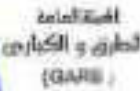
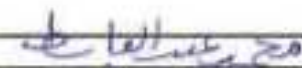
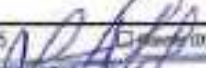


MATERIAL APPROVAL REQUEST		    																							
Contractor Company	Dream way		Designer Company	SPECTRUM Engineering Consulting Office																					
Issued by Contractor	Name	Eng. Saeed Mohamed	Date/Serial Number	31/10/2022 (SS-B-DW) (Q.T-07-01)																					
	Time	1:00																							
Received by GARIB CONSULTANT	Eng. Mazen Esamy		MAR	<table border="1"> <tr> <td>Q1</td> <td>Q2</td> <td>Q3</td> <td>Q4</td> <td>Q5</td> <td>Q6</td> <td>Q7</td> <td>Q8</td> <td>Q9</td> <td>Q10</td> </tr> <tr> <td>365</td> <td>EW</td> <td>CS</td> <td>1</td> <td>11</td> <td>2022</td> <td>1</td> <td>9</td> <td></td> <td></td> </tr> </table>	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	365	EW	CS	1	11	2022	1	9			
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10																
365	EW	CS	1	11	2022	1	9																		
CODE:	<table border="1"> <tr> <td>SS to S21</td> <td>SS to S3</td> <td>SS Note</td> </tr> <tr> <td>Station Reference</td> <td>Depot Reference</td> <td>For Kilometer point only Start km is used</td> </tr> </table>	SS to S21	SS to S3	SS Note	Station Reference	Depot Reference	For Kilometer point only Start km is used	Work Activity	Sub Element of Activity																
SS to S21	SS to S3	SS Note																							
Station Reference	Depot Reference	For Kilometer point only Start km is used																							
Description of Materials	Aggregate (Filter)																								
Location to be Used	المشور																								
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 BY 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) M³ 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		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																									

Contractor		Electrical Express Train From Borg Al Arab to Alamein From Station 388+000 To Station 389+000		Serial No. QT (6-1)						
				Date 1/11/2022						
	مكتب أ.د. عبد الباقى									
	Material Inspection Request									
	We request your attendance to inspect the following works :									
	Discipline : ☐ Outlets/Probes ☐ Street ☐ Drainage ☐ Sewer									
	Location :	Zone	Volume							
		dream way	18800m3							
	References	Drawing: EST-BORG EL ARAB REV 29 Plan Profile		Specification: EET L.L.1-Earthworks Specifications and Testing Report						
	Purpose of the Inspection									
	1. Earthworks : <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>☐ Foundation Code</td> <td>☐ Soil Nails</td> </tr> <tr> <td>☐ Upper Slope/Retain</td> <td>☐ Mats</td> </tr> <tr> <td>☐ L/H Retainment</td> <td>☐ Excavation</td> </tr> </table>				☐ Foundation Code	☐ Soil Nails	☐ Upper Slope/Retain	☐ Mats	☐ L/H Retainment	☐ Excavation
☐ Foundation Code	☐ Soil Nails									
☐ Upper Slope/Retain	☐ Mats									
☐ L/H Retainment	☐ Excavation									
	Attachments									
	1- Quality test report agg.(1&2&6) filter layer									
	Materials to be Inspected	Quality Test For aggregate(1&2&6) by Camibassal								
	Submitted by:	dream way	Signature:							
Consultants	GARP Consultant Engineer's Comments :		Date of Inspection:-							
	- the quality test result by third party lab of aggregates 1&2&6 equal Portion 1: 1: 1 is ok - This sample representative Soami only.									
	The Works are : ☒ Approved (A) ☐ Approved in Part (B) ☐ Rejected (C) ☐ Rejected (D)									
	Name: Helen Esmy		Signature: 							
	General Consultant's Comments:		Date:-							
	(3) Sample of agg no 18288 was selected for Quality Test (2) Quality Test was Carried out by Third Party lab Camibassal. (3) Results attached and found acceptable and completely with Specs (4) final approval is subjected to above mentioned Comment.									
	The works are:		☒ Approved (A) ☐ Approved in Part (B) ☐ Rejected (C) ☐ Rejected (D)							
	Name: Alaa Abdelhatef		Signature: 							
	GARP Engineer's Comments:		Date:- 23/11							
Name:		Signature:								
General Consultant Eng.		GARP Eng.								



COMIBASSAL International Controllers

الجمعية التعاونية لأعمال المراقبة والتفتيش الدولية (كوميباسال)

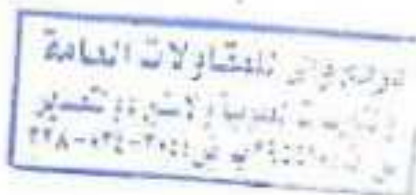
حاصلة على شهادة الأيزو ISO 9001:2008

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2017

قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للبترو
تحت رقم ٢٤ / ١١٠٦٩ / 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 % = $[(B - A)/A] \times 100$	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





COMIBASSAL International Controllers

الجمعية العامة للتحكم في الأعمال والوزن والمراجعة والتحكم في الجودة (كوميباسال)

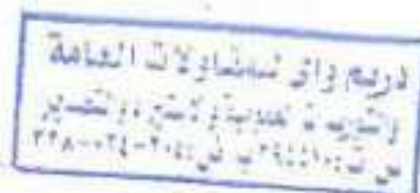
حاصلة على شهادة الأيزو ISO 9001:2008

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

مستند لدى الهيئة المصرية العامة للبتروك
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 دريم واي

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

L.A.B. 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 للاستشارات الهندسية لأعمال الوزن والمراجعة والتجربة 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

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

لرئيس اللجنة الفنية
والرئيس التنفيذي
من ٢٢٨ - ٢٢٩ - ٢٣٠ - ٢٣١ - ٢٣٢

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





COMIBASSAL International Controllers

(الجمعية التعاونية الإستراتيجية للأعمال 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

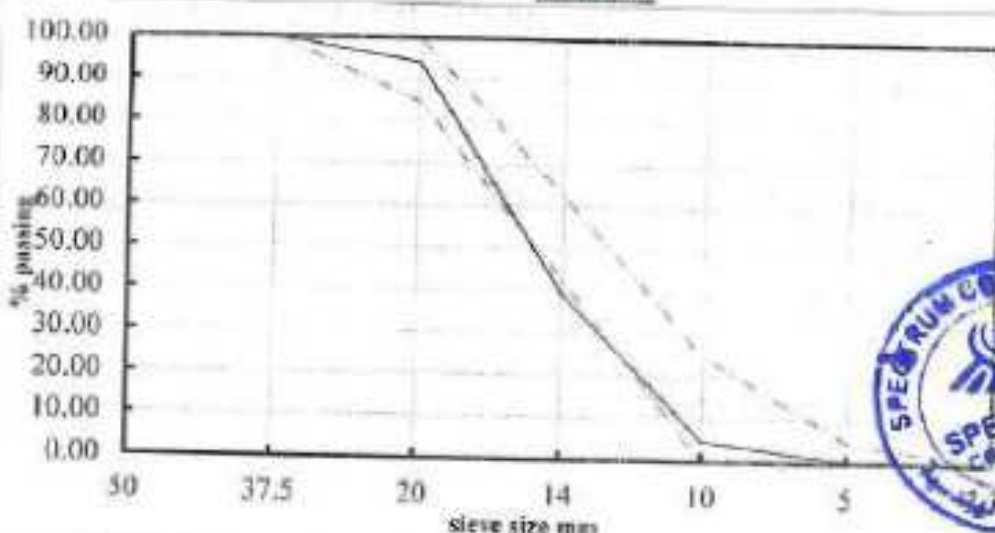
قطاع التفتيش الداخلي والمعامل

مستند 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

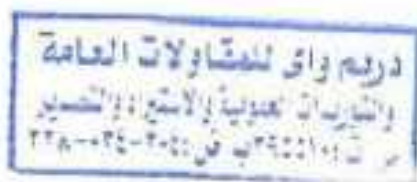
Results



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





COMIBASSAL International Controllers

الجمعية المصرية للمراقبة الدولية للأعمال الإشرافية والدراسات الاستشارية (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

معتمد لدى الهيئة المصرية العامة للترول
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 :

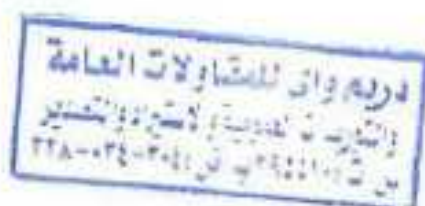
01/11/2022



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.



Eman

Eng. Eman E.Kandil



COMIBASSAL International Controllers

(الجمعية المصرية للمراقبة الدولية للأعمال والمراجعة والخبرة 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

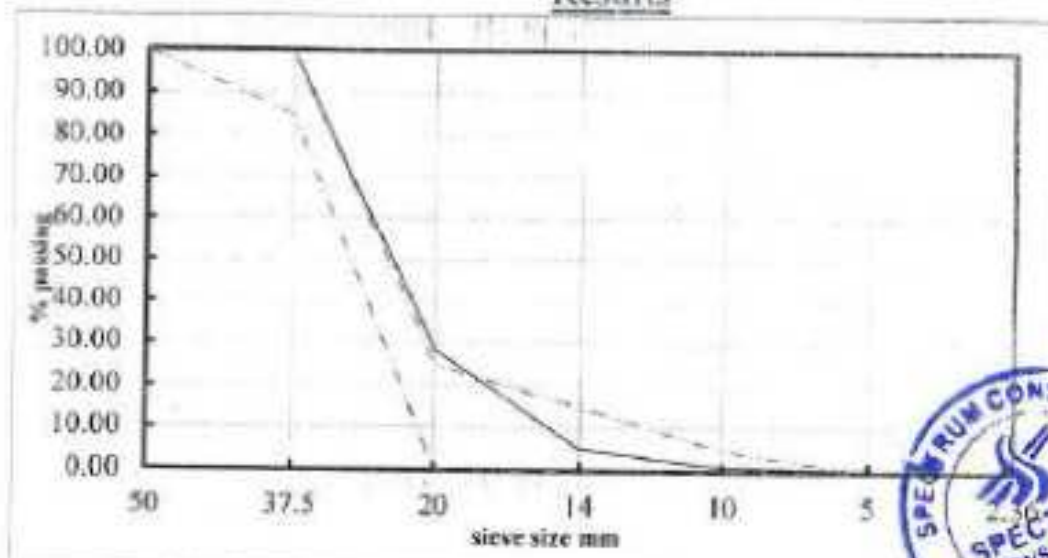
قطاع التفتيش الداخلي والمعامل

متمتع لدى الهيئة المصرية العامة للتقنين
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 582 Table 4. 40 mm
Sample	:	COARSE AGGREGATE (Agg 2)
Date of Test	:	1/11/2022

Results



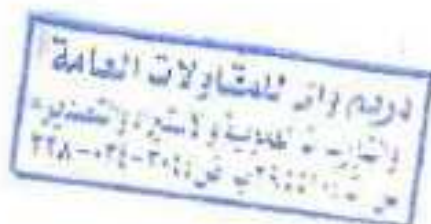
sieve size mm	50	37.5	20	14	10	5	2.5
passing %	100	100	29	5	1	0	0



Civil. Eng Department

Eman

Eng : Eman. E. Kandil





COMIBASSAL International Controllers

الجمعية التعاونية لأعمال البترول والمراجعة الدولية (كومباسال)

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 للبترول
تحت رقم ٣٤ / ٢٩ / ٢٩ / ١١ / ٢٠١١

Report no : 1660 / 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 صفيحة زغلول - الأسكندرية ص - ب ١٥٧

ت ٤٨٧٠٥١٧ - ف ٤٨٦٩٩٨ - ٤٨٧٠٧١٥

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

Tel:4870573 - Fax + Tel : 4869796 - 4870665



القطاع: خلف ١٩ طريق الحرية - الإسكندرية - مصر
ت ٣٩٢٠١٧٦ - ٣٩٣١٤٨٢ - ف ٣٩٢٠٤٧٦

49 EL Horria Ave. - Alex, Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail: internal-inspection@comibassal.com



COMIBASSAL International Controllers

الجمعية التعاونية للأعمال والوزن 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 - 9 - center
Date: 23/11/2022

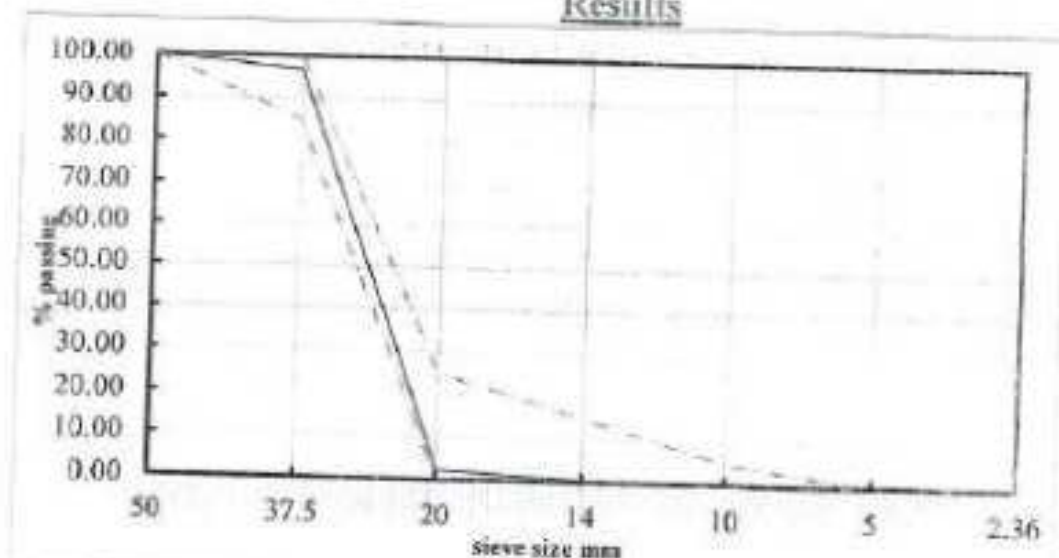
قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للبتروول
تحت رقم ٣٤ / 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 : 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 لأعمال البنى التحتية والمرافق والمنشآت (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 والمعامل

معتمد لدى الهيئة المصرية العامة للبترو
تحت رقم ٣٤ / ٢٩ / ١١ / 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 نريم واى

Project :

Electric express train

Sample :

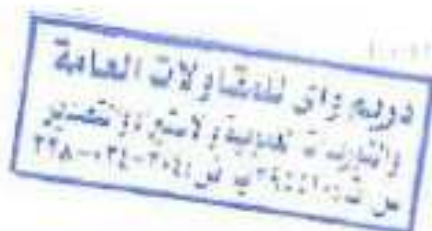
COARSE AGGREGATE (Agg 3)

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



الإدارة: 40 شارع صفيية زغلول - الإسكندرية - مصر

ت: ٤٨٧٠٥٧٦ - ف: ٤٨٧٠٥٧٦ - ٤٨٧٠٥٧٦

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

Tel:4870573 - Fax + Tel : 4869796 - 4870665



القطاع: 49 طريق الحرية - الإسكندرية - مصر

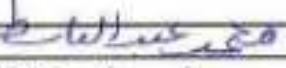
ت: 3920176 - 3931482 - ف: 3900476

49 EL Horia Ave. - Alex, Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail: internal-inspection@comibassal.com

MATERIAL APPROVAL REQUEST		     									
Contractor Company	Dreams 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		MAN	388	EW	CS	7	11	2022	1	0
CODE	S1 to S21		D1 to S3		By XXX Rule						
	Station Reference		Depot Reference		For Kilometer point only Start Km is used						
Work Activity		Sub Element of Activity									
Description of Materials		Aggregate (Filter)									
Location to be Used		المشون									
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 BY 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) 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				7/11/2022		A				
QA/QC *	Eng. Mazen Esamy						A				
GARB **	Eng. Margret										
Employers Representative	Eng. Alaa Abd-Allatif						A				
* Designer ** Alignment/Bridges/ Culvert only											

Contractor	 		Electrical Express Train From Borg Alarab to Alamein From Station 388+000 To Station 389+000				Serial No. QT (9-1)
						Date 7/11/2022	
	Material Inspection Request						
	We request your attendance to inspect the following works :						
Discipline : ☐ Challenge Roadway ☐ Streets ☐ Drainage ☐ Bridge							
Location :		Zone dream way		Volume 10000m3			
References		Drawing : EET-BORG EL ARAB REV 25 Plan Profile			Specification : EET LLL Earthworks Specifications and Testing Report.		
Purpose of the inspection							
1. Earthworks							
☐ Retain Soil Grade ☐ Soil Erosion ☐ Upper Embankment ☐ Subcut ☐ L.I. H Embankment ☐ Excavation							
Attachments							
1- Quality test report agg-(18286) filter layer							
Materials to be Inspected : Quality Test For aggregate(18286) by Comibassal							
Submitted by:		dream way		Signature: 			
GARP Consultant Engineer's Comments :							
the quality test result of the third party laboratory of agg 18286 equal portion 1111 in 1111 This sample representative 5000m3							
Date of Inspection:							
The works are : ☐ approved (A) ☐ approved as noted (B) ☐ design required (C)							
Name: Hazen Emamy							
General Consultant's Comments:							
1) 131 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 Spec of Pk 4) final approval is subjected to above mentioned comment.							
The works are : ☐ approved (A) ☐ approved as noted (B) ☐ design required (C)							
Name: Alaa Abdelhady							
GARP Engineer's Comments:							
Signature: 							
Date: 23/11							
Name:							
Signature:							
General Consultant Eng.							
GARP Eng.							

دورية ذات المتطلبات المعتمدة
 وتتمثل في: 1- اختبار جودة
 2- اختبار متانة
 3- اختبار متانة
 4- اختبار متانة
 5- اختبار متانة
 6- اختبار متانة
 7- اختبار متانة
 8- اختبار متانة
 9- اختبار متانة
 10- اختبار متانة





COMIBASSAL International Controllers

الجمعية التعاونية لأصحاب الأعمال التجارية الدولية (كومباسال)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

مستند لدى الهيئة المصرية العامة للبترول
تحت رقم ٢٠١١/١١٠٢٩/٢٢

دورية وار تفتيشات الجودة

إشعارات - التغييرات - أصبح في التفتيش
ب - ٢٠١١/١١/٢٩ - ٢٠١١/١١/٢٩

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.	2.60	2.60	2.60

Tested By :

Mostafa

Checked By : Eng. Eman E. Kandil

الإدارة: ١٥٧ ش. سفية زغلول - الإسكندرية - مصر

ت. ٤٨٧٠٦٢٢ - ف. ٤٨٧٠٦٢٢ - ٤٨٧٠٦٢٢

40 Safia Zaghoul St., p.o.Box 157 Alex, Egypt

Tel: 4870573 - Fax + Tel : 4869798 - 4870665



القطاع: خلف 24 طريق الحرية - الاسكندرية - مصر

ت. ٣٩٠٠٤٧٦ - ف. ٣٩٠٠٤٧٦ - ٣٩٠٠٤٧٦

49 EL Horria Ave. - Alex, Egypt

Tel: 3920176 - 3931462 - Fax: 3900476

E-mail: internal-inspection@comibassal.com



COMIBASSAL International Controllers

الجمعية التعاونية لأعمال البترول والمراجعة والمحاسبة 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

مستند لدى الهيئة المصرية العامة للبترول
تحت رقم ٢٤/٢٩١١٢٥/٢٠١١

دورة تأهيل مستشاري الجودة
إدارة الجودة الشاملة
على منهج الأيزو ٩٠٠١:٢٠١٥
٢٢٥-٠٢-٢٠١١

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 لأعمال البترول والمراجعة والخبرة الدولية (كوميباسال)

ISO 9001:2015 حاصلة على شهادة الأيزو

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 / ٢٠١١

داريم واى استاذات العاهة
إمبارت - المديرة - إسماعيل
من ٢٠١١ إلى ٢٠٢١ - ٢٠٢١ - ٢٠٢١

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 واى

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] X 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 (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: ١٠ ش صفيية زغلول - الإسكندرية - مصر

٤٨٧٠٧٣٥ - ٤٨٧٠٧٣٥ - ٤٨٧٠٧٣٥

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

Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع: خلف ١٩ طريق السويدي - الإسكندرية - مصر

٤٩ - ٤٩ - ٤٩ - ٤٩ - ٤٩ - ٤٩

49 EL Horria Ave. - Alex, Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail: internal-inspection@comibassal.com



COMIBASSAL International Controllers

الجمعية المصرية للتقنية لأعمال الإشراف 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: 1716 - 4 - center

Date: 23/11/2022

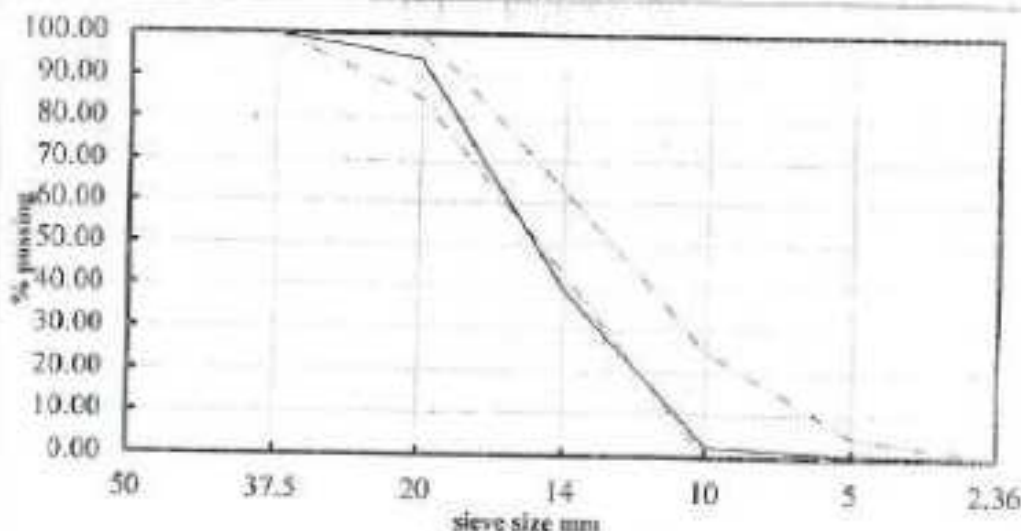
قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للبتروك
تحت رقم ٢٤ / ٢٩ / ٣٤١١٠١١

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	:	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

دراسة إشراف على تنفيذ الأعمال العامة
للمشروع: إنشاء خط مترو الأنفاق
في منطقة الدقي - القاهرة
٢٢٨ - ٢٢٩ - ٢٣٠



Eng. Eman, E. Kandil





COMIBASSAL International Controllers

الجمعية التعاونية الانتاجية 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

بمقتضى لدى الهيئة المصرية العامة للقياس
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)

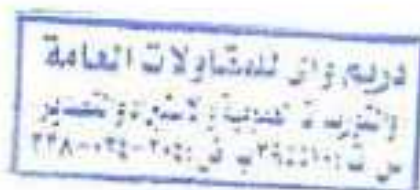
Date of Test :

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.





COMIBASSAL International Controllers

الجمعية المصرية للتقويم الإنشائية لأعمال الإوزن 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: 1716 - 6 - center

Date: 23/11/2022

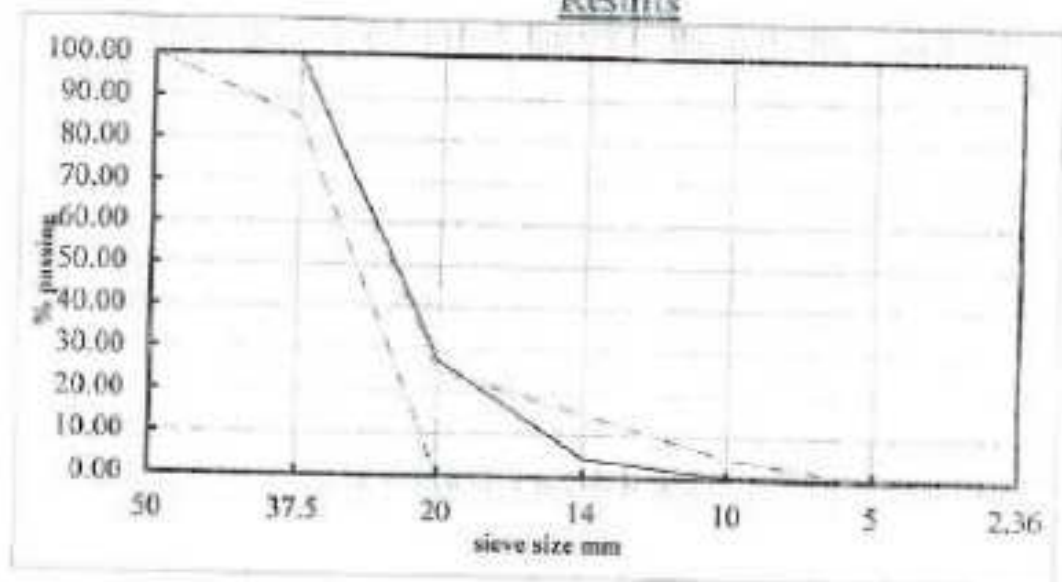
قطاع التفتيش الداخلي والمعايير

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

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 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

د. محمد واز للتقويمات العامة
والهندسة المدنية والبناء
من ٢٠٠٨ إلى ٢٠٢٢

Civil Eng Department



Eng. Eiman E. Kandil



الإدارة: ١٥٠ مشية زيفلول - الإسكندرية - ب ١٥٧

٤٨٧٠٦٤٥ - ٤٨٦٩٩٨ - فاكس ٤٨٧٠٥٧٧

40sefia zaghoul st., p.o.Box 157 Alex, Egypt

Tel: 4870573 - Fax + Tel : 4869798 - 4870665



القطاع: ١٥ مشية زيفلول - الإسكندرية - مصر
٢٤٠٠٤٧٠ - ٢٤٠٠٤٧٠ - ٢٤٠٠٤٧٠

49 EL Horia Ave. - Alex, Egypt

Tel: 3920175 - 3931482 - Fax: 3900476

E-mail: internal-inspection@comibassal.com



COMIBASSAL International Controllers

الجمعية التعاونية لأعمال الأوزون والمراجعة والكفاءة الدولية (كواميبسال)

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)

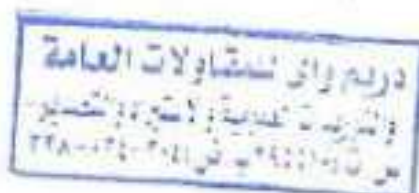
Date of Test :

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. Kandil



الإدارة: 40 ش. سفية زغلول - الإسكندرية - ب 157

ت: 4870573 - 4870665 - ف: 4870573 - 4870665

40 Safia Zaghoul st., p.o.Box 157 Alex, Egypt

Tel: 4870573 - Fax + Tel: 4870798 - 4870665



القطاع: 49 طريق الحرية - الإسكندرية - مصر
ت: 3920176 - 3931482 - ف: 3900476

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



COMIBASSAL International Controllers

الجمعية التعاونية لأعمال البترول والمراجعة والمحاسبة الدولية (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

Report No: 1716 - 8 - center
Date: 23/11/2022

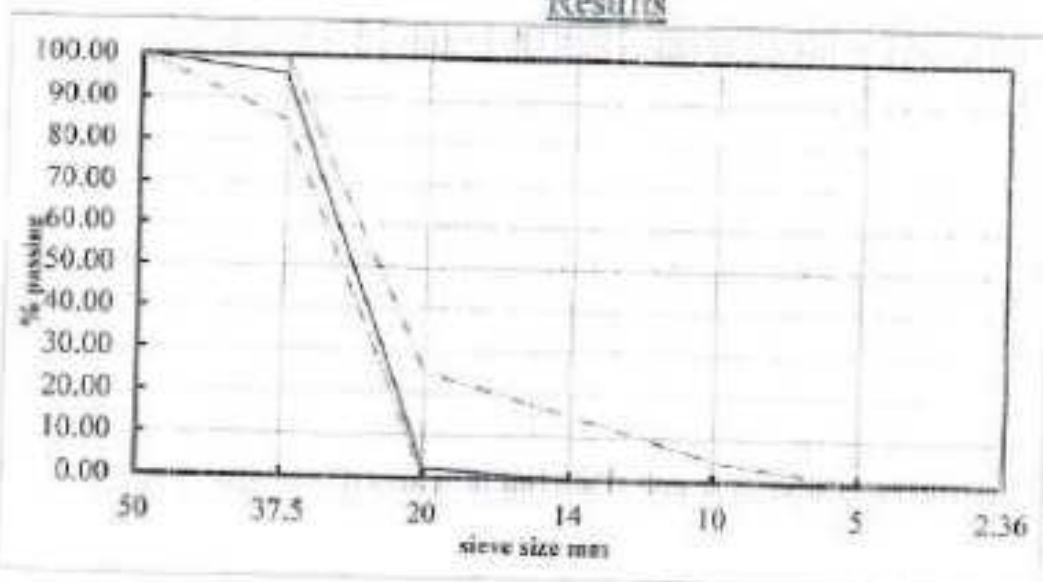
قطاع التفتيش الداخلي والمعامل

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

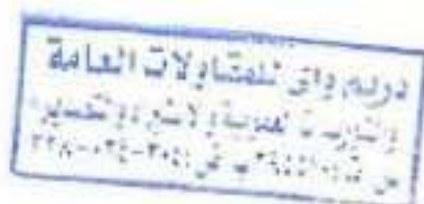
Results



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

Civil. Eng Department

Eng. Eman, E. Kandil

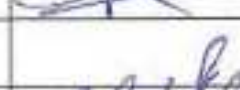
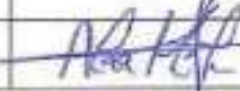


Contractor Company	Dream Way for construction		Designer Company	SPECTRUM				
Issued by Contractor	Name	Sign	Date/Serial Number		Time			
	Eng. ElSaeed Mohamed		26/10/2022 (SS-B-DW) (P.L.T.01)		10:00 AM			
Received by GAB CONSULTANT	Eng. Mazen Esamy		MR	C1	C2	C3	DD	MM
				25	10	01	27	10

C100-1	SI to S21	SI to S3	EP 300 Note
	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		مهاجر السوي - العين				
Test Requirement		P.L.T (DIN 18134)		Specification	SAMI HWORE SPECIFICATIONS & TESTING REPORT (CS2)-4L.2) VERSION 2 BY CNECON 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 Result (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
GAB**	Eng. Margret magdy			
Employers Representative	Eng. Alaa Abd-Allah			A

* Designer

** Alignment/Bridges/Culverts only



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



Serial No.
PLT
(1)



مكتب أحمد 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 L.L.L. Earthworks Specifications and Testing Report		

Purpose of the inspection

1. Earthworks

- | | |
|--|--|
| ☐ Natural Sub Grade | ☐ Sub Ballast |
| ☐ Upper Embankment | ☐ Ballast |
| ☐ L / M 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:

GARP Consultant Engineer's Comments :

Date of Inspection: 27/10/2022

The plate load test result by third party is acceptable

The works are :

☒ Approved (A)

☐ Approved as noted (R)

☐ Revoked Suspended (U)

☐ Rejected (R)

Name: Mazen Gamy

Signature:

General Consultant's Comments:

Date: 27/10/2022

- (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 (R)

☐ Revoked Suspended (U)

☐ Rejected (R)

Name: Alan Abotellat

Signature:

GARP Engineer's Comments:

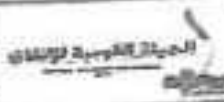
Date: 30/10/2022

Name:

Signature:

General Consultant Eng.

GARP Eng.



Serial No.
SM-7(02)

ملف رقم 100
Receivable Sheet from Eng. Hani Al-Amin
From Station 388+00 to Station 388+600



Date
18/10/2022

Works Inspection Request

We request your attendance to inspect the following works:

Discipline: ☐ Drainage/Retention ☐ Bridge ☐ Tunnel ☐ Sewer

Location: ☐ Road ☐ Freeway ☐ Station 388+720 To 388+830 ☐ 6.70 متر من كفاف

Reference: Drawing: 021-0000 25, 021-0001 30 Plus Profile Specifications I.C.L. and works specifications and testing report.

Purpose of the inspection: ☐ Surveying ☐ Sampling ☐ Level ☐ Material

Attachment: 1- master sheet for cut for 25M20 2-daylight coordinator

3- As-built levels 4- PLAN

Works to be inspected: AS BUILT FILTER LAYER FROM STATION 388+720 TO 388+830

Submitted by: Dr. Hani Al-Amin

Signature:
Date of inspection: 1 / 1

Responsible Consultant Engineer's Comments:

The works are: ☐ Approved (A) ☐ Approved with (R) ☐ Rejected (R) ☐

Name: Mohamed Mansour Signature:
GSEP Consultant Engineer's Comments: Date of inspection: 1 / 1

The works are: ☐ Approved (A) ☐ Approved with (R) ☐ Rejected (R) ☐

Name: Hazen Erany Signature:
Responsible Consultant Engineer's Comments: Date: 1 / 1

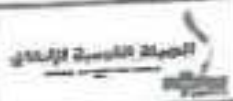
The works are: ☐ Approved (A) ☐ Approved with (R) ☐ Rejected (R) ☐

Name: Signature: Date: 1 / 1

GSEP Engineer's Comments: Signatures

Name: GSEP Eng.





Serial No.
10-2(03)

الهيئة العامة للطرق والمواصلات
General Authority of Civil Aviation
Ministry of Transport and Public Works



Date
11/10/2022

Work Inspection Request

We request your attendance to inspect the following work:

Discipline:	☐ Highway	☐ Water	☐ Drain	☒ Tunnel
Location:	Zone	From Station	To Station	Level
	Boundary	200+000	300+000	0.70 m
Reference	Drawing: 107-0004 SL 0001 REV 20 Plus Profile			

Purpose of the inspection

Surveying

- ☐ Surveying
☐ Level
☐ Volume

Attachments:

1- as-built plan for the tunnel

2- as-built elevation

3- As-built levels

4- PLAN

Work to be inspected

AS BUILT FILTER LATCH FROM STATION 200+000 TO 300+000

Submitted by: Engineer

Signature:

Date of inspection: 11/10/2022

Supervisor/Consultant/Engineer's Certificate

The work is:

☐ Approved (A)

☐ Approved with (B)

☐ Rejected (C)

☐ Rejected (D)

Name: Mohamed Khusair

Signature:

Date of inspection: 11/10/2022

Supervisor/Consultant/Engineer's Certificate

The work is:

☐ Approved (A)

☐ Approved with (B)

☐ Rejected (C)

☐ Rejected (D)

Name: Haniyeh Gham

Signature:

Date:

Supervisor/Consultant/Engineer's Certificate

The work is:

☐ Approved (A)

☐ Approved with (B)

☐ Rejected (C)

☐ Rejected (D)

Name:

Signature:

Date:

Supervisor/Consultant/Engineer's Certificate

Signature

Name:

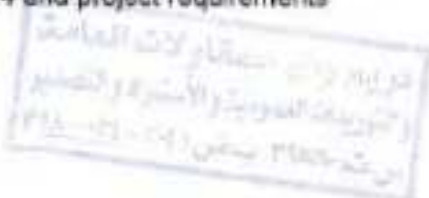
Supervisor



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

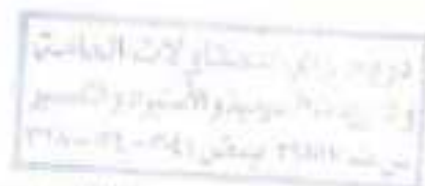
Test Procedure

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).

