

محضر استلام ابتدائي

لعملية: أعمال الجسر الترابي لمشروع القطار الكهربائي السريع (قطاع غرب النيل_ قطاع برج العرب/العلمين)

لتنفيذ المسافة من الكم(392+000) إلي الكم(394+500) اتجاه مطروح

تنفيذ شركة :- الصفا للمقاولات العامة وانشاء الطرق

اشراف : المنطقة الخامسة غرب الدلتا (الإسكندرية_مطروح)

استشاري الهيئة للمشروع : سبكترم (دعماد نبيل)

انه في يوم الاحد الموافق 2024/05/19 وبناءً علي قرار السيد العميد مهندس/رئيس الإدارة المركزية لمنطقة غرب الدلتا رقم (121) بتاريخ 2022/09/14 والخاص بأعمال الاستلام الابتدائي للأعمال عاليه.

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: سبكترم (دعماد نبيل) استشاري الهيئة | (عضواً) |
| (5) المهندس/ محمد خليل | مكتب (اكس واي زد) استشاري المساحة بالمشروع | (عضواً) |
| (6) المهندس/ محمود سالم شتيوي | الشركة المنفذة : الصفا للمقاولات العامة وانشاء الطرق | (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 أتربة من الجسر لإجراء التجارب اللازمة عليها بمعمل المنطقة وتحديد نسبة الحيوود وقد أسفر الفحص والمعاينة الظاهرية عن التالي:-

الأعمال المنفذة والمطلوب تسليمها أعمال الفلتر والردم لتشكيل مسار الجسر الترابي

أولاً:- أعمال الفلتر والردم:-

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 (سبكتروم (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 (سبكتروم (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 عاليه ويعتبر تاريخ المحضر هو تاريخ النهو الفعلي وبدء فترة الضمان للأعمال.
وعلي ذلك جري التوقيع.

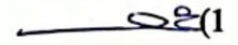
التوقيعات :-

(6) محمد سالم سالم سيطون

(5) محمد هاشم

(4) 
(3) 

(2) 

(1) 

التقييم الفني



مشروع : اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع
(العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع غرب النيل لتنفيذ المسافة من
الكم 392+000 الى الكم 394+500 بطول 2.50 كم إتجاه مطروح

تنفيذ : شركة الصفا للمقاولات العامة وإنشاء الطرق

إشراف : المنطقة الخامسة قطاع غرب الدلتا

الحسابات المالية ومفصل التقييم وقيمة الخصومات:

أنه في يوم الاحد الموافق 2024/05/19 وبناء على القرار الإداري 121 بتاريخ 2022/9/14 الصادر
من السيد عميد مهندس رئيس الإدارة المركزية / منطقة غرب الدلتا ومحضر الإستلام الإبتدائي للعملية
المؤرخ في 2024/05/19 تم عمل التقييم الفني للعملية عاليه.

وقد اجتمعت اللجنة المشكلة من كلا من:

(رئيساً للجنة)	مدير عام المشروعات بالمنطقة	1) المهندس/ محمد حسني فياض
(عضواً)	مدير مشروع القطاع من المنطقة	2) المهندسة/مارجريت مجدي
(عضواً)	معمل المنطقة المشرفة	3) المهندس/عبدالله عبدالمحسن
(عضواً)	مكتب: سبكترم (د عماد نبيل) استشاري الهيئة	4) المهندس /مازن عصامي
(عضواً)	مكتب (اكس واي زد) استشاري المساحة بالمشروع	5) المهندس/محمد خليل
(عضواً)	الشركة المنفذة الصفا للمقاولات العامة وإنشاء الطرق	6) المهندس/ محمود سالم

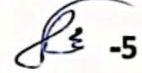
وبعد الإطلاع على محضر الاستلام الابتدائي للعملية وملفات التجارب المعملية تم حساب الخصومات المالية وجاءت كالتى :

- *الخصم على طبقة الفلتر : لا يوجد خصم
- *الخصم على اختبارات الدمك بطبقة الفلتر والردم : لا يوجد خصم
- *الخصم على النقص في السمك لطبقة الفلتر والردم : لا يوجد خصم
- *الخصم طبقا لمحضر الاستلام الابتدائي :-
- من الفحص البصري :-
- *الخصم على سطح الطريق % 0.7 * 5699191.14 = 39894.34 جنيه
- *الخصم على إختبارات التصنيف والتدرج وال CBR لطبقة الفلتر : لا يوجد خصم
- *القيمة المالية للخصم للجنة الاستلام الابتدائي : 39894.34 جنيهاً (تسعة وثلاثين الفا وثمانمائة واربعه وتسعون جنيه مصري و اربعة وثلاثون قرش)

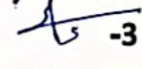
التوقيعات :

رئيس الإدارة المركزية
منطقة غرب الدلتا
الاسكندرية - مرسى مطروح
عميد . مهندس /
هاني محمد محمود طه

6- محمود سالم سميح

5- 

4- 

3- 

2- 

1- 

مقاييس ختامي

بخصوص :- اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار

الكهربائي السريع بطول ٢.٥ كم اتجاه مطروح

مقابلة :- شركة الصفا للمقاولات العامة وانشاء الطرق

بمناسبة انتهاء الاعمال الخاصة بالعملية عالية وعمل المستخلص الختامي

طبقا للكميات المنفذه على الطبيعة فقد تم اعداد المقاييس الختامية المرفقه لكافة

بنود العملية باجمالى مبلغ ٥٦٩٩١٩١.١٤.٠٠ جنيها (فقط وقدره خمسة مليون وثمانية تسعة وتسعون

الف ومائة واحد وتسعون جنيها لا غير)

مهندس / المشرف على تنفيذ العملية

مهندس / مدير عام المشروعات

الاسم : ماريه محمد زراخ

الاسم : محمد مصطفى ميام

التوقيع :

التوقيع : محمد

رئيس الإدارة المركزية
منطقة غرب الدلتا
(بالإسكندرية) مرسى مطروح

عميد مهندس / هاني محمد محمود طه



عبد المطلب - علي محمد محمود طه
الاسكنانية - مدرس بطروح
رئيس الكلية المركزية
لنيس الادارة المركزية

م/مايجريت مجدى
مدير مشروع الهيئة



الشرعية المطلقة

نموذج رقم ٢

بشأن : حصر المواد المحجّرة الواردة بالمستخلص

القيّد :/...../٢٠٢٣ المنطقة

التاريخ/...../٢٠٢٣

الى السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة وبعد ،،،

نتشرف بان نرفق طية المستخلص الختامى الخاص بعملية
(اعمال الجسر الترابى والاعمال الصناعية للقطار الكهربائى السريع).

تنفيذ شركة / الصفا للمقاولات العامة عقد رقم / (٢٠٢٣/٢٠٢٢/١٠١٣)

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	٣م	١٢٢٢٧.٤٠	كسارة (العروبة)
٢	اتربة	٣م		محجر رقم / تصريح / بدون
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 ،،،

(التوقيع)
عميد مهندس / هانى محمد محمود طه
رئيس الادارة المركزية
للمنطقة الخامسة - غرب الدلتا

في حالة وجود كميات تم الحصول عليها بدون ارفاق البونات المائية يتم تسجيل كلا منها منفصلا .

كشف أتاوة المحاجر
عن كمية المواد التى 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 ٣٩٢+٠٠٠ الي الكم ٣٩٤+٥٠٠
بطول ٢,٥ كم اتجاه (مطروح)

تنفيذ : شركة الصفا للمقاولات العامة وانشاء الطرق
أعمال تم تنفيذها حتي تاريخ ٢٠٢٤/٠٥/١٩

كمية سن الفلتر المنفذة بند رقم (٣-٥)
بالمتر المكعب = ٣١٢٢٢٧,٤٠ م

مدير مشروع الهيئة
م/ مارجريت مجدي

مدير مشروع الاستشاري



مدير مشروع الشركة

م/ محمود سالم شتيوي



إفادة

بالإشارة لمشروع أعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين
السخنة - مطروح)

العقد رقم: اتجاة مطروح (٢٠٢٣/٢٠٢٢/١٠١٣)

في المسافة من ٣٩٢+٠٠٠ الي ٣٩٤+٥٠٠

مقاول شركة : الصفا للمقاولات العامة وانشاء الطرق

اشراف استشاري : مكتب د/ عماد نبيل

كمية سن الفلتر المستخدمة في المشروع : ١٢٢٢٧,٤٠ م.م.

يرجي العلم بانه قد تم توريد المواد المحجرية بالمشروع ببونات رسمية معتمدة وقام استشاري
المشروع بمراجعة جميع البونات والتأكد من الكميات المدرجة وذلك تحت اشراف المنطقة.

مدير عام المشروعات

م/محمد حسني فياض

مدير مشروع الهيئة

م/مارجريت مجدي

مدير مشروع الاستشاري

م/مهازن عصامي

مدير مشروع الشركة

م/محمود سالم شتيوي



يعتمد

رئيس الادارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

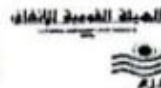
عميد مهندس /

" هاني محمد محمود طه "

MATERIAL APPROVAL REQUEST



الهيئة العامة
للطرق والكباري
(GARB)



Contractor Company	Al-SAFA General Contracting Company			Designer Company			(SPECTRUM) Engineering Consulting Office				
Issued by Contractor	Name	Sign		Date/Serial Number			Time				
	Eng. Ahmed Ragab			16/9/2022			10:00				
				(SS-B-SF-QT-014)							
Received by GARB CONSULTANT	Eng. Mazen Essamy		MAR	C1 393	C2 EW	C3 CS	DD 17	MM 9	YY 22	HH 10	MM 0

CODE-1	S15	D3	Kp 393+000
CODE-2	EW		
CODE-3	MS		

Description of Materials	Filter Layer (5000)m3.					
Location to be Used	From Station	REV29	392+900	To Station	REV29	393+600
		REV35	393+084		REV35	393+784
Sample only	Yes		Materials Type		Crushed stone #1-#2	
Supplier Name	ALBARAKA CRUSHER		Data Sheet provided		Yes attached	
Reference in BoQ			Specification		EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-122.1) VERSION1-2022 BY CIVECON GROUP	
Prequalification reference			Test Samples Results		Yes attached	
Reference Photos	No		Other			
Comments by: Eng. Mazen Essamy (SPECTRUM)			Comments by: Eng. Alaa Abd-Allatif (ER)			
1-Quality test Results by Third Party Lab (COMIBASSAL) IS Approved			1-All testes carried-out Third Party Lab (COMIBASSAL).			
his Sample Representative (5000 m3) only .			2-Results report attached and acceptable with the project specifications.			



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

* Designer

** Alignment/Bridges: Culvert only



Serial No.
QT
(14)



مكتب إن/ عماد نبيل

Electrical Express Train From Borg
Alarab to Alamein
From Station 325+393 To Station



Date

17/9/2022

Material Inspection Request

We request your attendance to inspect the following works :

Discipline : ☒ Material submittal ☐ FIELD DENSITY TEST ☐ PLATE LOAD TEST

Location	Zone	From Station	To Station	Quantity
	alsafa CO. for Contracting	392+900	393+600	5000m3

References Specification: EET L1.1.Earthworks Specifications and Testing Report

Purpose of the inspection

1. Earthworks

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



Attachments

1- Quality Tests Report

2-

3-

4-

5-

6-

7-

8-

Works To be Inspected

Quality Tests For Crushed Stone (1,2&3) by COMIBASSAL Laboratory

Submitted by: alsafa CO. for Contracting

Signature: Ahmed El-God Abdel

GARP Consultant Engineer's Comments :

Date of Inspection: 24 / 9 / 2022

The quality test result by third party laboratory is OK for filter layer Lx 121

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

Name: Maren Gomy

Signature: Maren Gomy

General Consultant's Comments:

Date: 24/9/2022

1- one sample was selected for Quality test
2- Quality test was carried out by third party lab (Comibassal)
3- Results attached and found acceptable and comply with Project
4- final approval is subject to above mentioned comments

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

Name: Alaa Abdelhakeem

Signature: Alaa Abdelhakeem

GARP Engineer's Comments:

Date: 24/9/2022

Name:

Signature:

General Consultant Eng.

GARP Eng.



