اعمال الجسر الترابي لمشروع القطار الكهربائي السريع قطاع العلمين / فوكة في المسافة من كم ١٠٠ +٤٥٧ الى كم ١٠٠ +٥٥٨ بطول ١,٢كم (اتجاه مطروح)

الاجمالي	مدعر القلة	(لكمية	الوحدة	بيان الأعسال	ر ق م البند
1710411				اعمال الردم	<u> </u>
1110011	۸۰	1014.,47	77	اعمال تحميل وتوريد ونقل اترية مطابقة للمواصفات و تشفيلها	1.5
1	ľ			باستخدام الات التعدوية بعدمك لايزيد عن ٥٠سم حتى منعدوب	
				(-٢ متر) وبسمك لايزود عن ٢٥سم لاستكمال الملسوب التصميمي	
				لتشكيل الجسر الترابي و الاكتاف (نسبة تحمل كاليفورنيا لا تلل عن	1
				١٥%) ورشــها بالمياه الاصــولية للوصــول الى نسـية الرطوبة	- 1
		-		المطلوبة و الدمك الجيد بالهراسات للوصول الى اقصى كثافة جافة	1
			1.0	(٩٥ % من الكثافة الجافة القصوى) ويتم التنابذ طبقا للمناسب	1
				التصميمية و القطاعات العرضية النموذجية والرسومات التفصيلية	- 1
				المعتمدة و البند بجميع مشتملاتة طبقا لامسول المسناعة و	- 1
				مواصدفات الهيئة المامة للطرق و الكبارى وتعليمات المهندس	1
				المثرف .	
			1	- مسافة النقل حتى اكم ويتم احتساب علاوة ١,١ جنيه	
				للكم بالزيادة او النقصان .	
				- السعر بشمل عمل تشوينات وتخليط واختبارات ونقل	
	1.	1		لموقع العمل .	
	1			 السعر يشمل قيمة المادة المحجرية طبقا الفادة المنطقة بهذا 	
£14749.	70. 7	1241 48	-	القطاع (1) من الكم ٣٩٥ إلى الكم ٥٠٤.	1
7.1719	77.,7.	1081.,44	70	علاوة مسافة النقل ١٩٥كم	i
111111	١٢	1084.,47	م۲ ا	علاوة تحصيل رسوم الكارتة والموازين طبقا للانحة الشركة الوطنية	

منه

برا بر فالف جنب الريم

وق في و من المنافذ الم

نَّالِكُهُ إِنْنَانَاءَ لِلْمُقَاوِلَاتُ الْعَامَةُ ايمن معرض سحي (موران (كبريكة بحض المسيولي من الأبرير بحض المسيولي من الأبرير

INFO SUIR DEEDAN

Page 1 of 1





محضر استلام موقع

مشروع:أعمال الجسر الترابي لمشروع القطار الكهربائى السريع قطاعات غرب النيل فى المسافة من ٢٠٠٠ + ٢٥٤ كم الى ٢٠٠٠ + ٥٤كم بطول ٢,١كم تنفيذ: شركة انشاء للمقاولات العامة

إشراف: المنطقة الخامسة _ منطقة غرب الدلتا طبقاً للعقد رقم (٢٠٢/٦٠٢٢) اتجاه مطروح بتاريخ ٢٠٢/١١/٦ إنه في يوم الاثنين الموافق ٢٠٢/١١/٧ اجتمع كل من:

١- السيد المهندس /إبراهيم عبد الله الحناوي مهندس العملية - الهيئة العامة للطرق والكباري

٢-السيد المهندس / محمود شعبان احمد مدير المشروع

وذلك للمرور على مسار العملية المذكورة عاليه لاستلام الموقع: وقد تبين أن الموقع خالياً من العوائق الظاهرية ويسمح بالبدء في التنفيذ وبناء عليه يعتبر تاريخ(٢٠٢/١١/٧) هو تاريخ استلام الموقع وبدء الأعمال بالعملية واقفل المحضر على ذلك ووقع الحضور

التوقيعات

١- محور تيبا - ا رُف



مشروع القطار السريع(العلمين ـ فوكة)