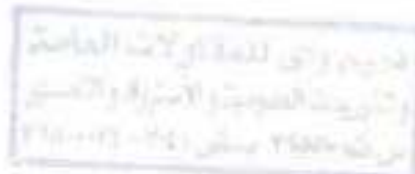
Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Sunny
- Plate Diameter (mm)	600
- date of measurement	27/10/2022
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

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 /
 مكتب معامل الاستشارات الهندسية
 الاستشارات الهندسية
 رقم الترخيص: 213-501-507
 القاهرة - الجيزة - 11511





Company Name : شركة تريم واي
Project : Electric Express Train, from Al Ain Sekhna 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	17.59	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	17.95	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]

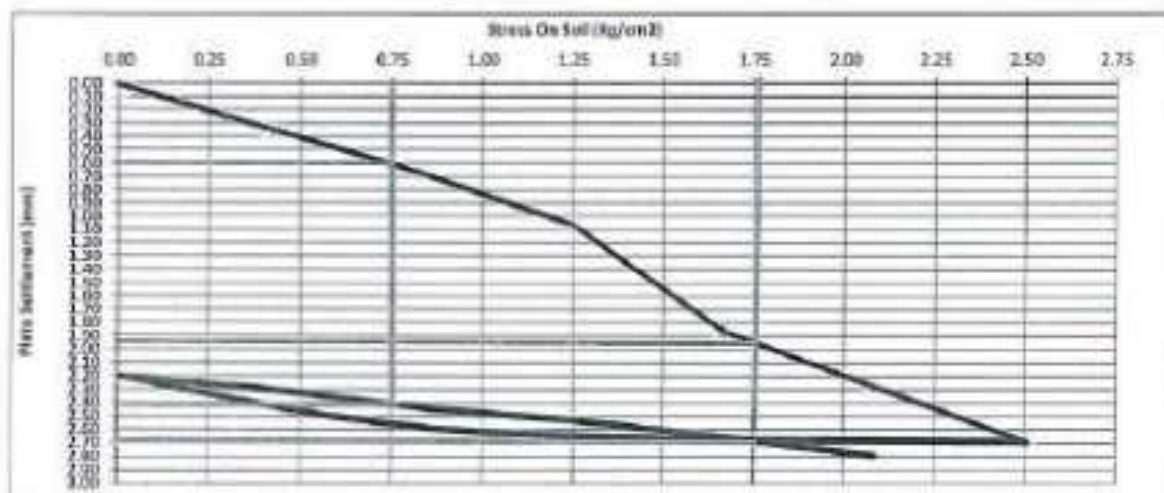
Signature



Company Name : شركة فريم وان
Project : Electric Express Train, from Al Ain Sokhna to Marsa 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

مركز فريم وان للاستشارات الهندسية
والإدارة الهندسية والبيئية
بمبنى 388+500 - 388+600
القاهرة - مصر

**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	0.35	0.67	1.07	1.87	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)	2.88	2.65	2.52	2.20

D (mm) =	600	S1 (mm) =	0.60	S2 (mm) =	1.95	ΔS =	1.35
Ev1 (kg/cm²) =	$(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$						
	333						

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)	2.20	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) =	$(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$						
	1600						

CEL
مكتب فريم وان للاستشارات الهندسية
Signature :
219 - 921 - 921
219 - 921 - 921



Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Re-loading stage.
D = Plate diameter (mm)
Ds = 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 (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/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	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	0.89
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/cm2	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/cm2	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	17.63	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)

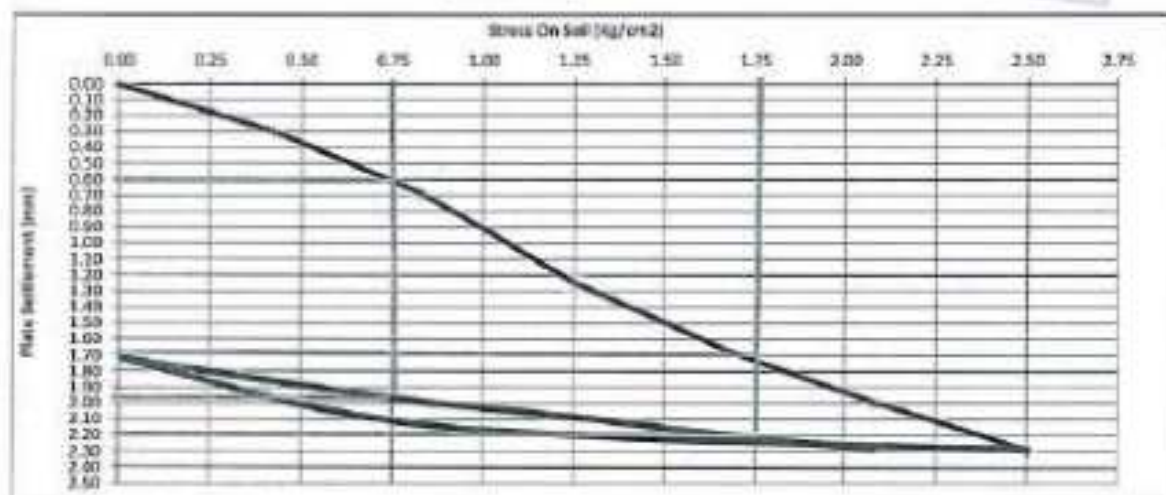
Signature

[Handwritten Signature]
مكتب معامل الاستشارات الهندسية
الاستشارات الهندسية
TIF - 591 - 537
2840 - 2841 - 2842



Company Name : شركة مريم وان
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (S) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 358+600 to 358+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	0.60	1.00	1.34	1.67	2.20

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)	2.20	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.

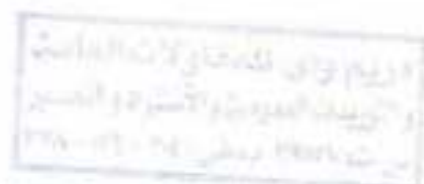
D = Plate diameter (mm)

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 : 
مكتب مريم وان
الاستشارات الهندسية
219-301-5371
القاهرة - مصر





Company Name : شركة تريم 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+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	18.60	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



Company Name : شركة دريم واي
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+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	S1 (mm) = 0.60	S2 (mm) = 1.80	ΔS = 1.20
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	375		

Ev2/Ev1 = 4.0

Loading (2)	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

D (mm) = 600	S1 (mm) = 2.25	S2 (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 S2 and S1 from the maximum loading (smax) (kg/cm²)

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

Signature: 
مكتب دريم واي للاستشارات الهندسية
القاهرة - الجيزة
219 - 557 - 557
219 - 557 - 557





Company Name : شركة دريم 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!

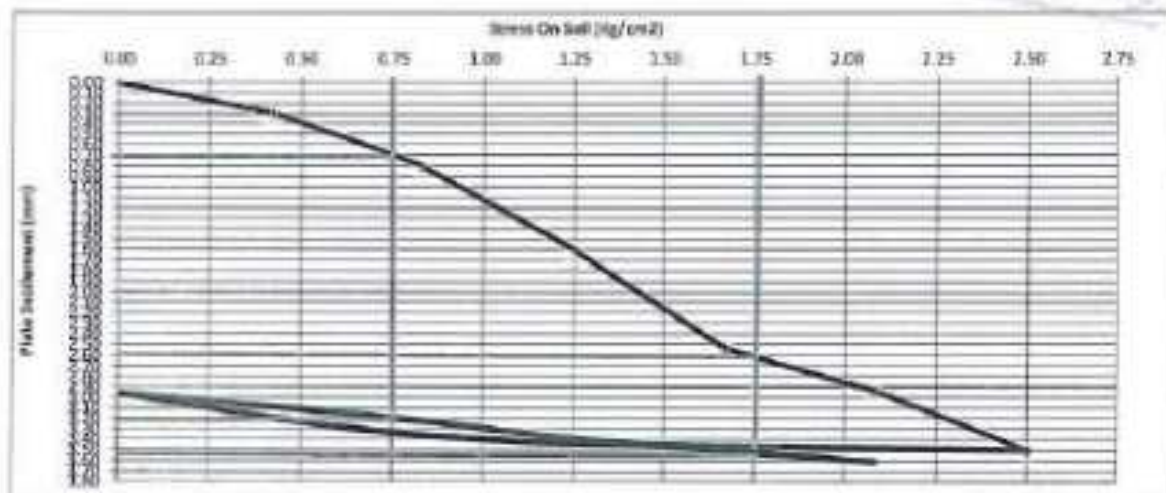
Signature \

Signature of the Engineer
مكتب معامل الاستشارات الهندسية
الاعتمادات المعتمدة
رقم التسجيل: 337 - 99
عنوان: القاهرة - الجيزة



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) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	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) = 500	S1 (mm) = 3.29	S2 (mm) = 3.38	ΔS = 0.35
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	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 Matruh 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	19.30	0.70	19.33	0.67	0.72
3	1.25	18.80	1.20	19.03	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	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature \

مكتب معامل الاستشارات الهندسية
الاستشارات الهندسية
إمارة القاهرة
219 - 001 - 000
0000 - 0000 - 0000



Company Name : شركة فريم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (S) - 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 (1)	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	0.57	0.72	1.10	1.72	2.23	2.50

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

D (mm) = 600	S ₁ (mm) = 0.70	S ₂ (mm) = 1.45	ΔS = 1.15
Ev1 (kg/cm ²) = (0.75*D ² *Δσ)/ΔS	391		

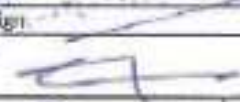
Ev2/Ev1 = 4.8

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)	2.07	2.17	2.29	2.41	2.53	2.63

D (mm) = 600	S ₁ (mm) = 2.39	S ₂ (mm) = 2.56	ΔS = 0.25
Ev2 (kg/cm ²) = (0.75*D ² *Δσ)/ΔS	1300		

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 (σ_{max}) (kg/cm²)
ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

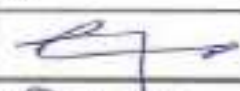


Contractor Company	Dream Way for constructions	Designer Company	SPECTRUM
Issued by Contractor	Name	Sign	Date/Serial Number
	Eng. ElSayed Mohamed		6/11/2022 (55-B-DW) (P.L.T.02)
Received by GARB CONSULTANT	Eng. Mazen Esamy		Time 10:00 AM

CMT-1	S1 to S23	D8 to S3	Kp 300 kN/m2
CMT-2	Station Reference	Depth Reference	For Kilometer point only Start Km is used
CMT-3	Work Activity		
CMT-4	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+683.86	
Supplier Name	محاجر السوي - العلمين				
Test Requirement	P.L.T (DIN 18134)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (SGL2-A1.2) VERSION 2 BY ONCCON 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	Note
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 (P.L.T. 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. ElSayed Mohamed		9/11/2022	A
QA/QC *	Eng. Mazen Esamy			A
GARB**	Eng. Moustafa magdy			
Employers Representative	Eng. Alaa Abd-Allah			A

* Designer

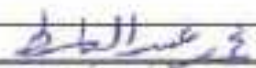
** Alignment/Drillers Consultant

 Electrical Express Train From Barg 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 submittal	☐ FIELD DENSITY TEST	☒ PLATE LOAD TEST	
Location :	Zone Dream way	From Station 388+000	To Station 388+500	Filter
References	Specification: EET LL.1 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: 
---------------	-----------	--

GARP Consultant Engineer's Comments :	Date of Inspection:- / /
The plate load Test result by third Party is approval	

The works are :	☐ Approved (A) ☐ Approved as noted (B) ☐ Rejected (C) ☐ Rejected (D)
Name: <u>Mazen Esmay</u>	Signature: 
General Consultant's Comments:	Date:- / /

(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 as noted (B) ☐ Rejected (C) ☐ Rejected (D)
Name: <u>Ali Abdellatif</u>	Signature: 
GARP Engineer's Comments:	Date:- 10/11/

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

شركة دريم واى
مكتب معامل الاستشارات الهندسية
سجل تجاري ٣٤٥٥١١ - قس ١٩٥ - ٢١٨

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

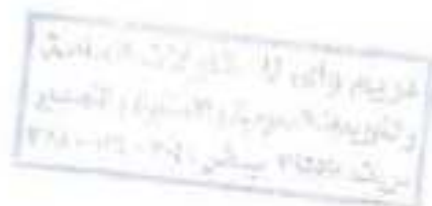
Test Procedure

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).

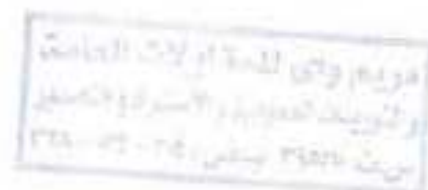
Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Sunny
- Plate Diameter (mm)	600
- date of measurement	07/11/2022
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

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 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	17.73	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	18.06	1.94	2.61
3	0.875	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)

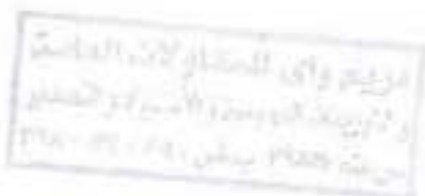
Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.87	2.13	17.23	2.77	18.36	1.64	2.18
1	0.83	17.50	2.50	17.10	2.90	18.24	1.76	2.39
2	1.25	17.40	2.60	16.94	3.06	18.02	1.98	2.55
3	1.67	17.21	2.79	16.77	3.23	17.92	2.08	2.70
4	2.08	17.08	2.92	16.59	3.41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

Signature

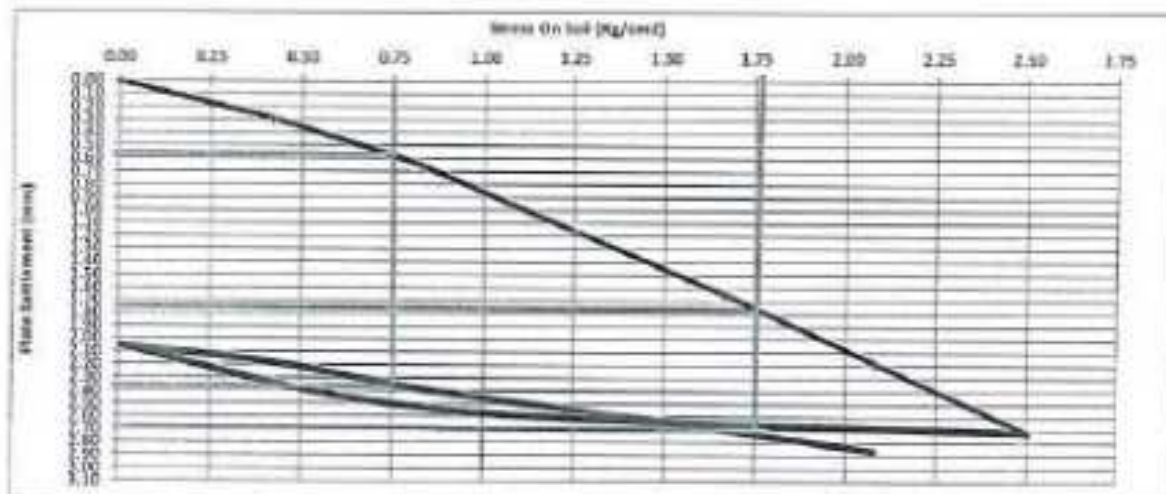
مكتب محامل الاستشارات الهندسية
الاستشارات الهندسية
310 - 301 - 337
القاهرة - مصر



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+000 to 388+100
Test No. : 01



Nonrepetitive Static Plate Load Tests of Soils DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1106.92	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) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	385		

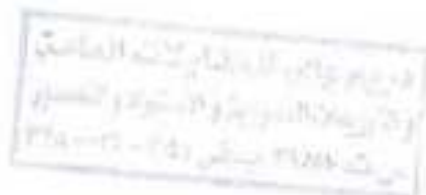
Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1106.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.06	2.18	2.39	2.55	2.70	2.86

D (mm) = 600	S1 (mm) = 2.38	S2(mm) = 2.73	ΔS = 0.35
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	1286		

Ev2/Ev1 = 3.3



Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Re-loading stage.
D = Plate diameter (mm)
 $\Delta \sigma$ = The difference between 0.3 and 0.7 from the maximum loading (max) (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+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

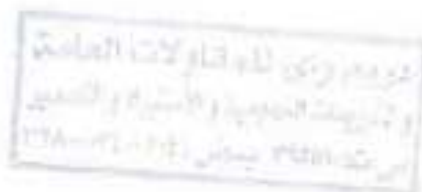
Loading Stage (2)

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

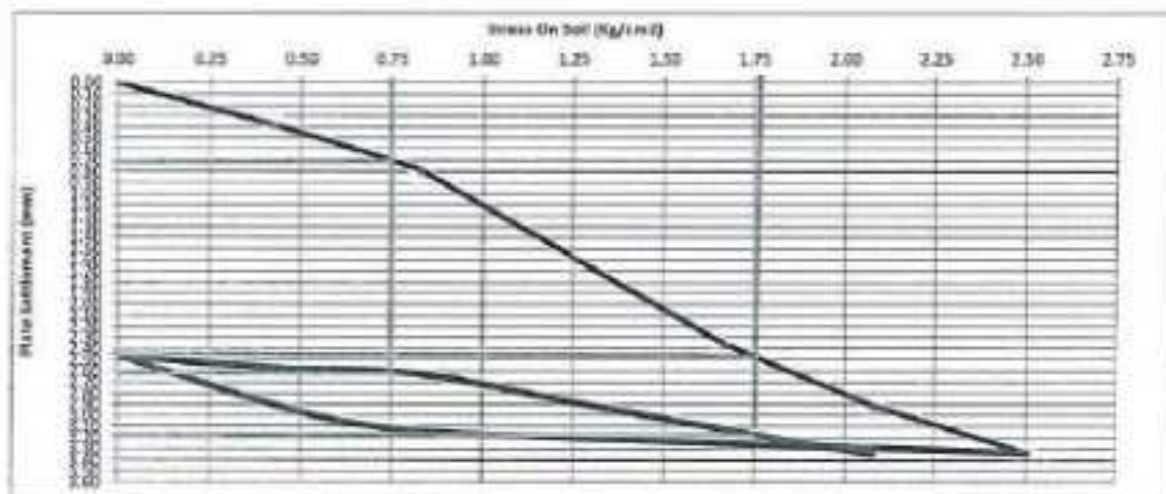
Signature



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Almain.
Test Date : 67/11/2022
report date : 69/11/2022
Location : Station 388+100 to 388+200
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	0.38	0.79	1.57	2.35	2.91	3.34

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)	3.34	3.20	3.06	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 (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)	2.47	2.57	2.63	2.88	3.13	3.35

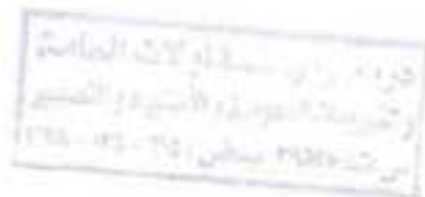
D (mm) = 600	S1 (mm) = 2.88	S2 (mm) = 3.39	ΔS = 0.66
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta S) / \Delta S$	750		

Ev2/Ev1 = 2.9

Signature 1



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!

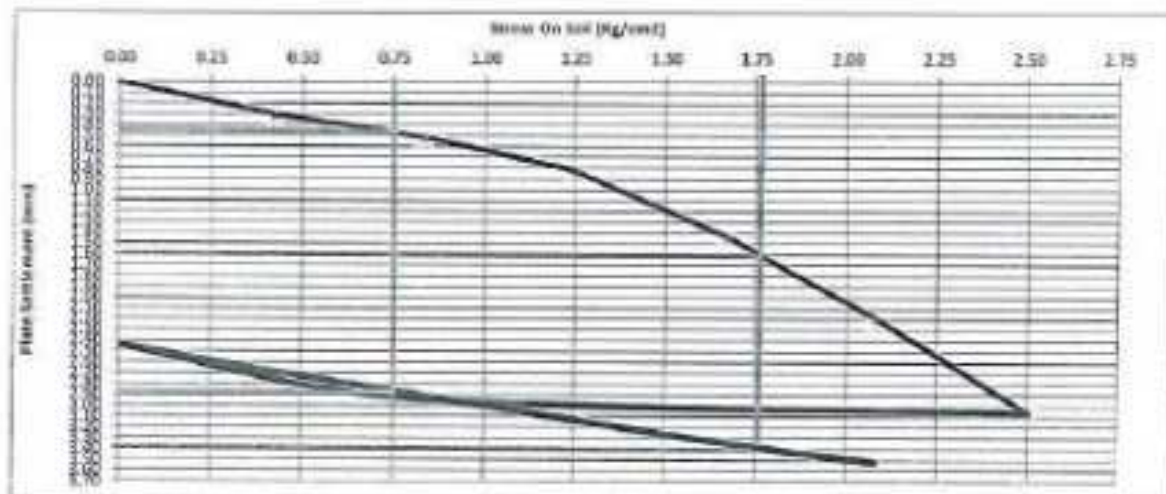
Signature



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

دوره ركني للتقنيات لاث المصنعة
والخدمات الهندسية والاستشارات
مركز 388+290 - 388+300
07/11/2022

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	0.625	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	2.65	2.90	3.13	3.35	3.52

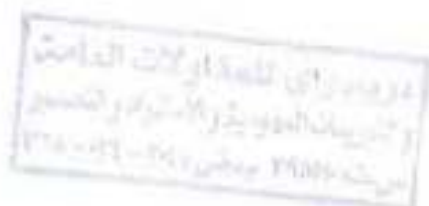
Ev2/Ev1 = 2.3

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 (mm) (kg/cm²)
ΔS = Difference in settlements corresponding to S2 and S1 from the maximum loading (mm)

Signature





Company Name : dream Way Co.
 Project : Electric Express Train, from Borg Al Arab to Alsmaln.
 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/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	19.77	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/cm ²	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	17.12	2.78	17.39	2.61	2.82
3	0.825	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/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.45	2.54	17.70	2.30	17.79	2.21	2.35
1	0.83	17.19	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

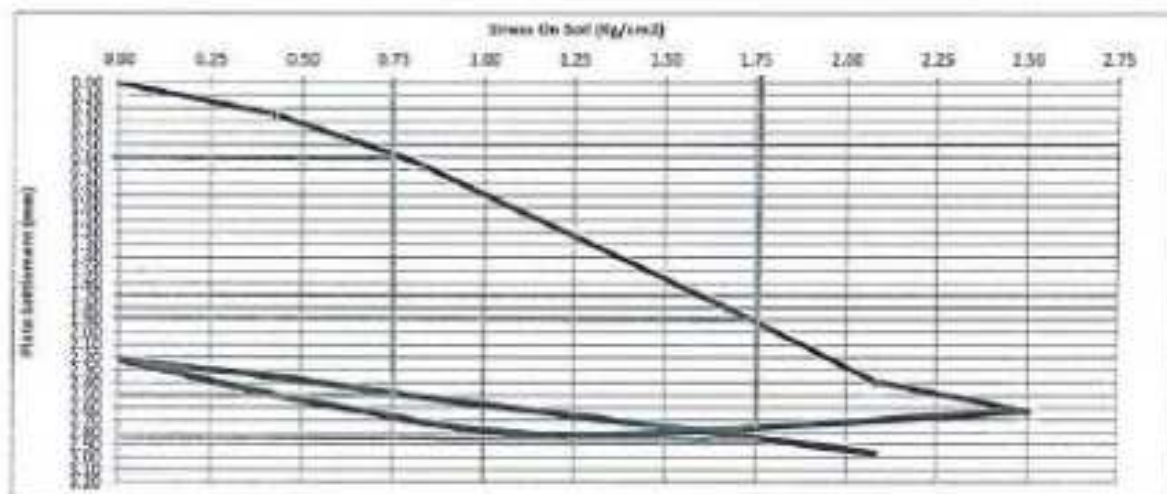
مكتب معمل الاستشارات الهندسية
 الاستشارات الهندسية
 رقم الترخيص: 29500-24-01-01
 القاهرة - مصر



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 الاختبارات الهندسية
والتحليلات المعملية في
مكتب محامل الاستشارات الهندسية
تحت إشراف المهندس / محمد / ٢٠٢٢

**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	0.25	0.65	1.23	1.80	2.39	2.93

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)	2.03	2.82	2.01	2.22

D (mm) = 600	S1 (mm) = 0.60	S2 (mm) = 1.39	ΔS = 1.39
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	346		

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)	2.22	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		

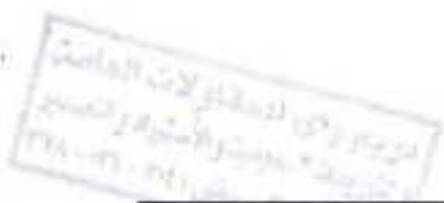
Ev2/Ev1 = 3.7

CEL
مكتب محامل الاستشارات الهندسية
التحليلات المعملية
Signature 1: 



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+400 to 388+500
Test No. : 05



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	20.09	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	19.09	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

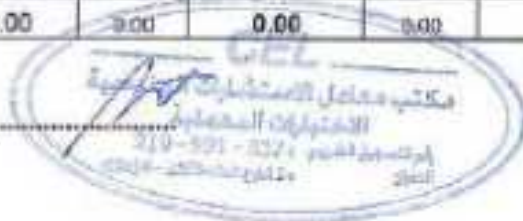
Unloading Stage (1)

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!

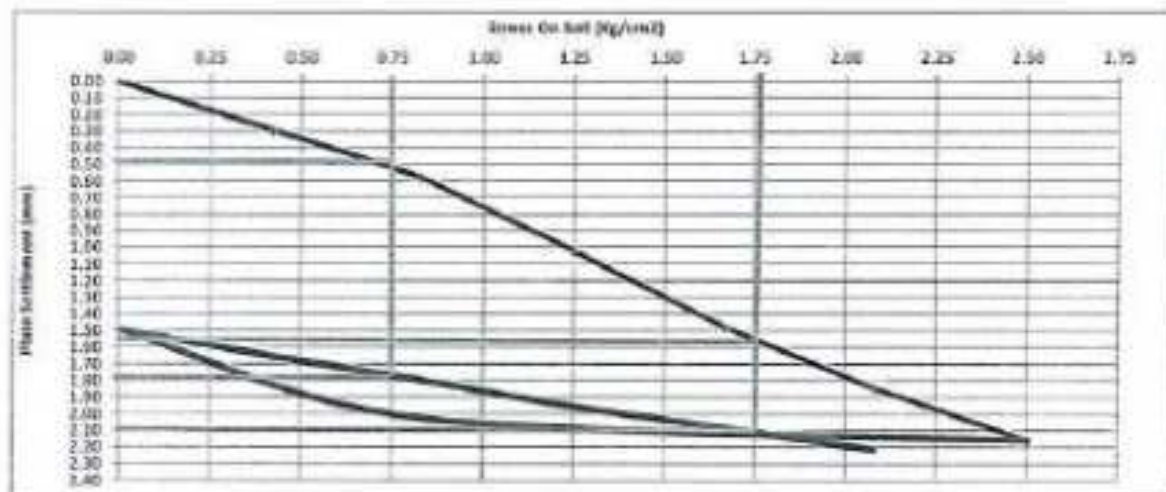
Signature \



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 (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	0.58	1.02	1.45	1.84	2.16

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)	2.16	2.09	1.95	1.50

D (mm) = 600	S1 (mm) = 0.50	S2(mm) = 1.55	ΔS = 1.05
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	429		

Ev2/Ev1 = 3.3

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) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	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

مشاريع
الطرق
والمواصلات



SPECTRUM ENGINEERING CONSULTING OFFICE



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 shown

Contractor Company	Dream Way COMPANY		Designer Company*	(SPECTRUM) Engineering Consulting Office
Issued by Contractor	Name Eng. Elsaed Mohamed	Sign	Date/Serial Number 11/10/2022 SS-B-DW-JR F(04)	Time 1:00
Received by GARB CONSULTANT	Eng. Mazen Esamly	UIR	C1 388	C2 BW
			C3 CS	C4 12
			MM 10	YY 2022
			HH 01	MM 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 St.	388+500	To St.	388+620	REV 29	Filter layer at level 7.00m
From St.	388+603.88	To St.	388+703.88	REV 38	
				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 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 (QT-03-01)	M5 Reference -Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-01.2) VERSION 2 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 (Filler level (7.00)) fill layer coordinates, Elevation, Width



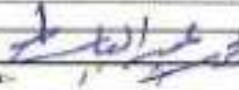
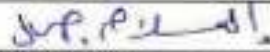
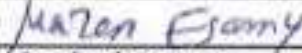
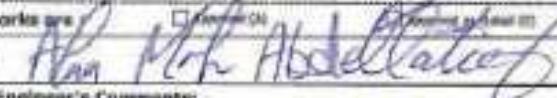
Comments by: Eng. Mustafa reyad (SPECTRUM)

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

1- تم استلام القطاع فنيًا بصريًا	1-coordinates & levels and width checked by GARB consultant
2- تم مراجعة شيت الملاحظات	

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 Esamly				A	
GARB**	Eng. Margret magly					
Employers Representative	Eng. Alaa Abd-Allatif				A	

Contractor	  		Serial No. IR-H(04)							
	 		Date 12/10/2022							
	مكتب أرقام حبل النيل Electrical Express Train from Burg Araba to Almarah From Station 388+00 To Station 388+60									
	Works Inspection Request We request your attendance to inspect the following works : Discipline : ☐ Overpass/Underpass ☐ Ductwork ☐ Drainage ☐ Sewer 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 القلتر</td> </tr> </table> Reference : Drawing : EET-BORG SL ARAB REV 29 Plan Profile Specification EETLL 1 Earthworks specifications and testing report. Purpose of the inspection ☐ Surveying ☐ Setting out ☐ Level ☐ Repetition Attachments 1- master sheet for cut for REV29 2- daylight coordinates 3- As-built 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: 			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 القلتر							
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) ☐ Revised Request (C) ☐ Rejected (D) Name:  Signature:  GARP Consultant Engineer's Comments : Date of Inspection: / /		Date of Inspection: / /							
	The works are : ☐ Approved (A) ☐ Approved as noted (B) ☐ Revised Request (C) ☐ Rejected (D) Name:  Signature:  General Consultant's Comments : 1 coordinates & levels & width of the master sheet checked by GAN consultant but 2 Sec/20m shown is approved by spectrum 2 final approval is subject to mentioned comment The works are : ☐ Approved (A) ☐ Approved as noted (B) ☐ Revised Request (C) ☐ Rejected (D) Name:  Signature:  GARP Engineer's Comments : Date: 12/10		Date: 12/10							
	Name: Signature:		Signature:							
	Name: Signature:		Signature:							

Dream Way Width Accounting to div. 28 (17-10-2020)									
Station	Left Offset	X Left	Y Left	Cl	BR Offset	X Right	Y Right	total width	
388+500.00	-15.215	427,579.51	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	

Handwritten signature

Handwritten signature



[illegible]

محمد نوری



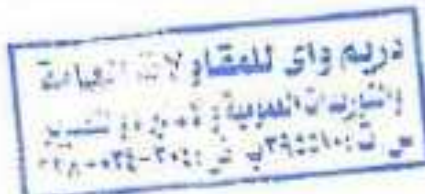
مشروع القطار السريع غرب النيل

دریغ و آتش مستطیباتی است احسانیه
و شایسته آن (مستطیبات) که در این مستطیبات



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

منقول



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 inspection time.

Contractor Company	Dream Way COMPANY			Designer Company*	(SPECTRUM) Engineering Consulting Office			
Issued by Contractor	Name Eng. Elsayed 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	01	02	03	04	05	06
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 SL	388+720	To SL	388+820	REV 28	Fill Filter	Filter layer at level 6.70m
From SL	388+903.86	To SL	388+903.86	REV 35		

INSPECTION DETAILS The Following will be made 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)	MSR SS-B-DW (QT-02-01)	Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY ONECON GROUP.	
POINT OF SHEET		TECHNICAL REPORT (CG21-122.1) VERSION 1 BY ONECON 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 reyed (SPECTRUM)

Comments by: Eng. Nao Abd-Allah (G8)

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

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status A-AWC-R	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-F(02)
	مكتب إدارة أعمال Electrical Express Trains From Borg El Arab to Alameda 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 Drainway	From Station 388+720	To Station 389+820
References	Drawing: EET-BORG EL ARAB REV 28 Plan Profile Specification: ECT1.1 Earthworks specifications and testing report.		
Purpose of the inspection ☐ Surveying ☐ Setting out ☐ Levels ☐ Quantity درية واتر للمقاولات العامة والشركات الهندسية والاستشارات ع.ق. ٢٠١٠-٢٠٢٠ ب. في ٢٠٢-٢٠٢٨			
Attachments 1- master sheet for cut for REV28 2-daylight coordinates 3- Asbuilt levels 4- PLNE			
Works To be Inspected  مشروع القطار السريع غرب النيل		AS BUILT FILTER LAYER FROM STATION 388+720 TO 389+820	
Submitted by: Orasaby		Signature: 	
Surveying Consultant Engineer's Comments :		Date of Inspection: 1 / 1	
The works are : ☒ Approved (A) ☐ Approved with (B) ☐ Rejected (C) ☐			
Name: Mohamed Mursun		Signature: 	
SARP Consultant Engineer's Comments :		Date of Inspection: 1 / 1	
			
Consultants			
The works are : ☒ Approved (A) ☐ Approved with (B) ☐ Rejected (C) ☐			
Name: Hazen Esamy		Signature: 	
General Consultant's Comments:		Date: 1 / 1	
1 Coordinates & levels & width and Master sheet checked by GARA Consultant but a Sec/2cm should approved by spect- 2 Final approval is Subject to above mentioned comment			
The works are :		Date: 10/10	
Name: Ali Abdellatif		Signature: 	
GARB Engineer's Comments:		Date: 10/10	
Name:		Signature:	
GARF Eng.			