COMIBASSAL International Controllers

الجمعية التعاونية للتحليلات الكيميائية لأعمال الوزن والمراجعة والخبرة الدولية (كوميباسال)

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

قطاع التفتيش الداخلي والمعامل

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

ABSORPTION AND SPECIFIC GRAVITY FOR COARSE AGGREGATE

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

PROJECT: Electric Express Train

DATE: 17/09/2022

General Consultant :- SYSTRA

Consultant :- SPECTRUM

CONTRACTOR: شركة الصفا للمقاولات

Material / Source of Soil :- Agg. Crushed Stone. (خليط ١، ٢، ٣ - ١:١)

LAB. REF. Q.C. 1263/1

TRIAL NO	1	2	AVERAGE
A. WEIGHT OF Oven Dry TEST SAMPLE IN AIR (g)	4000.0	4010.0	4005.0
B. WEIGHT OF S.S.D. TEST SAMPLE IN AIR. (g)	4050.0	4057.0	4053.5
C. WEIGHT OF S. TEST SAMPLE IN WATER. (g)	2453.0	2465.0	2459.0
D. ABSORPTION = (B - A)	50.0	47.0	48.5
E. ABSORPTION % = [(B - A)/A] X 100	1.25	1.17	1.21
F. SPECIFIC GRAVITY:			
a) Bulk sp. Gr. , Oven Dry {A / (B - C)}	2.50	2.52	2.51
b) Bulk, Sat. Surface Dry {B / (B - C)}	2.54	2.55	2.54
c) Apparent sp. Gr. {A / (A - C)}	2.59	2.60	2.59

Tested By : Mostfa

Checked By : Eng. Eman E. Kandil

الإدارة: ١٥٧ شارع سفينة زغلول - الإسكندرية - مصر
٤٨٧-٥٧٢ - ٤٨٦٩٩٩٨ - ٤٨٧-٦٦٥
40safia zaghloul st., p.o.Box 157 Alex, Egypt
Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع: خلف ٤٩ طريق الحرية - الإسكندرية - مصر
٣٩٠٠٤٧٦ - ٣٩٣١٤٨٢ - ٣٩٢٠١٧٦
49 EL Horria Ave. - Alex, Egypt
Tel: 3920176 - 3931482 - Fax: 3900476
E-mail : internal-inspection@comibassal.com



COMIBASSAL International Controllers

الهيئة العامة للمعاينة الدولية لأعمال الوزن والمراجعة والخبرة المتواجدة (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 ٢٠١١/١١٠٢٩/٢٤

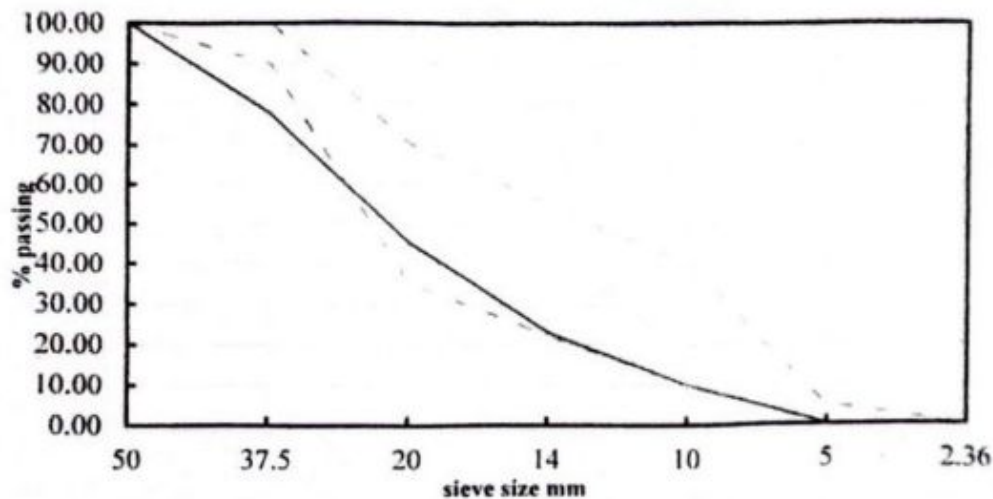
Report No: 1263 - 2 - center
Date: 25/09/2022

SIEVE ANALYSIS FOR COARSE AGGREGATE

General consultant : SYSTRA
Consultant : SPECTRUM
Contractor : شركة الصفا للمقاولات
Project : Electric express train
Test method : BS 882 Table 4. 40-5 mm
Sample : COARSE AGGREGATE (Mix Agg)
Date of Test : 22/09/2022



Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	78	45	23	10	0	0



Civil. Eng Department

Eng : Eman. E. Kandil



الإدارة، ١٥٧ شارع صفية زغلول - الإسكندرية - ص.ب ١٥٧
ت. ٤٨٧٠٥٧٢ - ف. ٤٨٦٩٧٩٨ - ٤٨٧٠٦٦٥
40safia zaghloul st., p.o.Box 157 Alex, Egypt
Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع ٢٩ طريق الحرية - الإسكندرية - مصر
ت. ٣٩٠٠٤٧١ - ٣٩٣١٤٨٢ - ٣٩٢٠١٧٦
49 EL Horria Ave -Alex.Egypt
Tel: 3920176 - 3931482 - Fax 3900476
E-mail : internal-inspection@comibassal.com



COMIBASSAL International Controllers

الجمعية التعاونية للمقاييس الدولية لأعمال الوزن والمراجعة والمقارنة 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

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

Report no : 1263 / 3 /center
Date : 25 / 9 / 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 الصفا للمقاولات

Project :

Electric express train

Sample :

COARSE AGGREGATE (Mix Agg)

Date of Test :

22/09/2022

Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intitial Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3462
% Wear By Weight Passing on Sieve No.12	30.8%

Civil Eng. Depart.

Eman

Eng: Eman E.Kandil



الإدارة: ٤٠ ش صفيية زغلول - الإسكندرية - ص.ب ١٥٧
ت: ٤٨٧-٥٧٣ - ف: ٤٨٦٩٧٩٨ - ٤٨٧-٦٦٥

40safia zaghloul st ., p.o.Box 157 Alex, Egypt
Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع خلف ٤٩ طريق الحرية - الإسكندرية - مصر
ت: ٣٩٢٠١٧٦ - ٣٩٣١٤٨٢ - ف: ٣٩٠٠٤٧٦

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



CamScanner

المسوحة ضوئياً بـ CamScanner

MATERIAL APPROVAL REQUEST



الهيئة العامة
للمنطق والكباري
(GARB)



المعهد الهندسي للاستشارات
SPECTRUM



Contractor Company		Al-SAFA General Contracting Company		Designer Company				(SPECTRUM) Engineering Consulting Office			
Issued by Contractor	Name	Sign		Date/Serial Number				Time			
	Eng. Ahmed Ragab			14/10/2022				10:00			
				(SS-B-SF-QT-01B)							
Received by GARB CONSULTANT	Eng. Mazen Essamy		MAR	C1	C2	C3	DO	MM	YY	HH	MM
				392	EW	CS	15	10	22	10	0

CODE 1	515	03	Kp 393+000
		EW	
		MS	

Description of Materials		Filter Layer (10000)m3.					
Location to be Used	From Station	REV29	392+900	To Station	REV29	393+600	
		REV35	393+084		REV35	393+784	
Sample only	Yes		Materials Type		Crushed stone #1-#2		
Supplier Name	ALBARAKA CRUSHER		Data Sheet provided		Yes attached		
Reference in BoQ			Specification		EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-122.1) VERSION1-2022 BY CIVECON GROUP		
Prequalification reference			Test Samples Results		Yes attached		
Reference Photos	No		Other				
Comments by: Eng. Mazen Essamy (SPECTRUM)				Comments by: Eng. Alaa Abd-Allatif (ER)			
1-Quality test Results by Third Party Lab (COMIBASSAL) IS Approved				1-All testes carried-out Third Party Lab (COMIBASSAL).			
This Sample Representative (5000 m3) only .				2-Results report attached and acceptable with the project specifications.			



APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Ahmed Ragab			A
QA/QC	Eng. Mazen Essamy			A
GARB	Eng. Mohammed Fayad			
Employer's Representative	Eng. Alaa Abd-Allatif			A

* Designer
** Alignment/Bridges: Consultant Only



الهيئة العامة للإسكان

Serial No.
QT
(18)



مكتب أ.د. عماد نبيل

Electrical Express Train From Borg
Alarab to Alamein
From Station 325+393 To Station



Date
25/10/2022

Material Inspection Request

We request your attendance to inspect the following works :

Discipline : ☒ Material submittal ☐ FIELD DENSITY TEST ☐ PLATE LOAD TEST

Location :	Zone	From Station	To Station	Quantity
	alsafa CO. for Contracting	392+900	393+600	10000 M3

References Specification: EET L1.1. Earthworks Specifications and Testing Report

Purpose of the Inspection

1. Earthworks

- ☐ Natural Sub Grade ☐ Sub Ballast
☐ Upper Embankment ☐ Ballast
☐ L.M. Embankment ☐ Excavation

S5-B-SF

Attachments

1- Quality Tests Report

2-

3-

4-

5-

6-

7-

8-

Works To be Inspected

Quality Tests For Crushed Stone Mix Aggregate(1-2&3) by COMIBASSAL Laboratory

Submitted by: alsafa CO. for Contracting

Signature: Ahmed Ragab

GARP Consultant Engineer's Comments :

Date of Inspection:- 25 / 10 /2022

The quality test result of filter aggregates 1, 2, 3 equal portion is OK
- This sample representative 5000 m³ only

The works are : ☒ Approved (A)

☐ Approved as Noted (B)

☐ Revised Resubmit (C)

Name: Haren Elany

Signature:

General Consultant's Comments:

Date:-

1. one sample was selected for Quality test.
2. Quality test was carried out by third party lab [Comibassal]
3. Results affected and found acceptable and comply with spec. spaces
4. final approval is subject to above mentioned comments.

The works are : ☒ Approved (A)

☐ Approved as Noted (B)

☐ Revised Resubmit (C)

☐ Rejected (D)

Name:

Signature:

GARP Engineer's Comments:

Date:-

Name:

Signature:

General Consultant Eng.

GARP Eng.





COMIBASSAL International Controllers

الجمعية التعاونية الاستشارية لأعمال الوزن والمراجعة والخبرة الدولية (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No.: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للبترول
تحت رقم ٢٤ / ٢٩ / ١١٠١١

ABSORPTION AND SPECIFIC GRAVITY FOR COARSE AGGREGATE

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

PROJECT: Electric Express Train

DATE: 15/10/2022

General Consultant :- SYSTRA

Consultant :- SPECTRUM

CONTRACTOR: شركة الصفا للمقاولات

Material / Source of Soil :- Agg. Crushed Stone. (خليط سن)

LAB. REF. Q.C. 1933/1

TRIAL NO	1	2	AVERAGE
A. WEIGHT OF Oven Dry TEST SAMPLE IN AIR (g)	5000.0	4010.0	4505.0
B. WEIGHT OF S.S.D. TEST SAMPLE IN AIR. (g)	5045.0	4047.0	4546.0
C. WEIGHT OF S. TEST SAMPLE IN WATER. (g)	3095.0	2475.0	2785.0
D. ABSORPTION = (B - A)	45.0	37.0	41.0
E. ABSORPTION % = [(B - A)/A] X 100	0.90	0.92	0.91
F. SPECIFIC GRAVITY:			
a) Bulk sp. Gr. , Oven Dry {A / (B - C)}	2.56	2.55	2.56
b) Bulk, Sat. Surface Dry {B / (B - C)}	2.59	2.57	2.58
c) Apparent sp. Gr. {A / (A - C)}	2.62	2.61	2.62

Tested By : Mostfa

Checked By : Eng. Eman E. Kandil

S5-B-SF

الإدارة العامة للمقاولات - الإسكندرية - ص. ب ١٥٧

ت. ٤٨٧٠٥٧٢ - ت. ٤٨٦٩٧٩٨ - ف. ٤٨٧٠٦٦٥

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

Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع ٤٩ طريق الحرية - الإسكندرية - مصر

ت. ٣٩٢٠١٧٦ - ف. ٣٩٣١٤٨٢ - ت. ٣٩٠٠٤٧٦

49 EL Horria Ave. - Alex; Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail : internal-inspection@comibassal.com



الممسوحة ضوئياً بـ CamScanner



COMIBASSAL International Controllers

الجمعية التعاونية لخدمات المراجعة 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:

Date:

1933 - 2 - center

26/12/2022

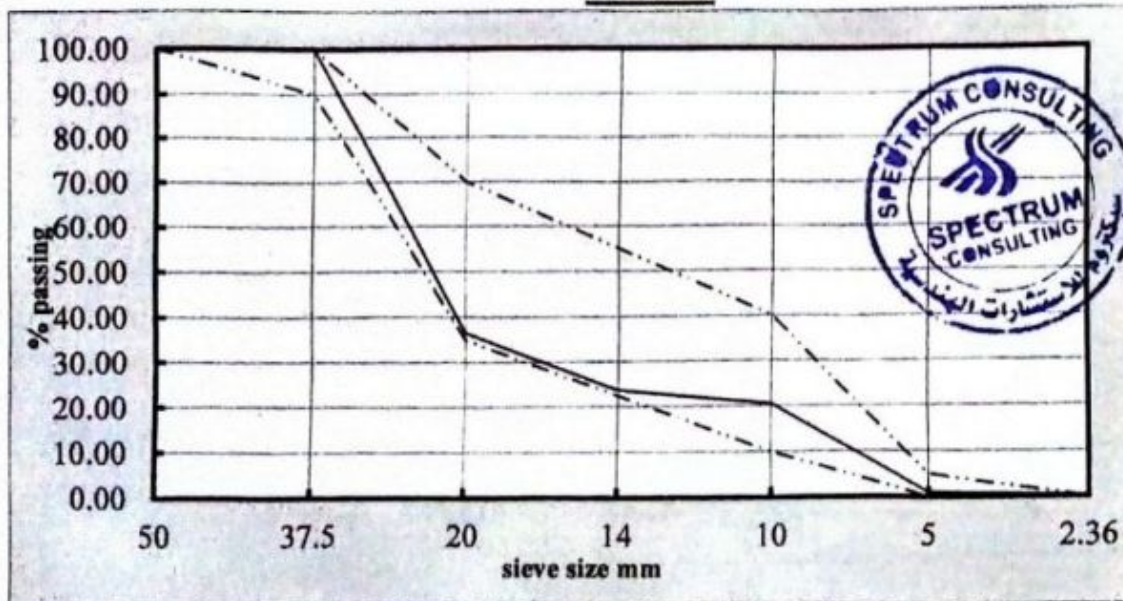
قطاع التفتيش الداخلي والمعامل

معتد لدى الهيئة المصرية العامة للبترول
تحت رقم ٢٤/٢٩/١١٠٢٩

SIEVE ANALYSIS FOR COARSE AGGREGATE

General consultant : SYSTRA
Consultant : SPECTRUM
Contractor : شركة الصفا للمقاولات
Project : Electric express train
Test method : BS 882 Table 4. 40-5 mm
Sample : COARSE AGGREGATE (Mix Agg)
Date of Test : 15/10/2022

Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	100	37	24	21	1	0

Civil. Eng Department

S5-B-SF



Eng : Eman. E. Kandil

الإدارة: ٤٠ ش سفية زغلول - الإسكندرية - ص.ب ١٥٧

ت: ٤٨٧٠٥٧٣ - ف: ٤٨٦٩٧٩٨ - ٤٨٧٠٦٦٥

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

Tel:4870573 - Fax + Tel : 4869798 - 4870665



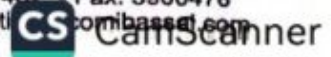
القطاع: خلف ٤٩ طريق الحرية - الإسكندرية - مصر

ت: ٣٩٢٠١٧٦ - ٣٩٣١٤٨٢ - ف: ٣٩٠٠٤٧٦

49 EL Horria Ave. - Alex; Egypt

Tel: 3920176 - 3931482 Fax: 3900476

E-mail : internal-inspecti@comibassal.com



المسوحة ضوئياً بـ CamScanner



COMIBASSAL International Controllers

الجمعية التعاونية لخدمات المعايرة 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

معتمد لدى الهيئة المصرية العامة للبترول
تحت رقم ٢٠١١/١١٠٢٩/٣٤

Report no : 65 / 2 / center
Date : 5 / 1 / 2023

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 الصفا للمقاولات

Project :

Electric express train

Sample :

COARSE AGGREGATE (Mix Agg)

Date of Test :

15/10/2022



Results

Speed	Rotate at 30 to 33 Rpm For 500 Revolution
Trial Grading	A
Intitial Weight (W1) gms	5000
Weight of tested sample (W2) gms Retained on sieve No.12	3755
% Wear By Weight Passing on Sieve No.12	24.9%

Civil Eng. Depart.



Eman

Eng: Eman E.Kandil

S5-B-SF

الإدارة، ٤٠ ش صفيّة زغلول - الإسكندرية - ١٥٧

٤٨٧٠٦٦٥ - ٤٨٦٩٧٩٨ - فاكس - ٤٨٧٠٥٧٣

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

Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع، خلف ٤٩ طريق الحرية - الإسكندرية - مصر

٣٩٢٠١٧٦ - ٣٩٣١٤٨٢ - فاكس - ٣٩٠٠٤٧٦

49 EL Horria Ave. - Alex, Egypt

Tel: 3920176 - 3931482 Fax: 3900476

E-mail : Internal-Inspection



الممسوحة ضوئياً بـ CamScanner



COMIBASSAL International Controllers

الجمعية التعاونية الانتاجية لأعمال الوزن والمراجعة والمختبر 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

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

الرقم : ٠٢٢/١/٧٢٩ معامل

التاريخ : ٢٠٢٢/١٠/١٧ م.

شهادة تحليل كيميائي

الإستشاري العام : سيسترا.

إستشاري هيئة الطرق والكباري : سيكترم للإستشارات الهندسية

المقاول : شركة الصفا للمقاولات

المشروع : القطار الكهربائي السريع

العينة : عينة سن خليط بتاريخ ٢٠٢٢/١٠/١٥

• مقدمة بمعرفة العميل لتقدير المواد العضوية و الكلوريدات و الكبريتات.

درجة حرارة المعمل : ٢٠°م الرطوبة النسبية : ٥٠ %

تاريخ و مكان التحليل : ٢٠٢٢/١٠/١٦ - كوميبصل المركز الدولي للتحاليل والاختبارات - العامرية.

المواصفة المستخدمة	النتائج	التحليل
ASTM D 2974	٠,٠٠١٧ %	الكلوريدات Cl^-
	٠,٠٠٣٢ %	الكبريتات So_3
	لا يوجد	المواد العضوية

مدير إدارة المعامل

مصطفى عسكر



N

S5-B-SF

الإدارة: ٤٠ شارع سفينة زغلول - الإسكندرية - ص.ب ١٥٧

ت. ٤٨٧٠٥٧٢ - ف. ٤٨٦٩٧٩٨ - ٤٨٧٠٦٦٥

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

Tel: 4870573 - Fax + Tel : 4869798 - 4870665



القطاع : خلف ٤٩ طريق الحرية - الإسكندرية - مصر

ت. ٣٩٢٠١٧٦ - ٣٩٣١٤٨٢ - ف. ٣٩٠٠٤٧٦

49 EL Horria Ave. - Alex; Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail : internal-inspection@comibassal.com

MATERIAL APPROVAL REQUEST

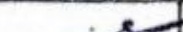


الهيئة العامة
لطرق و الجسور
(GARAB)



الهيئة العامة
للتخطيط والتنمية
الاقتصادية
(MPEDE)



Contractor Company		Al-Safa General Contracting Company			Designer Company				[SPECTRUM] Engineering Consulting Office				
Issued by Contractor	Name		Sign		Date/Serial Number				Time				
	Eng. Ahmed Ragab				4/11/2022				10:00				
					(SS-8-SF-Q7-Q20)								
Received by GARB CONSULTANT	Eng. Mazen Essamy				MAR		C1	C2	C3	DO	MM	YY	MM
							392	EW	CS	5	11	22	10

CODE-1	SIS	03	Kp 393+000
		EW	
		MS	

Description of Materials	Filter Layer (15000)m3.					
Location to be Used	From Station	REV29	392+900	To Station	REV29	393+600
		REV35	393+084		REV35	393+784
Sample only	Yes		Materials Type		Crushed stone #1-#2	
Supplier Name	ALBARAKA CRUSHER		Data Sheet provided		Yes attached	
Reference in BoQ			Specification		EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-122.1) VERSION1-2022 BY CIVECON GROUP	
Prequalification reference			Test Samples Results		Yes attached	
Reference Photos	No		Other			
Comments by: Eng. Mazen Essamy (SPECTRUM)			Comments by: Eng. Alaa Abd-Allatif (ER)			
1-Quality test Results by Third Party Lab (COMIBASSAL) IS Approved			1-All testes carried-out Third Party Lab (COMIBASSAL).			
This Sample Representative (5000 m3) only .			2-Results report attached and acceptable with the project specifications.			



APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
	Eng. Ahmed Ragab			A
	Eng. Mazen Essamy			A
	Eng. Mohammed Fayad			
	Eng. Alaa Abd-Allatif			A

Designer

Alignment/Bridges: Culvert only



الهيئة العامة للإسكان

Serial No.
QT
(20)

مكتب أ.د. عماد نبيل

Date
8/11/2022Electrical Express Train From Borg
Alarab to Alamein
From Station 325+393 To Station

Material Inspection Request

We request your attendance to inspect the following works :

Discipline : ☒ Material submittal ☐ FIELD DENSITY TEST ☐ PLATE LOAD TEST

Location :	Zone	From Station	To Station	Quantity
	alsafa CO. for Contracting	392+900	393+600	15000 M3

References Specification: EET L1.1, Earthworks Specifications and Testing Report

Purpose of the Inspection

1. Earthworks

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

S5-B-SF

Attachments

1- Quality Tests Report

2-

3-

4-

5-

6-

7-

8-

Works To be Inspected

Quality Tests For Crushed Stone Mix Aggregate(1-2&3) by COMIBASSAL Laboratory

Submitted by: alsafa CO. for Contracting

Signature: Ahmed Ragab

GARP Consultant Engineer's Comments :

Date of Inspection:- 08 / 11 /2022

The quality test result of filter Aggregates
equal portion is ok

The sample representative 5000 m' only

The works are : ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revised Resubmit (C)

Name:

Signature:

General Consultant's Comments:

Date:-

- 1- one sample was selected for Quality Test.
- 2- Quality test was carried out by third part lab [Comibassal]
- 3- Results attached and found acceptable and comply with Proj - spec
- 4- final approval is subject to above mentioned comments

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

Name:

Signature:

GARP Engineer's Comments:

Date:-

Name:

Signature:

General Consultant Eng.

GARP Eng.





COMIBASSAL International Controllers

الجمعية التعاونية لأعمال الوزن والمراجعة والخبرة الدولية (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No.: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

متمتع لدى الهيئة المصرية العامة للبترو
تحت رقم ٢٩ / ٢٤ / ١١٠١١٠٢٠١١

ABSORPTION AND SPECIFIC GRAVITY FOR COARSE AGGREGATE

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

PROJECT: Electric Express Train

DATE: 05/11/2022

General Consultant :- SYSTRA

Consultant :- SPECTRUM

CONTRACTOR: شركة الصفا للمقاولات

Material / Source of Soil :- Agg. Crushed Stone. (خليط سن)

LAB. REF. Q.C. 1934/1

TRIAL NO	1	2	AVERAGE
A. WEIGHT OF Oven Dry TEST SAMPLE IN AIR (g)	5000.0	4010.0	4505.0
B. WEIGHT OF S.S.D. TEST SAMPLE IN AIR. (g)	5047.0	4048.0	4547.5
C. WEIGHT OF S. TEST SAMPLE IN WATER. (g)	3101.0	2485.0	2793.0
D. ABSORPTION = (B - A)	47.0	38.0	42.5
E. ABSORPTION % = [(B - A)/A] X 100	0.94	0.95	0.94
F. SPECIFIC GRAVITY:			
a) Bulk sp. Gr. , Oven Dry { A / (B - C) }	2.57	2.57	2.57
b) Bulk, Sat. Surface Dry { B / (B - C) }	2.59	2.59	2.59
c) Apparent sp. Gr. { A / (A - C) }	2.63	2.63	2.63

Tested By : Mostfa

Checked By : Eng. Eman E. Kandil

S5-B-SF

إدارة أعمال ش.م.ك. ز. لؤلؤ - الإسكندرية - ص.ب ١٥٧
ت. ٤٨٦٩٧٩٨ - فاكس: ٤٨٦٩٧٩٨ - ٤٨٧٠٦٦٥

40safia zaghloul st., p.o.Box 157 Alex, Egypt
Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع خلف ٤٩ طريق الحرية - الإسكندرية - مصر
ت. ٣٩٢١٤٨٢ - ٣٩٢٠١٧٩ - فاكس: ٣٩٠٠٤٧٦

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



COMIBASSAL International Controllers

الجمعية التعاونية الاستشارية لأعمال الوزن والمراجعة والتحليل الكيميائية (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

Report No:

1454 - 2 - center

Date:

26/12/2022

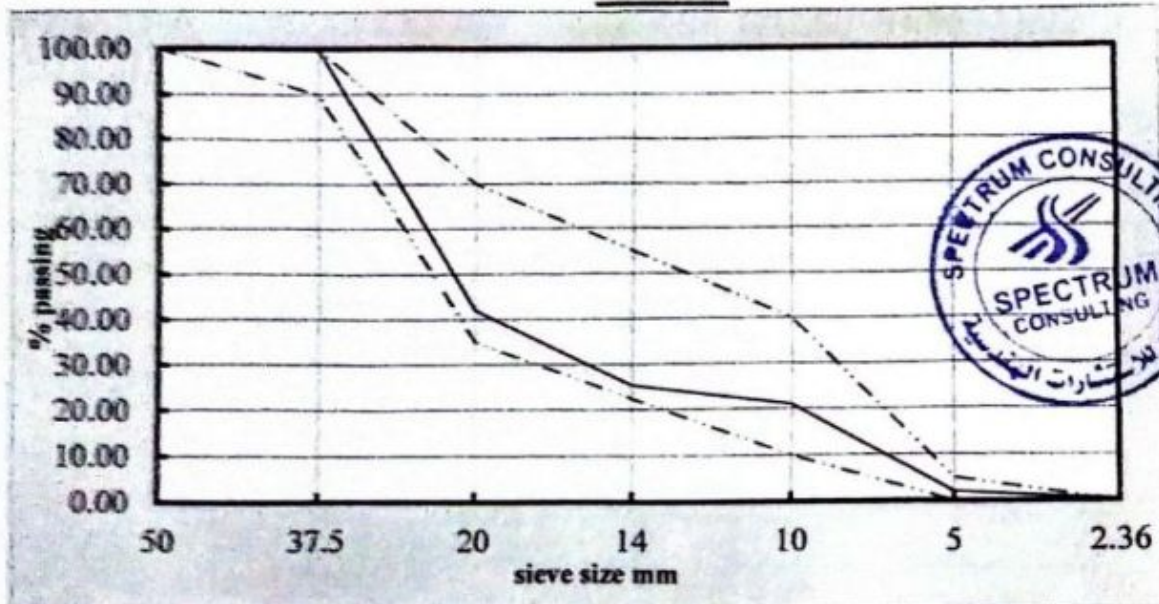
قطاع التفتيش الداخلي والمعامل

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

SIEVE ANALYSIS FOR COARSE AGGREGATE

General consultant : SYSTRA
Consultant : SPECTRUM
Contractor : شركة الصفا للمقاولات
Project : Electric express train
Test method : BS 882 Table 4. 40-5 mm
Sample : COARSE AGGREGATE (Mix Agg)
Date of Test : 5/11/2022

Results



sieve size mm	50	37.5	20	14	10	5	2.36
passing %	100	100	42	25	21	2	0

S5-B-SF



Civil. Eng Department

Eng : Eman. E. Kandil





COMIBASSAL International Controllers

الجمعية التعاونية لاختبار المواد لاختبار الوزن والمراجعة والخبرة الدولية (أكاديمية)

حاصلة على شهادة الأيزو ISO 9001:2015

Accredited by:

Egyptian General Authority for Petroleum
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

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

Report no: 65 / 3 /center
Date: 5 / 1 / 2023

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 الصفا للمقاولات

Project :

Electric express train

Sample :

COARSE AGGREGATE (Mix Agg)

Date of Test :

05/11/2022

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	3650
% Wear By Weight Passing on Sieve No.12	27.0%

Civil Eng. Depart.

