/09/14 والخاص بأعمال الاستلام الابتدائي للأعمال عالية.

فقد اجتمعت اللجنة المشكلة من كلاً من :-

- | | | |
|--------------------------------|---|----------|
| (1) المهندس/ محمد حسني فياض | مدير عام المشروعات بالمنطقة | (رئيساً) |
| (2) المهندس/ مارجريت مجدي زاهر | مدير مشروع القطاع من المنطقة | (عضواً) |
| (3) المهندس/ عبدالله عبدالمحسن | معمل المنطقة المشرفة | (عضواً) |
| (4) المهندس / مازن عصامي | مكتب: سيكترم (دعماد نبيل) استشاري الهيئة | (عضواً) |
| (5) المهندس/ محمد خليل | مكتب (اكس واي زد) استشاري المساحة بالمشروع | (عضواً) |
| (6) المهندس/ السعيد محمد | الشركة المنفذة : دريم واي للمقاولات العامة | (عضواً) |

وقد بدأت اللجنة أعمالها بالإطلاع على ملف العملية وكراسة الشروط والمواصفات وعقد العملية ثم انتقلت اللجنة على الطبيعة للمرور على الأعمال المنفذة ومعاينتها ظاهرياً وتم أخذ عينات أثرية من الجسر لإجراء التجارب اللازمة عليها بمعمل المنطقة وتحديد نسبة الحيوود وقد أسفر الفحص والمعاينة الظاهرية عن التالي:-

الأعمال المنفذة والمطلوب تسليمها أعمال الحفر وأعمال الأثرية لتشكيل مسار الجسر الترابي

أولاً:- أعمال الحفر:-

تم التأكد من وصول الأعمال للمناسيب المطلوبة طبقاً لطلبات التسليم بالمشروع والأعمال مقبولة بصفة عامة .

ثانياً:- حالة السطح العلوي للجسر المنفذ:-

الأعمال مقبولة بصفة عامة وتم التأكد من الوصول للمناسيب وتحقيق الميول الجانبية للقطاع

توصيات اللجنة :-

- (1) علي مندوب معمل المنطقة تحديد مدى الحبود بالعينات عن المواصفة العامة للمشروع وتحديد قيمة الخصم .
 - (2) علي السادة استشاري القطاع (سيكترم (دعماد نبيل)) مراجعة الحصر والتأكد من الكميات المنفذة طبقاً لطلبات الاستلام وموافقة اللجنة بالكميات والتجارب التي أجريت علي الأعمال أثناء التنفيذ.
 - (3) قام مندوب استشاري المساحة بالتأكد علي المناسيب المنفذة طبقاً للتصميم المعتمد.
 - (4) علي استشاري القطاع (سيكترم (دعماد نبيل)) متابعة سلوك الأعمال خلال فترة الضمان وإبلاغ الشركة بأي عيوب تظهر لأصلحها فوراً.
- وعليه ترى اللجنة قبول الأعمال حيث لا يوجد ما يعيق الاستلام الابتدائي للأعمال عليه ويعتبر تاريخ المحضر هو تاريخ النهو الفعلي وبدء فترة الضمان للأعمال.
- وعلي ذلك جري التوقيع.

التوقيعات باسم إلى للمقاولات العامة

(6) الأمين العام

(5) مدير

(4) مدير

(3) مدير

(2) مدير

(1) مدير

مكاتب نظامي

بخصوص :- اعمال الجسر الترابي والاعمال الصناعية لمشروع القطر

الكهربائي السريع بطول ١ كم استكمال اتجاه الضبعة

مخالطة :- شركة دريم واى للمقاولات العامة والتوريدات العمومية

بمناسبة انتهاء الاعمال الخاصة بالعمليّة عالية وعمل المستخلص الختامي

طبقا للكميات المنفذة على الطبيعة فقد تم اعداد المقايمة الختامية المرفقة لكافة

بنود العملية باجمالي مبلغ ١٩٩٩٧٩١٦.٨٢ جنيه (فقط وفدرة تسعة عشر مليون وتسعمائة وسبعة وتسعون

الف وتسعمائة وستة عشر جنيها واثنان وثمانون لاغير)

مدير عام المشروعات

مهندس / المشرف على تنفيذ العملية

الاسم / محمد حسن تامر

الاسم / ماريّة محمد زاهر

التوقيع / محمد حسن تامر

التوقيع / ماريّة محمد زاهر

رئيس الادارة المركزية

منطقة غرب الدلتا

(بالاسكندرية/ مرسى مطروح)

عميد مهندس / " هاني محمد محمود طه "





"عَلَى مُحَمَّدٍ مَخْرُوجٌ طَه"