در جلسه واکاوی نقشه و اطلاعات
مجلس شورای اسلامی
شماره ۱۰۰/۱۳۸۷



شماره ۱۰۰/۱۳۸۷
مجلس شورای اسلامی
شماره ۱۰۰/۱۳۸۷

Station	High Offset	X Left	Y Left	N	E	High Offset	X Right	Y Right	TOTAL WIDTH
388+720.00	-14.265	427,374.82	900,082.40	900,095.52	427,379.00	10.428	427,383.65	900,105.24	28.493
388+740.00	-14.704	427,356.30	900,080.66	900,102.76	427,361.23	10.724	427,365.12	900,112.74	28.428
388+760.00	-14.081	427,337.51	900,096.42	900,109.56	427,342.60	10.147	427,346.26	900,119.42	28.228
388+780.00	-13.839	427,318.95	900,104.27	900,117.17	427,323.04	10.289	427,327.66	900,126.77	28.128
388+800.00	-13.669	427,300.36	900,111.65	900,124.39	427,305.29	10.278	427,309.09	900,133.98	28.947
388+820.00	-13.885	427,281.63	900,118.66	900,131.61	427,286.64	10.304	427,290.38	900,141.22	28.189

[Handwritten signature]

[Handwritten signature]



درسم وفاق للمقاولات العامة
وتخطيط - هندسة المساحة والبناء
من ٢٠٠٠ إلى ٢٠٢٠ م - ١٤٢١ - ١٤٢٢ هـ

مختبر المساحة والبناء
٢٠٢٠ م - ١٤٢١ هـ

UNIVERSAL INSPECTION REQUEST



دولة مصر العربية

جمهورية مصر العربية

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

شارع

المنيل

مصر

القاهرة

مصر



مصر



مصر



مصر

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

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

Contractor Company	Dream Way COMPANY		Designer Company*	(SPECTRUM) Engineering Consulting Office			
Issued by Contractor	Name	Sign	Date/Serial Number	Time			
	Eng. Elsaed Mohamed		26/10/2022 SS-B-DW-IR G(01)	1:00			
Received by GARB CONSULTANT	Eng. Mazen Esamy		UIR	01	02	03	00
				MM	YY	HH	MM
				30	01	01	01

CODE-1	S1 to S21 Station Reference	D1 to D3 Depot Reference	Kg 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.	358+700	To St.	369+000	REV 29	OVERLAP 30CM , AREA=8621.022M2
From St.	368+003.88	To St.	369+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	References	MS Reference	
PLAN AND PROFILE (REV.35) (REV.29)	MSR :SS-B-DW FLT(01)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41) VERSION 0 BY CIVECON GROUP.	
POINT OF SHEET		-TECHNICAL REPORT (CG21-122.1) 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=8621.022M2

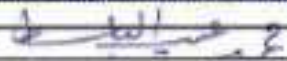
Comments by: Eng. Mostafa ryad (SPECTRUM)

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

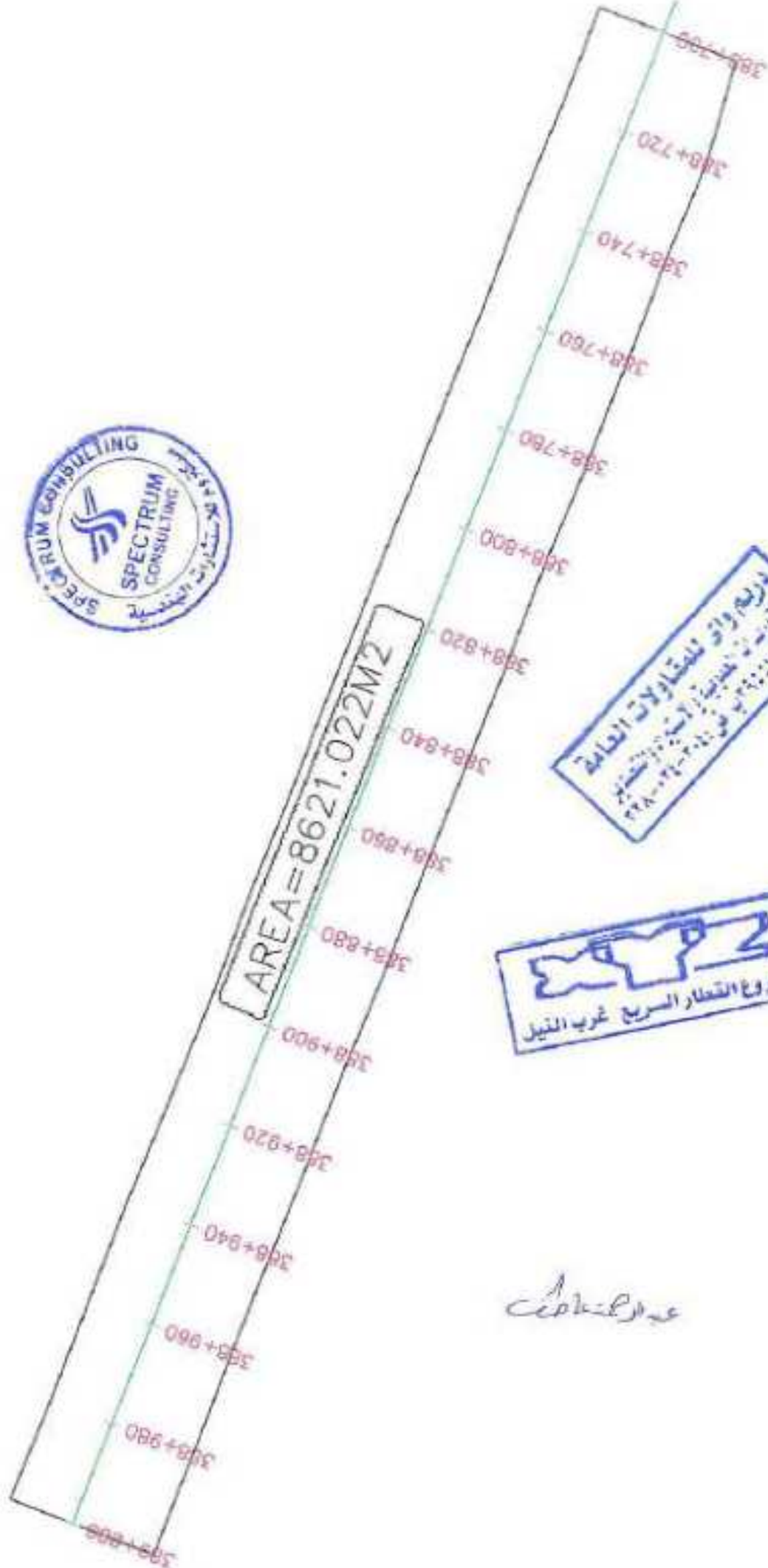
- 1- width and overlap checked by GARB consultant
- 2-Quality test checked in Third party laboratory (National Research Center)

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 magdy					
Employers Representative	Eng. Alaa Abd-Allatif				A	

Contractor	  	Serial No. IN-G(01)
	 مكتب (إدارة) حديد Electrical Express Train From Borg Al Arab to Al Hamra From Station 388+00 To Station 389+00	Date 27/10/2022
	Works Inspection Request	
	We request your attendance to inspect the following works :	
Discipline : ☐ Drainage ☐ Structure ☐ Bridge ☐ Road		
Location :	Zone Drainage	From Station 388+700
		To Station 389+000
References :	Drawing: EET-BORG EL ARAB REV 24 Final Profile Specification: EETLS 1 Earthworks specifications and testing report.	
Purpose of the inspection : ☐ Surveying ☐ Setting out ☐ Level ☐ Safety		
Attachments :		
1- Testing reports		
2- PLNE		
Works To be Inspected :	Geotextile layer from 388+700 to 389+000 with area 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) ☐ Failed/Resect (F) ☐ 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) ☐ Failed/Resect (F) ☐ Rejected (R)		
Name: <u>Mazen Emay</u>		Signature: 
General Consultant's Comments :		Date: - / /
1. X/Sx / 2m 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 Aig 9		
The works are : ☐ Approved (A) ☐ Approved as noted (D) ☐ Failed/Resect (F) ☐ Rejected (R)		
Name: <u>Alan Abdelkader</u>		Signature: 
GARP Engineer's Comments :		Date: <u>27/10/</u>
Name:		Signature:
GARP Eng.		

Consultants



عبدالله بن محمد

معهد بحوث وتكنولوجيا النسيج

مصل 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
الاستشاري: سبيكتروم للاستشارات الهندسية
ت. ٢٢٨-٠٣٢-٢٠٤

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		Confidence
					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 العينات المقدمة وتمثلها لأي كميات أخرى هي مسئولية 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 الصفاها شهر من تاريخ الاختبار.
* التقرير صالح لمدة عام من تاريخ الاستلام.

بمقام

الوظيفة	المشرف على الاختبارات	رئيس القسم	وحدة التحليل والاستشارات
اسم	أ.د. محمود حمودة الشاذلي	أ.د. مروة عاطف علي	رئيس مجال النسيج
التوقيع			أ.د. أميرة محمد الشاذلي
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 عالية، نشكر بأن نرفق لسوابتكم التقرير الذي أعد بواسطة :-

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

مع خالص احترامي وتقديري،،

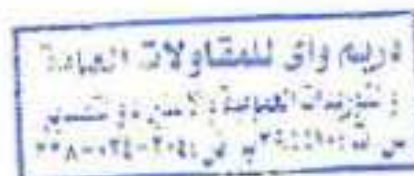
المدير التنفيذي للمركز الهندسى

كلية الهندسة - جامعة الاسكندرية

إ.د/ زياد محمد طارق الصياد



تبريداً فى : ٢١ أكتوبر ٢٠٢٢
عزرا





جامعة الاسكندرية

المركز الهندسي بكلية الهندسة

Customer: شركة دريم واى

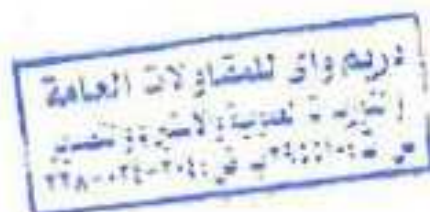
Sample type: Non-Woven Fabric

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 p			
Received by GARB CONSULTANT	Eng. Mazen Esamy	UIR		S1	S2	S3	S4
				300	8W	CS	01
				MM	YY	HH	MM
				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 SL	385+520	To SL	385+700	REV 39	OVERLAB 30CM , AREA=5009.437 M2
From SL	385+703.00	To SL	385+803.00	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-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



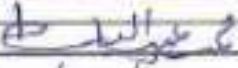
Comments by: Eng. Mostafa reyad (SPECTRUM)

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)

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elhaseed 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	  		Serial No. TH-G(93)
	 		Date 1/11/2022
	مكتبة ابراهيم خليل Electrical Express Train from Borg Al Arab to Alameda from Station 386+00 To Station 388+00		
	Work Inspection Request We request your attendance to inspect the following works : Discipline : ☐ Civil Protection ☐ Structure ☐ Drainage ☒ Survey		
Location :	Zone Drainage	From Station 386+520	To Station 388+700
Reference	Drawing: SET-BORD EL ARAB REV 29 Plan Profile Specifications: S.T.I. Earthworks specifications and testing report.		
Purpose of the inspection	Surveying ☐ Setting out ☒ work ☐ Rectification		
Attachments	 		
1- Testing reports			
2- PLNE			
Works To be Inspected	Geotextile layer from 386+520 to 388+700 with overlap 30cm, A.E. = 50091437 m2		
Submitted by:	Drawn by	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: Hazen Emry		Signature: 	
General Consultant's Comments:		Date: / /	
1- The form of Rev. 29 should approved from SPS TRA to Calculate the Area 2- Quality tests checked in Third party lab and Results attached and signed 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: Alaa Abdelkader		Signature: 	
GARP Engineer's Comments:		Date: 01/11/	
Name:		Signature:	
GARP Eng.			



AREA=5009.437M2



م.ب. الرعية طاب

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 سيكترم 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 قماش غير منسوج 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 تخص العينات المقدمة وتمثلها لأي غرض آخر هي مسؤولية 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	المشرف 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 جيوتكسنايل.

بالإشارة إلى الموضوع عالية. نتشرف بأن نرفق لسيادتكم التقرير الذي أعد بواسطة :-

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

مع خالص احترامي وتقديري،،

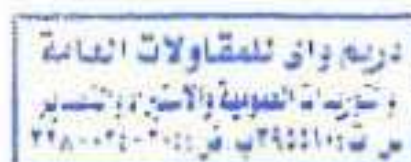
المدير التنفيذي للمركز الهندسي

كلية الهندسة - جامعة الاسكندرية

ا.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



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 C(05)		Time 1:00			
Received by GARB CONSULTANT	Eng. Mazen Essam	UIR	D1 100	D2 EW	D3 CS	D4 21	MM 11	YY 2022
			DD 01	MM 01	YY 00			

CODE - 1	S1 to S21 Station Reference	D1 to D3 Depot Reference	Kp XXX Note For Mile 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+520	To SL	388+520	REV 29	OVERLAB 30CM , AREA= 2889.324 M2
From SL	388+703.88	To SL	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-IR C(01)	MS Reference - Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (SG21-11) VERSION 2 BY CIVECON GROUP. - TECHNICAL REPORT (CG21-123.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed KHALIL (XYZ)

- 1- Attached Master Sheet approved by SPECTRUM.
- 2- As Built (Geotextiles) 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

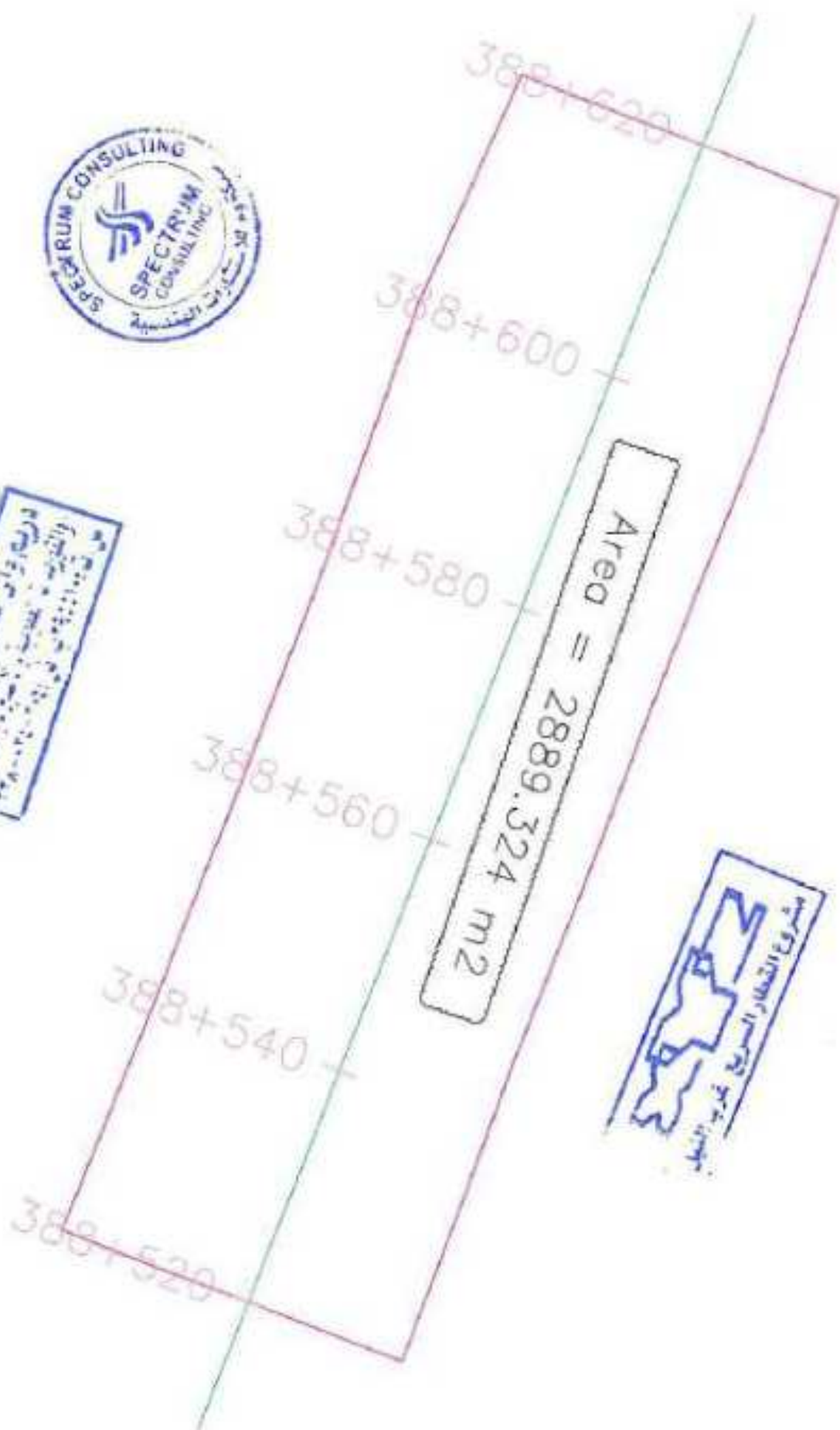
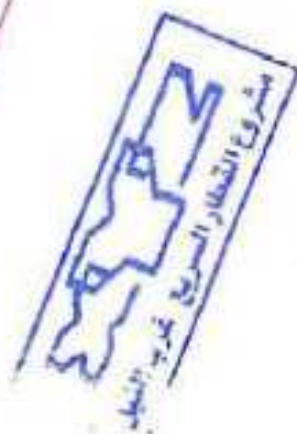
Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsayed Mohamed				A-AWC-B	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Essam				A	
GARB**	Eng. Margret magly					
Employers Representative	Eng. Alaa Abd-Allah				A	

Contractor	 Electrical Express Train From Borg Alorab to Alameia From Station 388+000 To Station 389+000				Serial No. IR G-(05)
	 مكتب (د) هندسة تخطيط				Date 21 / 11 / 2022
Works Inspection Request					
We request your attendance to inspect the following works :					
Discipline : ☐ Civil/Geotechnical ☐ Structures ☐ Drainage ☐ Survey					
Location :		Zone	From Station	To Station	Level
		DRAIN WAY	388+520	388+620	
References		Drawing: EET-BORG EL ARAB REV 25 Plan Profile Specification: EET L.L Earthworks Specifications and Testing Report			
Purpose of the inspection					
☐ Sampling ☐ Testing ☐ Level ☐ Width					
Attachments					
1-TESTING REPORT			2-PLAN		
Works To be inspected					
GEOTEXTILE LAYER FROM 388+520 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=3225.12 SQM					
Submitted by:		DREAM WAY		Name: _____ Signature: _____	
Receiving Consultant Engineer's Comments:				Date of inspection: / /	
The works are : ☒ Approved (1) ☐ Approved as noted (2) ☐ Rejected (3) ☐ Rejected (4)					
Name: _____				Signature: _____	
GARP Consultant Engineer's Comments:				Date of inspection: / /	
The geotextile layer is accepted.					
The works are : ☒ Approved (1) ☐ Approved as noted (2) ☐ Rejected (3) ☐ Rejected (4)					
Name: <u>Mazen Gamy</u>				Signature: _____	
General Consultant's Comments:				Date: _____	
1- See / per / Rev (29) should approval from SYST AR 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 (1) ☐ Approved as noted (2) ☐ Rejected (3) ☐ Rejected (4)				Signature: _____	
Name: <u>Abdo Abdelhadi</u>				Signature: _____	
GARP Engineer's Comments:				Date: 21 / 11 /	
Name: _____				Signature: _____	
General Consultant Eng.				GARP Eng.	

Consultants



مراجعة: ٢٠٢٠-٠١-٢٠
مهندس: محمد عبد الله
مهندس: أحمد محمد
مهندس: خالد محمد
مهندس: أحمد محمد
مهندس: خالد محمد
مهندس: أحمد محمد
مهندس: خالد محمد



Test Report No.: 152-2022

اختبارات خاضت النسيج



بيانات العميل

شركة دريم واي

اسم المشروع: مشروع القطر 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 المشابح CBR puncture resistance على حبة قماش شابر منسوج grey اللون

نتيجة الاختبار

Test	Test Method	Sample repeat	Result	Unit	Uncertainty		Conformity	
					Result	Unit	Compliance	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 تنص على ان العينة المقاسة وتساويها لأن كذا ان كان في مسجلة جهة تقديم العينة .
* لا يجوز استخدام هذا التقرير في الدخلة أو الاطلاق عن المنتج الا بعد الرجوع إلى المركز والاتفاق على ذلك .
* يتم الاحتفاظ بالعينة بعد اختبارها بالمعامل لمدة اقتصادية شهر من تاريخ الاختبار .
* هذا التقرير صالح لمدة ١٨ شهرا من تاريخ الاستلام

بمختص

الوظيفة	المشرف على الاختبارات	رئيس القسم	وحدة التحليل والاستشارات رئيس مجال النسيج
اسم	أ.د. محمود حمودة الشلقيري	أ.د. مروة عاطف علي	أ.د. أميرة محمد الشامي
التوقيع			
التاريخ			



السادة / شركة حريم واى

تحية طيبة وبعد...

الموضوع :- بشأن الطلب المقدم من سيادتكم بتاريخ ٢٠٢٢/١٠/١١ لإجراء اختبار هيئة جيو تكنولوجي

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

أ.د/ اشرف حسين الطحراوى بقسم خدمة الغزل والتسييج وذلك من خلال المركز الهندسى.

مع خالص احترامي وتقديرى،

المدير التنفيذي للمركز الهندسى
كلية الهندسة - جامعة الإسكندرية

أ.د/ زياد محمد طارق الصياد



تحريراً في ٢٠٢٢/١٠/١١
ب.ع.ع





جامعة الإسكندرية

المركز الهندسي بالجامعة

Customer: شركة نوري وادي

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 D3736	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



معهد بحوث وتكنولوجيا النسيج

مصل اختبارات خامات النسيج

Test Report No.: 152-2022

بيانات العميل

شركة دريم واي

اسم المشروع: مشروع المطار السريع بج العرب - العالمين
الاستشاري: مكتب سبيكتوم للاستشارات الهندسية (مقدم العينة)

دريم واي للمقاولات العامة
الشركات القومية: الاستشارات الهندسية
م. ت. ٢٠١٠-٢٠١١-٢٠١٢
٢٢٨-٠٢٩-٢٠١١

بيانات العينة

الظروف البيئية للاختبار: جو الغرفة	تاريخ الاستلام: ٢٠٢٢/١٠/٣٠
وصف العينة: إجراء بعض اختبارات CBR puncture resistance على عينة قماش غير مشوي grey اللون	تاريخ التقرير: ٢٠٢٢/١١/٠١

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 تفسر 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 بالعينات بعد اختبارها بالمعامل لمدة أقصاها شهر من تاريخ الاختبار.
• التقرير صالح لمدة عام من تاريخ الاستلام.

يتمتع بـ

الوظيفة	المشرف على الاختبارات	رئيس القسم	وحدة التحليل 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. نتشرف 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،،

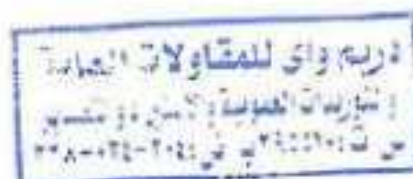
المدير التنفيذي للمركز الهندسى

كلية الهندسة - جامعة الاسكندرية

ا.د/ زياد محمد طارق الصياد



تحريراً في :- ٢١ أكتوبر ٢٠٢٢
حزق





جامعة الإسكندرية

المركز الهندسي بكلية الهندسة

Customer: شركة دريم واى

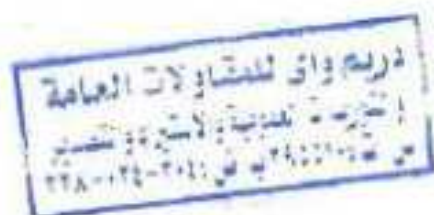
Sample type: Non-Woven Fabric

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



MATERIAL APPROVAL REQUEST		    			
Contractor Company	Dream way		Designer Company	(SPECTRUM) Engineering Consulting Office	
Issued by Contractor	Name	Eng. Saeed Mohamed	Date/Serial Number	16/10/2022	
	Sign		(55-B-DW) (Q.T-12-02)	Time: 1:00	
Received by GARIB CONSULTANT	Eng. Mazen Esamy		MAR	128	EW
				CS	17
				10	2022
				1	0
CODE 1	S1 to S21		D1 to D8		Kp XXX Note
	Station Reference		Diagram Reference		For Kilometer point only Start K= is used
CODE 2	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 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: Consent only



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



Serial No.
QT
(1-2)



إدارة مشروع القطار الكهربائي



Date
17/ 10 /2022

Material Inspection Request

We request your attendance to inspect the following works :

Discipline :

☐ Bridge Structure

☐ Station

☐ Outage

☐ Sign

Location :

Zone

VOLUME

DREAM WAY

8000 M3

References

Drawing: EET-SORG EL ARAB REV29 Plan Profile

Specification: EET L.L.L Earthworks Specifications and Testing Report

Purpose of the inspection

1. Earthworks

- ☐ Natural Sub Grade
☐ Upper Embankment
☒ L / R Embankment

- ☐ Soil Filled
☐ Slope
☐ 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)

☐ Noted (C)

☐ Rejected (D)

Name:

Mazen Esam

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)

☐ Noted (C)

☐ Rejected (D)

Name:

Alan Abdelkhalik

Signature:

[Signature]

Date:

21/10/22

GAAP Engineer's Comments:

Name:

General Consultant Eng.

Signature:

GAAP Eng.



الهيئة القومية للإنتاج

191



Electrical Express Train From Borg Al arab to Alamein

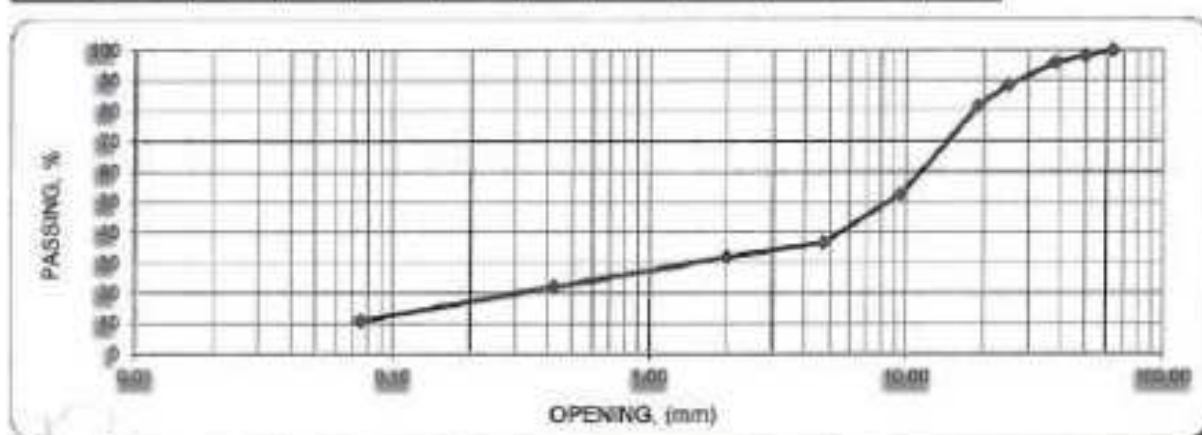
Company:	Dream Way	Sample No:	1
description:		Sample Date :	17/10/2022
Station Represented :	توريدات المحجر	Report Date:	17/10/2022

SOIL CLASSIFICATION / ATTERBERGS LIMITS

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

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

Sieve No.	2.5 in.	2.0 in.	1.5 in.	1.0 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	P.L.	0	P.I.	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. height, Producing a compactive effort of 58000 ft-lb/ft³

Sampling Date : 16-10-2022

Testing Date :

16/10/2022

Source of Soil

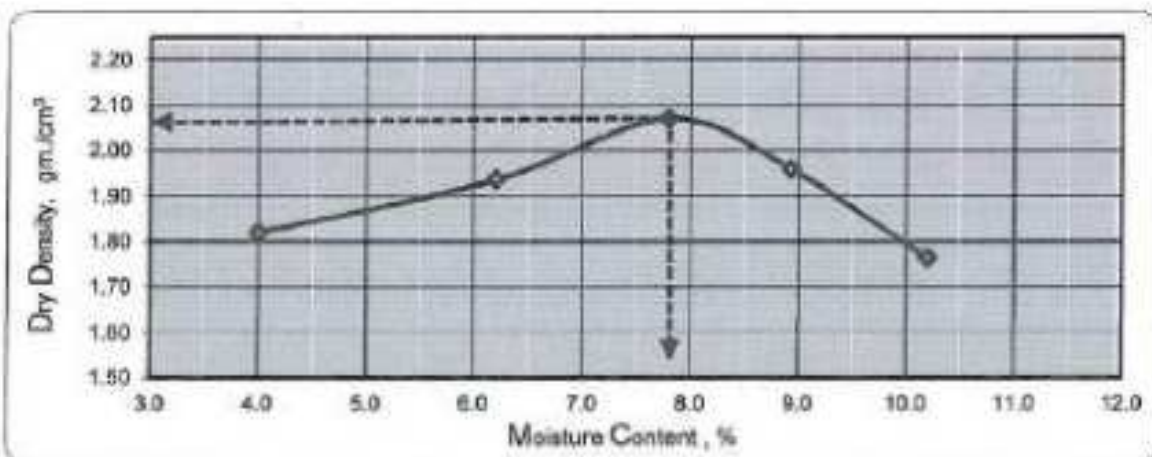
توريدات الحجر

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	10,599
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

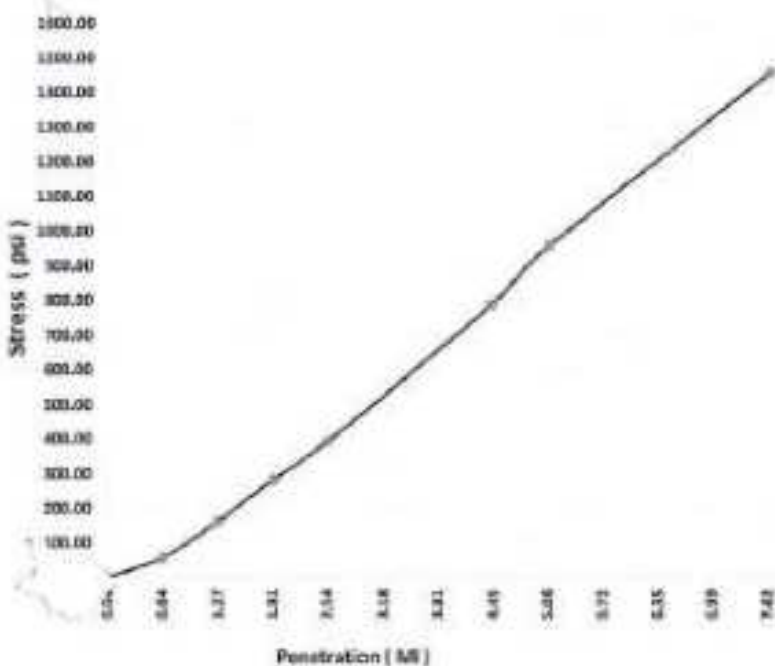
Ref : ASTM D 1557 & D 1557 — AASHTO T-193 (Method D) & AASHTO T-193

SAMPLING DATE : 17/8/2022 TEST DATE : 20/10/2022 STATION : دريم 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
0.540	0.025	25	57.46
1.270	0.050	50	162.77
1.910	0.075	75	283.20
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	



C Lab contractor Eng :-

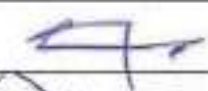
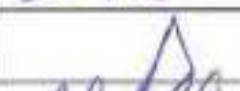
ame :-

Signature :-

SGAC Q.C Consultant Eng :-

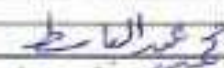
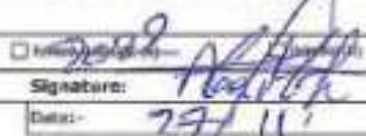
Name :-

Signature :-

MATERIAL APPROVAL REQUEST		DREAM WAY		الهيئة العامة للطرق والكباري (GARH)		الهيئة العامة للطرق والكباري (GARH)		الهيئة العامة للطرق والكباري (GARH)		الهيئة العامة للطرق والكباري (GARH)	
Contractor Company	Dream way	مجلس إدارة الهيئة العامة للطرق والكباري مجلس إدارة الهيئة العامة للطرق والكباري مجلس إدارة الهيئة العامة للطرق والكباري		Designer Company	(SPECTRUM) Engineering Consulting Office						
Issued by Contractor	Name	Eng. Saeed Mohamed	Sign	Date/Serial Number		Time					
				16/11/2022		1:00					
Received by GARH CONSULTANT	Eng. Mazen Esamy		MAR	11 to 521 01 to 51		11 to 521 01 to 51					
				11 to 521 01 to 51		11 to 521 01 to 51					
Station Reference		Depot Reference		11 to 521 01 to 51							
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) 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							

* Design

** Alignment/Bridges: Culvert only

Contractor		Electrical Express Train From Borg Al Arab to Alameda From Station 388-000 To Station 389-000		Serial No. QT (7-2)
		مكتب /اد عمك لعم		Date 17/11/2022
	Material Inspection Request			
	We request your attendance to inspect the following works :			
Discipline : ☐ Civil/Structural ☐ Services ☐ Drainage ☐ Survey				
Location :		Zone DREAM WAY	Volume 20000 m3	
Reference		Drawing : EET-BORG EL ARAB REV20 Plan Profile	Specification: EET L.S.S Earthworks Specifications and Testing Report	
Purpose of the Inspection				
1. Earthworks				
☐ Natural Subgrade ☐ Sub Grade ☐ Upper Embankment ☐ Retort ☒ L / W Embankment ☐ Excavation				
Attachments				
1- quality test report soil material				
				
Materials to be Inspected:		Quality Test For Soil by comibassal		
Submitted by:		DREAM WAY		
Signatures:				
GARP Consultant Engineer's Comments :				
the quality Test Results by Third Party lab Comibassal is ok. This sample Represents 5000 m ³ only				
The works are : ☐ Approved (X) ☐ Approved as Noted (B) ☐ Rejected/Revised (R) ☐ Rejected (R)				
Name: <u>Mazen Emam</u>		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 Proj Sp. 4- final approval is subjected to above mentioned comment.				
The works are : ☐ Approved (X) ☐ Approved as Noted (B) ☐ Rejected/Revised (R) ☐ Rejected (R)		Signature: 		
Name: <u>Alan Abdelkhalik</u>		Date: <u>27/11</u>		
GARP Engineer's Comments:				
Name:		Signature:		
General Consultant Eng.		GARP Eng.		



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

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

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 (Fines)		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 لاصحاب 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

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

Report : 1728/2/Center
Date : 27/11/2022

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

General Consultant :

Consultant :

Contractor :

Project :

Sample :

Date of Test :

SYSTRA

SPECTRUM

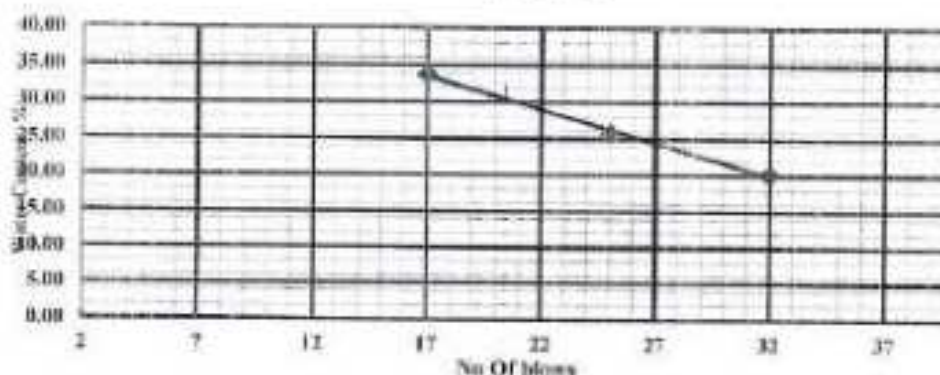
شركة ايم وان

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%		

PI = (A-B) =	1.8%		
--------------	------	--	--



Civil. Eng. Department.