S5-B-SF



Ceman
Eng: Eman E. Kandil



الإدارة: ٤٠ ش. صفيية زغلول - الإسكندرية - ب ١٥٧
ت: ٤٨٧٠٥٧٢ - ف: ٤٨٧١٧٨ - ٤٨٧٠٦٦٥
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القطاع خلف ٤٩ طريق الحرية - الإسكندرية - مصر
ت: ٣٩٢٠١٧٦ - ٣٩٣١٤٨٢ - ف: ٣٩٠٠٤٧٦
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Eng. Alaa Abd-Allah



COMIBASSAL International Controllers

الجمعية التعاونية الانتاجية لأعمال الوزن والمراجعة والبطيرة الدولية (كوميباسال)

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

قطاع التفتيش الداخلي والمعامل

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

الرقم : ٠٢٢/٢/٧٢٩٩ معام

التاريخ : ٢٠٢٢ / ١١ / ٧ م.

شهادة تحليل كيميائي

الإستشاري العام : سيسترا.

إستشاري هيئة الطرق والكباري : سيكترم للإستشارات الهندسية

المقاول : شركة الصفا للمقاولات

المشروع : القطار الكهربائي السريع

العنوان : عينة سن خليط بتاريخ ٢٠٢٢/١١/٥

• مقدمة بمعرفة العميل لتقدير المواد العضوية و الكلوريدات و الكبريتات.

درجة حرارة المعمل : ٢٠° م الرطوبة النسبية : ٥٠ %

تاريخ و مكان التحليل : ٢٠٢٢/١١/٦ - كوميبصل المركز الدولي للتحاليل والاختبارات - العامرية.

المواصفة المستخدمة	النتائج	التحليل
ASTM D 2974	٠,٠٠١٤ %	الكلوريدات Cl^-
	٠,٠٠٣٦ %	الكبريتات SO_3
	لا يوجد	المواد العضوية



مدير إدارة المعامل

ك. / مصطفى عسكر

S5-B-SF



N

الإدارة: ٤٠، ش صفية زغلول - الإسكندرية - مصر
٤٨٧-٥٧٢ - ٤٨٦٩٧٩٨ - ٤٨٧-٦٦٥
40safia zaghloul st., p.o.Box 157 Alex, Egypt
Tel: 4870573 - Fax + Tel : 4869798 - 4870665

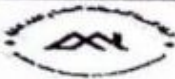


القطاع خلف ٤٩ طريق الحرية - الإسكندرية - مصر
٣٩٠٠١٧٦ - ٣٩٣١٤٨٢ - ٣٩٠٠٤٧٦
49 EL Horria Ave -Alex; Egypt
Tel: 3920176 - 3931482 - Fax: 3900476
E-mail : internal-inspection@comibassal.cc



CamScanner

المسوحة ضوئياً بـ CamScanner

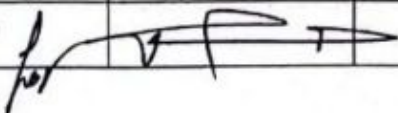
MATERIAL INSPECTION REQUEST										
	المطرق و الإنشاءات (GARB)		المخطط (GARB)		المساكن (GARB)		المياه (GARB)		الكهرباء (GARB)	

Contractor Company	AL-Safa General Contracting & Road Construction			Designer Company	(SPECTRUM) Engineering Consulting Office						
Issued by Contractor	Name	Sign		Date/Serial Number	Time						
	Eng. Ahmed Ragab			16/1/2023 (55-B-SF-PLT-007)	10:00 AM						
Received by GARB CONSULTANT	Eng. Mazen Essamy		MIR	C1	C2	C3	DO	MM	YY	HH	MM
				393	EW	CS	17	1	23	10	0

CODE-1	51 to 521	D1 to 53	Kp XXX Note
	Station Reference	Depot Reference	For Kilometer point only Start Km is used
	Work Activity		
	Sub Element of Activity		

Description of Materials	Filter Layer (level 6.80).				REV
Location to be Used	From	392+900	TO	393+600	25
	From	393+084	TO	393+784	35
MAR & UIR Approval No	UIR (55-B-SF-"FF-01-2-3&4"		Date	3-7/1/2023	
	MAR (55-B-SF-"QT-14-18-20-24-28-34-36")			7/9/2022 : 7/1/2023	
Supplier Name	EL-BARAKA CRUCHER				
Test Requirement	PLT (DIN 18314)		Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (C321 41.2) VERSION 2 BY CIVECON GROUP	
Reference Photos	No/Yes		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	PLT (DIN 18314)	NUMBER	7	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 PLT is Approved	1-P.L.T was carried -out by EJUST Laboratory . 2-Results report attached and acceptable with project specification.

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

* Designer
** Alignment/Bridges: Culvert only



المينى العامة
للمواصلات والبنية التحتية
(GARB)



SPECTRUM Engineering Consulting Office



Company	AL-Safa General Contracting Company		Designer Company		SPECTRUM Engineering Consulting Office						
Contractor	Name	Sign	Date/Serial Number		Time						
	Eng. Ahmed Ragab		17/1/2023		10:00 AM						
			(PLT 07)								
Received by GARB CONSULTANT	Eng. Mazen Essamy		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				392	EW	CS	17	1	23	10	0

CODE 1	S1 TO S21	D1 TO D3 Depot Reference	Kp 392+000
	Station Reference	Depot Reference	For Kilometer point only Start Km is used
CODE 2	Work Activity		
CODE 3	Sub Element of Activity		

Description of Materials	Filter Layer (Level 6.80)				
Location to be Used	From	392+900	TO	393+600	
MAR & UIR Approval No	F.(F.F 01-02-03 &4)		Date	1/17/2023	
	M.A.R.(14-18-20-24-28-34&36)				
Supplier Name	Crushed Stone				
Test Requirement	PLT (DIN 18314)		Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-122-1) VERSION 1 -2022 BY CIVECON GROUP	
Reference Photos	No/Yes		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	PLT (DIN 18314)	NUMBER	7	17/1/2023	
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 18314) is approved.	1-P.L.T was carried - out by EGYPT - JAPAN UNIVERSITY OF SCIENCE & TECHNOLOGY 2-Results report attached and acceptable with project specifications. 3-Final approval is subject to above mentioned comments.

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Ahmed Ragab		23/01/2023	A
QA/QC *	Eng. Mazen Essamy			A
GARB**	Eng. Mohammed Fayad			
Employers	Eng. Alaa Abd-Allatif		27/01/2023	A.M.C



Technical Report

Plate Loading Tests

KM 393+550, KM 393+450,
KM 393+350, KM 393+250,
KM 393+150, KM 393+050,
and KM 392+950

S5-B-SF

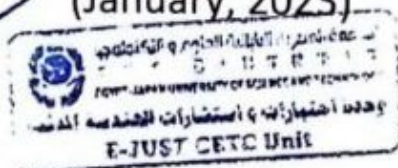
Project

**Electric Express Train (Sokhna - New capital - 6th
of October city - New Elalamein city)**

Prepared for
Al-Safa Contracting Company

55 Mazadat land - Sheikh Zayed - Ismailia

(January, 2023)



4. Closure

Test results presented herein report the load-settlement data obtained from 7 plate loading tests conducted on the Crushed Stone Filter Layer of the Electric Express train project at 7 locations (KM 393+550, KM 393+450, KM 393+350, KM 393+250, KM 393+150, KM 393+050, and KM 392+950) in accordance with German Standard, DIN18134.

Location	E_{v1} MN/m ²	E_{v2} MN/m ²	E_{v2}/E_{v1} ratio
KM 393+550	57.89	109.42	1.89
KM 393+450	70.91	124.06	1.75
KM 393+350	35.44	106.17	3.00
KM 393+250	52.49	84.65	1.61
KM 393+150	63.77	103.99	1.63
KM 393+050	51.06	87.36	1.71
KM 392+950	48.19	94.44	1.96

• Note: Before interpreting these test results for future applications, the Crushed Stone Filter Layer in-situ variability between the testing locations should be considered.

Technical committee

Dr. Mahmoud Ahmed

Prof. Dr. Mohamed E. M. Fakhry



Lab Engineer

Mohamed A. Al-Najjar



S5-B-SF



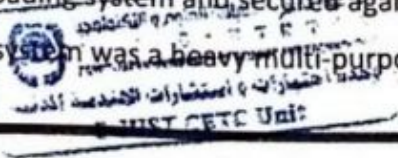
1. Introduction

The Civil Engineering Testing & Consulting Unit (CETCU) of the Egypt-Japan University of Science and Technology (EJUST) was retained by Al-Safa Contracting Company to conduct 7 plate loading tests on the Crushed Stone Filter Layer of the Electric Express Train project at 7 locations (KM 393+550, KM 393+450, KM 393+350, KM 393+250, KM 393+150, KM 393+050, and KM 392+950) in accordance with the German Standard DIN18134. The mandate was communicated by Eng. Ahmed Rajab Abdeen of Al-Safa Contracting Company. Field team members (Mr. Mohamed Mamdouh) from the working CETCU team visited the project site on January 12, 2023 and performed the required tests. This report summarizes the plate loading test procedure according to DIN18134, the test results and their interpretations, and the CETCU pertaining recommendations.

S5-B-SF

2. Test Set Up and Instrumentation

- The German standard DIN18134 was applied to define the test setup including the loading system, test conditions, and procedure for the plate loading tests.
- The tests were carried out to determine the Strain Moduli (E_{v1} and E_{v2}) and their ratio (E_{v2}/E_{v1}) from a stress – deformation relationship of two consecutive loading from Loading-Unloading-Loading regime.
- The loading plate has a diameter of 600 mm and a thickness of 25 mm and it is provided with equally spaced stiffeners. The upper plate face is parallel to the bottom face of the plate to allow a 300-mm plate to be placed on the 600-mm plate top.
- The loading system consisted of a hydraulic pump connected to a hydraulic jack of 700 bar capacity, which can apply and release the load increments.
- The dial gauge used to measure the plate settlement has a resolution of 0.01 mm and the lever ratio was equal to 1.
- The temperature at the time of the test was $16 \pm 1^\circ\text{C}$.
- The plate was carried out on a Crushed Stone Filter Layer (according to the company) at 7 points. The test surface area was levelled, and the plate was bedded on this surface.
- The hydraulic jack was placed on the middle of, and normal to, the loading plate beneath the reaction loading system and secured against tilting.
- The reaction loading system was a heavy multi-purpose Loader KAWSAKI



3. Test Procedure and Results

The plate load test was conducted in accordance with the DIN18134. Loading, unloading, and reloading regimes were considered to estimate the resilient modulus of the tested soil. Prior to the test, the force transducer and dial gauge were reset to zero, and then a load corresponding to a stress of 0.01 MN/m² was applied. The load was increased in the first loading cycle until a normal stress of 0.25 MN/m² was reached, and the loading increment was 0.025 MN/m². The load was gradually released in four stages. Following unloading, a second loading cycle was performed, but the load was only increased to the penultimate stage of the first cycle. 7 plate loading tests on the Crushed Stone Filter Layer of the Electric Express Train project were conducted at 7 locations (KM 393+550, KM 393+450, KM 393+350, KM 393+250, KM 393+150, KM 393+050, and KM 392+950) and the data collected at the 7 test points is included in Appendix A.

Table 1 presents the load-settlement data obtained at the first loading and unloading stages of the plate loading test performed at the location (KM 393+550), while Table 2 shows the data obtained at the second loading stage.