شركة انشاء للمقاولات العامة من المحطة . . ٢ + ٥٧ الى المحطة . . ٨ + ٨ ٥ ؛

محضر تحديد مسافة نقل

(نقل الانتربة)

انه في يوم الاحد الموافق :-٢٠٢/٦/٢٦

- بناء على طلب المقاول شركة انشاء للمقاولات العامة لتحديد مسافة نقل الاتربة من محجر (المصرية)

على طريق وادى النطرون العلمين للمشروع المذكور أعلاه

تم زيارة المحجر من قبل:-

ممثل الهينة العامة الطرق والكباري

١- السيد المهندس / ابراهيم الحناوي

ممثل الاستشارى مكتب درسعد الجيوشي

٣- السيد المهندس / مصطفى مجمود نجم

ممثل ستشارى المساحه مكتب

٣- المبيد المهندس / محمد خليل

ممثل شركة انشاء للمقاولات

٤- السيد المهندس / محمود شعبان

وتبين أن المحجر على مسافة ١٩٥ كم من منتصف قطاع شركة انشاء للمقاولات العامة

N30°33′19.7"

E 29 ° 45 ' 06.7

احداثى المحجر

N 92 ° 70 ′ 06 . 28 "

E 36 ° 37 ′ 09 . 61 "

احداثي منتصف القطاع

وعلى ذلك تم توقيع،،

۱- یوسیکی ۱ کسر

Migne - r

(- m - 1

-

































Contractor Company	בי ונפות?	انشاء للمقاولات العامة		Desig	Designer Company	ompar	۶				
	Name	Sign		Date				Time			
Contractor	Eng/ Mahmoud Shaban	26 En-	26	30/10	30/10/2022	2		1:40			
Received by				IJ	CZ	3	00	G1 C2 C3 DD MM	HH VY	Ŧ	MM
ER			MR	458	EW	S	30	10	458 EW CS 30 10 2022	1	40

CODE-1	S1 to S21	D1 to 53	Kp XXX Note
	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	aterials		Fill n	Fill material results	sults	
Location to be Used	sed	458+100 to 458+260 (-0.75) 458+040 to 458+160 (-0.5) 458+160 to 458+260 (-0.5) 458+260 to 458+320 (-0.5) 458+260 to 458+320 (-0.25) 458+320 to 458+320 (ferma) 458+260 to 458+300 (ferma)	+260 (-0.75) 3+160 (-0.5) 3+260 (-0.5) 3+320 (-0.5) +320 (-0.25) +400 (-0.25) +400 (ferma)		458+160 to 458+260 (-1.25) 458+260 to 458+320 (-1) 458+320 to 458+400 (-1) 458+320 to 458+320(-0.75) 458+320 to 458+400 (-0.75) 458+320 to 458+400 (-0.5) 458+040 to 458+260 (-1)	458+160 to 458+260 (-1.25) 458+260 to 458+320 (-1) 458+320 to 458+400 (-1) 458+260 to 458+320(-0.75) 458+320 to 458+400 (-0.75) 458+320 to 458+400 (-0.5) 458+040 to 458+260 (-1) 458+040 to 458+100 (-0.75)
MAR Approval No	· o				Date	
Supplier Name						
Test Requirement	nt		Specification	tion	Clause	
Reference Photos	SC	Yes attached / No	Other			
Item Description	on		Unit	Quantity /	Arrival Date	Note
	alysis		M³	10000		1000000
2 Material	finer tha	Material finer than sieve no ,200				
3 L.L and	P.L and	L.L and P.L and Proctor test				
4 Soil clas	sification	Soil classification and CBR			Contract of the second	
Comments by:			Con	Comments by:		
Asample has been	n taken fo	Asample has been taken form fill material by SEGAC office	C office			
to CELL Lab and the result	nd the resu	CELL Lab and the results founded meet the ificontions and accepted				
	STATE OF THE PARTY		APPROVAL STATUS	rus		
Organisation	Name		Sign		Date	A-AWC-R
Contractor	1	Sagir)	7.	100		
QA/QC*		Years?	A 7	220		
GARB**	ξ	M. Negm		day		
Comment by ER						
Employers						
• Designer						