Eman
Eng. Eman. E. Kandil

الادارة: ١٥٧ شارع صفية زغلول - الاسكندرية - مصر

ت. ٤٨٦٠٥٧٦ - فاكس: ٤٨٦٩٩٩٨ - ٤٨٧٠٦٦٥

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

Tel:4870573 - Fax * Tel : 4869798 - 4870665



القطاع: خلف ٢٩ طريق الحرية - الاسكندرية - مصر

ت. ٣٩٠٤٣١٦ - ٣٩٣١٤٨٢ - ٣٩٠٤٣١٦

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 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

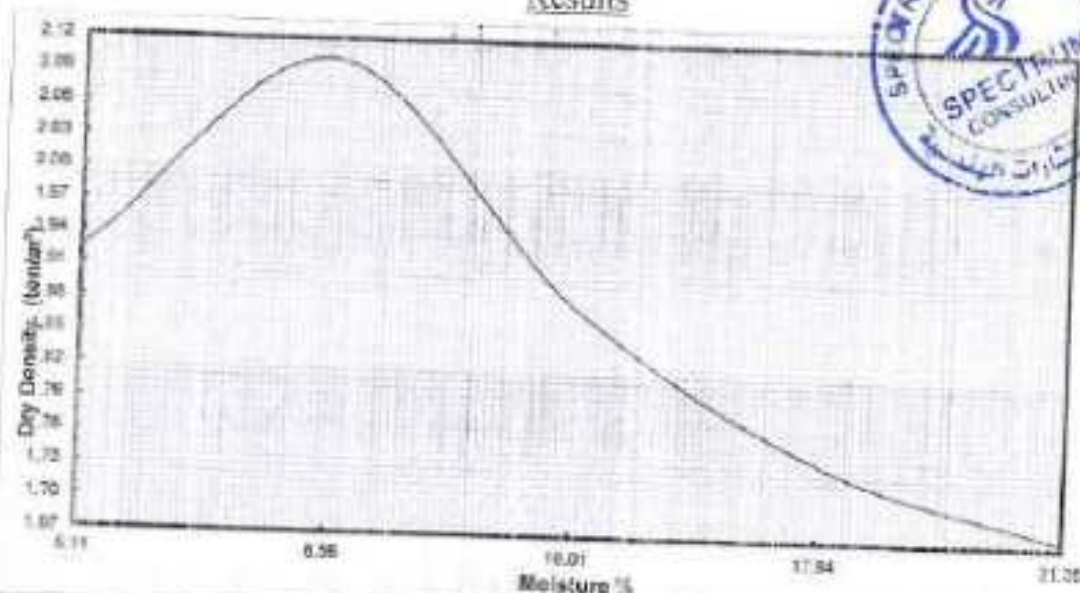
شركة نريم واى

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. ٤٨٧٠٦٦٥ - ٤٨٦٩٣٩٨ - ٤٨٧٠٦٦٥

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

Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع: ٤٩، طريق الحرية - الإسكندرية - مصر

ت. ٣٩٠٠٤٣١ - ٣٩٢٦٤٨٢ - ٣٩٢٠١٣٦

49 EL Horria Ave - Alex, Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail : internal - inspection@comibassal.com



COMIBASSAL International Controllers

الجمعية المتكاملة للتحكم في الأعمال والوزن والمراجعة والتفتيش 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 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

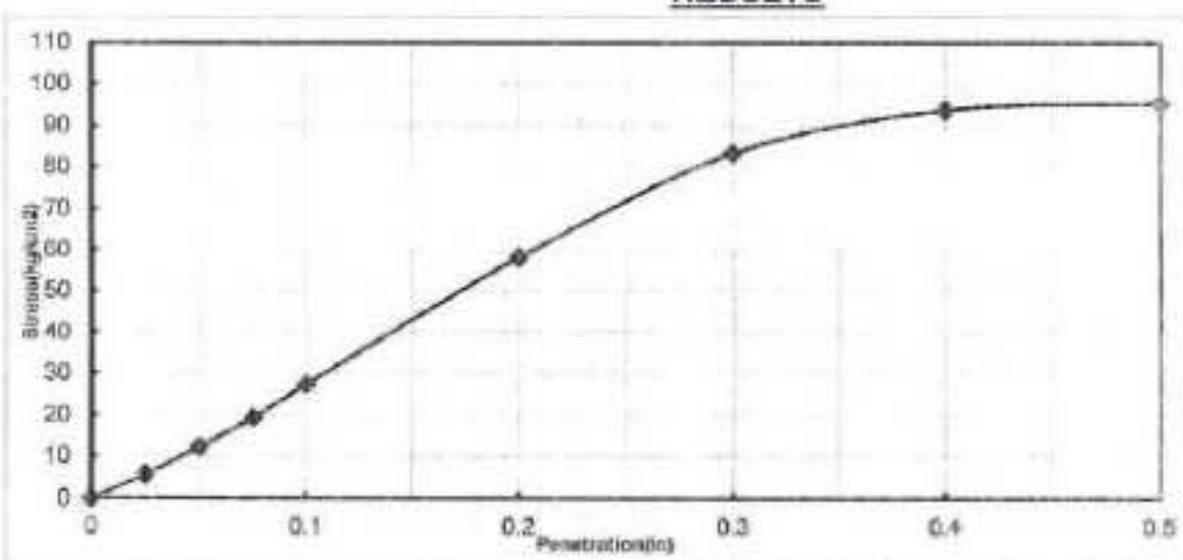
شركة سيم واي

Electric express train

Filling Soil

21/11/2022

RESULTS



Penetration (inches)	0	0.025	0.05	0.075	0.1	0.2	0.3	0.4
stress (1 st phase) (kg/cm²)	0	6.032	14.82	21.84	26.52	53	78.28	95.28
stress (2nd phase) (kg/cm²)	0	8.3	9.63	18.54	28.08	64.22	88.4	96.2
Average stress (kg/cm²)	0	6.616	12.22	19.3882	27.3	58.11	83.33	93.73

C.B.R = 55.0 %



Civil Eng. Department.

Eman
Eng : Eman E. Kandil

الإدارة: ٤٠ شارع سفينة زغلول - الإسكندرية - مصر

ت: ٤٨٧٠٣٧٢ - فاكس: ٤٨٧٧٩٩٨ - ٤٨٧٠٦٦٥

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

Tel:4870573 - Fax + Tel : 4869798 - 4870685



التمتع بـ ٤٩ طريق الحرية - الإسكندرية - مصر

ت: ٣٩٢٠١٧٦ - ٣٩٢١٤٨٢ - فاكس: ٣٩٠٠٤٧٦

49 EL Horria Ave. - Alex, Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail : internal - inspection@comibassal.com

																			
MATERIAL REQUEST																			
Contractor Company		Dream way		Design Company		(SPECTRUM) Engineering Consulting Office		Time		1:00		Issued by		Eng. Saeed Mohamed		Received by GABE		CONSULTANT	
Name		Eng. Saeed Mohamed		Signature		18/11/2022		Date/Serial Number		(55-B-DW) (0.1-16-01)		Time		1:00		Issued by		Eng. Hazen Essam	
SI to SZ1		SI to SZ2		SI to SZ3		SI to SZ4		SI to SZ5		SI to SZ6		SI to SZ7		SI to SZ8		SI to SZ9		SI to SZ10	
Sub Element of Activity		Activity		Sub Element of Activity		Activity		Sub Element of Activity		Activity		Sub Element of Activity		Activity		Sub Element of Activity		Activity	
Location to be Used		Embankment		Location to be Used		Embankment		Location to be Used		Embankment		Location to be Used		Embankment		Location to be Used		Embankment	
Sample only		yes		Sample only		yes		Sample only		yes		Sample only		yes		Sample only		yes	
Supplier Name		EL-SEEWY		Supplier Name		EL-SEEWY		Supplier Name		EL-SEEWY		Supplier Name		EL-SEEWY		Supplier Name		EL-SEEWY	
Reference in BoQ		Reference in BoQ		Reference in BoQ		Reference in BoQ		Reference in BoQ		Reference in BoQ		Reference in BoQ		Reference in BoQ		Reference in BoQ		Reference in BoQ	
Prequalification reference		Test Samples Results		Prequalification reference		Test Samples Results		Prequalification reference		Test Samples Results		Prequalification reference		Test Samples Results		Prequalification reference		Test Samples Results	
Reference Photos		No		Reference Photos		No		Reference Photos		No		Reference Photos		No		Reference Photos		No	
Comments by: Eng. Hazen Essam (SPECTRUM)		Comments by: Eng. Alaa Abd-Alattif (ER)		Comments by: Eng. Hazen Essam (SPECTRUM)		Comments by: Eng. Alaa Abd-Alattif (ER)		Comments by: Eng. Hazen Essam (SPECTRUM)		Comments by: Eng. Alaa Abd-Alattif (ER)		Comments by: Eng. Hazen Essam (SPECTRUM)		Comments by: Eng. Alaa Abd-Alattif (ER)		Comments by: Eng. Hazen Essam (SPECTRUM)		Comments by: Eng. Alaa Abd-Alattif (ER)	
1- Quality test Result By THIRD PARTY LABORATORY (SPECTRUM)		2- Results report attached and acceptable with the project specifications.		1- Quality test Result By THIRD PARTY LABORATORY (SPECTRUM)		2- Results report attached and acceptable with the project specifications.		1- Quality test Result By THIRD PARTY LABORATORY (SPECTRUM)		2- Results report attached and acceptable with the project specifications.		1- Quality test Result By THIRD PARTY LABORATORY (SPECTRUM)		2- Results report attached and acceptable with the project specifications.		1- Quality test Result By THIRD PARTY LABORATORY (SPECTRUM)		2- Results report attached and acceptable with the project specifications.	
APPROVAL STATUS		APPROVAL STATUS		APPROVAL STATUS		APPROVAL STATUS		APPROVAL STATUS		APPROVAL STATUS		APPROVAL STATUS		APPROVAL STATUS		APPROVAL STATUS		APPROVAL STATUS	
Organisation		Name		Sign		Date		Organisation		Name		Sign		Date		Organisation		Name	
Contractor		Eng. Saeed Mohamed		Contractor		Eng. Saeed Mohamed		Contractor		Eng. Saeed Mohamed		Contractor		Eng. Saeed Mohamed		Contractor		Eng. Saeed Mohamed	
QA/QC		Eng. Hazen Essam		QA/QC		Eng. Hazen Essam		QA/QC		Eng. Hazen Essam		QA/QC		Eng. Hazen Essam		QA/QC		Eng. Hazen Essam	
GABE		Eng. Margot		GABE		Eng. Margot		GABE		Eng. Margot		GABE		Eng. Margot		GABE		Eng. Margot	
Employers Representative		Eng. Alaa Abd-Alattif		Employers Representative															

  From Station 388+000 To Station 389+000 Alameda Electrical Engineers Team From Borg Almarh to		Serial No. 01 (0-2)	Date 19/11/2022
Material Inspection Request			
We request your attendance to inspect the following works :			
Blinding : ☐ Asphalt/Pavement ☐ Bitum ☐ Gravel ☐ Sand			
Location : DREAM WAY			
Drawing: SET-BORG EL ARAB NEW25 PLAN PROFILE Specifications: EBT 1.1 Earthwork Specifications and Testing Report			
Purpose of the Inspection			
1. Earthwork			
☐ New Sub-Grade ☐ Soil ☐ Asphalt ☐ Bitum ☐ Gravel ☐ Sand			
Attachments			
1- Quality Test Report (Self-maintained)			
2-			
Materials to be inspected: Quality Test For Soil by compass			
Submitted by: DREAM WAY			
Signature: B. El-Hadi			
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 :			
☐ Approved (A) ☐ Approved (Not in) ☐ Rejected ☐ Rejected			
Name: Nazen Elmy			
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 :			
☐ Approved (A) ☐ Approved (Not in) ☐ Rejected ☐ Rejected			
Name: Mr. Hossain			
General Engineer's Comments:			
Date:			
Signature:			
Name:			
General Consultant Eng.			
Name:			



COMIBASSAL International Controllers

ISO 9001:2015
Accredited by:
Egyptian General Authority for Petroleum
Under No. 34/29.1/2011

قطاع البترول والغاز
مصر
19/11/2022

PARTICLE SIZE DISTRIBUTION ANALYSIS

ASTM C136 & AASHTO T27 - (Drying Samples)

Electric Express Train

Consultant :- SPECTRUM

General Consultant :- SYSTRA

Material / Source of Soil :- Filling Soil

LAB. REF. Q.C. 1729/1



CLAY and SILT (Fines)		SAND		GRAVEL		COBBLES	
6.7		21.4		72.0			
DEPTH (m)		MOISTURE (%)		LT (%)		PI (%)	
Filling Soil				27.0		2.2	
A-1-a (0)		Poorly graded GRAVEL with Sand (GP)					
D10=		D30= 5.2		Cu = D60/D10=		78.95	
0.19		D60= 15.0		Cc = (D30)²/D60=		9.49	
Remarks:		AASHTO (T87) SOIL CLASSIFICATION SYSTEM -		A-1-a (0) Stone Fragments, Gravel and Sand		Poorly graded GRAVEL with Sand (GP)	
Soil Classification:		ASTM (D421) SOIL CLASSIFICATION SYSTEM -		Poorly graded GRAVEL with Sand (GP)			

Tested By : Mostafa

Checked By : Eng. Emran E. Kandil



40 Safa Zaghoui St., P.O. Box 157 Alex. Egypt
T: 4870573 - F: 4870465
E: info@comibassal.com



49 EL Horra Ave - Alex. Egypt
T: 3920176 - F: 3931482 - E: info@comibassal.com



COMIBASSAL International Controllers

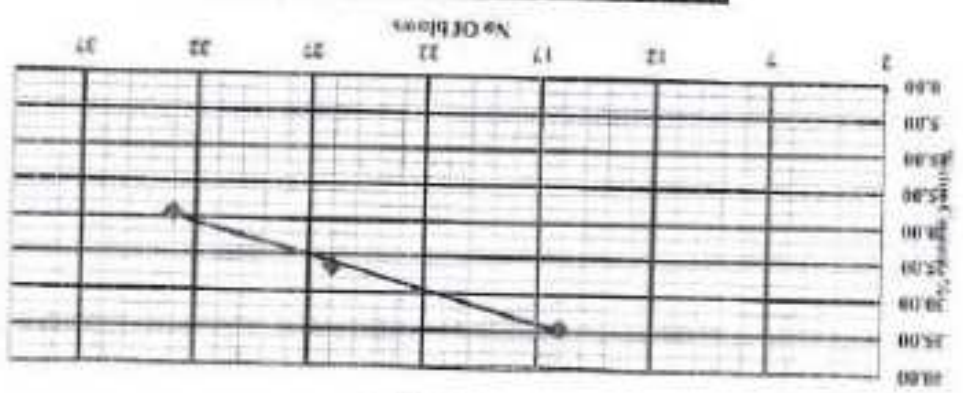
ISO 9001:2008 معتمدة على المواصفة
 مصر على المواصفة
 Accredited by
 Egyptian General Authority for Petroleum
 Under No.34/29.11.2011
 ٢٠١١/١١-٢٩/٢٤
 ٢٠١١/١١-٢٩/٢٤
 ٢٠١١/١١-٢٩/٢٤

Report of Liquid Limit and Plastic Limit Test

ASTM-D 4318

SYSTRA
 SPECTRUM

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



(A) - L.L at blow no.25 = 27.0%				
No. of blows	33	26	10	
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	

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





COMIBASSAL International Controllers

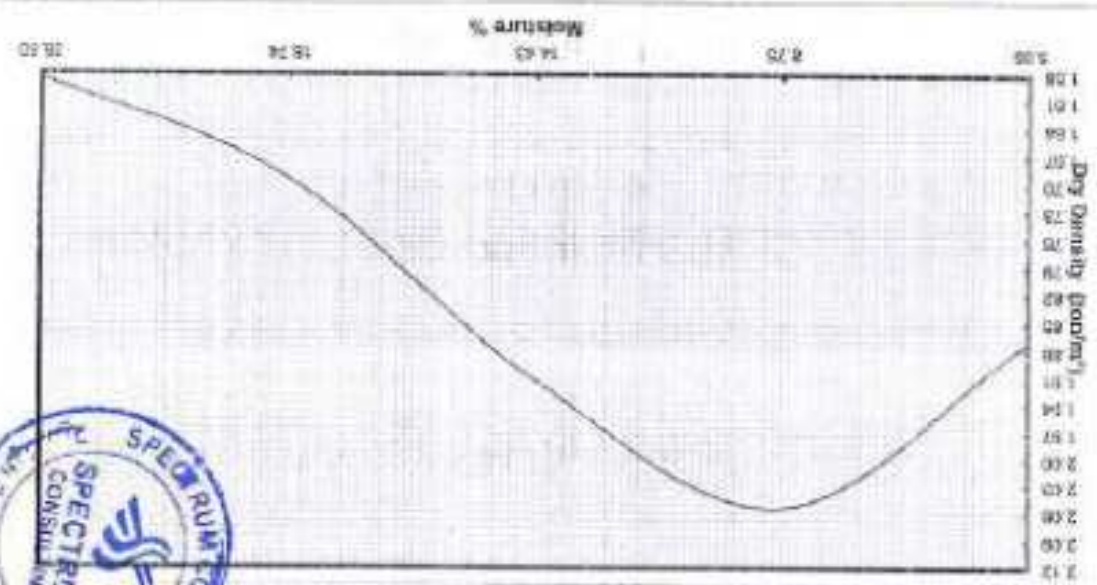
ISO 9001:2008
Accredited by:
Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع البترول والغاز الطبيعي
مصر
٢٠١١/١١/٢٩

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

Proctor Test Report ASTM - D 698

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



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
Eman



40 Safa Zaghal St., P.O. Box 157 Alex, Egypt
Tel: 4870573 - Fax: Tel: 4869798 - 4870666
E-mail: info@comibassal.com

40 Safa Zaghal St., P.O. Box 157 Alex, Egypt
Tel: 4870573 - Fax: Tel: 4869798 - 4870666
E-mail: info@comibassal.com



COMBASSAL International Controllers

ISO 9001:2008
Accredited by:
Egyptian General Authority for Petroleum
Under No. 34/29.11.2011

محكمة على شاطئ النيل
الهندسة والبناء
مصر
11/11/2022

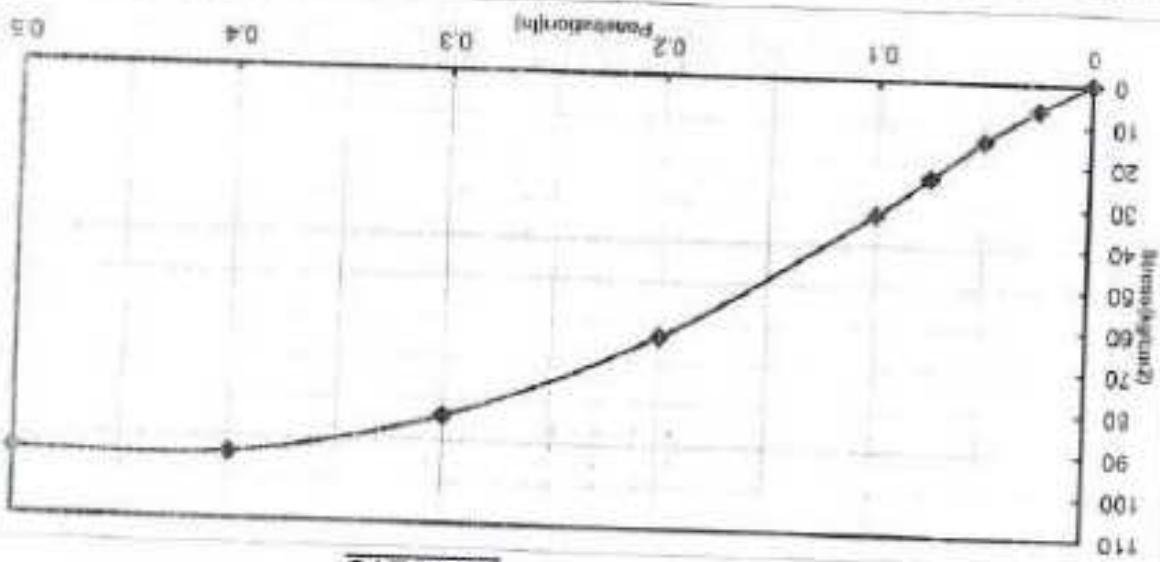
Report no : 1729 / 4 / center
Date : 27 / 11 / 2022

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

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

RESULTS
23/11/2022
Filling Soil

SYSTRA
SPECTRUM
Electric express train
جهاز كهربائي



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	93.99

C.B.R = 60.4 %

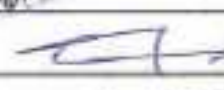


Civil Eng. Department
Eng : Emran E. Kandil
Emran

1074 - on Highway 1 - Jeddah - Saudi Arabia
40866 Zaghoui St., P.O. Box 157 Alex, Egypt
Tel: 4870573 - Fax + Tel: 4869798 - 4870665



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

Contractor Company	Dream Way		Designer Company	SPECTRUM ENGINEER CONSULTING OFFICE				
Issued by Contractor	Name	Sign	Date/Serial Number	Time				
	Eng.SAEED MOHAMMED		16/1/2023 (S5-B-DW) (P.L.T.07)	10:00 AM				
Received by GAR CONSULTANT	Eng.MAZEN ESSAMY		MIR	1	2	3	4	5
				288	EW	CS	17	1 2023 10 0

000-2	51 to 521	52 to 53	Kp XXX Note
	Station Reference	Despot Reference	For Kilometer point 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 (CS21-41.2) VERSION 2 BY OVERCON 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.SAEED MOHAMMED			A
QA/QC*	Eng.MAZEN ESSAMY			A
GARB**	Eng. Margret magdy			
Employers Representative	Eng. Alaa Abd-Allatif			A

* Designer

** Agreement/Approval Date only

شركة المصمم والمقاول العامة
شركة المصمم والمقاول العامة
شركة المصمم والمقاول العامة
شركة المصمم والمقاول العامة
شركة المصمم والمقاول العامة

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

Case 2	St to St	St to St	Rd Km Mile
	Station Reference	Depot 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
MAR		QT(12-2)	Date	20/12/2022	
Supplier Name		ELSEWY , Dream way			
Test Requirement		PLATE LOAD TEST ON FERMA	Specification	EARTH WORK SPECIFICATIONS & TESTING REPORT (06/2012) VERSION 2 BY CIVICOR 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. Maren 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 ul rahman utaf	<i>Abdelrahman Maf</i>		A
QA/QC*	Eng. Mazen Essamy	<i>Mazen Essamy</i>		A
GARB**	Eng. Mohammed Fayad			
Employer's Representative	Eng. Alaa Abd-Allah	<i>Alaa Abd-Allah</i>		AWC

* Designer

** Alignment/Bridges Culvert only

19/10/1

+ Designer

Company : شركة دريم واى

Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (B)
- 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 للمعاملات الهندسية
والتي هي من المعاملات الهندسية
بمصر ٢٠٢٣ - ٢٠٢٤ - ٢٠٢٥

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

أرشد وافي للمقارلات الخاصة
والتي هي من النوع والتميز
بشأن ٢٠٢٣ - ٢٠٢٤ - ٢٠٢٥

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

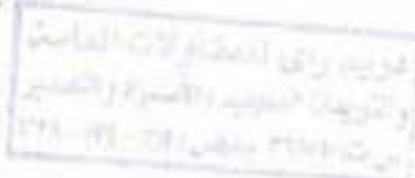
Evaluation and representation of results

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
 شارع الزمالة - القاهرة





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	0.39
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	19.45	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	0.625	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)

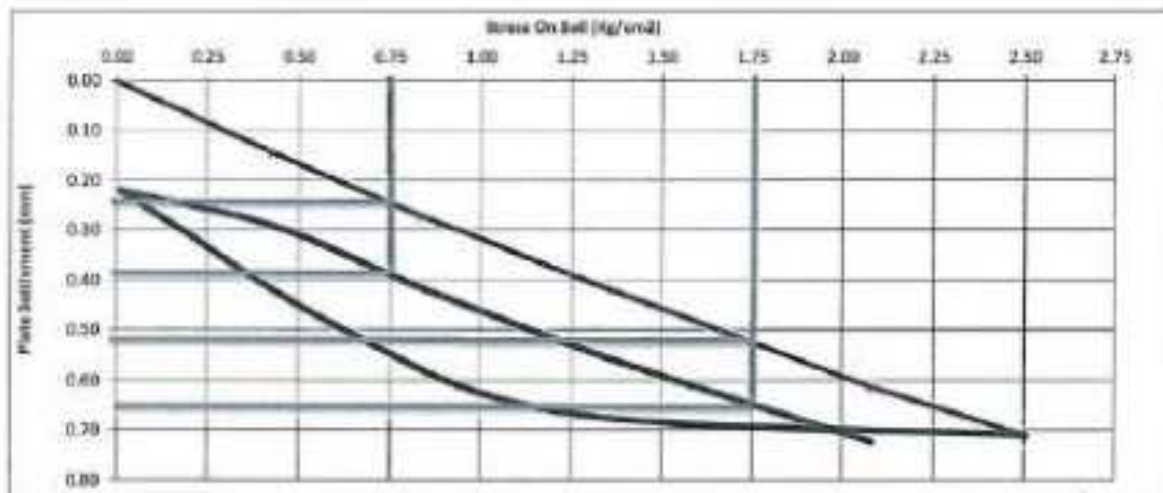
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.67	0.33	19.68	0.32	19.78	0.22	0.29
1	0.83	19.56	0.44	19.54	0.46	19.66	0.34	0.41
2	1.25	19.45	0.55	19.42	0.58	19.54	0.46	0.53
3	1.67	19.35	0.65	19.32	0.68	19.44	0.56	0.63
4	2.08	19.25	0.75	19.22	0.78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



DIN 18134



UnLoading (t)	1	2	3	4
Stage(Kg)	7095	3533	1768	0
Stress (Kg/cm2)	2.50	1.25	0.625	0.01
Settlement (mm)	0.71	0.67	0.50	0.22

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

Signature: 

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

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

DS = Difference in settlements corresponding to 0.2 and 0.7 from the maximum loading level



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	0.825	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)

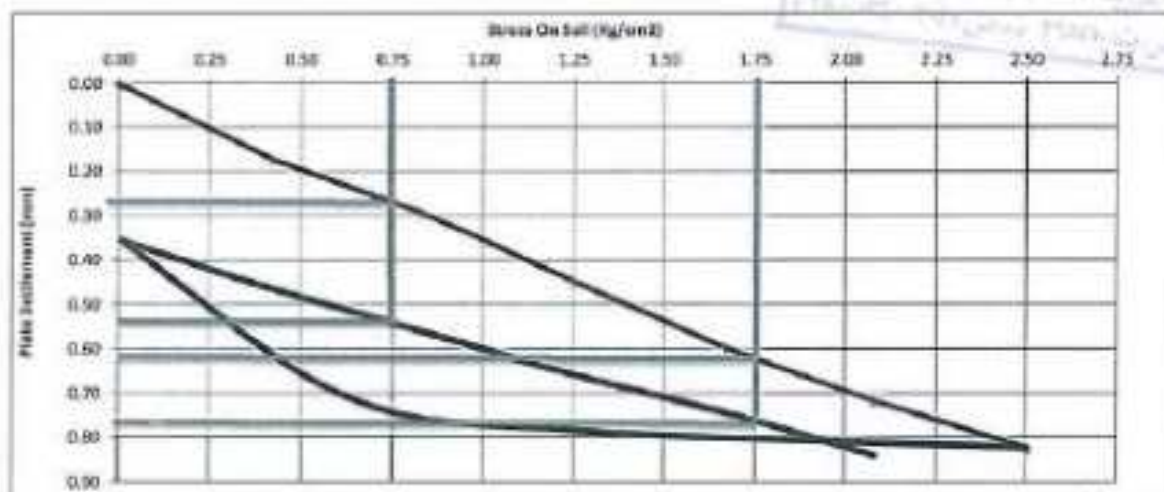
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.46	0.54	19.50	0.50	19.65	0.35	0.46
1	0.83	19.40	0.60	19.41	0.59	19.51	0.49	0.56
2	1.25	19.34	0.66	19.32	0.68	19.37	0.63	0.66
3	1.67	19.23	0.77	19.23	0.77	19.31	0.69	0.74
4	2.08	19.12	0.88	19.10	0.90	19.26	0.74	0.84
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature



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	1768	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 (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)	0.36	0.46	0.56	0.66	0.74	0.84

D (mm) =	600	S1 (mm) =	0.54	S2 (mm) =	0.70	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 ENGINEERING CONSULTING	ORIG	Time	10:00 AM
Issued by Contractor	Eng. SAIED MOHAMMED	Date/Serial Number	30/01/2023	(55-B-DW) (P.L.T.10)	10:00 AM	
Received by GAB	Eng. MAZEN ESSAMY	MR				
		288	288	288	288	288
		EWI	EWI	EWI	EWI	EWI
		CS	CS	CS	CS	CS
		31	31	31	31	31
		1	1	1	1	1
		2023	2023	2023	2023	2023
		10	10	10	10	10
		0	0	0	0	0

55-B-DW	55-B-DW	55-B-DW	55-B-DW	55-B-DW	55-B-DW	55-B-DW
Station Reference	Design Reference	Design Reference	Design Reference	Design Reference	Design Reference	Design Reference
Work Activity	Work Activity	Work Activity	Work Activity	Work Activity	Work Activity	Work Activity
Sub Element of Activity	Sub Element of Activity	Sub Element of Activity	Sub Element of Activity	Sub Element of Activity	Sub Element of Activity	Sub Element of Activity

Description of Materials		FERMA		Location to be Used		Supplier Name		Test Requirement		Reference Photos		Description		Unit		Quantity		Arrival Date		Note	
REV. 29		388+000		TO		388+200		388+383.86		388+200		388+383.86		REV. 35		388+383.86		388+383.86		388+383.86	
P.L.T (DIN 18134)		No/Yes		Other		55-B-DW-IR-5154		55-B-DW-QT-20-1		55-B-DW-QT-20-1		55-B-DW-QT-20-1		55-B-DW-QT-20-1		55-B-DW-QT-20-1		55-B-DW-QT-20-1		55-B-DW-QT-20-1	
1- P.L.T was carried out by third party lab (CET).		2- Results report attached and acceptable with project specifications.		Comments by: Eng. MAZEN ESSAMY (Spectrum)		Comments by: Eng. Alno Abd-Alatif (CR)		1- P.L.T was carried out by third party lab (CET).		2- Results report attached and acceptable with project specifications.		1- P.L.T was carried out by third party lab (CET).		2- Results report attached and acceptable with project specifications.		1- P.L.T was carried out by third party lab (CET).		2- Results report attached and acceptable with project specifications.		1- P.L.T was carried out by third party lab (CET).	

APPROVAL STATUS		Name		Sign		Date		A-AWC-R	
Organization		Contractor		Eng. SAIED MOHAMMED		Eng. MAZEN ESSAMY		GAB	
Employer Representative		Eng. MAZEN ESSAMY		Eng. MAZEN ESSAMY		Eng. MAZEN ESSAMY		Eng. MAZEN ESSAMY	
Design		Eng. MAZEN ESSAMY		Eng. MAZEN ESSAMY		Eng. MAZEN ESSAMY		Eng. MAZEN ESSAMY	

Contractor Company Dream way Company (SPECTRUM) Engineering Consulting Office		Issued by Contractor Name: _____ Sign: _____ Date/Serial Number: 30/01/2023 PLTY10		Received by GARB CONSULTANT Eng. Hazen Essamy Signature: _____	
		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		Quantity		Arrival Date		Note	
PLATE LOAD TEST ON FERMA		38B+000		29/12/2022		4					
Reference photos		No/Yes		Specification		Other		URB-SC54			
Test Requirement		PLATE LOAD TEST ON FERMA		ELSEWY Dream way							
SUPPLIER NAME		QT(13-2)									
Item		Unit		Description		Unit		Quantity		Arrival Date	
3		38B+000		38B+200		10					
Comments by: Eng. Hazen Essamy (SPECTRUM)											

The plate load test results of third party 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 asaf Eng. Hazen Essamy Eng. Mohamed Fayed	
Employer's Representative Eng. Alaa Abd-Alattar Eng. Mohamed Fayed		Designer No Name: MS-F-1302 Page 1 of 1	

مكتب استشارات الهندسة
مكتب استشارات الهندسة
مكتب استشارات الهندسة

Company Name : dream Way Co.
Project : Electric Express Train, from Borg El 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	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

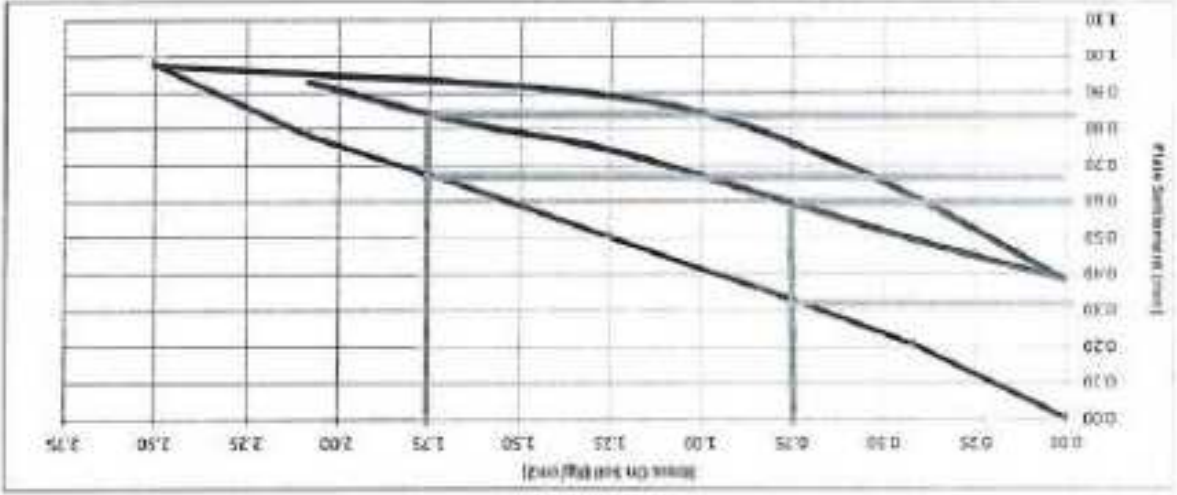


3 El Malek El Afdal Street
Zamalek, Cairo.
Tel & Fax : 27367231 - 27363093

www.cel-egypt.com
www.cel-egypt.com
www.cel-egypt.com

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

**Nonrepetitive Static 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	0.21
2	2345.6	0.83	0.30
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

D (mm) = 600	CV (kg/cm²) = (9.78*10³)/A _s A _s	51 (mm) = 0.22	52 (mm) = 0.68	AS = 0.36
--------------	--	----------------	----------------	-----------

Loading (t)	Stage(Kg)	Stress (Kg/cm²)	Settlement (mm)
0	0	0.01	0.39
1	1186.92	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	0.90

D (mm) = 600	CV (kg/cm²) = (9.78*10³)/A _s A _s	51 (mm) = 0.60	52 (mm) = 0.82	AS = 0.22
--------------	--	----------------	----------------	-----------



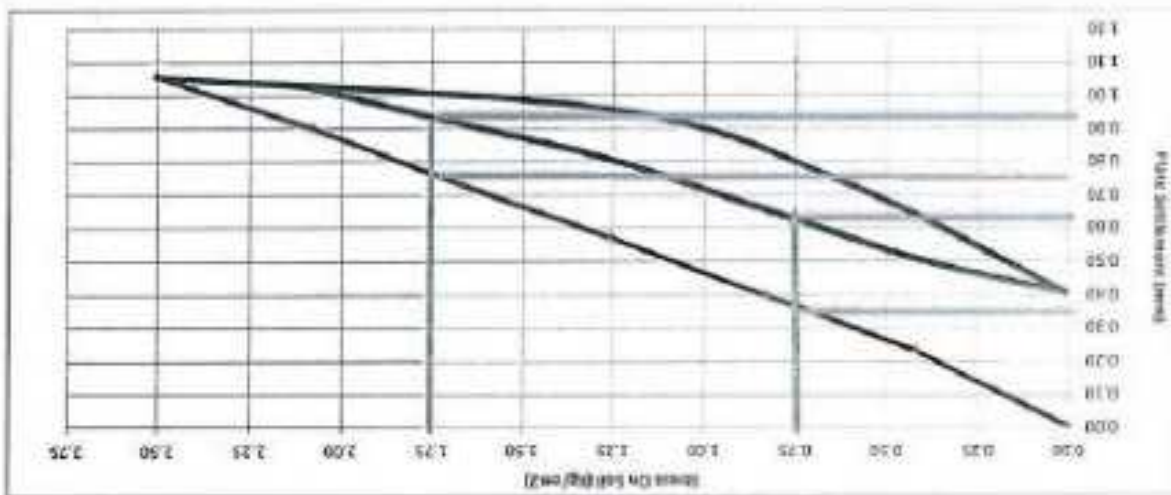
EV2/EV1 = 1.8

Unloading (t)	Stage(Kg)	Stress (Kg/cm²)	Settlement (mm)
1	7065	2.50	0.58
2	3533	1.25	0.625
3	1768	0.625	0.71
4	0	0.01	0.39

Company Name
Project
Test Date
Report Date
Location
Test No.