S5-B-SF

Table 1: Load-settlement data obtained at the first loading and unloading stages of the plate loading test performed at the location (KM 393+550)

Loading stage	Load (F) kN	Normal MN/m ²	Settleme mm
0	1.414	0.005	0.00
1	7.07	0.025	0.18
2	14.14	0.050	0.34
3	21.21	0.075	0.61
4	28.28	0.100	0.85
5	35.35	0.125	1.00
6	42.42	0.150	1.20
7	49.49	0.175	1.38
8	56.56	0.200	1.53
9	63.63	0.225	1.70
10	70.7	0.250	1.90
11	56.56	0.200	1.90
12	49.49	0.175	1.89
13	35.35	0.125	1.74
14	21.21	0.075	1.54
15	1.414	0.005	0.97

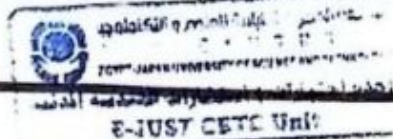


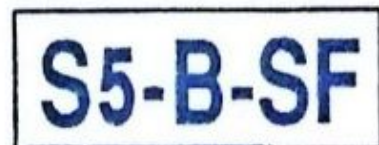
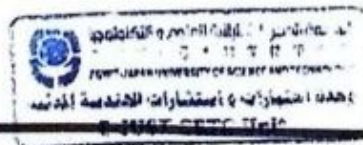
Table 2: Load-settlement data obtained at the second loading and unloading stages of the plate loading test performed at the location (KM 393+550)

Loading stage	Load (F)	Normal stress (s_v)	Settlement (s)
	kN	MN/m ²	mm
0	1.414	0.005	0.97
1	7.07	0.025	1.20
2	14.14	0.050	1.30
3	21.21	0.075	1.40
4	28.28	0.100	1.53
5	35.35	0.125	1.64
6	42.42	0.150	1.72
7	49.49	0.175	1.83
8	56.56	0.200	1.90
9	63.63	0.225	1.97

The load-settlement data obtained in all loading and unloading stages for the test performed at the first location (KM 393+550) are shown in Figure 1. Table 3 shows the calculations of the resilient modulus of the tested soil according to DIN18134. The testing data corresponding to the second testing point (KM 393+450) is provided in Tables 4-6 and Figure 2. The testing data corresponding to the third testing point (KM 393+350) is provided in Tables 7-9 and Figure 3. The testing data corresponding to the fourth testing point (KM 393+250) is provided in Tables 10-12 and Figure 4. The testing data corresponding to the fifth testing point (KM 393+150) is provided in Tables 13-15 and Figure 5.

Table 3: Calculations of the resilient modulus of the tested soil according to DIN18134: (KM 393+550)

Parameters	1st loading cycle	2nd loading cycle
$(s_v \text{ max}) \text{ MN/m}^2$	0.25	0.25
$s_v \text{ (mm)}$	-0.07	0.99
$a_1 \text{ (mm/(MN/m}^2\text{))}$	9.39	6.35
$a_2 \text{ (mm/(MN}^2\text{/m}^2\text{))}$	-6.49	-8.95
$E_v = 1.5 r / (a_1 + a_2 \cdot s_v \text{ max})$	57.89	109.42
E_{v2}/E_{v1}	1.89	



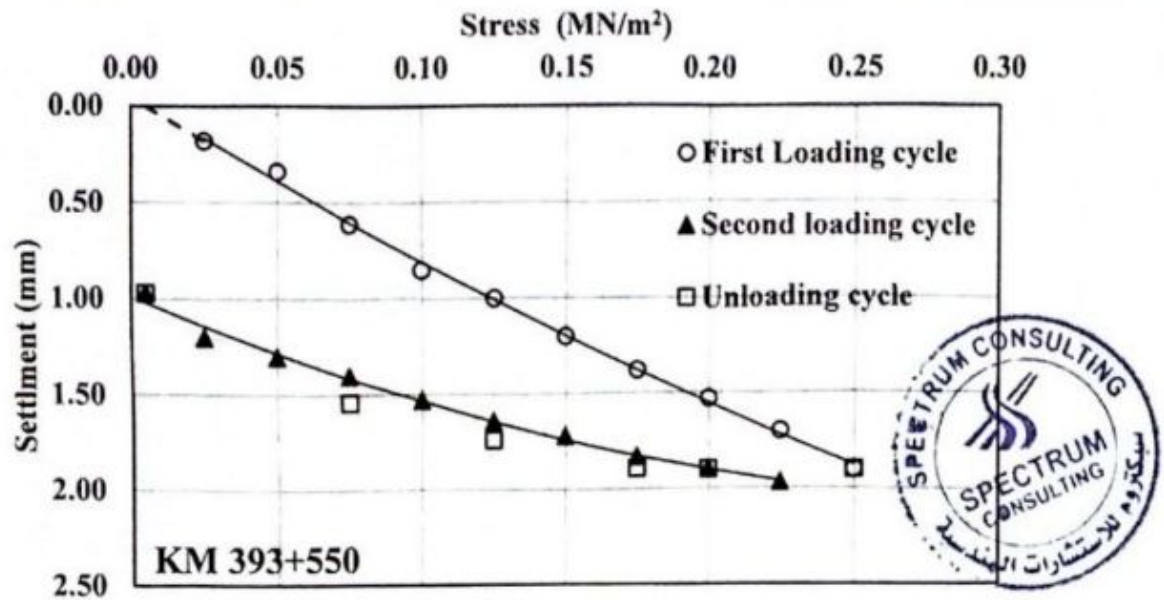


Figure 1: Load-settlement data: plate loading test performed at (KM 393+550)

Table 4: Load-settlement data obtained at the first loading and unloading stages of the plate loading test performed at the location (KM 393+450)

Loading stage	Load (F)	Normal stress (s_v)	Settlement (S)
	kN	MN/m ²	mm
0	1.414	0.005	0.00
1	7.07	0.025	0.10
2	14.14	0.050	0.22
3	21.21	0.075	0.41
4	28.28	0.100	0.64
5	35.35	0.125	0.79
6	42.42	0.150	0.95
7	49.49	0.175	1.10
8	56.56	0.200	1.20
9	63.63	0.225	1.33
10	70.7	0.250	1.43
11	56.56	0.200	1.43
12	49.49	0.175	1.39
13	35.35	0.125	1.29
14	21.21	0.075	1.14
15	1.414	0.005	0.63

Table 5: Load-settlement data obtained at the second loading and unloading stages of the plate loading test performed at the location (KM 393+450)

Loading stage	Load (F)	Normal stress (s_v)	Settlement (S)
	kN	MN/m ²	mm
0	1.414	0.005	0.63
1	7.07	0.025	0.78
2	14.14	0.050	0.88
3	21.21	0.075	0.97
4	28.28	0.100	1.09
5	35.35	0.125	1.19
6	42.42	0.150	1.28
7	49.49	0.175	1.33
8	56.56	0.200	1.41
9	63.63	0.225	1.49

Table 6: Calculations of the resilient modulus of the tested soil according to DIN18134: (KM 393+450)

Parameters	1st loading cycle	2nd loading cycle
($s_{v,max}$) MN/m ²	0.25	0.25
a_0 (mm)	-0.15	0.62
a_1 (mm/(MN/m ²))	8.63	5.33
a_2 (mm/(MN ² /m ⁴))	-9.16	-6.79
$E_v = 1.5 r / (a_1 + a_2 \cdot s_{v,max})$	70.91	124.06
E_{v2}/E_{v1}	1.75	

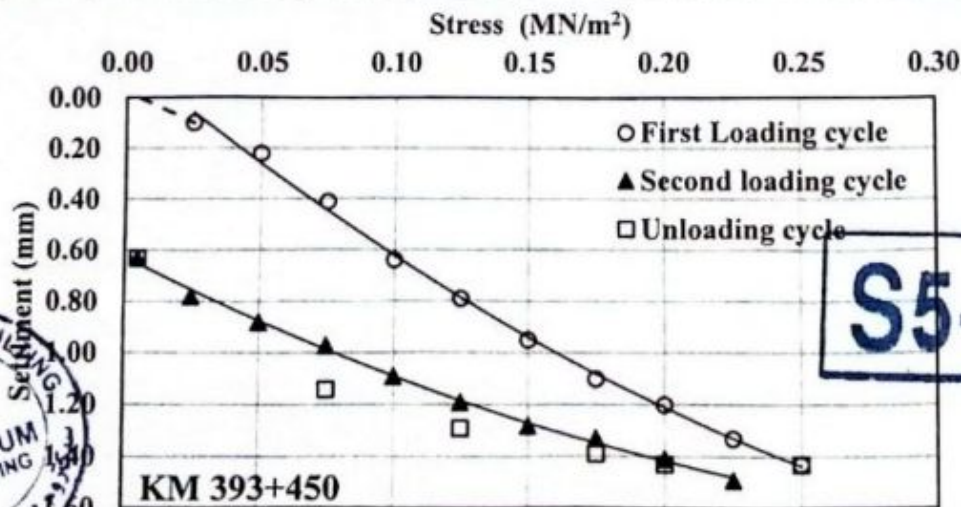


Figure 2: Load-settlement data: plate loading test performed at (KM 393+450)

Table 7: Load-settlement data obtained at the first loading and unloading stages of the plate loading test performed at the location (KM 393+350)

Loading stage	Load (F)	Normal stress (s_v)	Settlement (S)
	kN	MN/m ²	mm
0	1.414	0.005	0.00
1	7.07	0.025	0.30
2	14.14	0.050	0.46
3	21.21	0.075	0.84
4	28.28	0.100	1.33
5	35.35	0.125	1.69
6	42.42	0.150	1.95
7	49.49	0.175	2.30
8	56.56	0.200	2.50
9	63.63	0.225	2.68
10	70.7	0.250	2.88
11	56.56	0.200	2.88
12	49.49	0.175	2.83
13	35.35	0.125	2.73
14	21.21	0.075	2.59
15	1.414	0.005	2.03

Table 8: Load-settlement data obtained at the second loading and unloading stages of the plate loading test performed at the location (KM 393+350)

Loading stage	Load (F)	Normal stress (s_v)	Settlement (S)
	kN	MN/m ²	mm
0	1.414	0.005	2.03
1	7.07	0.025	2.33
2	14.14	0.050	2.41
3	21.21	0.075	2.50
4	28.28	0.100	2.60
5	35.35	0.125	2.70
6	42.42	0.150	2.79
7	49.49	0.175	2.88
8	56.56	0.200	3.00
9	63.63	0.225	3.12

Table 9: Calculations of the resilient modulus of the tested soil according to DIN18134: (KM 393+350)

Parameters	1st loading cycle	2nd loading cycle
$(s_v)_{max}$ MN/m ²	0.25	0.25
a_0 (mm)	-0.27	2.10
a_1 (mm/(MN/m ²))	17.90	5.57
a_2 (mm/(MN ² /m ⁴))	-20.80	-5.33
$Ev = 1.5 r / (a_1 + a_2 \cdot s_v)_{max}$	35.44	106.17
Ev_1/Ev_2	3.00	

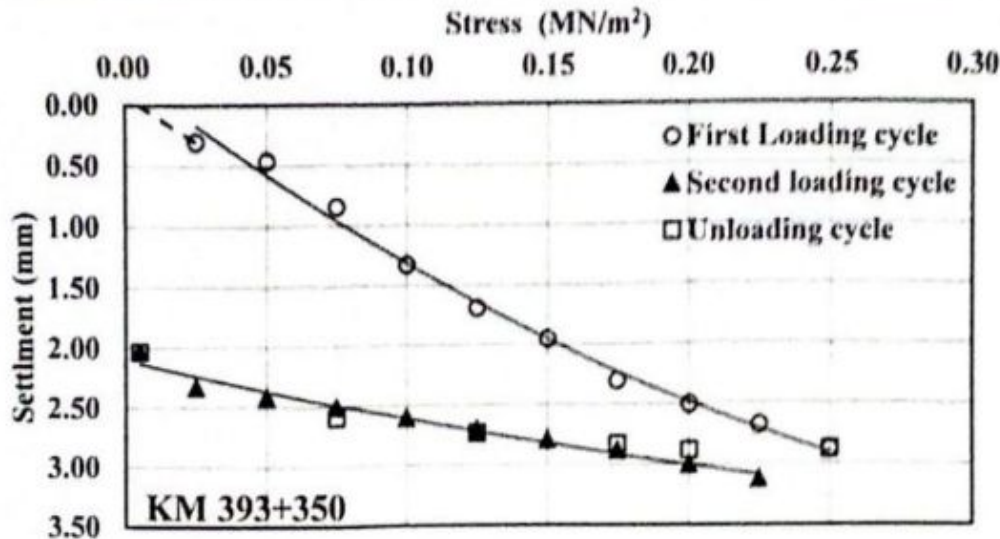


Figure 3: Load-settlement data: plate loading test performed at (KM 393+350)

Table 10: Load-settlement data obtained at the first loading and unloading stages of the plate loading test performed at the location (KM 393+250)

Loading stage	Load (F)	Normal stress (σ_n)	Settlement (S)
	kN	MN/m^2	mm
0	1.414	0.005	0.00
1	7.07	0.025	0.23
2	14.14	0.050	0.31
3	21.21	0.075	0.49
4	28.28	0.100	0.72
5	35.35	0.125	0.91
6	42.42	0.150	1.20
7	49.49	0.175	1.47
8	56.56	0.200	1.66
9	63.63	0.225	1.89
10	70.7	0.250	2.07
11	56.56	0.200	2.07
12	49.49	0.175	2.03
13	35.35	0.125	1.87
14	21.21	0.075	1.70
15	1.414	0.005	1.02

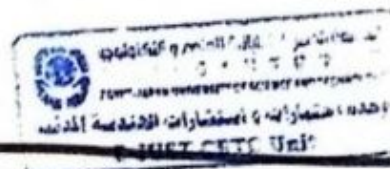


Table 11: Load-settlement data obtained at the second loading and unloading stages of the plate loading test performed at the location (KM 393+250)