Designer
 Alignment / Bridges: Culvert Only

Consulting Engineering Bureau & Laboratories مكتب معامل الإستشارات الهندسية

مكتب معامل الاسطارات الهدمية - السائل الشعار

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 23 / 10 / 2022 **Delivery Date**

: 30 / 10 / 2022 Reporting Date

Dear Sir,

Attached here with the delivered on 23 / 10 / 2022

Materials test

1. Sieve analysis according to ASTM D-422.

2. Material finer than sieve No. 200 according ASTM D-1140.

3. Liquid limits and plasticity index of soil according to D-4318.

4. Soil classification according to Project Specs.

5. Proctor Test according to D-1557

6.C.B.R

This sample is classified as (A-1-b) according to Project Specs







Consulting Engineering Bureau & Laboratories

مكتب معامل الإستشارات الهندسية

مكتب معامل الاسطارات الهدموة - الساحل الشعار

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 03

: 23 / 10 / 2022 **Delivery Date** : 30 / 10 / 2022 Reporting Date

RESULTS OF SIEVE ANALYSIS According to ASTM D-422.

Passing %	100	100	98.2	95.4	81.2	63.3	54.9	51.8	46.6	40.1	37.1	32.4	27.1	15.7	
Sieve Size (mm)	50	37.5	25	19	12.50	9.50	4.75	2.36	2.00	1.18	0.600	0.425	0.300	0.150	

Note: The sample was brought by the client to our laboratory at 23/10/2022 and the laboratory is not responsible for the way it is taken J. Kantakata Itaian

السامل الشمالي

Signature /.>





Tel.& Fax: 27367231 - 27363093

3 El Malek El Afdal Street

Zamalek, Cairo.





Consulting Engineering Bureau & Laboratorias مكتب معامل الإستشارات الهندسية

مكتب معامل الإستلال ات الهنامية - السامل الشعالي

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 23 / 10 / 2022

: 30/ 10 / 2022 Reporting Date Delivery Date

MATERIALS FINER THAN 75 µm (No.200) SIEVE IN MENERAL AGGREGATE BY WASHING

ASTM D-1140 .		
AS		

Test	Results (%)
Percentage of material finer than Sieve Size 75 µM (No.200)	11.7

המנהר הפורה וציהמשה ומחוז למיהלימנה ללמלסלימין ልተው - ህንነት - ህንነት - ህንነት ነው ህንነት - ረታችን ብዛት ብርታት 33 ፣ Signature /..





Pel.& Pax : 27367231 - 27363093

Zannalek, Calro.



Consulting Engineering Bureau & Laboratories مكاتب معامل الإستشارات الهندسية

مكب معامل الاستشارات الهندمية . الساحل النعالم

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

: 03 Sample No : 23 / 10 / 2022 **Delivery Date**

: 30/10/2022 Reporting Date

RESULTS OF LIQUID LIMIT AND PLASTICITY INDEX According to D-4318 OF SOILS

Results	. NP	NP	NP
Test	Liquid Limit%	Plastic Limit %	Plasticity Index %



الممسوحة ضوئيا بـ CamScanner





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Consulting Engineering Bureau & Laboratories

مكتب معامل الإستشارات الهندسية

CEL Consulting Engineering Bureau & Labratories

معامل الاستشارات الهدمية - الساحل الشعال

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

: 23 / 10 / 2022 **Delivery Date** Sample No

30 / 10 / 2022 Reporting Date

Soil Classification According To Project Specs (Embankment)

	The second secon		
TEST	Results (%)	Limits accor	Limits according Projects Specs
Group Classification	(A-1-b)	(A-1-a)	(A-1-b)
2.00 mm (No.10).	46.6	Max 50 %	
0.425 mm (No. 40).	32.4	Max 30 %	Max 50 %
0.075 mm (No. 200).	11.7	Max 15 %	Max 15 %
Characteristics of fraction passing 0.425 mm (No.40)	5 mm (No.40)		
Liquid Limit	dN		.
Plasticity index	NP	Max 6 %	Max 6 %
	Division and Republication of the Artist State of	The second section is a second section of the second section is a second section of the second section	•

Comply D The Test Results is (

Not Comply) with Project Spec.