: dream Way Co.
: Electric Express Train, from Borg Al Arab to Al-Mahala
: 31/01/2023
: 01/02/2023
: Station 388+050 to 388+100
: 06

Nonrepertive Static Load Tests of Soils
DIN 18134



Unloading (t)	1	2	3	4
Stage(Kg)	7665	3533	1768	0
Stress (kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	1.00	0.95	0.74	0.41

Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.0	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	0.23	0.40	0.57	0.73	0.80	1.00

Loading (t)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.0	3532.5	4719.4	5878.1
Stress (kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.41	0.51	0.60	0.69	0.81	1.02

EV2/EV1 = 1.3

EV1 = modulus of deformation during the loading stage
EV2 = modulus of deformation during the unloading stage
D = Plate diameter (mm)
Ds = The difference between 0.5 and 0.7 from the maximum loading (mm)
Dx = 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 Berg Al Arab to Almaslin.
Test Date : 31/01/2023
report date : 01/02/2023
Location : Station 388+100 to 388+180
Test No. : 07

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading	Stress	Kg/cm2	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	15.88	19.75	0.12	19.82	0.18	19.79	0.21	0.17
2	0.83	19.75	19.75	0.25	19.70	0.30	19.65	0.35	0.30
3	1.25	19.64	19.64	0.36	19.69	0.31	19.53	0.47	0.36
4	1.67	19.51	19.51	0.49	19.58	0.42	19.40	0.60	0.50
5	2.08	19.40	19.40	0.60	19.44	0.56	19.29	0.71	0.62
6	2.50	19.28	19.28	0.72	19.25	0.75	19.10	0.90	0.79

Unloading Stage (1)

Loading	Stress	Kg/cm2	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	19.28	0.72	19.25	0.75	19.10	0.90	0.78	0.78
2	1.25	19.35	0.65	19.36	0.64	19.16	0.84	0.71	0.71
3	0.625	19.56	0.50	19.47	0.53	19.33	0.67	0.57	0.57
4	0.01	19.80	0.20	19.70	0.30	19.65	0.35	0.28	0.28

Loading Stage (2)

Loading	Stress	Kg/cm2	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	19.74	0.26	19.61	0.39	19.60	0.40	0.36	0.36
1	0.83	19.61	0.39	19.49	0.51	19.51	0.49	0.46	0.46
2	1.25	19.50	0.50	19.38	0.62	19.43	0.57	0.56	0.56
3	1.67	19.39	0.61	19.25	0.75	19.30	0.70	0.68	0.68
4	2.08	19.28	0.72	19.14	0.86	19.19	0.81	0.80	0.80



3 El Madak El Ahdal Street
Zamalek, Cairo.
Tel & Fax : 27367231 - 27363093



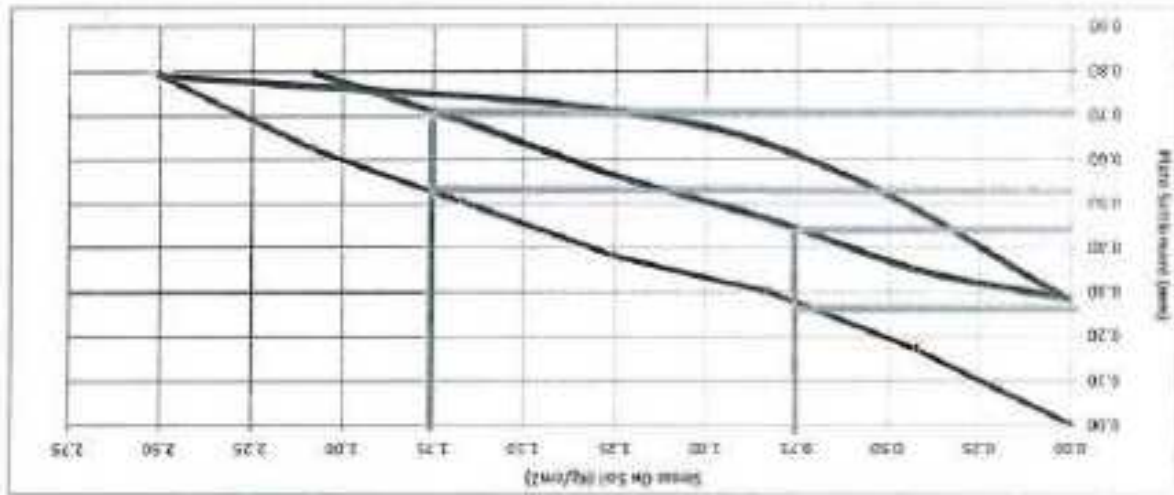
www.cel-egypt.com
TWP1P-4P - TWP1V1P1 - TWP1V1P2
TWP1P-4P - TWP1V1P1 - TWP1V1P2

Company Name
Project
Test Date
Report date
Location
Test No.

: dream Way Co.
: Electric Express Train, from Borg Al Arab to Alaman.
: 21/01/2023
: 01/02/2023
: Station 388+100 to 388+150
: 07

مكتب استشارات الهندسة
مكتب استشارات الهندسة
مكتب استشارات الهندسة

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	0	1188.92	2345.6
1	7665	4719.4	5878.1
2	15330	9438.8	11756.2
3	22995	14158.2	17634.3
4	30660	18877.6	23512.4
5	38325	23597.0	29390.5
6	45990	28316.4	35268.6

Q (mm) = 600	Q1 (mm) = 571	Q2 (mm) = 542	Q3 (mm) = 513	Q4 (mm) = 484	Q5 (mm) = 455	Q6 (mm) = 426
--------------	---------------	---------------	---------------	---------------	---------------	---------------

Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	0	1188.92	2345.6
1	7665	4719.4	5878.1
2	15330	9438.8	11756.2
3	22995	14158.2	17634.3
4	30660	18877.6	23512.4
5	38325	23597.0	29390.5
6	45990	28316.4	35268.6

Q (mm) = 600	Q1 (mm) = 571	Q2 (mm) = 542	Q3 (mm) = 513	Q4 (mm) = 484	Q5 (mm) = 455	Q6 (mm) = 426
--------------	---------------	---------------	---------------	---------------	---------------	---------------

Q1 = modulus of deformation during the loading stage
Q2 = modulus of deformation during the unloading stage
Q3 = modulus of deformation during the reloading stage
Q4 = modulus of deformation during the unloading stage
Q5 = modulus of deformation during the reloading stage
Q6 = modulus of deformation during the unloading stage



EV2/EV1 = 1.0

Unloading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	0	1188.92	2345.6
1	7665	4719.4	5878.1
2	15330	9438.8	11756.2
3	22995	14158.2	17634.3
4	30660	18877.6	23512.4
5	38325	23597.0	29390.5
6	45990	28316.4	35268.6

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	19.80	0.19
2	0.83	19.70	0.30	19.63	0.37	19.66	0.34	19.66	0.34
3	1.25	19.63	0.37	19.52	0.48	19.58	0.44	19.58	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	19.43	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



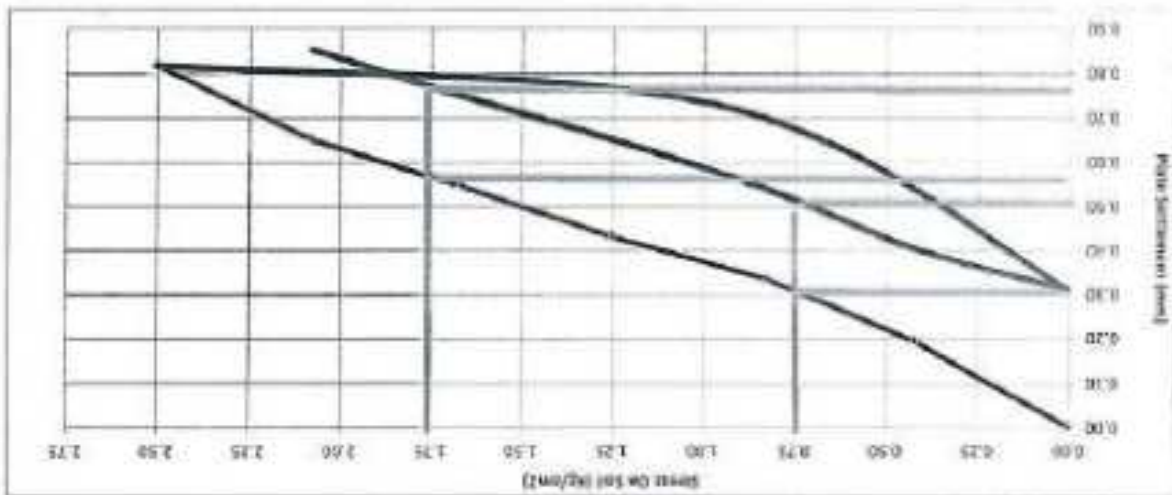
www.cel-egypt.com
القاهرة - الجيزة
27367231 - 27363093

Company Name
Project
Test Date
Report date
Location
Test no.

: dream Way Co.
: Electric Express Train, from Berg Al Arab to Alamein.
: 31/01/2023
: 01/02/2023
: Station 358+150 to 358+200
: 06

مكتب مهندسين واستشارات الهندسة
www.cel-egypt.com

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



Loading (t)	Stage (kg)	Stress (kg/cm ²)	Settlement (mm)
0	1186.92	0.00	0.00
1	3345.6	0.42	0.10
2	3532.5	0.83	0.34
3	4719.4	1.25	0.43
4	5878.1	1.67	0.65
5		2.08	0.65

EV1 (right) = 60.75		D (mm) = 1875	
EV2 (left) = 60.75	St (mm) = 6.32	St (mm) = 6.58	AS = 0.34

Loading (t)	Stage (kg)	Stress (kg/cm ²)	Settlement (mm)
0	1186.92	0.01	0.01
1	3345.6	0.42	0.40
2	3532.5	0.83	0.54
3	4719.4	1.25	0.65
4	5878.1	1.67	0.73
5		2.08	0.80

D (mm) =	600	St (mm) =	6.32	St (mm) =	6.58	AS =	0.34
EV1 (right) =	60.75	D (mm) =	1875				

EV1 = modulus of deformation during the loading stage
EV2 = modulus of deformation during the reloading stage
D = Plate diameter (mm)
OS = The difference between 0.1 and 0.7 from the maximum loading (kg/cm²)
OS = Difference in settlement corresponding to 0.1 and 0.7 from the maximum loading (mm)



Contractor Company	Dream Way	Designer Company	SPECTRUM ENGINEER CONSULTING OFFICE						
Issued by Contractor	Name	Sign	Time						
	Eng. SAIED MOHAMMED		12/1/2023 (55-B-DW) (P.L.T.07)						
Received by GARB CONSULTANT	Eng. MAZEN ESSAMY	MR	1	2	3	4	5	6	7
			388	EW	CS	13	1	2023	10

QUR-1	S1 to S23	D1 to S3	Sp. X00 Rate
QUR-2	Station Reference	Deputy Reference	For Kilometer point only Start Km is used
QUR-3	Web Activity		
QUR-4	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	محاجر السوي - العلمين				
Test Requirement	P.L.T (DIN 18134)		Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CS21-41.2) VERSION 2 BY CIVICON GROUP	
Reference Photos	No/Yes		Other	55-B-DW-IR-5(48) 55-B-DW-QT(15-1)	
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-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 mogdy			
Employers Representative	Eng. Alaa Abd-Allatif			A

* Designer

** Approver/Bridges: Culvert only

Contractor Company	DREAM WAY		Designer Company	CONSULTING Engineering Consulting Office																	
Issued by Contractor	Name	Sign	Date/Serial Number	Time																	
	Eng. Abdelrahman Ataf	<i>Abdelrahman Ataf</i>	17/01/2023 PLT(12)	3:00 PM																	
Received by GARC CONSULTANT	Eng. Mazen Essamy	<i>Mazen Essamy</i>	MIR	<table border="1"> <tr> <td>CC</td> <td>CE</td> <td>CE</td> <td>CC</td> </tr> <tr> <td>100</td> <td>EW</td> <td>CS</td> <td>12</td> </tr> </table>	CC	CE	CE	CC	100	EW	CS	12	<table border="1"> <tr> <td>MM</td> <td>YY</td> <td>DD</td> <td>HH</td> </tr> <tr> <td>1</td> <td>12</td> <td>3</td> <td>0</td> </tr> </table>	MM	YY	DD	HH	1	12	3	0
CC	CE	CE	CC																		
100	EW	CS	12																		
MM	YY	DD	HH																		
1	12	3	0																		

Loop	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 (ISSUE 4.1.2) VERSION 1 BY CIVEDON GROUP
Reference Photos	No/Yes	Other	UIR-S-48

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	<i>Abdelrahman Ataf</i>		A
QA/QC *	Eng. Mazen Essamy	<i>Mazen Essamy</i>		A
GARC**	Eng. Mohammed Fayad			
Employers Representative	Eng. Alaa Abd-Allah	<i>Alaa Abd-Allah</i>		AWC

* Designer

** Engineer/Officer/Subject 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
من ٢٠١٢ إلى ٢٠٢٣

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

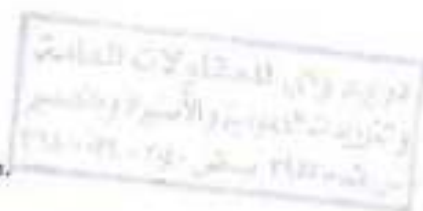
Evaluation and representation of results

Test No.	Station		First Cycle	Second Cycle	E_{v2}/E_{v1} Ratio
	From	To	$E_{v1} (\text{kg/cm}^2)$	$E_{v2} (\text{kg/cm}^2)$	
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/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	19.80	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/cm2	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/cm2	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



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 Al Arab to Alamein.
Test Date : 12/01/2023
report date : 14/01/2023
Location : Station 388+300 to 388+350
Test No. : 1

برسم والى استشارات الهندسية
الاستشارات الهندسية
مكتب معامل الاستشارات الهندسية
12/01/2023

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	0.625	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						

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

Ev2/Ev1 = 1.7

D (mm) =	600	S1 (mm) =	0.62	S2 (mm) =	0.84	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 S2 and S1 from the maximum loading (mm) (kg/cm²)

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

Signature: 
مكتب معامل الاستشارات الهندسية
الاستشارات الهندسية
مكتب معامل الاستشارات الهندسية
12/01/2023





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		#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+400
 Test No. : 2

مكتب معمل الاستشارات الهندسية
 ٢٧٣٦٢٠٩٣ - ٢٧٣٦٢٢٣١
 القاهرة - الجيزة

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	0.78	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) =	0.65	ΔS =	0.35
Ev1 (kg/cm²) =	(0.75*D²Δs)/ΔS		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) =	0.83	ΔS =	0.20
Ev2 (kg/cm²) =	(0.75*D²Δs)/ΔS		2250				

Ev1 = Modulus of deformation during the loading stage.

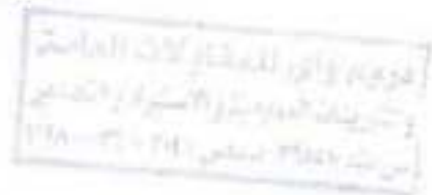
Ev2 = Modulus of deformation during the Reloading stage.

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/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	19.92	0.08	19.80	0.20	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/cm ²	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/cm ²	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	0.83	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	19.30	0.90	19.15	0.85	18.98	1.02	0.92
3	0.625	19.34	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



DIN 18134



Loading (t)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7063
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	0.90

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)	0.98	0.92	0.67	0.60

D (µm) = 600	S1 (mm) = 6.35	S2 (mm) = 0.75	ΔS = 0.40
Ev1 (kg/cm2) = (0.75°D°ΔS/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	0.76	0.84	0.93	1.01

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

$$E_{y2}/E_{y1} = 1.4$$


Ev1 = Modulus of deformation during the loading stage.

E_{y2} = Modulus of deformation during the Reloading stage

 D = Plate diameter (mm)(Ds = The difference between 0.3 and 0.7 from the maximum loading (mmol/kg/min)^a

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 - 27367093



٣ ش الملك الأفضل
الزمالك - القاهرة
تليفون + فاكس : ٢٧٣١٧٢٣١ - ٢٧٣١٦٠٩٢
www.cel-egypt.com

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 shown											
Contractor Company		Dream Way COMPANY (شركة الدريم واي) م.ش. ٣١٥٥١ - ٣٤٢ - ٣٣٨				Designer Company*		(SPECTRUM) Engineering Consulting Office			
Issued by Contractor		Name		Sign		Date/Serial Number		Time			
		Eng. Elsaad Mohamed				27/11/2022 S5-B-DW- IR-S(21)		01:00 م			
Received by GARB CONSULTANT		Eng. Mazen Esamy		 UIR		C2 C3 DD MM YY HH MM 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	Fill layer (-1.50)				upper embankment		
From St.	388+383.86	To St.	388+483.86	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 (SPECTRUM) CONSULTING		MAR (S5-B-DW-QT-15-01) MIR (S5-B-DW-FDT-15)				-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 3 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 (SPECTRUM)					
						1- تم استكمال القلاخ فحص وعرض 2- تم مراجعة شيت الجداول					
INSPECTION RESULT											
Organisation	Name		Sign		Date	Time	Approval Status	Please Tick if Not Attend			
Contractor	Eng. Elsaad 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				

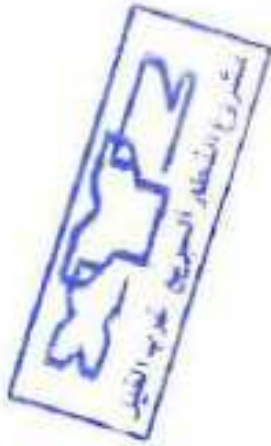
Contractor	 Electrical Express Train From Borg Alarah to Alaminia From Station 388+000 To Station 389+000				Serial No. IR-5 (21)
	 مكتب الدراسات				Date 28 / 11 / 2022
Works Inspection Request					
We request your attendance to inspect the following works :					
Discipline : ☐ Construction ☐ Traffic ☐ Design ☒ Survey					
Location :		Zone	From Station	To Station	Level
		DREAM WAY	388+200	388+300	(0.1-0.9) -1.50
References		Drawing: EET-DORS EL ARAB REV 29 Plan Profile Specification: EEFLLI Earthworks Specifications and Testing Report			
Purpose of the inspection					
☐ Surveying ☒ Setting out ☒ Level ☐ Volume					
Attachments 1- LEVELS SHEET 2- EXPLANATIONS 3- Coordinations of Layer Previous IR-5(15) (-1.75)					
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 :					
Date of Inspection: / / Levels matching the attach master sheet which approved by spectrum.					
The works are : ☐ Approved (A) ☒ Approved in Word (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)					
Name: J.P. P. Signature:					
GARB Consultant Engineer's Comments :					
Date of Inspection: / / Surface need more Compaction - after 3 hours, Surface is ok.					
The works are : ☐ Approved (A) ☒ Approved in Word (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)					
Name: Signature:					
General Consultant's Comments:					
1- Coordinates & levels & width checked by GARB Consultants but X-sec / 2m should approved from SYSTRA 2- Final approval is subject to above mentioned Comments					
The works are : ☐ Approved (A) ☒ Approved in Word (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)					
Name: Alaa Abdellatif Signature:					
GARB Engineer's Comments:					
Date: 28/11					
Name: Signature:					
General Consultant Eng. GARB Eng.					

Consultants

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

[illegible]

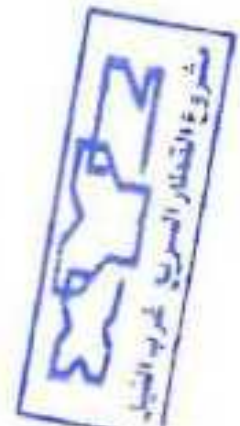
Mr. John J. Pittman



[illegible]

Capitulum

٢٠



Contractor		Consultants		
Serial No. IR-5(08) Date 14/11/2022 Let Abu (a) water Electrical System Train from Dong Akad to Karama From Station 388+00 To Station 390+00	Works Inspection Request The request your attendance to inspect the following works: Discipline: ☐ Overhaul/Repair ☐ Routine ☐ New Location: Zone: From Station: To Station: Level: Reference: Drawing: EBT-0086 CL ARAB RLY 29 mm electric Purpose of the inspection: ☐ Surveying ☐ Work on ☐ Work ☐ Work Attachments: 1- master sheet for our inspection 2- AS BUILT SHEET FOR WORKS 3- Works to be inspected 4- Master sheet for IIR-025 5- 2-day night coordinates		Submitted by: Company: Signature: Date of inspection: / / General Consultant Engineer's Comments: level marking the attached master sheet which applied by spectrum Name: Signature: Date of inspection: / / The works are: ☐ Approved (A) ☐ Approved as noted (N) ☐ Rejected (R) ☐ Rejected (R) General Consultant Engineer's Comments: Name: Signature: Date: / / The works are: ☐ Approved (A) ☐ Approved as noted (N) ☐ Rejected (R) ☐ Rejected (R) General Consultant Engineer's Comments: 1 Coordinates of levels and will be checked by GARB control 2 final approval is subject to above mentioned Name: Signature: Date: / / General Consultant Engineer's Comments: Name: Signature: Date: / /	



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	7.178	7.336	7.496	7.336	7.176	7.038
Label L.L. 9									4%
388+920	4%	6.900	7.018	7.178	7.338	7.498	7.338	7.178	7.040
Label L.L. 9									4%
388+940	4%	6.904	7.021	7.181	7.341	7.501	7.341	7.181	7.043
Label L.L. 9									4%
388+960	4%	6.905	7.025	7.183	7.343	7.503	7.343	7.183	7.045
Label L.L. 9									4%
388+980	4%	6.907	7.025	7.185	7.345	7.505	7.345	7.185	7.047
Label L.L. 9									4%
389+000	4%	6.909	7.027	7.187	7.347	7.507	7.347	7.187	7.049
Label L.L. 9									4%

11

Signature



Master Sheet for Fill (From 306+000 To 369+000) (Drawn by) Rev 29 (17-10-2022)

0	1	2	3	4	5	6	7	8	9	10	11	12
0	7.223	7.723	7.973	8.223	8.473	8.723	8.973	9.223	9.473	9.723	7.28	300+000
1	7.172	7.672	7.922	8.172	8.422	8.672	8.922	9.172	9.422	9.672	7.03	300+020
2	7.121	7.621	7.871	8.121	8.371	8.621	8.871	9.121	9.371	9.621	7.08	300+040
3	7.069	7.569	7.819	8.069	8.319	8.569	8.819	9.069	9.319	9.569	7.30	300+060
4	7.018	7.518	7.768	8.018	8.268	8.518	8.768	9.018	9.268	9.518	7.36	300+080
5	0	7.467	7.717	7.967	8.217	8.467	8.717	8.967	9.217	9.467	7.20	300+100
6	0	7.416	7.666	7.916	8.166	8.416	8.666	8.916	9.166	9.416	7.39	300+120
7	0	7.364	7.614	7.864	8.114	8.364	8.614	8.864	9.114	9.364	7.00	300+140
8	0	7.313	7.563	7.813	8.063	8.313	8.563	8.813	9.063	9.313	7.55	300+160
9	0	7.262	7.512	7.762	8.012	8.262	8.512	8.762	9.012	9.262	7.09	300+180
10	0	7.211	7.461	7.711	7.961	8.211	8.461	8.711	8.961	9.211	7.08	300+200
11	0	7.159	7.409	7.659	7.909	8.159	8.409	8.659	8.909	9.159	7.06	300+220
12	0	7.108	7.358	7.608	7.858	8.108	8.358	8.608	8.858	9.108	7.00	300+240
13	0	7.057	7.307	7.557	7.807	8.057	8.307	8.557	8.807	9.057	7.00	300+260
14	0	7.006	7.256	7.506	7.756	8.006	8.256	8.506	8.756	9.006	7.00	300+280
15	0	0	7.204	7.454	7.704	7.954	8.204	8.454	8.704	8.954	7.00	300+300
16	0	0	7.153	7.403	7.653	7.903	8.153	8.403	8.653	8.903	7.00	300+320
17	0	0	7.102	7.352	7.602	7.852	8.102	8.352	8.602	8.852	7.00	300+340
18	0	0	7.051	7.301	7.551	7.801	8.051	8.301	8.551	8.801	7.00	300+360
19	0	0	7.000	7.25	7.5	7.75	8	8.25	8.5	8.750	7.00	300+380
20	0	0	0	7.198	7.448	7.698	7.948	8.198	8.448	8.698	7.00	300+400
21	0	0	0	7.147	7.397	7.647	7.897	8.147	8.397	8.647	7.00	300+420
22	0	0	0	7.096	7.346	7.596	7.846	8.096	8.346	8.596	7.00	300+440
23	0	0	0	7.045	7.295	7.545	7.795	8.045	8.295	8.545	7.00	300+460
24	0	0	0	7.000	7.250	7.500	7.750	8.000	8.250	8.500	7.00	300+480
25	0	0	0	0	7.231	7.481	7.731	7.981	8.231	8.481	7.00	300+500
26	0	0	0	0	7.214	7.464	7.714	7.964	8.214	8.464	7.00	300+520
27	0	0	0	0	7.208	7.458	7.708	7.958	8.208	8.458	7.00	300+540
28	0	0	0	0	7.21	7.46	7.71	7.96	8.21	8.460	7.00	300+560
29	0	0	0	0	7.212	7.462	7.712	7.962	8.212	8.462	7.00	300+580
30	0	0	0	0	7.214	7.464	7.714	7.964	8.214	8.464	7.00	300+600
31	0	0	0	0	7.216	7.466	7.716	7.966	8.216	8.466	7.00	300+620
32	0	0	0	6.718	6.968	7.218	7.468	7.718	7.968	8.218	6.70	300+640
33	0	0	0	6.721	6.971	7.221	7.471	7.721	7.971	8.221	6.71	300+660
34	0	0	0	6.723	6.973	7.223	7.473	7.723	7.973	8.223	6.70	300+680
35	0	0	0	6.725	6.975	7.225	7.475	7.725	7.975	8.225	6.70	300+700
36	0	0	0	6.727	6.977	7.227	7.477	7.727	7.977	8.227	6.71	300+720
37	0	0	0	6.729	6.979	7.229	7.479	7.729	7.979	8.229	6.70	300+740
38	0	0	0	6.731	6.981	7.231	7.481	7.731	7.981	8.231	6.70	300+760
39	0	0	0	6.733	6.983	7.233	7.483	7.733	7.983	8.233	6.70	300+780
40	0	0	0	6.736	6.986	7.236	7.486	7.736	7.986	8.236	6.70	300+800
41	0	0	0	6.738	6.988	7.238	7.488	7.738	7.988	8.238	6.70	300+820
42	0	0	0	6.74	6.99	7.24	7.49	7.74	7.99	8.24	6.70	300+840
43	0	0	0	6.742	6.992	7.242	7.492	7.742	7.992	8.242	6.70	300+860
44	0	0	0	6.744	6.994	7.244	7.494	7.744	7.994	8.244	6.70	300+880
45	0	0	0	6.746	6.996	7.246	7.496	7.746	7.996	8.246	6.70	300+900
46	0	0	0	6.748	6.998	7.248	7.498	7.748	7.998	8.248	6.70	300+920
47	0	0	0	6.751	7.001	7.251	7.501	7.751	8.001	8.251	6.70	300+940
48	0	0	0	6.753	7.003	7.253	7.503	7.753	8.003	8.253	6.70	300+960
49	0	0	0	6.755	7.005	7.255	7.505	7.755	8.005	8.255	6.70	300+980
50	0	0	0	6.757	7.007	7.257	7.507	7.757	8.007	8.257	6.70	300+000

مشروع القانون المرحوم
عبدالله بن عبدالمطلب
مستشار



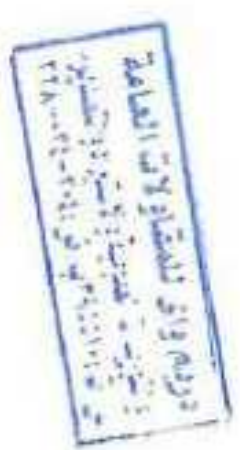
دریج و آن به مقدار لا یاب القیامه
و یزید و لا یقل و لا یغیر و لا یحذف
و لا یزید و لا یقل و لا یغیر و لا یحذف



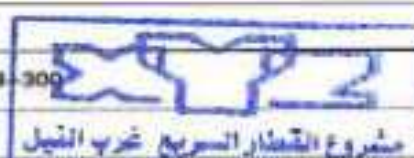
STATION	N	E	WIDTH	N	E	N	RIGHT WIDTH	TOTAL WIDTH
388+900.00	900146.556	427206.641	14.94	900160.085m	427,212.0536m	900171.157	427216.163	26.38
388+920.00	900153.776	427187.989	14.94	900107.7974m	427,200.8818m	900178.376	427197.511	26.38
388+940.00	900160.993	427169.338	14.94	900174.9253m	427,194.7501m	900185.595	427178.859	26.38
388+960.00	900168.212	427150.686	14.94	900182.5413m	427,186.0786m	900192.814	427160.208	26.38
388+980.00	900175.431	427132.034	14.94	900189.8642m	427,187.4267m	900200.033	427141.556	26.38
389+000.00	900182.65	427113.382	14.94	900196.5831m	427,188.7749m	900207.252	427122.904	26.38

21

[Signature]



UNIVERSAL INSPECTION REQUEST		WAY		SPECTRUM Engineering Consulting Office		SPECTRUM Engineering Consulting Office	
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 shown							
Contractor Company		Dwaini Way COMPANY		Designer Company*		SPECTRUM Engineering Consulting Office	
Issued by Contractor		Name: Eng. Ehsan Mohamed		Date/Serial Number		Time	
Received by GARD CONSULTANT		Eng. Mazen Emery		18/11/2022 SS-B-DW-12-M(15)		01:00	
UIR		388		389		390	
CODE - 1		S1 to S21 Station Reference		D1 to D3 Depot Reference		Sp XXX km	
CODE - 2		Work Activity		Sub Element of Activity		For Kilo meter point only Start Km is used	
EXPLANATION OF WORK TO BE INSPECTED							
Description		Element		Item			
From St.	388+200	To St.	388+300	REV 28	Fill layer (-1.75)		middle embankment
From St.	388+383.86	To St.	388+483.86	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) MTR (SS-B-DW-P.1.T-42)		-Specification: EARTHWORK SPECIFICATIONS A TESTING REPORT (SS-B-43.2) (VERSION) BY CIVILCON GROUP. -TECHNICAL REPORT (SS-B-43.2) (VERSION) BY CIVILCON GROUP.			
Comments by Eng. Mohamed KHAUL (XYZ)							
1- Attached Master Sheet approved by SPECTRUM 2- As Built (-1.75) fill layer coordinates, Elevation, Width							
Comments by Eng. Mostafa reyal (SPECTRUM)				Comments by Eng. Alaa Abd-Allah (E)			
				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		
XYZ Survey	Eng. Mohamed Khaul				A		
QA/QC*	Eng. Mazen Emery				A		
GARD**	Eng. Margret magdy				A		
Employers Representative	Eng. Alaa Abd-Allah				A		

Contractor	 Electrical Express Train From Borg El Arab to Alamein From Station 388+000 To Station 389+000				Serial No. IR-9 (45)
	 مكتب أ.ر.م. ت.م.				Date 10 / 11 / 2022
	Works Inspection Request				
	We request your attendance to inspect the following works :				
Discipline : ☐ Civil/Structure ☐ Structure ☐ Bridge ☐ Sign					
Location :		Zone	From Station	To Station	Level
		DREAM WAY	388+200	388+300	(D.L-0.9) -1.78
References		Drawing: EET-BORG EL ARAB REV 29 Plan Profile Specification: EET L.S. Earthwork Specifications and Testing Report			
Purpose of the Inspection ☐ Surveying ☐ Retention ☒ Levels ☐ Verticality					
Attachments 1- LEVELS SHEET 2- FIB LAYERS 3- Coordinations of Layer					
Works To be Inspected		FIB layers -1.78 from 388+200 TO 388+300			
 					
Submitted by:		DREAM WAY		Name: _____ Signature: _____	
Supervising Consultant Engineer's Comments : _____ Date of Inspection: ____/____/____					
The works are : ☐ Approved ☒ Approved as noted (S) ☐ Rejected (S) ☐ Rejected (R)					
Name: <u>Dr. M. M. El</u> Signature: _____ GARP Consultant Engineer's Comments : _____ Date of Inspection: ____/____/____					
The works are : ☒ Approved (S) ☐ Approved as noted (S) ☐ Rejected (S) ☐ Rejected (R)					
Name: <u>Mazen Esamy</u> Signature: _____ General Consultant's Comments : _____ Date: ____/____/____					
1- Coordinates levels & width and Master sheet checked by GARP Consultants but Xsec/20m should be approved from SYSTRA 2- Final approval is subject to above mentioned comments					
The works are : ☐ Approved (S) ☒ Approved as noted (S) ☐ Rejected (S) ☐ Rejected (R)					
Name: <u>Abou Abdellatif</u> Signature: _____ GARP Engineer's Comments : _____ Date: ____/____/____					
Name: _____ Signature: _____ General Consultant Eng. GARP Eng.					