Loading stage	Load (F)	Normal stress (σ_v)	Settlement (S)
	kN	MN/m ²	mm
0	1.414	0.005	1.02
1	7.07	0.025	1.13
2	14.14	0.050	1.35
3	21.21	0.075	1.45
4	28.28	0.100	1.59
5	35.35	0.125	1.76
6	42.42	0.150	1.86
7	49.49	0.175	1.97
8	56.56	0.200	2.10
9	63.63	0.225	2.23

Table 12: Calculations of the resilient modulus of the tested soil according to DIN18134: (KM 393+250)

Parameters	1st loading cycle	2nd loading cycle
($\sigma_{v, \max}$) MN/m ²	0.25	0.25
s_v (mm)	-0.02	0.99
a_1 (mm/(MN/m ²))	7.00	6.66
a_2 (mm/(MN ² /m ⁴))	6.31	-5.38
$E_v = 1.5 r / (a_1 + a_2 \cdot \sigma_{v, \max})$	52.49	84.65
E_{v2}/E_{v1}	1.61	

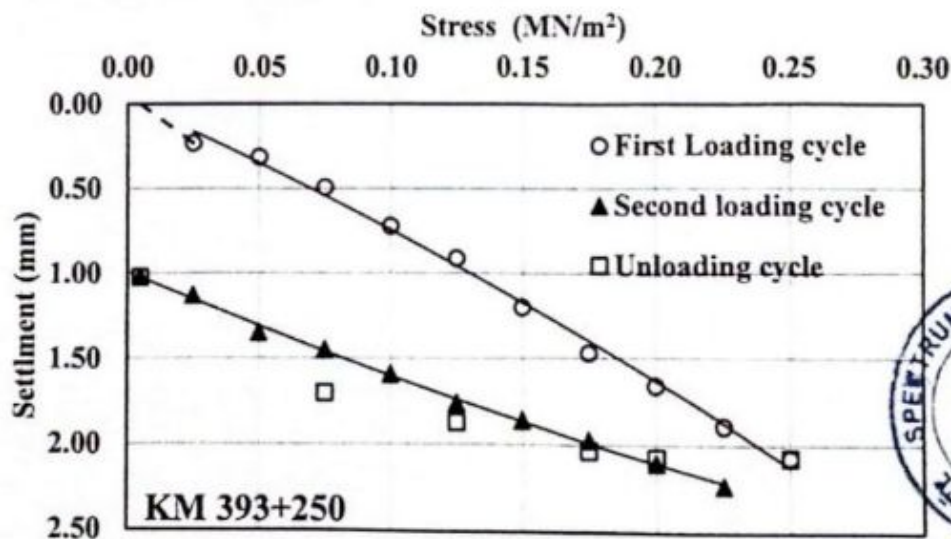


Figure 4: Load-settlement data: plate loading test performed at (KM 393+250)

Table 13: Load-settlement data obtained at the first loading and unloading stages of the plate loading test performed at the location (KM 393+150)

Loading stage	Load (F)	Normal stress (s_0)	Settlement (S)
	kN	MN/m ²	mm
0	1.414	0.005	0.00
1	7.07	0.025	0.25
2	14.14	0.050	0.35
3	21.21	0.075	0.49
4	28.28	0.100	0.70
5	35.35	0.125	0.87
6	42.42	0.150	1.05
7	49.49	0.175	1.27
8	56.56	0.200	1.45
9	63.63	0.225	1.65
10	70.7	0.250	1.77
11	56.56	0.200	1.77
12	49.49	0.175	1.69
13	35.35	0.125	1.60
14	21.21	0.075	1.44
15	1.414	0.005	0.80

Table 14: Load-settlement data obtained at the second loading and unloading stages of the plate loading test performed at the location (KM 393+150)

Loading stage	Load (F)	Normal stress (s_0)	Settlement (S)
	kN	MN/m ²	mm
0	1.414	0.005	0.80
1	7.07	0.025	1.00
2	14.14	0.050	1.12
3	21.21	0.075	1.21
4	28.28	0.100	1.35
5	35.35	0.125	1.45
6	42.42	0.150	1.55
7	49.49	0.175	1.64
8	56.56	0.200	1.74
9	63.63	0.225	1.84

Table 15: Calculations of the resilient modulus of the tested soil according to DIN18134: (KM 393+150)

Parameters	1st loading cycle	2nd loading cycle
($s_{0,max}$) MN/m ²	0.25	0.25
s_0 (mm)	0.05	0.81
a_1 (mm/(MN/m ²))	6.16	5.93
a_2 (mm/(MN ² /m ⁴))	3.58	-6.42
$E_v = 1.5 r / (a_1 + a_2 \cdot s_{0,max})$	63.77	103.99
E_{v2}/E_{v1}		1.63

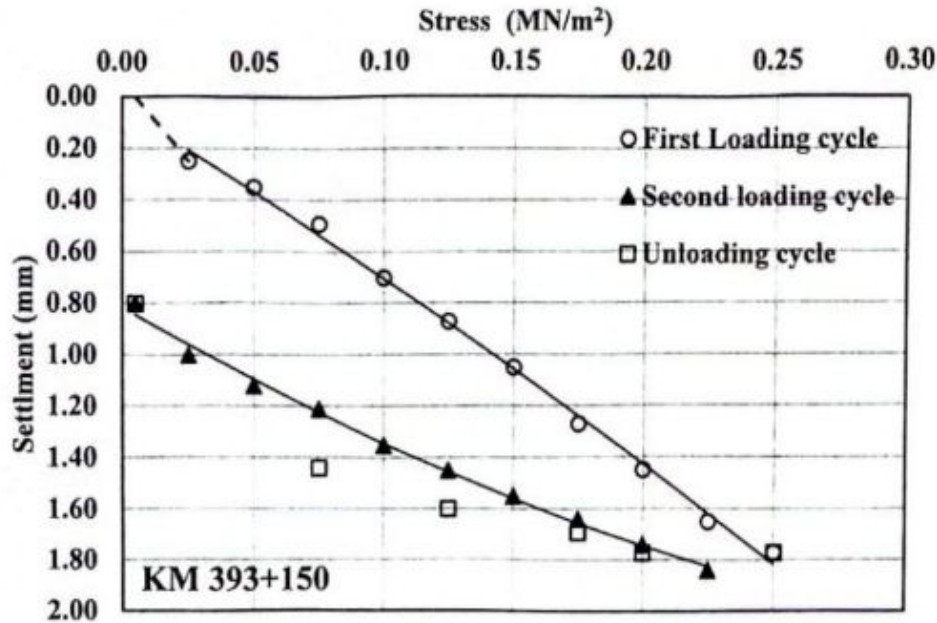


Figure 5: Load-settlement data: plate loading test performed at (KM 393+150)

The testing data corresponding to the sixth testing point (KM 393+050) is provided in Tables 16-18 and Figure 6. The testing data corresponding to the seventh testing point (KM 392+950) is provided in Tables 19-21 and Figure 7.

S5-B-SF

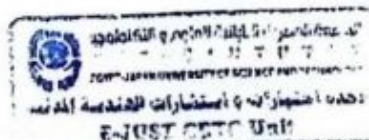


Table 16: Load-settlement data obtained at the first loading and unloading stages of the plate loading test performed at the location (KM 393+050)

Loading stage	Load (F)	Normal stress (s_0)	Settlement (S)
	kN	MN/m ²	mm
0	1.414	0.005	0.00
1	7.07	0.025	0.20
2	14.14	0.050	0.32
3	21.21	0.075	0.46
4	28.28	0.100	0.73
5	35.35	0.125	1.00
6	42.42	0.150	1.20
7	49.49	0.175	1.48
8	56.56	0.200	1.69
9	63.63	0.225	1.90
10	70.7	0.250	2.10
11	56.56	0.200	2.10
12	49.49	0.175	2.03
13	35.35	0.125	1.90
14	21.21	0.075	1.73
15	1.414	0.005	0.99

Table 17: Load-settlement data obtained at the second loading and unloading stages of the plate loading test performed at the location (KM 393+050)

Loading stage	Load (F)	Normal stress (s_0)	Settlement (S)
	kN	MN/m ²	mm
0	1.414	0.005	0.99
1	7.07	0.025	1.22
2	14.14	0.050	1.31
3	21.21	0.075	1.45
4	28.28	0.100	1.60
5	35.35	0.125	1.72
6	42.42	0.150	1.84
7	49.49	0.175	1.97
8	56.56	0.200	2.08
9	63.63	0.225	2.20

Table 18: Calculations of the resilient modulus of the tested soil according to DIN18134: (KM 393+050)

Parameters	1st loading cycle	2nd loading cycle
($s_{0, \max}$) MN/m ²	0.25	0.25
a_0 (mm)	-0.06	1.00
a_1 (mm/(MN/m ²))	7.81	6.43
a_2 (mm/(MN ² /m ²))	-4.00	-5.11
$E_v = 1.5 \pi / (a_1 + a_2 \cdot s_{0, \max})$	51.06	87.36
E_{v1}/E_{v2}	1.71	



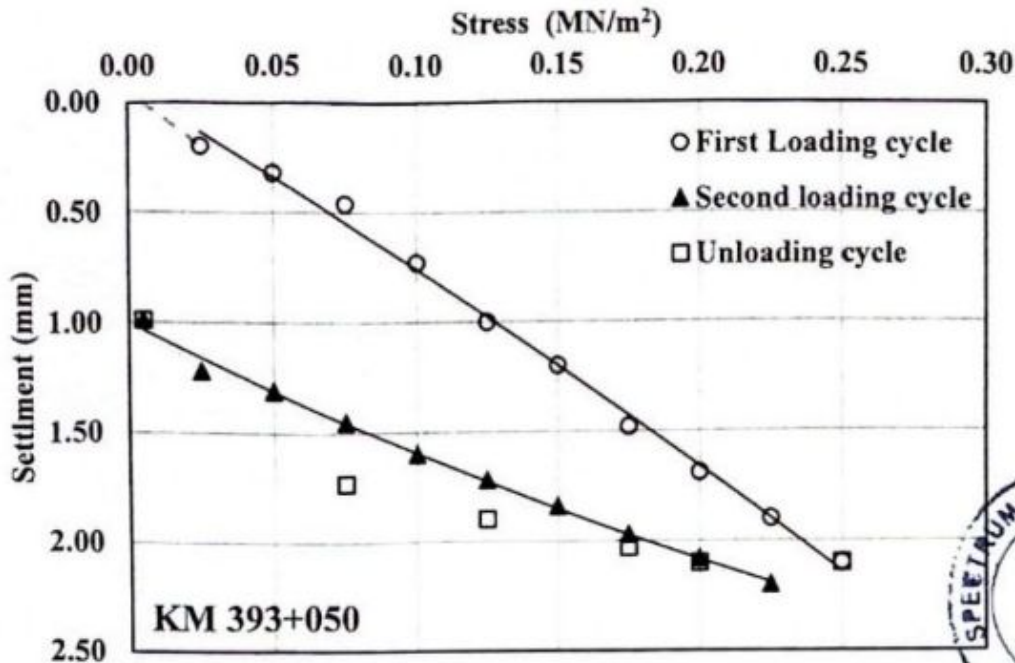


Figure 6: Load-settlement data: plate loading test performed at (KM 393+050)

Table 19: Load-settlement data obtained at the first loading and unloading stages of the plate loading test performed at the location (KM 392+950)

Loading stage	Load (F)	Normal stress (s ₀)	Settlement (S)
	kN	MN/m ²	mm
0	1.414	0.005	0.00
1	7.07	0.025	0.24
2	14.14	0.050	0.40
3	21.21	0.075	0.50
4	28.28	0.100	0.70
5	35.35	0.125	0.97
6	42.42	0.150	1.25
7	49.49	0.175	1.59
8	56.56	0.200	1.80
9	63.63	0.225	2.08
10	70.7	0.250	2.32
11	56.56	0.200	2.32
12	49.49	0.175	2.30
13	35.35	0.125	2.17
14	21.21	0.075	1.95
15	1.414	0.005	1.31

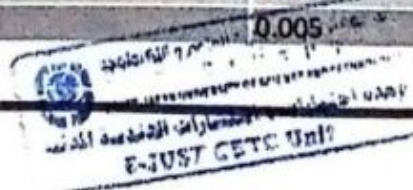


Table 20: Load-settlement data obtained at the second loading and unloading stages of the plate loading test performed at the location (KM 392+950)

Loading stage	Load (F)	Normal stress (σ_0)	Settlement (S)
	kN	MN/m ²	mm
0	1.414	0.005	1.31
1	7.07	0.025	1.58
2	14.14	0.050	1.67
3	21.21	0.075	1.75
4	28.28	0.100	1.90
5	35.35	0.125	2.02
6	42.42	0.150	2.11
7	49.49	0.175	2.24
8	56.56	0.200	2.35
9	63.63	0.225	2.47

Table 21: Calculations of the resilient modulus of the tested soil according to DIN18134: (KM 392+950)

Parameters	1st loading cycle	2nd loading cycle
$(\sigma_0 \text{ max}) \text{ MN/m}^2$	0.25	0.25
$a_0 \text{ (mm)}$	0.04	1.35
$a_1 \text{ (mm/(MN/m}^2\text{))}$	5.90	5.89
$a_2 \text{ (mm/(MN}^2\text{/m}^4\text{))}$	13.76	-4.49
$E_v = 1.5 r / (a_1 + a_2 \cdot \sigma_0 \text{ max})$	48.19	94.44
E_{v2}/E_{v1}	1.96	