> 311 - 15-450 40-18 - 45-37 5-31 Tel.& Fax: 27367231 - 27363093 3 El Malek El Afdal Street Zamalek, Cairo.





Signature /....

Consulting Engineering Bureau & Laboratories مكتب معامل الإستشارات الهندسية

مكتب معامل الإستشار ات الهندسولة - الساحل الشمال

: Inshaa General Company Company Name

: Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 23 / 10 / 2022 Delivery Date

: 30/10/2022 Reporting Date

Test result (Modified proctor test) Moisture - Density relation of soil **ASTM (D 1557**

dry denisty (gm/cm2)

Max dry density (gm/cm2): 2.05

water content %

Optimum moisture content %

Signature /



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3 El Malek El Afdal Street

Zamalek, Calro.

A CAMA TOO - SOO -

المساحق الشمالي





וניאש - ושומנו ش الملك الأفضل

Consulting Engineering Bureau & Laboratories مكتب معامل الإستشارات الهلدسية

مكتب معامل الاستشارات الهندسية - الساحل النسائي

CEL Consulling Engineering Bureau & Labratories

Company Name : Inshaa General Company

: Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment Type of sample

Sample No :

Delivery Date : 23 / 10 / 2022

Reporting Date : 30/ 10 / 2022

Test Results of California Bearing Ratio on Base Materials **ASTM D 1883**

ben	penetration		stress	stress on piston
mm	Inch		N)	(Mpa)
0.64	. 0.025	10	9	3.47
1.27	0.050	0	7	4.00
1.91	0.075	ıo	7	4.40
2.54	0.100		2	5.04
3.18	0.125	2	3	5.72
3.81	0.150	0	9	6.37
4.45	0.175	2	<u> 7</u>	7.07
5.08	0.200	0	<u></u>	7.39
5.71	0.225	5	<u></u>	7.83
6.35	0.250	0	7	7.83
CBR RESULTS	S	Stress (Mpa)		CBR %
At 0.1 " (2.54 mm)	St. Value	Sample results	results	7.9.4
penetration	6.90	5.04)4	13.1

Notes:

1-Attached graph shows penetration resistance versus penetration magnitude.

2- The sample was compacted to dry density of 2.05 (gm /cm3)

At 8.4 % optimum water content.

3-Surcharge load 4.50 Kg.

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

IAS IS

200 (1997) 1. 10 (

Signature/

9001:2022

۲ ش الملك الأفضل الزماك - القاهرة تليفون + فاكس ، ۱۷۲۱۷۲۲ - ۲۰۲۱۲۲۲۲ www.cel-egypt.com