Consultants

[illegible]

طريقه وادى الى اكتشافات اخرى



Master Sheet for Fill (From 385+000 To 392+000)(Drawn by) Rev 29 (17-10-2022)

[illegible]

مکمل

1. المادة 1
 2. المادة 2
 3. المادة 3
 4. المادة 4
 5. المادة 5
 6. المادة 6
 7. المادة 7
 8. المادة 8
 9. المادة 9
 10. المادة 10
 11. المادة 11
 12. المادة 12
 13. المادة 13
 14. المادة 14
 15. المادة 15
 16. المادة 16
 17. المادة 17
 18. المادة 18
 19. المادة 19
 20. المادة 20
 21. المادة 21
 22. المادة 22
 23. المادة 23
 24. المادة 24
 25. المادة 25
 26. المادة 26
 27. المادة 27
 28. المادة 28
 29. المادة 29
 30. المادة 30
 31. المادة 31
 32. المادة 32
 33. المادة 33
 34. المادة 34
 35. المادة 35
 36. المادة 36
 37. المادة 37
 38. المادة 38
 39. المادة 39
 40. المادة 40
 41. المادة 41
 42. المادة 42
 43. المادة 43
 44. المادة 44
 45. المادة 45
 46. المادة 46
 47. المادة 47
 48. المادة 48
 49. المادة 49
 50. المادة 50
 51. المادة 51
 52. المادة 52
 53. المادة 53
 54. المادة 54
 55. المادة 55
 56. المادة 56
 57. المادة 57
 58. المادة 58
 59. المادة 59
 60. المادة 60
 61. المادة 61
 62. المادة 62
 63. المادة 63
 64. المادة 64
 65. المادة 65
 66. المادة 66
 67. المادة 67
 68. المادة 68
 69. المادة 69
 70. المادة 70
 71. المادة 71
 72. المادة 72
 73. المادة 73
 74. المادة 74
 75. المادة 75
 76. المادة 76
 77. المادة 77
 78. المادة 78
 79. المادة 79
 80. المادة 80
 81. المادة 81
 82. المادة 82
 83. المادة 83
 84. المادة 84
 85. المادة 85
 86. المادة 86
 87. المادة 87
 88. المادة 88
 89. المادة 89
 90. المادة 90
 91. المادة 91
 92. المادة 92
 93. المادة 93
 94. المادة 94
 95. المادة 95
 96. المادة 96
 97. المادة 97
 98. المادة 98
 99. المادة 99
 100. المادة 100

١٠٠٠

[Signature]

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

مستوى

لرسم وانكشافات المنطقة
والطريق العامة المقترحة في المنطقة
من 388+200 إلى 388+300

مخطط انكشافات المنطقة
والطريق العامة المقترحة في المنطقة
من 388+200 إلى 388+300

مستوى



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 the planned time shown

Contractor Company	Dream Way COMPANY : م.ع.د. 39050			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 م					
Received by GARB CONSULTANT	Eng. Mazen Esamy	UIR	C2	C3	DD	MM	YY	HH	MM
	388	EW	CS	13	11	22	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 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 CIVECON GROUP.	
POINT OF SHEET	MIR (S5-B-DW-FDT-4)	-TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON 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-Aa Built (-1.25) fill layer coordinates , Elevations , Width

Comments by:Eng. Mostafa royad (SPECTRUM)	Comments by:Eng. Alaa Abd-Allah (GARB)
 1- تم استلام المخطط المقترح 2- تم مراجعة شيفرة المتابعة	 1-coordinates & levels and width checked by GARB consultant

INSPECTION RESULT

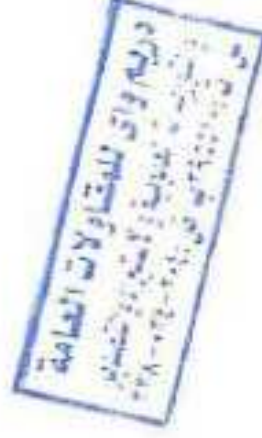
Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsayed Mohamed				A	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
GARB**	Eng. Margret magdy					
Employers Representative	Eng. Alaa Abd-Allah				A	

Contractor	  		Serial No. IR-5(07)
	 		Date 13/11/2022
	طلب أداء عمل Electrical Express Train from Harg Alarab to Jomrah From Station 388+00 To Station 389+00		
	Works Inspection Request		
We request your attendance to inspect the following works:			
Discipline : ☐ Geotech/Proctor ☐ Station ☐ Drainage ☒ Survey			
Location :		Zone Drainway	Level -1.25
References:		Drawing: EET-BORG EL ARAB REV 29 Plan Profile Specification EETVL 1 Earthworks specifications and testing report	
Purpose of the inspection			
☐ Surveying ☐ Setting out ☒ Level ☐ Visibility			
Attachments			
3- master sheet for cut 105 REM29		2-daylight coordinates	
3- AS BUILT SHEET FOR WORKING		4- Master sheet for fill row 29	
Works To be Inspected			
SOIL LAYER AT (-1.25) FROM PERMA LEVEL FROM 388+640 TO 389+700			
Submitted by: <u>Dr. M. M. M. M.</u> Signature: <u>Dr. M. M. M. M.</u>			
Date of inspection: / /			
Surveying Consultant Engineer's Comments :			
Lengths matching the attached master sheet, which approved by SPECTRUM			
The works are : ☐ Approved (A) ☐ Approved as noted (B) ☐ Rejected (C) ☐ Rejected (D)			
Name: <u>Mazen Gamy</u> Signature: <u>Mazen Gamy</u>			
GARP Consultant Engineer's Comments :			
Date of inspection: / /			
The works are : ☒ Approved (A) ☐ Approved as noted (B) ☐ Rejected (C) ☐ Rejected (D)			
Name: <u>Mazen Gamy</u> Signature: <u>Mazen Gamy</u>			
General Consultant's Comments:			
1- BMS levels & additional Master sheet checked by GARP Consultant but Xsec / 20m must be approved from SPECTRA			
2- Final approval is subject to above mentioned comments			
The works are : ☐ Approved (A) ☐ Approved as noted (B) ☐ Rejected (C) ☐ Rejected (D)			
Name: <u>Ali Alkellat</u> Signature: <u>Ali Alkellat</u>			
GARP Engineer's Comments:			
Date: 13/11/			
Name: Signature:			
GARP Eng.			

[illegible]

Dream Way width according to rev 29 (17-10-2017)									
Station	Left		X Left	Y Left	CL		Right		total width
	Offset				N	E	Offset		
388+640.00	-12.9		427,449.40	900,053.46	900,066.6423m	427,454.5060m	6.67		19.57
388+660.00	-13.02		427,430.83	900,060.87	900,073.8612m	427,435.8543m	6.67		19.69
388+680.00	-13.28		427,412.25	900,068.29	900,081.0802m	427,417.2026m	10.074		23.354
388+700.00	-13.704		427,393.60	900,075.52	900,088.2991m	427,398.5509m	11.876		25.58

مبداً كافي



Levels Of Layer (-1.2%) From F.L. (From 388+640 to 388+700)												
Station	Left Side				C.L	Right Side				Right Width	SLOPE%	
	SLOPE %	Left Width	Level			4	8	12	Level			
388+640 قراءة القامة	2%	12.90	6.960	7.138	7.218	7.138	7.058	6.978	7.085	6.67	2%	
الفرق					+1							
388+660 قراءة القامة	2%	13.02	6.961	7.141	7.221	7.141	7.061	6.981	7.088	6.67	2%	
الفرق			-1									
388+680 قراءة القامة	2%	13.28	6.957	7.143	7.223	7.143	7.063	6.983	7.032	10.07	2%	
الفرق												
388+700 قراءة القامة	2%	13.70	6.951	7.145	7.225	7.145	7.065	6.985	6.987	11.88	2%	
الفرق			-1									

عبدالرحمن عاصم



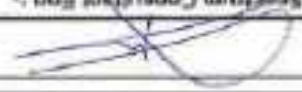
 Electrical Express Train from Bengaluru to Alwartha From Station 388+000 To Station 389+000 Date: 21/11/2022		Serial No. FDT (15)
Material Inspection Request		
We request your attendance to inspect the following works :		
Discipline : ☐ Material Handling ☒ Road Density Test ☐ Other Test		
Location :		Zone
References		IR- Survey No. 15
Purpose of the Inspection		1- F.D.T result ASTM D 1586 2- Master Sheet 3- Previous Surveying IR 0 4- Previous F.D.T. No. 0 Works To be Inspected Compaction test result (388+200 to 388+300) Layer (-1.75)
Attachments		
Purpose of the Inspection ☒ 1. Earthworks ☐ Minor Sub-Grade ☐ Minor Embankment ☐ Minor Cut-Back ☐ Minor Sub-Grade ☐ 2. Pavement ☐ Minor Sub-Grade ☐ Minor Embankment ☐ Minor Cut-Back ☐ Minor Sub-Grade		
1- F.D.T result ASTM D 1586 2- Master Sheet 3- Previous Surveying IR 0 4- Previous F.D.T. No. 0 Works To be Inspected Compaction test result (388+200 to 388+300) Layer (-1.75)		
Submitted by:		Dream way
Name:		Name:
Signature:		Signature:
Date of Inspection:-		Date of Inspection:-
GARP Consultant Engineer's Comments:		GARP Consultant Engineer's Comments:
The works are :		The works are :
Name:		Name:
Signature:		Signature:
Date:-		Date:-
GARP Engineer's Comments:		GARP Engineer's Comments:
Name:		Name:
Signature:		Signature:
Date:-		Date:-
General Consultant Eng.		General Consultant Eng.

Contractor

Consultants

(1) Two sample was selected for (F.D.T)
 Sand cone test was carried out by centre for road GARP consultant
 its attached and found acceptable completely with other test
 confirmed approval is subject to above mentioned comments.

- Its Compaction test result (4.0-7) is OK

    	
Electrical Express train from Borg Al arab to Almaten	
DREAM WAY FROM 388+000 TO 389+000	
Activity : Earth Work	Lab Testing Results
Date : 21/11/2022	
Density and Unit Weight of Soil in Place by the Sand-Cone Method – ASTM D 1556	
Company:	Dream Way
Description :	IR-5(15)
Station Represented :	(388+200) (388+300)M-1.75
Modified Proctor Testing Results	
Max. Dry Density, g/cm ³	2.09
Optimum Moisture Content, %	7.9
Degree of Compaction Required, %	95%
Bulk Density of Specified Sand, g/cm ³	1.430
Compaction Testing Results & Calculations	
Hole No.	1
Station	388+250
Wt. of Sand before Test, gm	9485
Wt. of Sand After Test, gm	6030
Wt. of Sand in Cone + hole, gm	3859
Wt. of Sand in Cone	1482
Wt. of Sand at hole, gm	2377
Volume of the Hole, cm ³	1562
Wt. of Soil from Hole, gm	3527
Bulk Density of Soil, g/cm ³	2.122
Moisture Content, %	9.0
Dry Density, g/cm ³	2.002
Compaction, (%)	98.2%
Acceptance Criteria	
Comply	Not Comply
CONSULTANT COMMENTS	
Lab Contractor Eng.:- 	
Spectrum Consultant Eng.:- 	

[illegible]

		Material Inspection Request We request your attendance to inspect the following works :	
		Disfigure : ☐ Partial surface ☒ Full surface ☐ Full and sub	
Location :		References	
Zone From Station 388+300 To Station 388+400		IR- Survey No. 0 Specification: SST LX.1 Earthwork Specifications and Testing Report	
Purpose of the inspection		Attachments	
☐ 1. Earthwork ☐ Natural Soil Compaction ☐ Subgrade ☐ Layer Enhancement ☐ Slope ☐ L/H Enhancement ☐ Excavation		1- F.D.T result ASTM D 1556 2- Header Sheet 3- Previous Surveying IR 0 4- Previous F.D.T. No. 0	
Works To be Inspected Compaction test result (388+300 to 388+400) Layer (-1.5)		Submitted by: _____ Dream way _____ Name: _____ Signature: _____ Date of inspection: _____	
Contractor			
General Consultant's Comments: The Engineer has approved the work.			
GARP Consultant Engineer's Comments: The Engineer has approved the work.			
General Consultant's Comments: The Engineer has approved the work.			
GARP Engineer's Comments: The Engineer has approved the work.			
Name: _____ Signature: _____ Date: _____			
Name: _____ Signature: _____ Date: _____			
Name: _____ Signature: _____ Date: _____			
Name: _____ Signature: _____ Date: _____			

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

Lab Contractor Eng.:-		Spectrum Consultant Eng.:-	
CONSULTANT COMMENTS			
Acceptance Criteria		Comply ☐ Not Comply ☐	
Compaction Testing Results & Calculations			
Hole No.	1	2	
Surfaces	386+350	388+400	
Wt. of Sand before Test, gm	8276	8608	
Wt. of Sand After Test, gm	5553	5238	
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	3166	3030	
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%	95.4%	
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			1.430
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 Almahin			
Date 16/11/2022			

MATERIAL INSPECTION REQUEST



الهيئة العامة
للمرور والكباري
(GARF)



الهيئة العامة
للمرور والكباري
(GARF)



الهيئة العامة
للمرور والكباري
(GARF)



Contractor Company	Dream Valley Company		Designer Company	(SPECTRUM) Consulting Office			
Issued by Contractor	Name	Eng. ELsaeed Mohamed	Date/Serial Number	19/11/2022			
	Sign		(S5-B-DW) FDT(13)	10:00 AM			
Received by GARF CONSULTANT	Eng. Mazen Esamy		MAR	388	EW	CS	20
				11	22	10	00

Station Reference	Station Reference	Export Reference	By XXX Name
	Station Reference	Export Reference	For IGlester point only Start Km is used
Work Activity	Work Activity		
Sub Element of Activity	Sub Element of Activity		

Description of Materials	FILL LAYER(-1.00)		
Location to be Used	From	388+640 388+823.86	TO 388+700 388+883.86
MAR & UIR Approval No	S5-B-DWR-S(13)	Date	19/11/2022
	M.A.R.(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 CMECON 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 GARF Consultant
	2-Results report attached and acceptable with project specifications.



APPROVAL STATUS				
Organisation	Name	Sign	Date	A-RWC-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

* Design
** Alignment/Bridges, Culverts only



Serial No.
FDY
(13)



مكتب أحمد خليل
Electrical Express Train From Borg Al Arab to Alamein
From Station 388+000 To Station 388+000



Date
21/11/2022

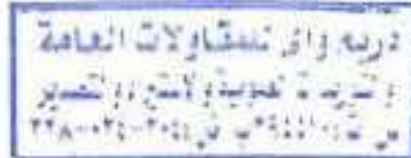
Material Inspection Request

We request your attendance to inspect the following works :

Discipline :	☐ Material submittal	☒ Test Empty Test	☐ Plus load test
Location :	Zone Dream way	From Station 388+640	To Station 388+700
References	IR- Survey No. 13	Level: -1.00	
		Specification: EET L1.1.Earthworks Specifications and Testing Report	

Purpose of the inspection

1. Earthworks
- ☐ Material Sub-Grade
 - ☐ Sub-Grade
 - ☐ Copper Embankment
 - ☐ Rollout
 - ☒ L / M Compaction
 - ☐ Gravel



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) ☐ Re-work Required (C) ☐ Rejected (D)

Name: Hazen Emmy
General Consultant's Comments:

Signature:

Date:

- 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 completely with Design
4) Final Approval is Subject to mentioned Comment.

The works are : ☐ Approved (A) ☒ Approved as Noted (B) ☐ Re-work Required (C) ☐ Rejected (D)

Name: Abu Abotellat
GARP Engineer's Comments:

Signature:

Date:

Name:

Signature:

General Consultant Eng.

GARP Eng.



Electrical Express train from Borg Al arab to Alamein

Activity : Earth Work

نطاق 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:	FDT 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	5124	4583						
Wt. of Sand in Cone + hole, gm	3636	3633						
Wt. of Sand in Cone	1330	1330						
Wt. of Sand in hole, gm	2306	2303						
Volume of the Hole, cm^3	1614	1610						
Wt. of Soil from Hole, gm	3481	3387						
Bulk Density of Soil, gm/cm^3	2.144	2.103						
Moisture Content, %	6.6	5						
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: رواتب الموظفين لا تغطي
الاحتياجات المالية المتوقعة
من ٢٠٢٢-٢٠٢٣

Description of Materials		FILL LAYER(-1.00)			
Location to be Used		From	388+900	TO	389+000
			389+083.86		389+183.86
MAR & UIR Approval No		S5-B-DW-IR-S(08)	Date	18/11/2022	
		MAR.(S5-B-DW-Q.T.-12-01)		27/10/2022	
Supplier Name		ELSEWY, DREAM WAY			
Test Requirement		F.D.T (ASTM D 1556)		Specification	
Reference Photos		No/Yes		Other	
		EARTHWORK SPECIFICATIONS & TESTING REPORT (0021-41.2) VERSION 2 BY CIVILCON GROUP			
Item	Description	Unit	Quantity	Arrival Date	Notes
1	SAND CONE TEST	NUMBER	2	15/11/2022	
2					
3					
4					

2-Results report attached and acceptable with project specifications

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. ELsaeed Mohamed		15/11/2022	A
QA/QC *	Eng. Mazen Esamy			A
SARB**	Eng. Margret			
Employers Representative	Eng. Alaa Abd-Alattif			A
Designer				
Asymet Bridges Subcontract				



Serial No.
FDT
(08)



مكتب (أ) عبد النيل
Electrical Express Train From Borg Al Arab to Alamein
From Station 388+000 To Station 389+000



Date
15/11/2022

Material Inspection Request

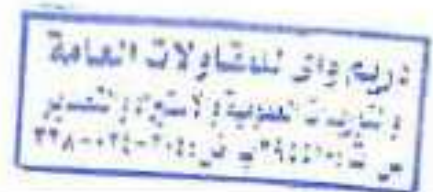
We request your attendance to inspect the following works :

Discipline : ☐ Material control ☒ Field Density Test ☐ Plate load test

Location :	Zone	From Station	To Station	Level
	Dream way	388+000	389+000	-1.00
References	IR- Survey No. 5		Specification: EET L1.1 Earthworks Specifications and Testing Report	

Purpose of the inspection

1. Earthworks
- | | |
|--|-------------------------------------|
| ☐ Natural Subgrade | ☐ Sub grade |
| ☐ Upper Embankment | ☐ Subcut |
| ☒ L / M 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 Approval (R) ☐ Rejected (R)

Name: Mazen Emmy

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 Proj spec.
- final approval is subjected to mentioned Comments

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

Name: Alan Abdelkader

Signature:

GARP Engineer's Comments:

Date: 16/11

Name:

Signature:

General Consultant Eng.

GARP Eng.

Contractor

Consultants



Electrical Express Train from Borg Al arab to Alamein

DREAM WAY FROM 388+000 TO 389+000

Activity : Earth Work

Lab Testing Results

Date

15/11/2022

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-5(08)	Layer Thickness:	FOF 8
Station Represented :	(388+900) (389+000)M-1.00	Sample Date :	15/11/2022

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
2.071	7.8	95%	1.430

Compaction Testing Results & Calculations

Hole No.	1	2						
Stations	388+950	389+000						
Wt. of Sand before Test, gm	6070	6004						
Wt. of Sand After Test, gm	6129	6013						
Wt. of Sand in Cone + hole, gm	3747	3771						
Wt. of Sand in Cone	1482	1402						
Wt. of Sand at hole, gm	2265	2289						
Volume of the Hole, cm ³	1554	1601						
Wt. of Soil from Hole, gm	3299	3306						
Bulk Density of Soil, gm/cm ³	2.076	2.122						
Moisture Content, %	5.0	0						
Dry Density, gm/cm ³	1.979	2.001						
Compaction, (%)	95.5%	96.8%						

Acceptance Criteria

Comply

Not Comply

CONSULTANT COMMENTS

Lab Contractor Eng.:-

Spectrum Consultant Eng.:-

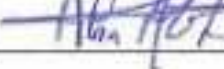
مركز دراسات وبحوث الطرق
الهندسة المدنية والاساسات
مركز دراسات وبحوث الطرق
228-02-00

Contractor Company	Dream Way	Designer Company	SPECTRUM ENGINEER CONSULTING OFFICE												
Issued by Contractor	Name: Eng. SAIED MOHAMMED	Date/Serial Number: 16/1/2023 (S5-B-DW) (P.L.T.07)	Time: 10:00 AM												
Received by GARB CONSULTANT	Eng. MAZEN ESSAMY	MIR	<table border="1"> <tr> <th>NO</th><th>PK</th><th>TH</th><th>MM</th></tr> <tr> <td>388</td><td>EW</td><td>CS</td><td>17</td></tr> <tr> <td>1</td><td>2023</td><td>10</td><td>0</td></tr> </table>	NO	PK	TH	MM	388	EW	CS	17	1	2023	10	0
NO	PK	TH	MM												
388	EW	CS	17												
1	2023	10	0												

Code	Station Reference	Work Activity	Sub Element of Activity
000-1	51 to 52	51 to 53	No XXX Note
000-2	Station Reference	Desert Reference	For Kilometer pole only Start Km is used

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 (CS21-41.2) VERSION 2 BY OVERCON 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/Signature only

شركة المصمم والمقاول العامة
التقنية والهندسية
م.ن. ٢٩٨ - ٢٩٩ - ٣٠٠

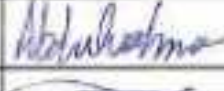
Contractor Company	AlMotahada 2 CO. for Contracting and Paving Roads	Designer Company	(SPECTRUM) Engineering Consulting Office
Issued by Contractor	Name	Sign	Date/Serial Number
	Eng. Abdelrahman Ataf		17/1/2023 PL7005
Received by GARB CONSULTANT	Eng. Mazen Essawy	Sign	Time
		MR	3:00 PM

1000+1	31 to 323	01 to 33	KmXXX Note
1000+2	Station Reference	Diput Reference	For Kilometer point only Start Km is used
1000+3	Work Activity		
1000+4	Sub Element of Activity		

Location to be Used	From	383+200	TO	388+300
MAIL		Date	15/1/2023	
Supplier Name	ELSEWY , Dream way			
Test Requirement	PLATE LOAD TEST	Specification	GARBWORK SPECIFICATIONS & TESTING REPORT (CR23-41.2) VERSION 2 BY QVECON GROUP	
Reference Photos	No/yas	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 Essawy (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-II
Contractor	Eng. Abdelrahman ataf			A
QA/QC *	Eng. Mazen Essawy			A
GARB**	Eng. Mohammed Fayad			
Employers Representative	Eng. Alaa Abd-Allah			

* Designer

** Alignment/Bridges: Civilian only

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

مركز البحوث والدراسات
الهندسية والبيئية
بمصر
١٩٨٥ - ٢٠٢٣

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

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

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/cm^2
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

أرشد وائل للمقارلات الخاصة
والتي هي من المهندسين والتجار
بمصر ٢٠٢٣ - ٢٠٢٤ - ٢٠٢٥

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

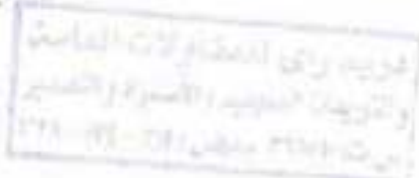
Evaluation and representation of results

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
 شارع الملك الأفندي - القاهرة





Company Name : dream Way Co.
Project : Electric Express Train, from Borg El 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	0.39
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	19.45	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	0.625	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)

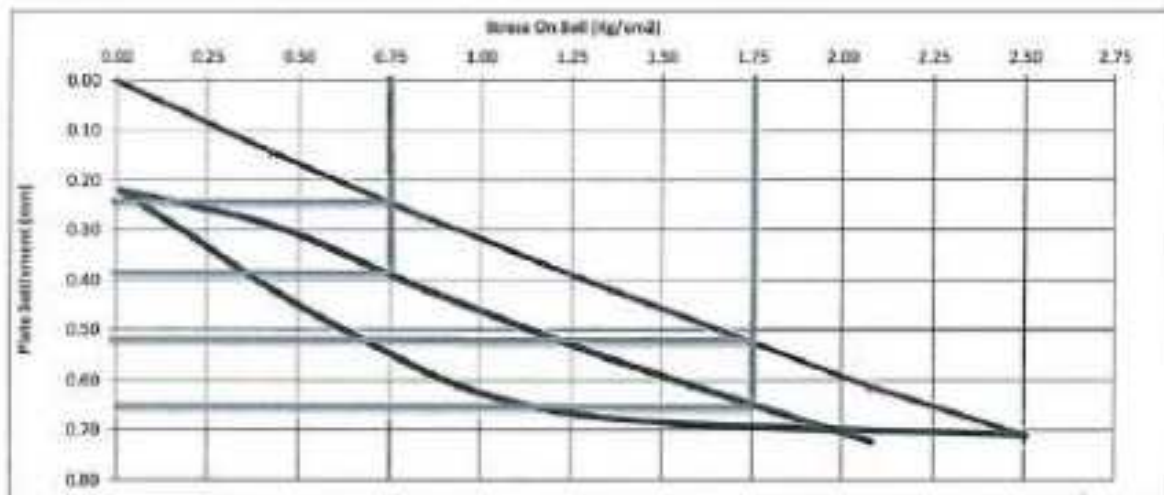
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.67	0.33	19.68	0.32	19.78	0.22	0.29
1	0.83	19.56	0.44	19.54	0.46	19.66	0.34	0.41
2	1.25	19.45	0.55	19.42	0.58	19.54	0.46	0.53
3	1.67	19.35	0.65	19.32	0.68	19.44	0.56	0.63
4	2.08	19.25	0.75	19.22	0.78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



DIN 18134





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	19.43	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)

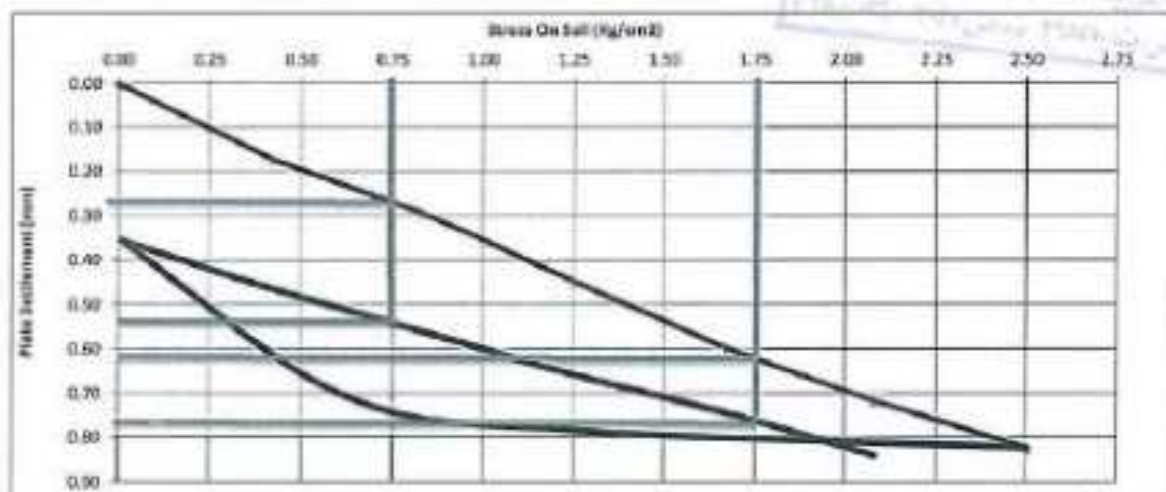
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.46	0.54	19.50	0.50	19.65	0.35	0.46
1	0.83	19.40	0.60	19.41	0.59	19.51	0.49	0.56
2	1.25	19.34	0.66	19.32	0.68	19.37	0.63	0.66
3	1.67	19.23	0.77	19.23	0.77	19.31	0.69	0.74
4	2.08	19.12	0.88	19.10	0.90	19.26	0.74	0.84
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature



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	1768	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) =	0.70	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 0.3 and 0.7 from the maximum loading (mm)

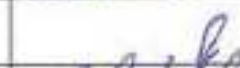


Contractor Company	Dream Way for construction			Designer Company				SPECTRUM			
Issued by Contractor	Name	Sign		Date/Serial Number				Time			
	Eng. ElSaeed Mohamed	26/10/2022				10:00 AM					
		(SS-B-DW) (P.L.T.01)									
Received by GSB CONSULTANT	Eng. Mazen Esamy		MR	C1	C2	C3	DD	MM	YY	DD	MM
				25	14	13	27	10	22	10	8

CIVIL	SI to S21	SI to S3	EP 300 Note
	Station Reference	Depot Reference	For Kilometer point only Start Km is used
WORK	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		مهاجر السيوي - العين				
Test Requirement		P.L.T (DIN 18134)		Specification	SAMI HWORK UNIFORMATIONS & TESTING REPORT (CS2)-4L2) VERSION 2 BY CNECON 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 (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
GAB**	Eng. Margret magdy			
Employers Representative	Eng. Alaa Abd-Allah			A

* Designer

** Alignment/Bridges/Culverts only



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



Serial No.
PLT
(1)



مكتب أحمد 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 L.L.L. Earthworks Specifications and Testing Report		

Purpose of the inspection

1. Earthworks

- | | |
|--|--|
| ☐ Natural Sub Grade | ☐ Sub Ballast |
| ☐ Upper Embankment | ☐ Ballast |
| ☐ L / M 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:

GARP Consultant Engineer's Comments :

Date of Inspection: / /

The plate load test result by third party is acceptable

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

Name: Mazen Gamy

Signature:

General Consultant's Comments:

Date: / /

- (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 (R) ☐ Rejected (R) ☐ Rejected (R)

Name:

Signature:

GARP Engineer's Comments:

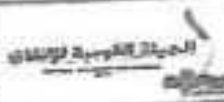
Date: 30/10/22

Name:

Signature:

General Consultant Eng.

GARP Eng.



Serial No.
SM-7(02)

ملف رقم 100
Revised Design from King Fahd Road to Al-Madina
From Station 388+00 to Station 388+620



Date
18/10/2022

Works Inspection Request

We request your attendance to inspect the following works:

Discipline:	☐ Drainage/Retention	☐ Bridge	☐ Tunnel	☐ Sewer
Location:	Zone	From Station	To Station	Length
	Expressway	388+720	388+830	6.70 كم / 4.16 ميل
Reference:	Drawing: 021-0000 25, 021-0001 30 Plus Profile			
Purpose of the inspection:	Specifications I.C.I. and works specifications and testing report.			

Attachment:

1- master sheet for cut for RCV20

2- daylight coordinator

3- As-built levels

4- PLAN

Works to be inspected

AS BUILT FILTER LAYER FROM STATION 388+720 TO 388+830

Submitted by: Dr. Osama

Signature: [Signature]

Date of Inspection: 1 / 1

Remarks/Consultant Engineer's Comments:

The works are: ☐ Approved (A) ☐ Approved with (R) ☐ Rejected (R) ☐ Rejected (R)

Name: Mohamed Mursun

Signature: [Signature]

Date of Inspection: 1 / 1

Remarks/Consultant Engineer's Comments:

The works are: ☐ Approved (A) ☐ Approved with (R) ☐ Rejected (R) ☐ Rejected (R)

Name: Hazen Erany

Signature: [Signature]

Date: 1 / 1

Remarks/Consultant Engineer's Comments:

The works are: ☐ Approved (A) ☐ Approved with (R) ☐ Rejected (R) ☐ Rejected (R)

Name:

Signature:

Date: 1 / 1

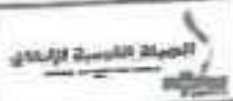
Remarks/Consultant Engineer's Comments:

Name:

Signature:

CRSP Eng.





Serial No.

10-2(03)

Date

11/10/2022

الهيئة العامة للطرق والمواصلات
General Authority of Road and Transport
Ministry of Transport and Public Works



Works Inspection Request

We request your attendance to inspect the following works:

Discipline:	☐ Highway	☐ Water	☐ Drainage	☐ Tunnel
Location:	Area	From Station	To Station	Level
	Stationing	200+000	300+000	0.70

Reference: Drawing: 100-0000 SL 0000 REV 01 Plan Profile

Purpose of the inspection

☒ Surveying☐ Design☐ Test☐ Material

Attachments:

1- as-built plan for the works

2- as-built elevation

3- As-built levels

4- PLAN

Works to be inspected

AS BUILT FILTER LATCH FROM STATION 200+000 TO 300+000

Submitted by:

Owner

Signature:

Date of inspection:

Spectrum Consulting Engineer's Certificate

The works are:

☐ Approved (A)☐ Approved with (B)☐ Approved with (C)☐ Approved with (D)Name: Mohamed Khusair
SARF Consultant Engineer's Certificate

Signature:

Date of inspection:

The works are:

☐☐☐☐Name: Mazen Gham
General Consultant's Certificate

Signature:

Date:

The works are:

☐☐☐☐Name: SARF Engineer's Certificate

Signature:

Date:

Name:

Signature:

SARF Eng.



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

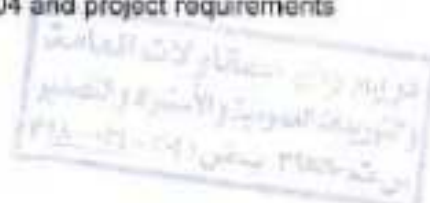
Test Location: Station 388+500 to 389+000.

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

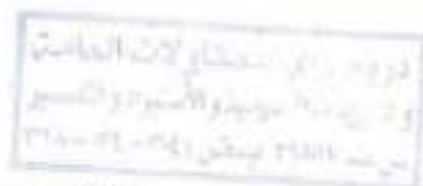
Test Procedure

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).

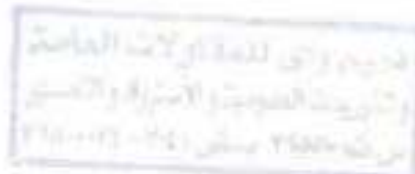
Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Sunny
- Plate Diameter (mm)	600
- date of measurement	27/10/2022
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

Evaluation and representation of results

Test No.	Station		First Cycle	Second Cycle	E_{v2}/E_{v1} Ratio	Remarks
	From	To	$E_{v1} \text{ (kg/cm}^2\text{)}$	$E_{v2} \text{ (kg/cm}^2\text{)}$		
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 / 
 مكتب معامل الاستشارات الهندسية
 الاستشارات الهندسية
 رقم الترخيص ٢١٣ - ٥٠١ - ٥٠٧
 القاهرة - الجيزة - ١١٩٠٠٠٠





Company Name : شركة تريم واي
Project : Electric Express Train, from Al Ain Sekhna 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	17.59	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	17.95	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]

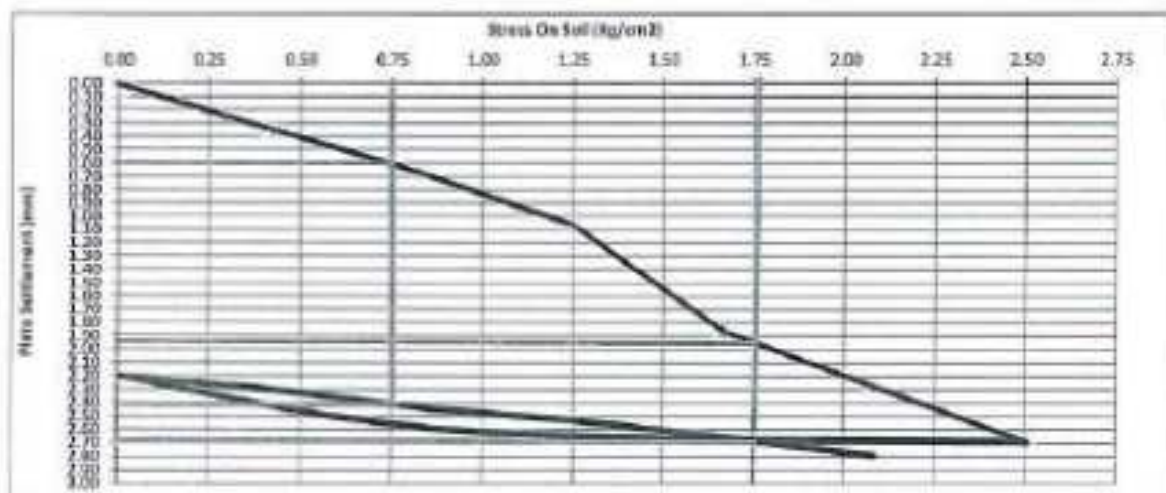
Signature



Company Name : شركة فريم وان
Project : Electric Express Train, from Al Ain Sokhna to Marsa 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

مركز فريم وان للاستشارات الهندسية
والإدارة الهندسية والبيئية
بمبنى 388+500 - 388+600
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	0.35	0.67	1.07	1.67	2.28	2.60

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)	2.60	2.65	2.52	2.20

D (mm) =	600	S1 (mm) =	0.60	S2 (mm) =	1.95	ΔS =	1.35
Ev1 (kg/cm²) =	$(0.75 \cdot D \cdot \Delta s) / \Delta S$						
	333						

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)	2.20	2.30	2.44	2.53	2.66	2.79

$Ev2/Ev1 = 4.5$

D (mm) =	600	S1 (mm) =	2.40	S2 (mm) =	2.70	ΔS =	0.30
Ev2 (kg/cm²) =	$(0.75 \cdot D \cdot \Delta s) / \Delta S$						
	1600						

Ev1 = Modules of deformation during the loading stage.
Ev2 = Modules of deformation during the Releasing stage.
D = Plate diameter (mm)
Ds = 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)

CEL
مكتب فريم وان للاستشارات الهندسية
Signature :
219 - 921 - 922
219 - 921 - 922





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/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	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	0.89
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/cm2	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/cm2	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	17.63	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!