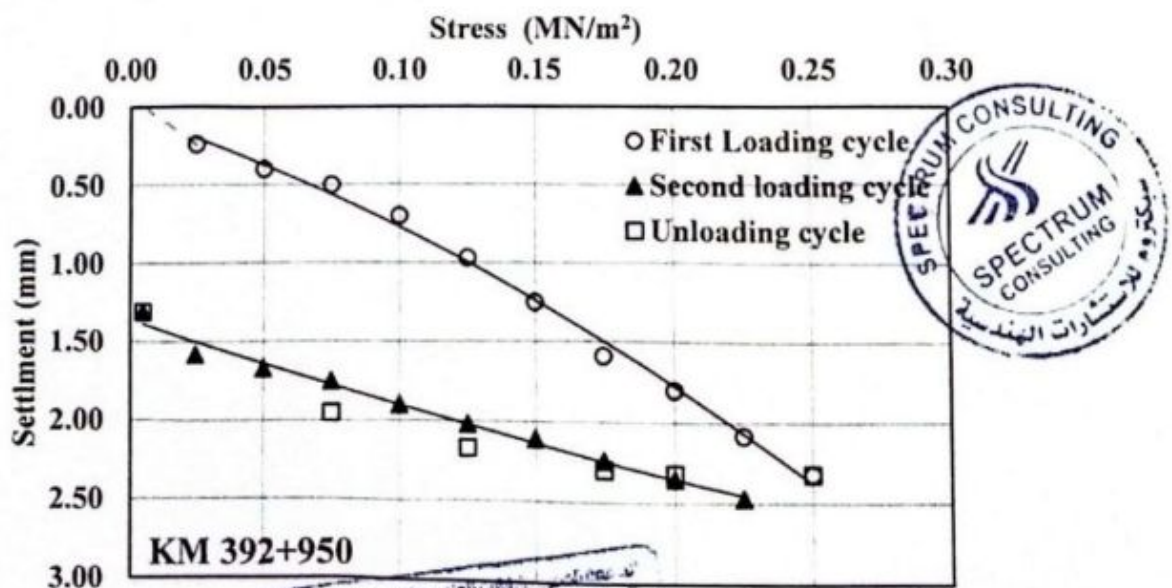


Figure 7: Load-settlement data: plate loading test performed at (KM 392+950)

Appendix A



S5-B-SF



Location of test site:	KM 393+550		Field team	Mr.Mohamed Mamdouh
Project title:	Electric Express Train Project - Al-Safa Contracting Company		Date:	12/1/2023
Diameter of loading plate	600		Time	1:03:00 pm
				1:30:00 pm
Lever ratio	1		Note: KAWSAKI	
Type of Soil	Crushed Stone Filter Layer			
Bedding material	---			
Temperature	16°C			
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Loading Stage	0	1.414	10.00	
	1	7.07	9.82	
	2	14.14	9.66	
	3	21.21	9.39	
	4	28.28	9.15	
	5	35.35	9.00	
	6	42.42	8.80	
	7	49.49	8.62	
	8	56.56	8.47	
	9	63.63	8.30	
	10	70.7	8.10	
Unloading Stage	11	56.56	8.10	
	12	49.49	8.11	
	13	35.35	8.26	
	14	21.21	8.46	
	15	1.414	9.03	
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Reloading Stage	0	1.414	9.03	
	1	7.07	8.80	
	2	14.14	8.70	
	3	21.21	8.60	
	4	28.28	8.47	
	5	35.35	8.36	
	6	42.42	8.28	
	7	49.49	8.17	
	8	56.56	8.10	
	9	63.63	8.03	



S5-B-SF

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Location of test site:	KM 393+450		Field team	Mr.Mohamed Mamdouh
Project title:	Electric Express Train Project - Al-Safa Contracting Company		Date:	12/1/2023
Diameter of loading plate	600		Time	1:38:00 pm 2:09:00 pm
Lever ratio	1		Note: KAWSAKI	
Type of Soil	Crushed Stone Filter Layer			
Bedding material	---			
Temperature	16°C			
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Loading Stage	0	1.414	10.00	
	1	7.07	9.90	
	2	14.14	9.78	
	3	21.21	9.59	
	4	28.28	9.36	
	5	35.35	9.21	
	6	42.42	9.05	
	7	49.49	8.90	
	8	56.56	8.80	
	9	63.63	8.63	
Unloading Stage	10	70.7	8.57	
	11	56.56	8.52	
	12	49.49	8.61	
	13	35.35	8.71	
	14	21.21	8.86	
Reloading Stage	15	1.414	9.37	
	0	1.414	9.37	
	1	7.07	9.22	
	2	14.14	9.12	
	3	21.21	9.03	
	4	28.28	8.91	
	5	35.35	8.81	
	6	42.42	8.72	
	7	49.49	8.67	
	8	56.56	8.59	
9	63.63	8.51		



S5-B-SF

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Location of test site:	KM 393+350		Field team	Mr.Mohamed Mamdouh
Project title:	Electric Express Train Project - Al-Safa Contracting Company		Date:	12/1/2023
Diameter of loading plate	600		Time	2:20:00 pm 2:47:00 pm
Lever ratio	1		Note: KAWSAKI	
Type of Soil	Crushed Stone Filter Layer			
Bedding material	---			
Temperature	16°C			
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Loading Stage	0	1.414	10.00	
	1	7.07	9.70	
	2	14.14	9.54	
	3	21.21	9.16	
	4	28.28	8.67	
	5	35.35	8.31	
	6	42.42	8.05	
	7	49.49	7.70	
	8	56.56	7.50	
	9	63.63	7.32	
	10	70.7	7.12	
Unloading Stage	11	56.56	7.12	
	12	49.49	7.17	
	13	35.35	7.27	
	14	21.21	7.41	
	15	1.414	7.97	
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Reloading Stage	0	1.414	7.97	
	1	7.07	7.67	
	2	14.14	7.59	
	3	21.21	7.50	
	4	28.28	7.40	
	5	35.35	7.30	
	6	42.42	7.21	
	7	49.49	7.12	
	8	56.56	7.00	
	9	63.63	6.88	

Location of test site:	KM 393+250		Field team	Mr.Mohamed Mamdouh
Project title:	Electric Express Train Project - Al-Safa Contracting Company		Date:	12/1/2023
Diameter of loading plate	600		Time	2:57:00 pm
				3:25:00 pm
Lever ratio	1		Note: KAWSAKI	
Type of Soil	Crushed Stone Filter Layer			
Bedding material	---			
Temperature	16°C			
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Loading Stage	0	1.414	10.00	
	1	7.07	9.77	
	2	14.14	9.69	
	3	21.21	9.51	
	4	28.28	9.28	
	5	35.35	9.09	
	6	42.42	8.80	
	7	49.49	8.53	
	8	56.56	8.34	
	9	63.63	8.11	
	10	70.7	7.93	
Unloading Stage	11	56.56	7.93	
	12	49.49	7.97	
	13	35.35	8.13	
	14	21.21	8.30	
	15	1.414	8.98	
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Reloading Stage	0	1.414	8.98	
	1	7.07	8.87	
	2	14.14	8.65	
	3	21.21	8.55	
	4	28.28	8.41	
	5	35.35	8.24	
	6	42.42	8.14	
	7	49.49	8.03	
	8	56.56	7.90	
	9	63.63	7.77	



Location of test site:	KM 393+150		Field team	Mr.Mohamed Mamdouh
Project title:	Electric Express Train Project - Al-Safa Contracting Company		Date:	12/1/2023
Diameter of loading plate	600		Time	3:34:00 pm 4:02:00 pm
Lever ratio	1		Note: KAWSAKI	
Type of Soil	Crushed Stone Filter Layer			
Bedding material	---			
Temperature	16°C			
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Loading Stage	0	1.414	10.00	
	1	7.07	9.75	
	2	14.14	9.65	
	3	21.21	9.51	
	4	28.28	9.30	
	5	35.35	9.13	
	6	42.42	8.95	
	7	49.49	8.73	
	8	56.56	8.55	
	9	63.63	8.35	
Unloading Stage	10	70.7	8.23	
	11	56.56	8.23	
	12	49.49	8.31	
	13	35.35	8.40	
	14	21.21	8.56	
Reloading Stage	15	1.414	9.20	
	0	1.414	9.20	
	1	7.07	9.00	
	2	14.14	8.88	
	3	21.21	8.79	
	4	28.28	8.65	
	5	35.35	8.55	
	6	42.42	8.45	
	7	49.49	8.36	
	8	56.56	8.26	
9	63.63	8.16		





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Location of test site:	KM 393+050		Field team	Mr.Mohamed Mamdouh
Project title:	Electric Express Train Project - Al-Safa Contracting Company		Date:	12/1/2023
Diameter of loading plate	600		Time	4:10:00 pm 4:37:00 pm
Lever ratio	1		Note: KAWSAKI	
Type of Soil	Crushed Stone Filter Layer			
Bedding material	---			
Temperature	16°C			
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Loading Stage	0	1.414	10.00	
	1	7.07	9.80	
	2	14.14	9.68	
	3	21.21	9.54	
	4	28.28	9.27	
	5	35.35	9.00	
	6	42.42	8.80	
	7	49.49	8.52	
	8	56.56	8.31	
	9	63.63	8.10	
	10	70.7	7.90	
Unloading Stage	11	56.56	7.90	
	12	49.49	7.97	
	13	35.35	8.10	
	14	21.21	8.27	
	15	1.414	9.01	
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Reloading Stage	0	1.414	9.01	
	1	7.07	8.78	
	2	14.14	8.69	
	3	21.21	8.55	
	4	28.28	8.40	
	5	35.35	8.28	
	6	42.42	8.16	
	7	49.49	8.03	
	8	56.56	7.92	
	9	63.63	7.80	





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Location of test site:	KM 392+950		Field team	Mr.Mohamed Mamdouh
Project title:	Electric Express Train Project - Al-Safa Contracting Company		Date:	12/1/2023
Diameter of loading plate	600		Time	4:45:00 pm 5:13:00 pm
Lever ratio	1		Note: KAWSAKI	
Type of Soil	Crushed Stone Filter Layer			
Bedding material	---			
Temperature	16°C			
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Loading Stage	0	1.414	10.00	
	1	7.07	9.76	
	2	14.14	9.60	
	3	21.21	9.50	
	4	28.28	9.30	
	5	35.35	9.03	
	6	42.42	8.75	
	7	49.49	8.41	
	8	56.56	8.20	
	9	63.63	7.92	
	10	70.7	7.68	
Unloading Stage	11	56.56	7.68	
	12	49.49	7.70	
	13	35.35	7.83	
	14	21.21	8.05	
	15	1.414	8.69	
Test regime	Loading Stage No.	Load (kN)	Dial Gauge Reading (mm)	
Reloading Stage	0	1.414	8.69	
	1	7.07	8.42	
	2	14.14	8.33	
	3	21.21	8.25	
	4	28.28	8.10	
	5	35.35	7.98	
	6	42.42	7.89	
	7	49.49	7.76	
	8	56.56	7.65	
	9	63.63	7.53	



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والتطوير الاقتصادي



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	AL-Safa for General Contracting and Road Construction			Designer Company*	(SPECTRUM) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/Serial Number	Time							
	Eng. Ahmed Abbas		06/01/2023 (S5-B-SF-FF-04)	10:00 AM							
Received by GARBU CONSULTANT	Eng. Saied Saif		UIR	C1	C2	C3	DD	MM	YY	HH	MM
				393	EW	CS	07	01	2023	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
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CODE - 2	Work Activity
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CODE - 3	Sub Element of Activity
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EXPLANATION OF WORK TO BE INSPECTED

Description	REV	Element	Item
From St. 393+140 To St. 393+300	29	At level (6.80) m .	FILTER LAYER
From St. 393+324 To St. 393+484	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	MAR (QT-36) - MIR (PLT-07)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2)VERSION2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed Mansour (XYZ)

Attached Master Sheet approved by SPECTRUM.



Comments by: Eng. Saied Saif (SPECTRUM)

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

1-تم استلام القطاع فحص وخطري	1-Coordinates & level and width checked by GARBU consultant
2-تم مراجعة شيت الملاحظات	

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Ahmed Abbas				A-AWC-R	
XYZ Survey	Eng. Mohamed Mansour				A	
QA/QC	Eng. Saied Saif				A	
GARBU	Eng. Mohammed Fayad				A	
Employers Representative	Eng. Alaa Abd-Allatif				A	

UNIVERSAL INSPECTION REQUEST



إمارة دبي
المطارات والكباري
(GARB)



الهيئة العامة للغذاء والدواء
SAGRA



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	AL-Safa for General Contracting and Road Construction			Designer Company*	(SPECTRUM) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/Serial Number	Time							
	Eng. Ahmed Abbas		06/01/2023 (S5-B-SF-FF-03)	10:00 AM							
Received by GARB CONSULTANT	Eng. Saied Saif		UIR	C1	C2	C3	DD	MM	YY	HH	MM
				393	EW	CS	07	01	2023	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	REV	Element	Item
From St. 392+900 To St. 393+140	29	At level (6.80) m .	FILTER LAYER
From St. 393+084 To St. 393+324	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	MAR (QT-28& 34) - MIR (PLT-07)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2)VERSION2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed Mansour (XYZ)

Attached Master Sheet approved by SPECTRUM.