Consulting Engineering Bureau A Laboratories مكالب معامل الإسلشارات الهلاسية

مكتب معامل الأسائار اب الهدسوة ، السامل القمائي

: Inshan General Company Company Name

: Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

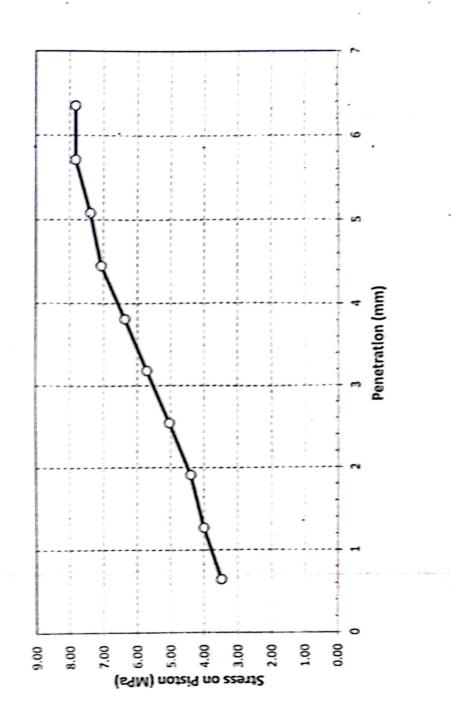
Sample No

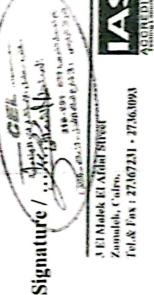
: 23 / 10 / 2022 Delivery Date

: 30/ 10 / 2022 Reporting Date

LOAD PENETRATION CURVE OF CBR TEST

ASTM D 1883



































											-
Contractor Company	ت العامة	انشاء للمقاولات العامة		Desig	ner C	Designer Company	<u>></u>				
leer od by	Name	Sign		Date				Time			
Contractor	Eng/ Mahmoud Shaban	2600		30/10	30/10/2022	2		1:40			
Received by				IJ	C2	8	90	MM	G1 C2 C3 DD MM YY HH	Ŧ	MM
ER			Σ	458	EW	S	30	10	458 EW CS 30 10 2022 1 40	1	40

CODE-1	\$1 to \$21 Station Reference	D1 to S3 Depot Reference	Kp XXX Note For Kilometer point only Start Km is used
CODE - 2	And the second s	Work Activity	
CODE - 3		Sub Element of Activity	

Description of Materials	terials		E	Fill material results	sults		
Location to be Used	P	458+040 to 458+200 (-1.25) 458+200 to 458+400 (-1.25) 458+120 to 458+260 (-1.5) 458+040 to 458+160 (-1.25) 458+260 to 458+320 (-1.25)	+200 (-1.25) +400 (-1.25) }+260 (-1.5) +160 (-1.25) +320 (-1.25)		457+820 to 4,957+740 to 4,457+820 to 4,457+820 to 4,457+600 to 4,457+680 to 45,457+820	457+820 to 457+900 (-0.75) 457+740 to 457+820 (-0.5) 457+820 to 457+900 (-0.5) 457+680 to 457+820 (-0.25) 457+820 to 457+900 (-0.25) 457+600 to 457+680 (ferma) 457+680 to 457+820 (ferma)	
MAR Approval No					Date		
Supplier Name							
Test Requirement	_		Specification	ation	Clause		
Reference Photos		Yes attached / No	Other	The same of the sa			
Item Description	U		Unit	Quantity	Arrival Date	Note	
1 Sieve analysis	lysis		M³	10000			
2 Material f	finer tha	Material finer than sieve no ,200					
3 L.L and P	L and	L.L and P.L and Proctor test					
4 Soil classi	ification	Soil classification and CBR					
Comments by:			CO	Comments by:	The state of the s		
Asample has been taken form to CELL Lab and the result specificontions and accepted	taken fo d the residance	Asample has been taken form fill material by SEGAC office to CELL Lab and the results founded meet the specificontions and accepted	C office				
			APPROVAL STATUS	TUS			
Organisation	Name	,	Sign		Date	A-AWC-R	-R
Contractor	1	Dog in !	かり	26,			
aA/ac *	为	ark	1	7			
GARB**	Y Y	m-Neym		Park.			
Comment by ER		D.					
Employers							
* Decision	-						



مكتب معامل الإستشارات الهندسية

CEL Consulting Engineering Bureau & Labratories

مكتب معامل الأستشارات الهندسوة . الساحل الشعيار

Consulting Engineering Bureau & Laboratories

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 05

: 23 / 10 / 2022 **Delivery Date** : 30 / 10 / 2022 Reporting Date

Dear Sir,

Attached here with the delivered on 23 / 10 / 2022

Materials test

1. Sieve analysis according to ASTM D-422.

2. Material finer than sieve No. 200 according ASTM D-1140.

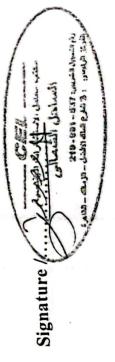
3. Liquid limits and plasticity index of soil according to D-4318.

4.Soil classification according to Project Specs.

5. Proctor Test according to D-1557

6.CBR

This sample is classified as (A-1-a) according to Project Specs.





Zamulek, Cairo. Tel.& Fax : 27367231 - 27363093





Consulting Engineering Bureau & Laboratories

مكتب معامل الإستشارات الهندسية

Company Name : Inshaa General Company

: Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 05

Delivery Date : 23 / 10 / 2022

Reporting Date : 30 / 10 / 2022

RESULTS OF SIEVE ANALYSIS According to ASTM D-422.