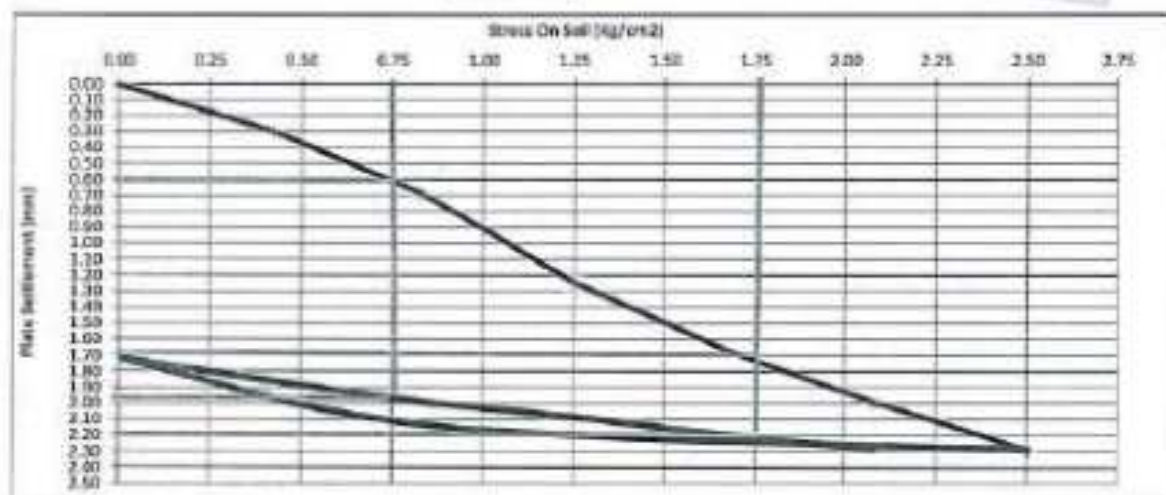
Signature

[Handwritten Signature]
مكتب معامل الاستشارات الهندسية
315 - 591 - 537
2840 - 2800 - 2811



Company Name : شركة مريم وان
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (S) - Alamein to Foka
Test Date : 27/10/2022
report date : 29/10/2022
Location : Station 358+600 to 358+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	0.60	1.00	1.34	1.67	2.20

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)	2.20	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 * Δs) / 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 * Δs) / ΔS	1800		

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

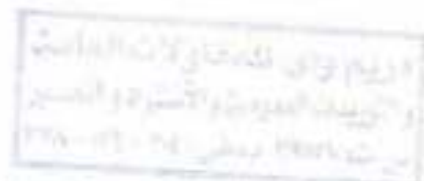
D = Plate diameter (mm)

S1 = The difference between 0.3 and 0.7 from the maximum loading (smax) (kg/cm²)

S2 = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

Signature : 
مكتب معمل الاستشارات الهندسية
219-301-5371
القاهرة - مصر





Company Name : شركة تريم 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+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	18.60	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



Company Name : شركة دريم واي
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+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	S1 (mm) = 0.60	S2 (mm) = 1.20	ΔS = 1.20
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	375		

Ev2/Ev1 = 4.0

Loading (2)	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

D (mm) = 600	S1 (mm) = 2.25	S2 (mm) = 2.50	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)

Signature: 
مكتب دريم واي للاستشارات الهندسية
القاهرة - الجيزة
219 - 557 - 557
219 - 557 - 557





Company Name : شركة دريم 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!

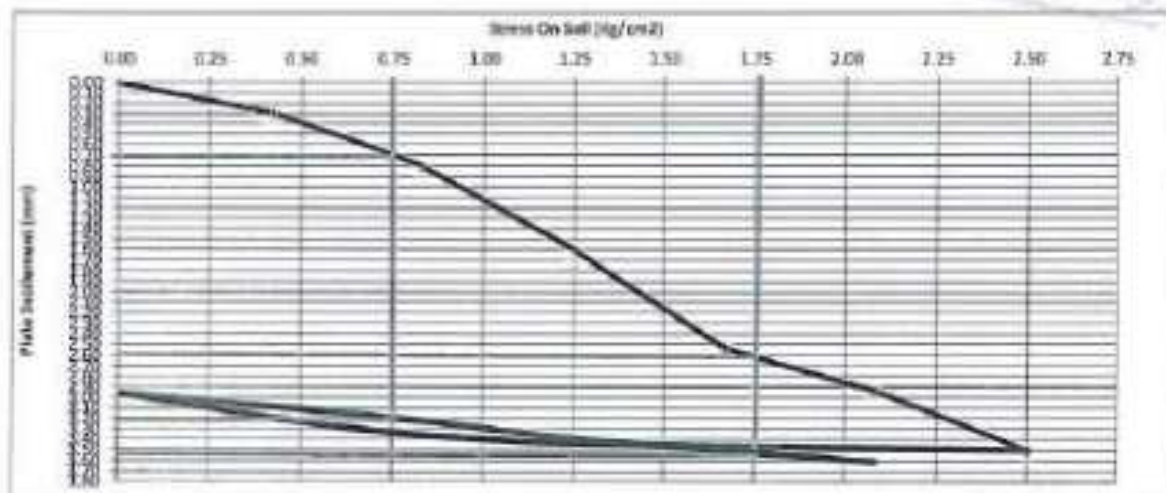
Signature \

Signature of the Engineer
مكتب معامل الاستشارات الهندسية
الاعتمادات المعتمدة
رقم التسجيل: 337 - 99
الشارع: 3 El Malek El Afdal Street
Zamalek, Cairo.



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) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	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) = 500	S1 (mm) = 3.29	S2 (mm) = 3.38	ΔS = 0.35
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta s) / \Delta S$	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 Matruh 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	19.30	0.70	19.33	0.67	0.72
3	1.25	18.80	1.20	19.03	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	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature \

مكتب معامل الاستشارات الهندسية
الاستشارات الهندسية
إمارة القاهرة
219 - 001 - 000
0000 - 0000 - 0000



Company Name : شركة فريم واي
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (S) - 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 (1)	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	0.57	0.72	1.10	1.72	2.23	2.50

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

D (mm) = 600	S ₁ (mm) = 0.70	S ₂ (mm) = 1.45	ΔS = 1.15
Ev1 (kg/cm ²) = (0.75*D ² *Δσ)/ΔS	391		

Ev2/Ev1 = 4.8

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)	2.07	2.17	2.29	2.41	2.53	2.63

D (mm) = 600	S ₁ (mm) = 2.39	S ₂ (mm) = 2.56	ΔS = 0.25
Ev2 (kg/cm ²) = (0.75*D ² *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 (σ_{max}) (kg/cm²)
ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)



Contractor Company	Dream Way for constructions		Designer Company	SPECTRUM							
Issued by Contractor	Name	Sign	Date/Serial Number	Time							
	Eng. ElSaeed Mohamed		6/11/2022 (55-B-DW) (P.L.T.02)	10:00 AM							
Received by GARB CONSULTANT	Eng. Mazen Esamy	Sign	NO	11	21	31	40	NW	TY	HT	MS
				234	EW	CS	7	11	22	32	0

CMT-1	33 to 323	08 to 53	10 to 300 hours
	Station Reference	Depth Reference	For Kilometer point only Start Km is used
FORM 2	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+683.86	
Supplier Name	محاجر السوي - العلمين				
Test Requirement	P.L.T (DIN 18134)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (0523-A1.2) VERSION 2 BY ONCCON 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	Note
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 (P.L.T. 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. Moustafa magdy			
Employers Representative	Eng. Alaa Abd-Allah			A

* Designer

** Alignment/Drillers Consultant

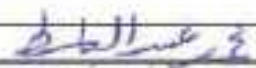
 Electrical Express Train From Barg Alarab to Alamein From Station 388+000 To Station 389+000	 الهيئة العامة للنقل	Serial No. PLT (2)
  مكتب (د) صناديق	 مكتب (د) صناديق	Date 7/11/2022

Material Inspection Request

We request your attendance to inspect the following works :

Discipline :	☐ Material submittal	☐ FIELD DENSITY TEST	☒ PLATE LOAD TEST
Location :	Zone Dream way	From Station 388+000	To Station 388+500
References	Specification: EET LL.1 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: 
GARP Consultant Engineer's Comments : The Plate Load Test result by third Party is approval	
Date of Inspection: 1 / 1 /	

The works are : ☐ Approved (A) ☐ Approved as noted (B) ☐ Rejected (C) ☐ Rejected (D)	Signature: 
Name: Mazen Esmay	Date: 1 / 1 /
General Consultant's Comments: (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 as noted (B) ☐ Rejected (C) ☐ Rejected (D) Name: Alaa Abdellatif Signature:  Date: 10 / 11 /	

Name: General Consultant Eng.	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

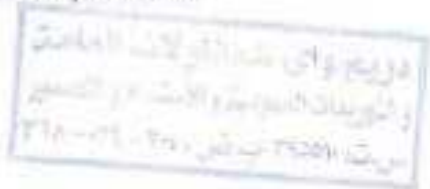
Test Location: Station 388+000 to 388+500.

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

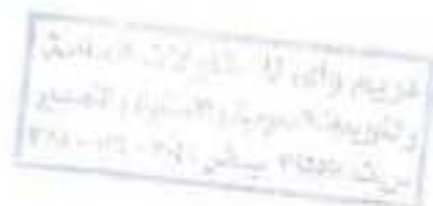
Test Procedure

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

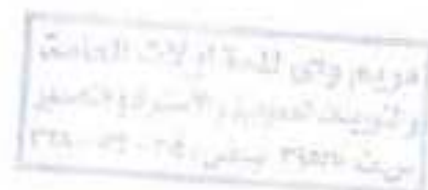
Evaluation and representation of results

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 محامل الاستشارات الهندسية
الاستشارات الهندسية
215 - 521 - 537
القاهرة - مصر





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/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	19.74	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	17.73	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/cm2	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	18.06	1.94	2.61
3	0.875	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)

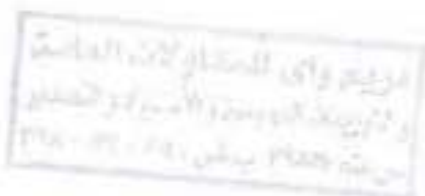
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.87	2.13	17.23	2.77	18.36	1.64	2.18
1	0.83	17.50	2.50	17.10	2.90	18.24	1.76	2.39
2	1.25	17.40	2.60	16.94	3.06	18.02	1.98	2.55
3	1.67	17.21	2.79	16.77	3.23	17.92	2.08	2.70
4	2.08	17.08	2.92	16.59	3.41	17.74	2.26	2.86
5	0.00	0.00	0.00	0.00	0.00	0.00		#REF!

Signature

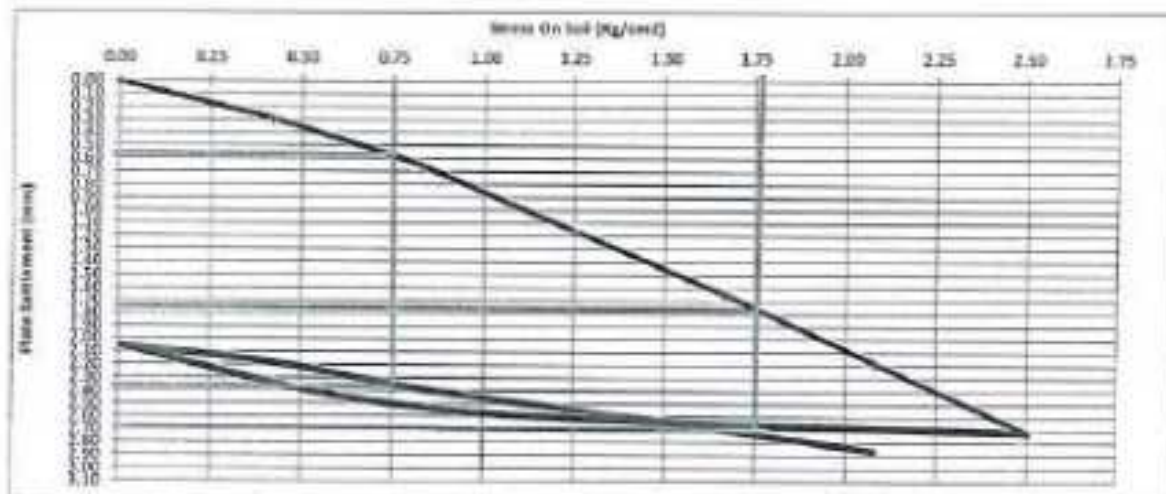
(Handwritten signature and stamp of CEL)



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



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1106.92	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) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	385		

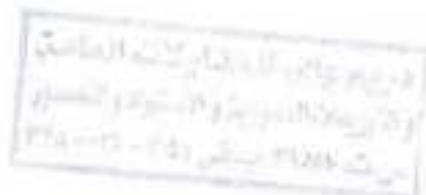
Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1106.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	2.06	2.18	2.39	2.55	2.70	2.86

D (mm) = 600	S1 (mm) = 2.38	S2(mm) = 2.73	ΔS = 0.35
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	1286		

Ev2/Ev1 = 3.3



Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the Re-loading stage.
D = Plate diameter (mm)
 $\Delta \sigma$ = The difference between 0.3 and 0.7 from the maximum loading (max) (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+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

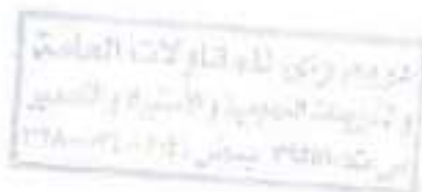
Loading Stage (2)

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

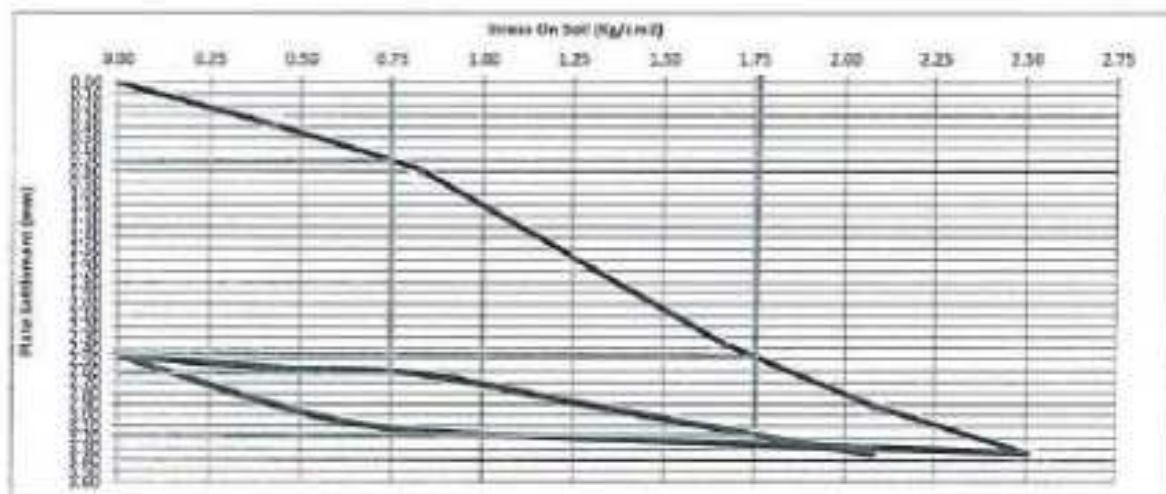
Signature



Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al Arab to Almain.
Test Date : 67/11/2022
report date : 69/11/2022
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	3.06	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

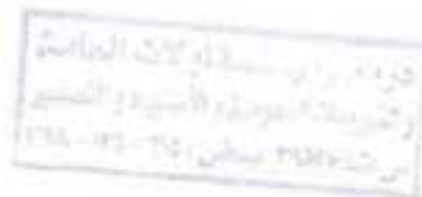
D (mm) = 600	S1 (mm) = 2.88	S2 (mm) = 3.39	ΔS = 0.66
Ev2 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta S) / \Delta S$	750		

$$Ev2/Ev1 = 2.9$$

Signature 1



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!

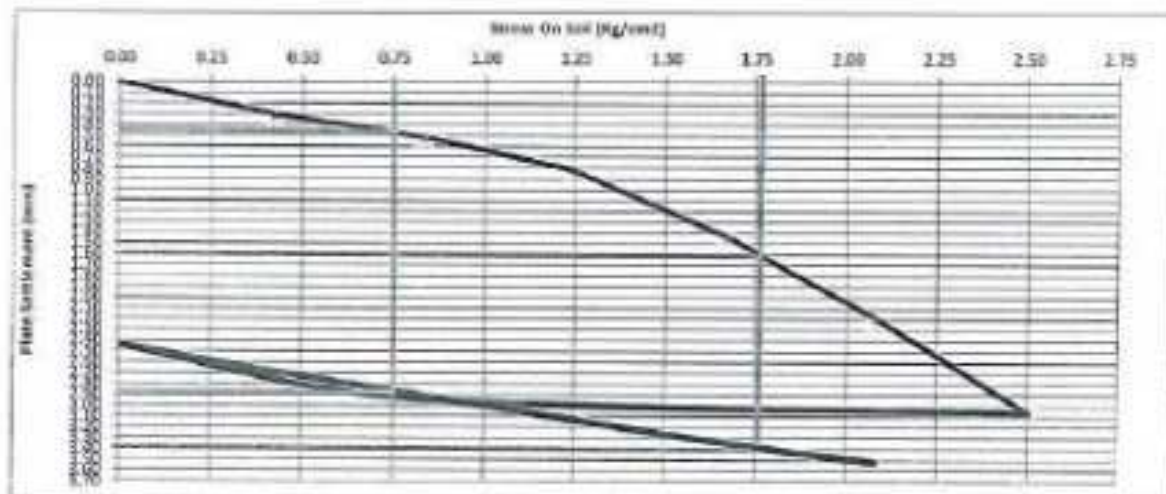
Signature



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

دوره ركني للتقنيات لاث المصنعة
والخدمات الهندسية والاستشارات
مركز 388+290 - 388+300
07/11/2022

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) = 1.50	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	2.65	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.

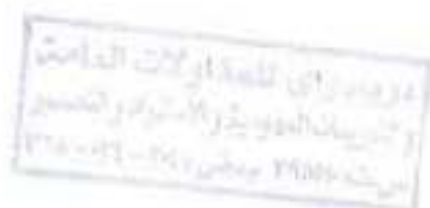
D = Plate diameter (mm)

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

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

Signature





Company Name : dream Way Co.
 Project : Electric Express Train, from Borg Al Arab to Alsmaln.
 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/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	19.77	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/cm ²	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	17.12	2.78	17.39	2.61	2.82
3	0.825	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/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	17.45	2.54	17.70	2.30	17.79	2.21	2.35
1	0.83	17.19	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

مكتب معمل الاستشارات الهندسية
 الاستشارات الهندسية
 رقم الترخيص: 29500-2019-01
 القاهرة - مصر



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 الاختبارات الهندسية
والتحليلات المعملية في
مكتب محامل الاستشارات الهندسية
تحت إشراف المهندس / محمد / ٢٠٢٢

**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	0.25	0.65	1.23	1.80	2.39	2.93

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)	2.03	2.82	2.01	2.22

D (mm) = 600	S1 (mm) = 0.60	S2 (mm) = 1.39	ΔS = 1.39
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	346		

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)	2.22	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		

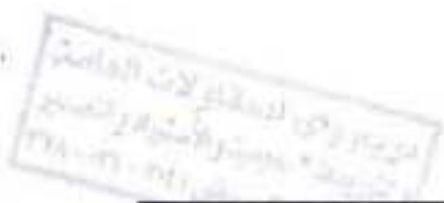
Ev2/Ev1 = 3.7

CEL
مكتب محامل الاستشارات الهندسية
التحليلات المعملية
Signature 1: 



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+400 to 388+500
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	20.09	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	19.09	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

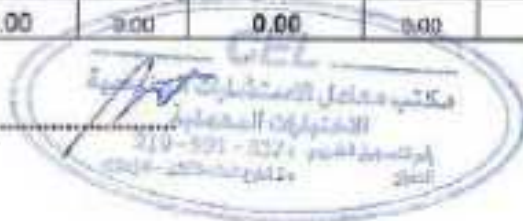
Unloading Stage (1)

Loading	Stress Kg/cm2	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/cm2	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!

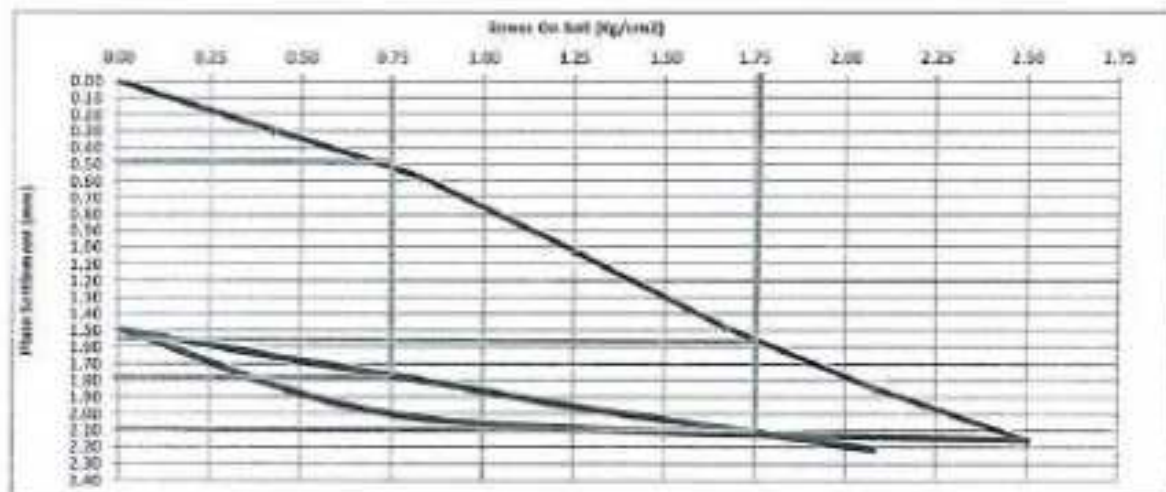
Signature \



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 (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	0.58	1.02	1.45	1.84	2.16

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)	2.16	2.09	1.95	1.50

D (mm) = 600	S1 (mm) = 0.50	S2(mm) = 1.55	ΔS = 1.05
Ev1 (kg/cm²) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	429		

Ev2/Ev1 = 3.3

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) = $(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$	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 ENGINEERING CONSULTING	ORIG	Time	10:00 AM
Issued by Contractor	Eng. SAIED MOHAMMED	Date/Serial Number	30/01/2023	(55-B-DW) (P.L.T.10)	10:00 AM	
Received by GAB	ENG. MAZEN ESSAMY	MR.				
		288	288	288	288	288
		EWI	EWI	EWI	EWI	EWI
		CS	CS	CS	CS	CS
		31	31	31	31	31
		1	1	1	1	1
		2023	2023	2023	2023	2023
		10	10	10	10	10
		0	0	0	0	0

55-B-DW	55-B-DW	55-B-DW	55-B-DW	55-B-DW	55-B-DW	55-B-DW
Station Reference	Design Reference	Design Reference	Design Reference	Design Reference	Design Reference	Design Reference
Work Activity	Work Activity	Work Activity	Work Activity	Work Activity	Work Activity	Work Activity
Sub Element of Activity	Sub Element of Activity	Sub Element of Activity	Sub Element of Activity	Sub Element of Activity	Sub Element of Activity	Sub Element of Activity

Description of Materials	FERMA	Location to be Used	REV. 29	388+000	TO	388+200	388+383.86
Supplier Name	Quality: 4500 MPa	Test Requirement	P.L.T (DIN 18134)	Specification	Other	55-B-DW-IR-5154	55-B-DW-QT(20-1)
Reference Photos	No/Yes	Unit	Quantity	Arrival Date	Note		
Item	Description	Unit	Quantity	Arrival Date	Note		
1	PLATE LOAD TEST	NUMBER	4	1/2/2023			
2							
3							
4							
Comments by: Eng. MAZEN ESSAMY (Spectrum)							
1- P.L.T was carried out by third party lab (CET).							
2- Results report attached and acceptable with project specifications.							
Comments by: Eng. Alno Abd-Alatif (CR)							
							

Organization	Name	Sign	Date	A-AWCR
Contractor	Eng. SAIED MOHAMMED			A
QA/QC	ENG. MAZEN ESSAMY			A
GAB	Eng. Marwan magdy			
Employer Representative	Eng. Alno Abd-Alatif			A
APPROVAL STATUS				

Contractor Company Dream way Company		Designer Company (SPECTRUM) Engineering Consulting Office	
Issued by Contractor Name: _____ Sign: _____ Date/Serial Number: 30/01/2023 Time: 3:00 PM		Received by GARB CONSULTANT Eng. Mazen Essamy Signature: _____ Date: 31/01/2023 Time: 12:00	
STATION REFERENCE P1 to P3 Depot Reference		Work Activity Sub Element of Activity	
CODE - 1		CODE - 2	
CODE - 3		CODE - 4	

Description of material		Location to be used		From	
PLATE LOAD TEST ON FERMA		38B+000		TO 38B+200	
Item	Description	Unit	Quantity	Arrival Date	Note
1	pit by consulting engineering		4		
2	turning/transportation				
Comments by: Eng. Mazen Essamy (SPECTRUM)					

The plate load test results of third party 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		APPROVAL STATUS	
Organization Name: _____ Sign: _____ Date: _____		Contractor Eng. Abdelrahman asaf Sign: _____ Date: _____	
QA/QC Eng. Mazen Essamy Sign: _____ Date: _____		GARB Eng. Mohamed Fayed Sign: _____ Date: _____	
Employer Eng. Alaa Abd-Alattar Sign: _____ Date: _____		Representative Eng. Alaa Abd-Alattar Sign: _____ Date: _____	

مكتب استشارات الهندسة
مكتب استشارات الهندسة
مكتب استشارات الهندسة

Company Name : dream Way Co.
Project : Electric Express Train, from Borg El 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	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

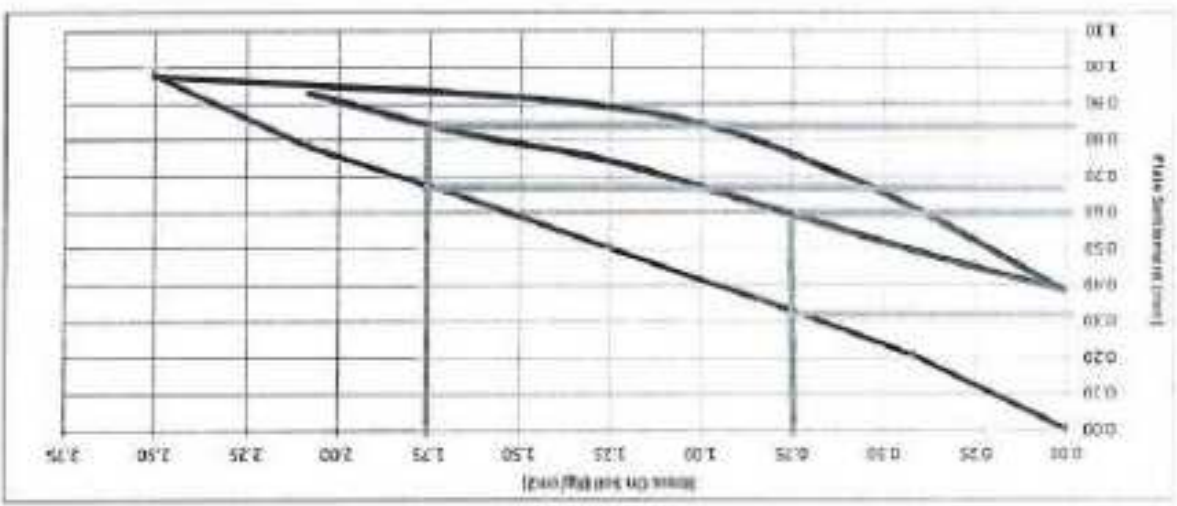


3 El Malek El Afdal Street
Zamalek, Cairo.
Tel & Fax : 27367231 - 27363093

www.cel-egypt.com
www.cel-egypt.com
www.cel-egypt.com

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

**Nonrepetitive Static 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	0.21
2	2345.6	0.83	0.30
3	3532.5	1.25	0.50
4	4719.4	1.67	0.65
5	5878.1	2.66	0.78
6	7065	2.50	0.86

D (mm) = 600	CV (kg/cm²) = (9.78*10⁻⁴)AS	SV (mm) = 0.22	SV (mm) = 0.68	AS = 0.36
--------------	-----------------------------	----------------	----------------	-----------

Loading (t)	Stage(Kg)	Stress (Kg/cm²)	Settlement (mm)
0	0	0.01	0.01
1	1186.92	0.42	0.09
2	2345.6	0.83	0.49
3	3532.5	1.25	0.62
4	4719.4	1.67	0.74
5	5878.1	2.08	0.82
6	7065	2.08	0.90

D (mm) = 600	SV (mm) = 0.60	SV (mm) = 0.82	AS = 0.22
--------------	----------------	----------------	-----------

E1 = Absolute of deformation during the loading stage.
E2 = Absolute of deformation during the Re-loading stage.
D = Difference between E2 and E1 from the maximum loading (mm)
D1 = Difference in settlements corresponding to E2 and E1 from the maximum loading (mm)



E2/E1 = 1.8

Unloading (t)	Stage(Kg)	Stress (Kg/cm²)	Settlement (mm)
4	0	0.01	0.01
3	1768	0.625	0.71
2	3533	1.25	0.88
1	7065	2.50	0.98
0	0	0.01	0.01

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

Company Name : dream Way Co.
Project : Electric Express Train, from Dong Ai Arab to Marsaba.
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	19.39	0.61	19.39	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	19.48	0.52	19.50	0.50	19.50	0.51
1	0.83	0.83	0.62	19.30	0.70	19.36	0.64	19.36	0.65
2	1.25	1.25	0.75	19.13	0.87	19.21	0.79	19.21	0.80
3	1.67	1.67	0.87	19.03	0.98	19.11	0.89	19.11	0.91
4	2.08	2.08	1.00	18.93	1.07	19.00	1.00	19.00	1.02



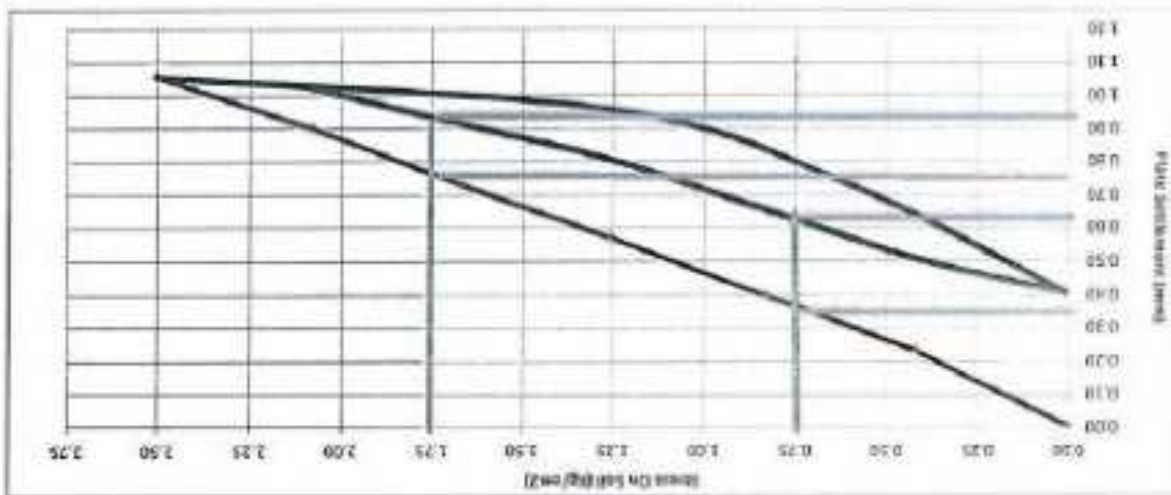
3 El Makk El Ahdal Street
Zamalek, Cairo,
Tel & Fax : 27367231 - 27363093

www.cel-egypt.com
تلفون : 27367231 - 27363093
البريد الإلكتروني : info@cel-egypt.com

Company Name
Project
Test Date
Report Date
Location
Test No.

: dream Way Co.
: Electric Express Train, from Borg Al Arab to Al-Mahala
: 31/01/2023
: 01/02/2023
: Station 388+050 to 388+100
: 06

Nonrepertive Static 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	2345.0	0.83	0.40
3	3532.5	1.25	0.57
4	4719.4	1.67	0.73
5	5878.1	2.08	0.80
6	7065	2.50	1.00

D (mm) =	600	51 (mm) =	35	52 (mm) =	4.25	AS =	0.40
----------	-----	-----------	----	-----------	------	------	------

EV1 (kg/cm²) = (6.75/D) * 0.50

Loading (t)	Stage(Kg)	Stress (kg/cm²)	Settlement (mm)
0	0	0.01	0.41
1	1186.92	0.42	0.51
2	2345.0	0.83	0.60
3	3532.5	1.25	0.81
4	4719.4	1.67	1.02
5	5878.1	2.08	1.02

D (mm) =	600	51 (mm) =	35	52 (mm) =	4.25	AS =	0.30
----------	-----	-----------	----	-----------	------	------	------

EV2 (mm) = (6.75/D) * 0.50

EV2 = modulus of deformation during the loading stage

EV2 = modulus of deformation during the unloading stage

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)

EV2 = (1/2) * difference between EV1 and EV2 from the maximum loading (mm)



Company Name : dream Way Co.
Project : Electric Express Train, from Berg Al Arab to Almaslin.
Test Date : 31/01/2023
report date : 01/02/2023
Location : Station 388+100 to 388+180
Test No. : 07

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading	Stress	Kg/cm2	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	15.88	19.75	0.12	19.82	0.18	19.79	0.21	0.17
2	0.83	19.75	19.75	0.25	19.70	0.30	19.65	0.35	0.30
3	1.25	19.64	19.64	0.36	19.69	0.31	19.53	0.47	0.36
4	1.67	19.51	19.51	0.49	19.58	0.42	19.40	0.60	0.50
5	2.08	19.40	19.40	0.60	19.44	0.56	19.29	0.71	0.62
6	2.50	19.28	19.28	0.72	19.25	0.75	19.10	0.90	0.79

Unloading Stage (1)

Loading	Stress	Kg/cm2	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	19.28	0.72	19.25	0.75	19.10	0.90	0.78	0.78
2	1.25	19.35	0.65	19.36	0.64	19.16	0.84	0.71	0.71
3	0.625	19.56	0.50	19.47	0.53	19.33	0.67	0.57	0.57
4	0.01	19.80	0.20	19.70	0.30	19.65	0.35	0.28	0.28

Loading Stage (2)

Loading	Stress	Kg/cm2	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	19.74	0.26	19.61	0.39	19.60	0.40	0.36	0.36
1	0.83	19.61	0.39	19.49	0.51	19.51	0.49	0.46	0.46
2	1.25	19.50	0.50	19.38	0.62	19.43	0.57	0.56	0.56
3	1.67	19.39	0.61	19.25	0.75	19.30	0.70	0.68	0.68
4	2.08	19.28	0.72	19.14	0.86	19.19	0.81	0.80	0.80



3 El Madak El Ahdal Street
Zamalek, Cairo.
Tel & Fax : 27367231 - 27363093



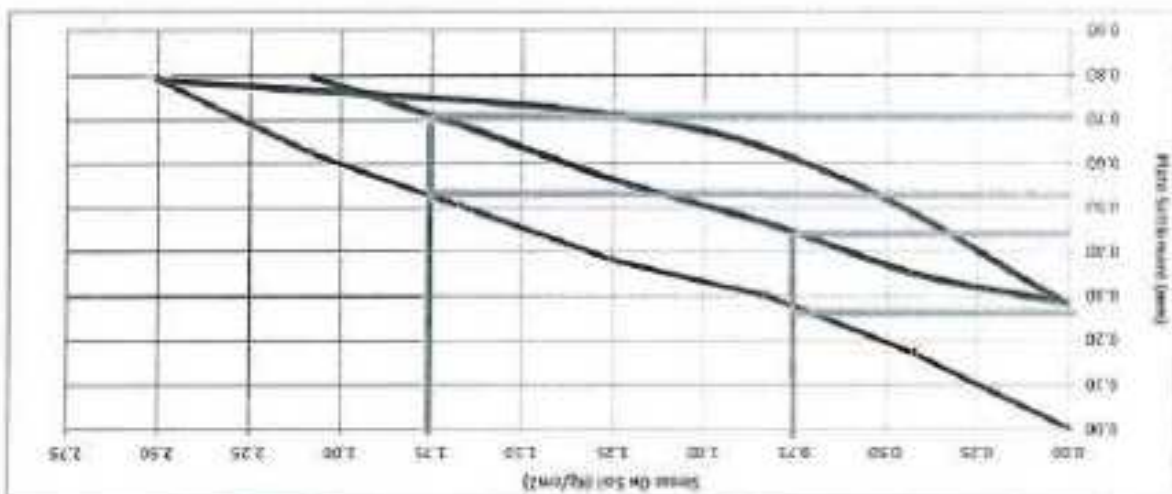
www.cel-egypt.com
www.cel-egypt.com
27367231 - 27363093
27367231 - 27363093

Company Name
Project
Test Date
Report date
Location
Test No.