Comments by: Eng. Saied Saif (SPECTRUM)

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

1-تم استلام القطاع فكمب 2-تم مراجعة شيت الملاحظات	1-Coordinates & level and width checked by GARB consultant
--	--

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Ahmed Abbas				A-AWC-R	A
XYZ Survey	Eng. Mohamed Mansour				A	A
QA/QC	Eng. Saied Saif				A	A
GARB Representative	Eng. Mohammed Fayad					
Employers Representative	Eng. Alaa Abd-Allatif				A	A

UNIVERSAL INSPECTION REQUEST



الهيئة العامة
للمواصلات
(GARB)



الهيئة العامة
للمواصلات
(GARB)



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	AL-Safa for General Contracting and Road Construction		Designer Company*	(SPECTRUM) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/Serial Number	Time						
	Eng. Ahmed Abbas		02/01/2023 (S5-B-SF-FF-01)	10:00 AM						
Received by GARB CONSULTANT	Eng. Saied Saif	Sign	C1	C2	C3	DD	MM	YY	HH	MM
		HIR	393	EW	CS	03	01	2023	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	REV	Element	Item
From St. 393+340 To St. 393+580	29	At level (6.80) m .	FILTER LAYER
From St. 393+524 To St. 393+764	35		

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

Planned Inspection Date	Planned Inspection Time
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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	MAR (QT-14 & 18) - MIR (PLT-07)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed Mansour (MRZ)

Attached Master Sheet approved by SPECTRUM.



Comments by: Eng. Saied Saif (SPECTRUM)

1-تم استلام القطاع فحص بصري
2-تم مراجعة شيت التأسيس .

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

1-Coordinates & level and width checked by GARB consultant

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Ahmed Abbas				A-AWC-R	
XYZ Survey	Eng. Mohamed Mansour				A	
QA/QC*	Eng. Saied Saif				A	
GARB	Eng. Mohammed Fayad					
Employers Representative	Eng. Alaa Abd-Allatif				A	



**MATERIAL
APPROVAL
REQUEST**

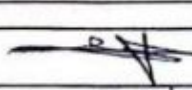
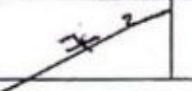



الهيئة العامة
للمطرق والكباري
(GARB)



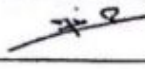
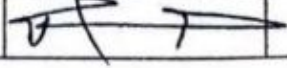
الهيئة العامة
للمطرق والكباري
(GARB)



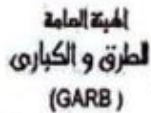

Contractor Company	Al-Safa General Contracting Company			Designer Company	[SPECTRUM] Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/Serial Number	Time							
	Eng. Ahmed Ragab		16/9/2022 (SS-B-SF-QT-014)	10:00							
Received by GARB CONSULTANT	Eng. Mazen Essamy		MAR	C1 393	C2 EW	C3 CS	DD 17	MM 9	YY 22	HH 10	MM 0

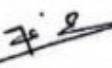
CODE-1	S15	D3	Kp 393+000
		EW	
		MS	

Description of Materials	Filter Layer (5000)m3.					
Location to be Used	From Station	REV29	392+900	To Station	REV29	393+600
		REV35	393+084		REV35	393+784
Sample only	Yes	Materials Type		Crushed stone #1-#2		
Supplier Name	ALBARAKA CRUSHER	Data Sheet provided		Yes attached		
Reference in BoQ		Specification		EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-122.1) VERSION3-2022 BY CIVECON GROUP		
Prequalification reference		Test Samples Results		Yes attached		
Reference Photos	No	Other				
Comments by: Eng. Mazen Essamy (SPECTRUM) 1-Quality test Results by Third Party Lab (COMIBASSAL) IS Attached This Sample Representative (5000 m3) only .				Comments by: Eng. Alaa Abd-Allatif (ER) 1-All testes carried-out Third Party Lab (COMIBASSAL). 2-Results report attached and acceptable with the project specifications.		

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

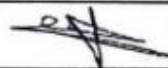
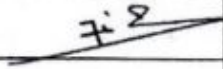
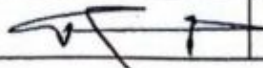
* Designer
** Alignment/Bridges: Culvert only

    	MATERIAL APPROVAL REQUEST	
	الحبة العامة للمطرق والكباري (GARB)	

Contractor Company	Al-Safa General Contracting Company		Designer Company	(SPECTRUM) Engineering Consulting Office	
Issued by Contractor	Name	Sign	Date/Serial Number	Time	
	Eng. Ahmed Ragab		14/10/2022	10:00	
			(55-B-SF-QT-018)		
Received by GARB CONSULTANT	Eng. Mazen Essamy	 MAR	C1	C2	C3
			393	EW	CS
			DD	MM	YY
			15	10	22
			HH	MM	
			10	0	

CODE-1	S15	D3	Kp 393+000
		EW	
		MS	

Description of Materials	Filter Layer (10000)m3.					
Location to be Used	From Station	REV29	392+900	To Station	REV29	393+600
		REV35	393+084		REV35	393+784
Sample only	Yes		Materials Type	Crushed stone #1-#2		
Supplier Name	ALBARAKA CRUSHER		Data Sheet provided	Yes attached		
Reference in BoQ			Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-122.1) VERSION1-2022 BY CIVECON GROUP		
Prequalification reference			Test Samples Results	Yes attached		
Reference Photos	No		Other			
Comments by: Eng. Mazen Essamy (SPECTRUM) 1-Quality test Results by Third Party Lab (COMIBASSAL) IS Approved This Sample Representative (5000 m3) only .				Comments by: Eng. Alaa Abd-Allatif (ER) 1-All testes carried-out Third Party Lab (COMIBASSAL). 2-Results report attached and acceptable with the project specifications.		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Ahmed Ragab			A
QA/QC	Eng. Mazen Essamy			A
GARB	Eng. Mohammed Fayad			
Employer's Representative	Eng. Alaa Abd-Allatif			A

* Designer
** Alignment/Bridges: Cover only

MATERIAL APPROVAL REQUEST



الهيئة العامة
للمطرق والكباري
(GARB)



الهيئة العامة
للمياه والكهرباء



Contractor Company	Al-SAFA General Contracting Company			Designer Company				(SPECTRUM) Engineering Consulting Office			
Issued by Contractor	Name	Sign		Date/Serial Number				Time			
	Eng. Ahmed Ragab			4/11/2022				10:00			
				(55-B-SF-QT-020)							
Received by GARB CONSULTANT	Eng. Mazen Essamy		MAR	C1	C2	C3	DD	MM	YY	HH	MM
				393	EW	CS	5	11	22	10	0

CODE-1	S15	D3	Kp 393+000
CODE-2	EW		
CODE-3	MS		

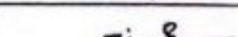
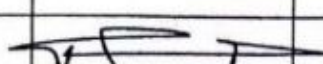
Description of Materials	Filter Layer (15000)m3.						
Location to be Used	From Station	REV29	392+900	To Station	REV29	393+600	
		REV35	393+084		REV35	393+784	
Sample only	Yes		Materials Type		Crushed stone #1-#2		
Supplier Name	ALBARAKA CRUSHER		Data Sheet provided		Yes attached		
Reference in BoQ			Specification		EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-122.1) VERSION1-2022 BY CIVECON GROUP		
Prequalification reference			Test Samples Results		Yes attached		
Reference Photos	No		Other				
Comments by: Eng. Mazen Essamy (SPECTRUM)				Comments by: Eng. Alaa Abd-Allatif (ER)			
1-Quality test Results by Third Party Lab (COMIBASSAL) IS Approved				1-All testes carried-out Third Party Lab (COMIBASSAL).			
This Sample Representative (5000 m3) only .				2-Results report attached and acceptable with the project specifications.			



APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
	Eng. Ahmed Ragab			A
	Eng. Mazen Essamy			A
	Eng. Mohammed Fayad			
	Eng. Alaa Abd-Allatif			A

* Designer

** Alignment/Bridges: Culvert only

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

MATERIAL APPROVAL REQUEST



الهيئة العامة
للمطرق والكباري
(GARB)



المكتب الهندسي للإدارة
بوزارة المواصلات



Contractor Company	Al-SAFA General Contracting Company			Designer Company				(SPECTRUM) Engineering Consulting Office			
Issued by Contractor	Name	Sign		Date/Serial Number				Time			
	Eng. Ahmed Ragab			14/12/2022				10:00			
			(SS-B-SF- QT-028)								
Received by GARB CONSULTANT	Eng. Mazen Essamy		MAR	C1	C2	C3	DD	MM	YY	HH	MM
				393	EW	CS	15	12	22	10	0

CODE-1	S15	D3	Kp 393+000
CODE-2	EW		
CODE-3	MS		

Description of Materials	Filter Layer (25000)m3.					
Location to be Used	From Station	REV29	392+900	To Station	REV29	393+600
		REV35	393+084		REV35	393+784
Sample only	Yes		Materials Type	Crushed stone #1-#2		
Supplier Name	ALBARAKA CRUSHER		Data Sheet provided	Yes attached		
Reference in BoQ			Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (LG21-122.1) VERSION1-2022 BY CIVECON GROUP		
Prequalification reference			Test Samples Results	Yes attached		
Reference Photos	No		Other			
Comments by: Eng. Mazen Essamy (SPECTRUM)			Comments by: Eng. Alaa Abd-Allatif (ER)			
1-Quality test Results by Third Party Lab (COMIBASSAL) IS Approved.			1-All testes carried-out Third Party Lab (COMIBASSAL).			
his Sample Representative (5000 m3) only .			2-Results report attached and acceptable with the project specifications.			



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

* Designer

** Alignment/Bridges: Culvert only

MATERIAL APPROVAL REQUEST			الهيئة العامة للمرور والخطط (GARB)		الهيئة العامة للمرور والخطط		وزارة الإسكان والمرور والخطط والتشييد		وزارة التخطيط والمعاشير		وزارة التعليم والتعليم العالي		وزارة الصحة والعمل الاجتماعي		وزارة الزراعة والغابات		وزارة الموارد المائية		وزارة الكهرباء والطاقة		وزارة الصناعة والتجارة		وزارة السياحة والتراث		وزارة النقل والمرور

Contractor Company	Al-Safa General Contracting Company			Designer Company	(SPECTRUM) Engineering Consulting Office						
Issued by Contractor	Name	Eng. Ahmed Ragab	Sign	Date/Serial Number			Time				
				27/12/2022			10:00				
				(SS-B-SF-QT-034)							
Received by GARB CONSULTANT	Eng. Mazen Essamy		MAR	C1	C2	C3	GO	MM	YY	HH	MM
				393	EW	CS	28	12	22	10	0

COOF-1	S15	D3	Kp 393+000
		EW	
		MS	

Description of Materials	Filter Layer (30000)m3.						
Location to be Used	From Station	REV29	392+900	To Station	REV29	393+600	
		REV35	393+084		REV35	393+784	
Sample only	Yes	Materials Type		Crushed stone #1-#2			
Supplier Name	ALBARAKA CRUSHER	Data Sheet provided		Yes attached			
Reference in BoQ		Specification		EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-122.1) VERSION1-2022 BY CIVECON GROUP			
Prequalification reference		Test Samples Results		Yes attached			
Reference Photos	No	Other					
Comments by: Eng. Mazen Essamy (SPECTRUM)				Comments by: Eng. Alaa Abd-Allatif (ER)			
Quality test Results by Third Party Lab (COMIBASSAL) IS Approved. This Sample Representative (5000 m3) only.				1-All testes carried-out Third Party Lab (COMIBASSAL). 2-Results report attached and acceptable with the project specifications.			

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

* Designer
** Alignment/Bridges: Culvert only

MATERIAL APPROVAL REQUEST								

Contractor Company	Al-SAFA General Contracting Company			Designer Company	[SPECTRUM] Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/Serial Number	Time							
	Eng. Ahmed Ragab		4/1/2023	10:00							
			(SS-B-SF-QT-036)								
Received by GARB CONSULTANT	Eng. Mazen Essamy		MAR	C1	C2	C3	DO	MM	YY	HH	MM
				393	EW	CS	S	1	23	10	0

CODE-1	S15	D3	Kp 393+000
		EW	
		MS	

Description of Materials	Filter Layer (35000)m3.					
Location to be Used	From Station	REV29	392+900	To Station	REV29	393+600
		REV35	393+084		REV35	393+784
Sample only	Yes	Materials Type		Crushed stone #1-#2		
Supplier Name	ALBARAKA CRUSHER	Data Sheet provided		Yes attached		
Reference in BoQ		Specification		EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-122.1) VERSION1-2022 BY CIVECON GROUP		
Prequalification reference		Test Samples Results		Yes attached		
Reference Photos	No	Other				
Comments by: Eng. Mazen Essamy (SPECTRUM) 1-Quality test Results by Third Party Lab (COMIBASSAL) is approved. This Sample Representative (5000 m3) only .				Comments by: Eng. Alaa Abd-Allatif (ER) 1-All testes carried-out Third Party Lab (COMIBASSAL). 2-Results report attached and acceptable with the project specifications.		

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

* Designer
** Alignment Engineer Only