: dream Way Co.
: Electric Express Train, from Borg Al Arab to Alaman.
: 21/01/2023
: 01/02/2023
: Station 388+100 to 388+150
: 07

مكتب استشارات الهندسة
مكتب استشارات الهندسة
مكتب استشارات الهندسة

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	0	1188.92	2345.6
1	7665	4719.4	3532.5
2	15330	9438.8	5878.1
3	22995	14158.2	8817.1
4	30660	18877.6	11756.1
5	38325	23597.0	14695.1
6	46000	28316.4	17634.1

Q (mm) = 600	Q1 (mm) = 571	Q2 (mm) = 542	Q3 (mm) = 513	Q4 (mm) = 484	Q5 (mm) = 455	Q6 (mm) = 426
--------------	---------------	---------------	---------------	---------------	---------------	---------------

Loading (t)	Stage (kg)	Stress (kg/cm²)	Settlement (mm)
0	0	1188.92	2345.6
1	7665	4719.4	3532.5
2	15330	9438.8	5878.1
3	22995	14158.2	8817.1
4	30660	18877.6	11756.1
5	38325	23597.0	14695.1
6	46000	28316.4	17634.1

Q (mm) = 600	Q1 (mm) = 571	Q2 (mm) = 542	Q3 (mm) = 513	Q4 (mm) = 484	Q5 (mm) = 455	Q6 (mm) = 426
--------------	---------------	---------------	---------------	---------------	---------------	---------------



EV2/EV1 = 1.0

Company Name : dream Way Co.
Project : Electric Express Train, from Borg Al 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	19.63	0.37	19.52	0.48	19.58	0.44	19.58	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	19.43	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	19.69	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



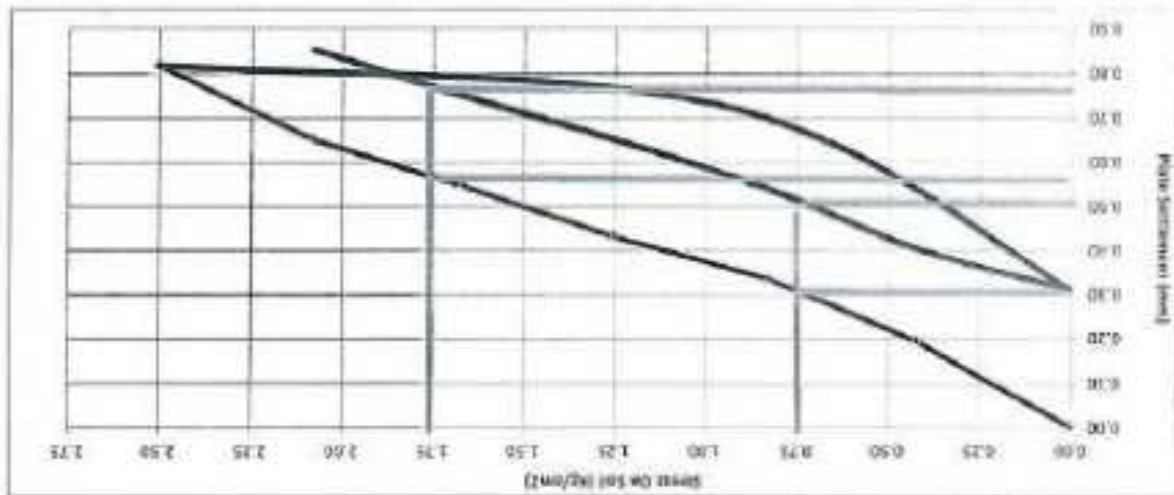
www.cel-egypt.com
القاهرة - الجيزة
27367231 - 27363093

Company Name
Project
Test Date
Report Date
Location
Test No.

: dream Way Co.
: Electric Express Train, from Berg Al Arab to Alamein.
: 31/01/2023
: 01/02/2023
: Station 358+150 to 358+200
: 06

مكتب مهندسين واستشارات الهندسة
www.cel-egypt.com

**Nonrepetitive Static 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	0.00
2	2345.6	0.83	0.10
3	3532.5	1.25	0.24
4	4719.4	1.67	0.43
5	5878.1	2.08	0.65

D (mm) = 600	St (mm) = 6.32	St (mm) = 6.58	AS = 0.34
--------------	----------------	----------------	-----------

Loading (t)	Stage (Kg)	Stress (Kg/cm²)	Settlement (mm)
0	0	0.01	0.01
1	1186.92	0.42	0.01
2	2345.6	0.83	0.04
3	3532.5	1.25	0.09
4	4719.4	1.67	0.23
5	5878.1	2.08	0.50

D (mm) = 600	St (mm) = 6.32	St (mm) = 6.58	AS = 0.34
--------------	----------------	----------------	-----------

EV2/EV1 = 1.8

Unloading (t)	Stage (Kg)	Stress (Kg/cm²)	Settlement (mm)
1	7065	3.533	0.62
2	1768	1.25	0.77
3	0	0.625	0.83
4	0	0.01	0.91

EV1 = modulus of deformation during the loading stage
EV2 = modulus of deformation during the Resolving stage
D = Plate diameter (mm)
St = The difference between 0.1 and 0.7 from the maximum loading (mm)
AS = Difference in settlement corresponding to 0.1 and 0.7 from the maximum loading (mm)



التقييم الفني

الهيئة العامة
للمرور والكباريت
(GARB)



مشروع : اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع
(العين السخنة -العاصمة الادارية -العلمين -عطروح) 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
الصائر من السيد عميد مهندس رئيس الإدارة المركزية / منطقة غرب الدلتا ومحضر الاستلام الابتدائي
للعملية المورخ في 2022/11/14 تم عمل التقييم الفني للعملية عاليه.

وقد اجتمعت اللجنة المشكلة من كلا من:

(رئيساً للجنة)	مدير عام المشروعات	1) المهندس/ محمد حسني فياض
(عضواً)	ممثل الهيئة	2) المهندسة/مارجريت مجدي
(عضواً)	معمل المنطقة المشرفة	3) المهندس/عبدالله عبدالمحسن
(عضواً)	مكتب: ميكترم (د عماد نبيل) استشاري الهيئة	4) المهندس/إمازن عصامي
(عضواً)	مكتب: (اكس واي زد) استشاري المساحة بالمشروع	5) المهندس/محمد خليل
(عضواً)	الشركة المنفذة دريم واي للمقاولات العامة	6) المهندس/ المسعد محمد

وبعد الإطلاع على محضر الاستلام الابتدائي للعملية وملفات التجارب العملية 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 % $0.05 \times 199979.82 = 9998.95$ 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 المقاولات العامة
التوريدات العمومية والإستشارات
الهندسية
6- السيد محمد المنصور
5- السيد محمد المنصور
4- السيد محمد المنصور
3- السيد محمد المنصور
2- السيد محمد المنصور
1- السيد محمد المنصور

رئيس الإدارة المركزية

منطقة غرب النيل

الإسكندرية - مرسى مطروح

عميد مهندس /

"هاني محمد محمود طه"

مشروع : اسناد اعمال الجسر الترابي والأعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - عطروح) لتنفيذ اعمال الجسر الترابي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 الى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم البند وبياناته : (1-10) بالمتر المكعب اعمال توريد وفرش طبقة قلتر من الاحجار الصلبة المتدرجة ناتج تكسير كسارات والمطابقة للمواصفات والمقياس حجم حبيبي ما بين 20 مم الى 75 مم والا يزيد نسبة المار من منخل 200 عن 5 % والتدرج الوارد بالاشراطات الخاصة بالمشروع وهي احجار من تجرية لوح التحميل عن 50 ميجاباسكال والا يزيد نسبة الفاقد EV2 مقياس من 1 : 2 : 4 او من 6 بنسبة 1:1:1 والا يقل معامل المرونة بجهاز لوس التجلوس عن 45% والفئة تشمل اعمال التجارب المعملية والبلند يشمل اجراء التجارب المعملية والحقلية طبقا لاصول الصناعة الممتازة وتقرير الاستشاري وتعليمات المهندس المشرف

السعر خلال شهر اكتوبر طبقا للمفاوضة بتاريخ 18/12/2023

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

الكمية	الأبعاد (متر)		الموقع الكيلومترى		التاريخ	رقم الطلب
	مساحة المقطع	طول	الى	من		
756.2	37.81	20	388+520	388+500	12/10/2022	IR-F(04)
10911	36.37	300	389+000	388+700	25/10/2022	IR-F(02) IR-F(03) IR-F(05)
11667.200	اجمالي الكميات خلال فترة المستخلص (م)					
14000.640	يوجد نسبة هالك لغرز وتداخل السن الخاص بالفلتر لم تحدد بها بنقدار 20% = المجموع الكلي للكمية المنفصلة 1.2%					
14000.640	الاجمالي الكلي (م) من شهر اكتوبر					

مهندس الهيئة

م / ماجريت مجدي



مهندس الاستشاري

مكتب XYZ

م / محمد خليل



مهندس الشركة

م / السيد محمد



مشروع : اسناد اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة -حط روج) لتنفيذ اعمال الجسر الترابي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 الى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم البلد وبيلتة : (1-10) بالمتر المكعب اعمال توريد وفرش طبقة فلتز من الاحجار الصلبة المتدرجة ناتج تكسير كسارات والمطابقة للمواصفات والقياسي حجم حبيبي فاين 20 مم ال 7% مم والا يزيد نسبة المار من منخل 200 عن 5 % والتدرج الوارد بالاشتراطات الخاصة بالمشروع وهي احجار من تجرية لوح التحميل عن 50 ميجاسكال والا يزيد نسبة القاطد EV2 مناس من 1 : 2 : من 4 او من 5 بنسبة 1:1:1 والا يقل معامل المرونة بجهز لوس انجلوس عن 45% والفلة تشمل اعمال التجارب المعملية والبلند يشمل اجراء التجارب المعملية والحقلية طبقا لاصول الصناعة المعتمدة وتقرير الاستشاري وتعليمات المهندس المشرف

السعر خلال شهر نوفمبر طبقا للمقاومة بتاريخ 18/12/2023

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

رقم الطلب	التاريخ	الموقع الكيلومترات		الابعاد (متر)		الكمية
		من	الى	طول	مساحة المقطع	
IR-F(08)REV2	6/11/2022	388+200	388+400	200	78.53	15706.000
15706.000	اجمالي الكميات خلال فترة المستخلص (م ³)					
18847.200	يوجد نسبة هالك لغرز وتدخل السن الخاص بالفلتز تم تحديدها بمقدار 20% = المجموع الكلي للكمية المنفذة 1.2					
18847.200	الاجمالي الكلي (م ³) حتى شهر نوفمبر					

مهندس الهيئة
م / مارجريت مجدي



مهندس الاستشاري
مكتب XYZ
م / م / م / م



مهندس الشركة
م / م / م / م



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 اتجاه الضبعة.

رقم الهند وبيانات (1-10) بالمار المكعب اعمال توريد وفرش طبقة فلتر من الاحجار الصلبة المتدرجة نالغ لكسير كسرات والمطابقة للمواصفات والقصى حجم حبيبي ما بين 20 مم الى 75 مم ولا يزيد نسبة المار من متخل 200 عن 5 % والتدرج الوارد بالاشتراطات الخاصة بالمشروع وهي احجار من تجرية لوح التحميل عن 50 ميجاسكال والا يزيد نسبة الناقص EV2 مقياس سن 1 : سن 2 : سن 4 او سن 6 بنسبة 1:1:1 والا يقل معامل المرونة بجهاز لوس الجولوس عن 45% والفلة تشمل اعمال التجارب المعملية واليبتد يشعل اجراء التجارب المعملية والحقلية طبقا لاصول الصناعة الممتازة وتقدير الاستشاري وتعليمات المهندس المشرف

علاوة مسافة النقل 97.5 كم (FILTER)

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

الكمية	الابعاد (متر)		الموقع الكيلومري		التاريخ	رقم الطلب
	مساحة المقطع	طول	الى	من		
756.2	37.81	20	388+520	388+500	12/10/2022	IR-F(04)
10911	36.37	300	389+000	388+700	25/10/2022	IR-F(02) IR-F(03) IR-F(05)
15706	78.53	200	388+400	388+200	6/11/2022	IR-F(08)REV2
27373.200	اجمالي الكميات خلال فترة المستخلص (م')					
32847.840	يوجد نسبة هالك لغرز وتشغل السن الخاص بالفاتر تم تحديدها بمقدار 20% = المجموع الكلي للكمية المبلغ 1.2%					
32847.840	الاجمالي الكلي (م')					

مهندس الهيئة
م / مارجريت مجدي



مهندس الاستشاري
مكتب XY2
م / محمد خليل

مهندس الشركة
م / السعيد محمد

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 اتجاه الضبعة.

رقم البلد وبياناته : (1-10) بالمتر المكعب اعمال توريد وفرش طبقة فلتر من الاحجار الصلبة المتدرجة ناتج لكسور كسرات والمطابقة للمواصفات والقصى حجم حبيبي ما بين 20 مم الى 75 مم والا يزيد نسبة المار من متخل 200 عن 5% والتدرج الوارد بالاشتراطات الخاصة من تجرية لوح التحميل عن EV2 50 بالمشروع وهي احجار مقاس من 1 : 2 : 4 او 6 بنسبة 1:1:1 والا يقل معامل المرونة ميغاباسكال والا يزيد نسبة الفاقد بجهاز لوس الجلولس عن 45% واللثة تشمل اعمال التجارب المعملية والبلد يشمل اجراء التجارب المعملية والحقلية طبقا لاصول الصناعة الممتازة وتقرير الاستشاري وتعليمات المهندس المشرف

علاوة تحصيل الكارته والموازن

تسليم : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

الكمية	الابعاد (متر)		الموقع الكيلومترات		التاريخ	رقم الطلب
	مساحة المقطع	طول	الى	من		
756.2	37.81	20	388+520	388+500	12/10/2022	IR-F(04)
10911	36.37	300	389+000	388+700	25/10/2022	IR-F(02) IR-F(03) IR-F(05)
15706	78.53	200	388+400	388+200	6/11/2022	IR-F(08)REV2
27373.200	اجمالي الكميات خلال فترة المستخلص (م)					
32847.840	يوجد نسبة هالك لغرز وتداخل السن الخاص بالفاتر تم تحديدها بمقدار 20% = المجموع الكلي للكمية المنقذة 1.2*					
32847.840	الاجمالي الكلي (م)					

مهندس الهيئة
م / مارجريت مجدي



مهندس الاستشاري
مكتب XYZ
م / محمد خليل



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 اتجاه الضبعة.

رقم البند وبيانه (1-3): اعمال تحميل وتوريد ونقل التربة مطابقة للمواصفات وتبليغها باستخدام آلات التسوية بسمك لايزيد عن 50 سم حتى مسوب (-2.00 متر) وبسمك لايزيد عن 25 سم لاستكمال المسوب التصميمي لتشكيل الجسر الترابي والاكتاف (نسبة لحمل كاليفورنيا لا تقل عن 15%) ورشها بالمادة الاصلية للوصول الى نسبة الرطوبة المطلوبة والنمذ الجيد بالهراسات للوصول الى قصي كثافة جافة (95% من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبتد يجمع مشتملة طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندسين المشرف .

السعر خلال شهر اكتوبر طبقا للمفاوضة 18/12/2023

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

رقم الطلب	التاريخ	الموقع الكيلومترى		الابعاد (متر)		الكمية
		من	الى	طول	مساحة المقطع	
IR-S(01)	29/10/2022	388+900	389+000	100	8.10	810.00
IR-S(02)	29/10/2022	388+800	388+900	100	7.89	789.00
IR-S(03)	29/10/2022	388+700	388+800	100	7.61	760.70
		اجمالي الكميات خلال فترة المستخلص (م ³)				2359.70
		الاجمالي الكلي (م ³) خلال شهر اكتوبر				2359.70

مهندس الهيئة
م / مارجريت مجدي



مهندس الاستشاري
مكتب XYZ
م / محمد خليل

مهندس الشركة
م / المهندس محمد



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 اتجاه الضبعة.

رقم البند وبيانه (1-3): أعمال تحميل وتوريد ونقل التربة مطابقة للمواصفات وتشغيلها باستخدام آلات الشوية بسك لايزيد عن 50 سم حتى مسلوب (-2.00 متر) وسك لايزيد عن 25 سم لاستكمال المسلوب التصميمي لتشكيل الجسر الترابي والاكتاف (نسبة تحمل كاليفورنيا لا تقل عن 15% ورشها بالمياه الاصطناعية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول الى الصلابة 95% من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبيد بجميع مشتقاتها طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف.

السعر خلال شهر نوفمبر طبقا للمطابقة 18/12/2023

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

الكمية	الايهام (متر)		الموقع الكيلومترات		التاريخ	رقم الطلب
	مساحة المقطع	طول	الى	من		
684.00	6.84	100	388+700	388+600	2/11/2022	IR-S(04)
252.00	2.52	100	389+000	388+900	6/11/2022	IR-S(05)
644.00	3.22	200	388+900	388+700	12/11/2022	IR-S(06)
158.40	2.64	60	388+700	388+640	13/11/2022	IR-S(07)
318.00	3.18	100	389+000	388+900	14/11/2022	IR-S(08)
321.00	3.21	100	388+900	388+800	15/11/2022	IR-S(09)
323.00	3.23	100	388+800	388+700	15/11/2022	IR-S(10)
904.00	9.04	100	388+500	388+400	16/11/2022	IR-S(11)
980.00	9.80	100	388+400	388+300	16/11/2022	IR-S(12)
190.20	3.17	60	388+700	388+640	19/11/2022	IR-S(13)
1998.00	6.66	300	389+000	388+700	19/11/2022	IR-S(14)
1019.00	10.19	100	388+300	388+200	19/11/2022	IR-S(15)
1755.60	12.54	140	388+640	388+500	23/11/2022	IR-S(16)
1244.00	6.22	200	389+000	388+800	23/11/2022	IR-S(17)
622.00	6.22	100	388+800	388+700	26/11/2022	IR-S(19)
2934.00	14.67	200	388+200	388+000	28/11/2022	IR-S(REV18)
1208.00	6.04	200	389+000	388+800	28/11/2022	IR-S(REV20)
334.00	3.34	100	388+300	388+200	28/11/2022	IR-S(21)
15889.20	اجمالى الكميات خلال فترة المستخلص (م)					
15889.20	الاجمالى الكلى (م) خلال شهر نوفمبر					

مهندس الهيئة
م / مارييت مجدي



مهندس الاستشاري
مكتب XYZ
م / محمد خليل

مهندس الشركة
م / الصبيح محمد

مشروع : استناد أعمال الجسر الترابي والأعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - مطروح) لتنفيذ أعمال الجسر الترابي (قطاع
برج العرب - العتمين) المسافة من الكم 388+000 إلى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم الهند وبيئة (3-1) : أعمال تحميل وتوريد ونقل التربة مطابقة للمواصفات وتشجيرها باستخدام آلات التسمية بسمك لا يزيد عن 50 سم حتى مسسوب (2.00 متر) وبسمك لا يزيد عن 25 سم
لإستكمال المسسوب التصميمي لتشكيل الجسر الترابي والأكتاف (نسبة تحمل كالفورنيا لا تقل عن 15%) ورشها بالمادة الاسفلتية الموضوعة في نسبة الرطوبة المطلوبة والمنفذ الجيد بالهريسات
الوصول إلى قصى كثافة جافة (99% من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمتسبب التصميمية والقطاعات العرضية التمولجية والرسومات التفصيلية المعتمدة والبناء يصبح مشتملة
طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف .

(علاوة مسافة النقل للتربة بنسبة 80% من الكمية الكلية)

تنفيذ : شركة دريم وتي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

رقم الطلب	التاريخ	الموقع الكيلومترى		الأبعاد (متر)		علاوة	الكمية
		من	إلى	طول	مساحة المقطع		
IR-S(01)	29/10/2022	388+900	389+000	100	8.10	0.80	648.00
IR-S(02)	29/10/2022	388+800	388+900	100	7.89	0.80	631.20
IR-S(03)	29/10/2022	388+700	388+800	100	7.61	0.80	608.56
IR-S(04)	2/11/2022	388+600	388+700	100	6.84	0.80	547.20
IR-S(05)	6/11/2022	388+900	389+000	100	2.52	0.80	201.60
IR-S(06)	12/11/2022	388+700	388+900	200	3.22	0.80	515.20
IR-S(07)	13/11/2022	388+640	388+700	60	2.64	0.80	126.72
IR-S(08)	14/11/2022	388+900	389+000	100	3.18	0.80	254.40
IR-S(09)	15/11/2022	388+800	388+900	100	3.21	0.80	256.80
IR-S(10)	15/11/2022	388+700	388+800	100	3.23	0.80	258.40
IR-S(11)	16/11/2022	388+400	388+500	100	9.04	0.80	723.20
IR-S(12)	16/11/2022	388+300	388+400	100	9.80	0.80	784.00
IR-S(13)	19/11/2022	388+640	388+700	60	3.17	0.80	152.16
IR-S(14)	19/11/2022	388+700	389+000	300	6.66	0.80	1598.40
IR-S(15)	19/11/2022	388+200	388+300	100	10.19	0.80	815.20
IR-S(16)	23/11/2022	388+500	388+640	140	12.54	0.80	1404.48
IR-S(17)	23/11/2022	388+800	389+000	200	6.22	0.80	995.20
IR-S(19)	26/11/2022	388+700	388+800	100	6.22	0.80	497.60
IR-S(REV18)	28/11/2022	388+000	388+200	200	14.67	0.80	2347.20
IR-S(REV20)	28/11/2022	388+800	389+000	200	6.04	0.80	966.40
IR-S(21)	28/11/2022	388+200	388+300	100	3.34	0.80	267.20
إجمالي الكميات خلال فترة المستخلص (م³)							14599.12
الاجمالي الكلى (م³)							14599.12

مهندس الهيئة
م / مارجريت مجدي



مهندس الاستشاري
مكتب XYZ
م / محمد خليل

مهندس الشركة
م / السيد محمد
م / محمد خليل

مشروع : اسناد اعمال الجسر القروي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - مطروح) لتنفيذ اعمال الجسر القروي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 الى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم الهند وبيئة (1-3) : اعمال تحميل وتوريد ونقل قرية مطابقة للمواصفات ولتشيدها باستخدام آلات التسيمة بسمك لا يزيد عن 50 سم حتى مسوب (2.00 متر) وسمك لا يزيد عن 25 سم لاستكمال المسوب التصبيبي لتشكيل الجسر القروي والاكتاف، النسبة لحمل كاتيفورنيا لا تقل عن 90% وبها القيمة الاسمية للوصول الى نسبة الرطوبة المطلوبة والتمك الجيد بالهوسات للوصول الى النسب كافة بدقة (99% من الكثافة العامة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة واليها يتبع ملاحظات طبقا لاصول الصناعة ومواصفات الهيئة العامة للمطرق والكباري والتعليمات المهندس المشرف.

(علاوة مسافة النقل للرمال بنسبة 20 % من الكمية الكلية)

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

رقم الطلب	التاريخ	الموقع الكيلومتری		الابعاد (متر)		علاوة	الكمية
		من	الى	طول	مساحة المقطع		
IR-S(01)	29/10/2022	388+900	389+000	100	8.10	0.20	162.00
IR-S(02)	29/10/2022	388+800	388+900	100	7.89	0.20	157.80
IR-S(03)	29/10/2022	388+700	388+800	100	7.61	0.20	152.14
IR-S(04)	2/11/2022	388+600	388+700	100	6.84	0.20	136.80
IR-S(05)	6/11/2022	388+900	389+000	100	2.52	0.20	50.40
IR-S(06)	12/11/2022	388+700	388+900	200	3.22	0.20	128.80
IR-S(07)	13/11/2022	388+640	388+700	60	2.64	0.20	31.68
IR-S(08)	14/11/2022	388+900	389+000	100	3.18	0.20	63.60
IR-S(09)	15/11/2022	388+800	388+900	100	3.21	0.20	64.20
IR-S(10)	15/11/2022	388+700	388+800	100	3.23	0.20	64.60
IR-S(11)	16/11/2022	388+400	388+500	100	9.04	0.20	180.80
IR-S(12)	16/11/2022	388+300	388+400	100	9.80	0.20	196.00
IR-S(13)	19/11/2022	388+640	388+700	60	3.17	0.20	38.04
IR-S(14)	19/11/2022	388+700	389+000	300	6.66	0.20	399.60
IR-S(15)	19/11/2022	388+200	388+300	100	10.19	0.20	203.80
IR-S(16)	23/11/2022	388+500	388+640	140	12.54	0.20	351.12
IR-S(17)	23/11/2022	388+800	389+000	200	6.22	0.20	248.80
IR-S(19)	26/11/2022	388+700	388+800	100	6.22	0.20	124.40
IR-S(REV18)	28/11/2022	388+000	388+200	200	14.67	0.20	586.80
IR-S(REV20)	28/11/2022	388+800	389+000	200	6.04	0.20	241.60
IR-S(21)	28/11/2022	388+200	388+300	100	3.34	0.20	66.80
3649.78							
3649.78							

اختبار الكميات خلال فترة المستخلص (م)

مهندس الكميات (م)

مهندس الهيئة
م / مارجريت مجدي



مهندس الاستشاري
مكتب X72
م / محمد جليل

مهندس الشركة
م / المهندس محمد

مشروع : امتداد أعمال الجسر الترابي والأعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة -حطروح) لتنفيذ أعمال الجسر الترابي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 إلى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم الهند وبيانة (1-3): أعمال تحميل وتوريد ونقل التربة مطابقة للمواصفات وتشغيلها باستخدام آلات التسوية بسكك لا يزيد عن 50 سم حتى مسلوب (2.00 متر) وسكك لا يزيد عن 25 سم لاستكمال المسلوب التصميمي لتشكيل الجسر الترابي والأكثاف (نسبة تحمل كافورنيا لا تقل عن 15%) ورشها بالهيئة الاسفلية للوصول إلى نسبة الرطوبة المطلوبة والتمدد الجيد بالهراست للوصول إلى النسب ككافة جافة (95% من الكثافة الجافة المقصود) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية التوضيحية والرسومات التنفيذية المعتمدة والبيد بجميع مشتتات طبقا لأصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف.

(علاوة تحصيل رسوم الكارثة والموازن طبقا لللائحة الشركة الوطنية)

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

رقم الطلب	التاريخ	الموقع الكيلومترى		الأبعاد (متر)		الكمية
		من	إلى	طول	مساحة المقطع	
IR-S(01)	29/10/2022	388+900	389+000	100	8.10	810.00
IR-S(02)	29/10/2022	388+800	388+900	100	7.89	789.00
IR-S(03)	29/10/2022	388+700	388+800	100	7.61	760.70
IR-S(04)	2/11/2022	388+600	388+700	100	6.84	684.00
IR-S(05)	6/11/2022	388+900	389+000	100	2.52	252.00
IR-S(06)	12/11/2022	388+700	388+900	200	3.22	644.00
IR-S(07)	13/11/2022	388+640	388+700	60	2.64	158.40
IR-S(08)	14/11/2022	388+900	389+000	100	3.18	318.00
IR-S(09)	15/11/2022	388+800	388+900	100	3.21	321.00
IR-S(10)	15/11/2022	388+700	388+800	100	3.23	323.00
IR-S(11)	16/11/2022	388+400	388+500	100	9.04	904.00
IR-S(12)	16/11/2022	388+300	388+400	100	9.80	980.00
IR-S(13)	19/11/2022	388+640	388+700	60	3.17	190.20
IR-S(14)	19/11/2022	388+700	389+000	300	6.66	1998.00
IR-S(15)	19/11/2022	388+200	388+300	100	10.19	1019.00
IR-S(16)	23/11/2022	388+500	388+640	140	12.54	1755.60
IR-S(17)	23/11/2022	388+800	389+000	200	6.22	1244.00
IR-S(19)	26/11/2022	388+700	388+800	100	6.22	622.00
IR-S(REV18)	28/11/2022	388+000	388+200	200	14.67	2934.00
IR-S(REV20)	28/11/2022	388+800	389+000	200	6.04	1208.00
IR-S(21)	28/11/2022	388+200	388+300	100	3.34	334.00
		إجمالي الكميات خلال فترة المستخلص (م)				18248.90
		الإجمالي في الكس (م)				18248.90

مهندس الهيئة
م / مارجريت مجدي



مهندس الاستشاري
مكتب XYZ
م / محمد خليل

مهندس الشركة
م / السيد محمد

مشروع : المقطع الكهربائي السريع (العين السخنة - العاصمة الإدارية - العين - مطروح) قطاع غرب النيل في المسافة من الكم 388+000 إلى الكم 389+000 بطول 1 كيلو متر الجاهض الطبيعة

رقم الهند وبيانات (2/11) بالمتر المسطح لوريد و تركيب طبقة من السجج الصناعي جيوتكستائل التداخل لا يقل عن 110% ذات وزن لا يقل عن 400 جم / م²
تستفيد : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

رقم الطلب	المواقع الكيلومترية		الأبعاد (متر)		كمية
	من	إلى	طول	عرض القطاع	
IR-G (05)	388+520	388+620	100	28.89	2889
IR-G (07)	388+520	388+700	180	27.80	5004
IR-G (01)	388+700	389+000	300	28.74	8622
إجمالي الكميات في المستخلص (م ²)					16515

مهندس الهيئة
م / مارجريت مجدي



مهندس الاستشاري
م/م / محمد خليل
م/م / XYZ



مهندس الشركة
م/م / السيد محمد



نموذج رقم ٢



بشان : حصر المواد المحجّرة الواردة بالمستخلص

التقيد :/...../..... ٢٠٢٣ المنطقة

التاريخ/...../..... ٢٠٢٣

الى السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة وبعد ،،،

نتشرف بان نرفق طرية 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 بياتها كالآتى :-

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

التقيد : / / ٢٠٢٣ المنطقة

التاريخ / / ٢٠٢٣

الى السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة وبعد ،،،

نتشرف بان نرفق طيبة 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 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 - العلمين)

العقد رقم: اتجاه الضبعة (2023/2022/729)

في المسافة من 388+000 الي 389+000

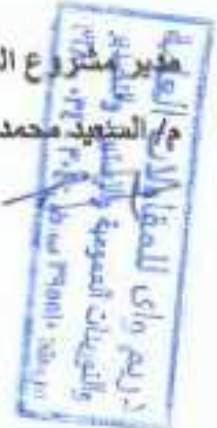
مقاوله شركة : دريم واي للمقاولات العمومية

اشراف استشاري : مكتب د/ عماد نبيل

كمية الاترية المستخدمة في المشروع : 18248.90 م³.

يرجى العلم بأنه قد تم توريد المواد المحجرية 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
د/ السعيد محمد	م/ مارجريت مجدي	م/ محمد حسني قياض



يعتمد

رئيس الادارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عميد مهندس /

" هاني محمد محمود طه "



كشفت أتاوة المحاجر
عن كمية المواد التي تم استخدامها

مشروع أعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي
السريع (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 حتى تاريخ 2024/2/28

كمية الاتربة المنفذة بند رقم (3-1)

بالمتر المكعب = 18248.90 م³

مدير مشروع الهيئة
م/ مارجریت مجدي

مدیریت و ترویج کارهای اجتماعی



مدير مشروع الشركة

م/ السيد محمد

ريم واي المقاولات العامة
التوريدات العمومية والإستيراد والتصدير
ت. ٣٩٠٠١٧ ب. ٣٠٤ - ٠٣٤ - ٣٢٨

إفادة

بالإشارة لمشروع أعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع
(برج العرب - العلمين)

العقد رقم: اتجاه الضبعة (2023/2022/729)

في المسافة من 388+000 الي 389+000

مقاوله شركة : دريم واي للمقاولات العمومية

اشراف استشاري : مكتب د/ عماد نبيل

كمية سن الفلتر المستخدمة في المشروع : 32847.84 م³.

يرجى العلم بأنه قد تم توريد المواد المحجربة بالمشروع ببيانات رسمية معتمدة وقام استشاري
المشروع بمراجعة جميع البيانات والتأكد من الكميات المدرجة وذلك تحت اشراف المنطقة.

مدير مشروع الشركة مدير مشروع الاستشاري مدير مشروع الهيئة مدير عام المشروعات
م/المهندس محمد 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 القطر الكهربائي
السريع (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 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) إلي الكم(389+000) اتجاه الضبعة

تنفيذ شركة :- دريم واي للمقاولات العامة

اشراف : المنطقة الخامسة غرب الدلتا (الإسكندرية_ مطروح)

استشاري الهيئة للمشروع : سبكتروم (دعماد نبيل)

انه في يوم الاثنين الموافق 2024/02/28 وبناءً علي قرار السيد العميد مهندس/رئيس الإدارة المركزية

لمنطقة غرب الدلتا رقم (121) بتاريخ 2022/09/14 والخاص بأعمال الاستلام الابتدائي للأعمال عليه.

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: سبكتروم (د عماد 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 علي ملف العملية وكراسة الشروط والمواصفات وعقد العملية ثم انتقلت اللجنة علي الطبيعة للمرور علي الأعمال المنفذة ومعاينتها ظاهرياً وتم أخذ عينات أثرية من الجسر لإجراء التجارب اللازمة عليها بمعمل المنطقة وتحديد نسبة الحيود 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 مدي الحيود 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 لأصلاحها فوراً.
- وعليه تري اللجنة قبول الأعمال حيث لا يوجد ما يعيق الاستلام الابتدائي للأعمال عليه ويعتبر تاريخ المحضر هو تاريخ التهو القطعي وبدء فترة الضمان للأعمال.
- وعلي ذلك جري التوقيع.

التوقيعات بسم ماي للمقاولات العامة

(6) المهندس / د. محمد عبد الله السيد

(5) المهندس / د. محمد عبد الله السيد

(4) المهندس / د. محمد عبد الله السيد

(3) المهندس / د. محمد عبد الله السيد

(2) المهندس / د. محمد عبد الله السيد

(1) المهندس / د. محمد عبد الله السيد

مقايمة ختامية

بخصوص :- اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار

الكهربائي السريع بطول ١ كم استكمال اتجاه الضبعة

مقولة :- شركة دريم واى للمقاولات العامة والتوريدات العمومية

بمناسبة انتهاء الاعمال الخاصة بالعملية عالية وعمل المستخلص الختامي

طبقا للكميات المنفذة على الطبيعة فقد تم اعداد المقايمة الختامية المرفقة لكافة

بنود العملية باجمالي مبلغ ١٩٩٩٧٩١٦.٨٢ جنيه (فقط وقدره تسعة عشر مليون وتسعمائة وسبعة وتسعون

الفا وتسعمائة وستة عشر جنيها واثنان وثمانون لاغير)

مدير عام المشروعات

مهندس / المشرف على تنفيذ العملية

الاسم / محمد منى تامر

الاسم / مارجية محمد زاهر

التوقيع /

التوقيع /

رئيس الادارة المركزية

منطقة غرب الدلتا

(بالاسكندرية مرسى مطروح)

عميد مهندس / " هاني محمد محمود طه "





عبد مهندس /
"ہانی محمد محمود طہ"

عبد مهندس /
"ہانی محمد محمود طہ"