Passing %	100	98.8	95.1	93.1	76.7	67.2	50.5	46.4	41.2	39.1	34.5	28.5	22.4	16.2
Sieve Size (mm)	90	37.5	25	19	12.50	9.50	4.75	2.36	2.00	1.18	0.600	0.425	0.300	0.150

Note: The sample was brought by the client to our laboratory at 23/10/2022 and the laboratory is not responsible for the way it is taken

Signature / Keeper 1919



Fel.& Fax: 27367231 - 27363093

3 El Malek El Afdal Street

Zamalek, Cairo





Consulting Engineering Bureau & Laboratories مكتب معامل الإستشارات الهندسية

CEL Consulting Engineering Bureau & Labratories

مكتب معامل الاستشارات الهناسية والساطل الشعالم

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

: 05 Sample No : 23 / 10 / 2022 **Delivery Date** : 30 / 10 / 2022 Reporting Date

MATERIALS FINER THAN 75 μm (No.200) SIEVE IN MENERAL AGGREGATE BY WASHING **ASTM D-1140**

Test	Results (%)
Percentage of material finer than Sieve Size 75 µM (No.200)	11.8





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Consulting Engineering Bureau & Laboratories

مكتب معامل الإستشارات الهندسية

مكتب معامل الإستشارات الهندسية - الساحل الشمال

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

: 05 Sample No : 23 / 10 / 2022 **Delivery Date** 30 / 10 / 2022 Reporting Date

RESULTS OF LIQUID LIMIT AND PLASTICITY INDEX According to D-4318 OF SOIL

Results	· . dN	dN	dN
Test	Liquid Limit%	Plastic Limit %	Plasticity Index %



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مكتب معامل الإستشارات الهندسية

معامل الاستشارات الهندسية - الساحل الشعالم

CEL Consulting Engineering Bureau & Labratories

: Inshaa General Company Company Name

: Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 23 / 10 / 2022 **Delivery Date**

: 30 / 10 / 2022 Reporting Date

Soil Classification According To Project Specs (Embankment)

	And the second s		
TEST	Results (%)	Limits acco	Limits according Projects Specs
Group Classification	(A-1-a)	(A-1-a)	(A-1-b)
2.00 mm (No.10).	41.2	Max 50 %	
0.425 mm (No. 40).	28.5	Max 30 %	Max 50 %
0.075 mm (No. 200).	11.8	Max 15 %	Max 15 %
Characteristics of fraction passing 0.425 mm (No.40)	5 mm (No.40)		
Liquid Limit	NP	-	1
Plasticity index	NP	Max 6 %	Max 6 %

☐ Comply The Test Results is (

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□ Not Comply) with Project Spec.

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۲ ش الملك الأفضل الزمالك - القاهرة

Signature

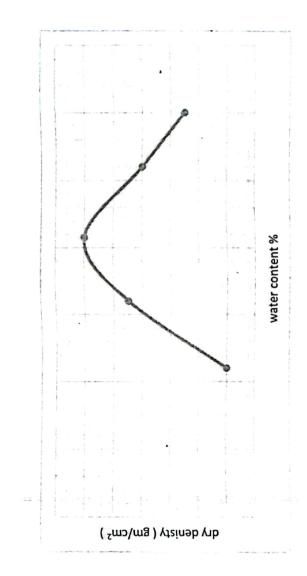
ميكب معامل الأسطال ات الهندمية - الساحل الشعالم

Consulting Engineering Bureau & Laboratories مكتب معامل الإستشارات الهندسية : Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

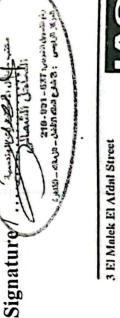
: Replacement Soil (Middle & Upper Embankment)

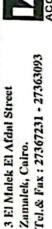
Type of sample Sample No : 23 / 10 / 2022 **Delivery Date** : 30 / 10 / 2022 Reporting Date Moisture – Density relation of soil Test result (Modified proctor test ASTM (D 1557)



Max dry density (gm/cm2) : 2.04

8.3 Optimum moisture content %









TATT - 151 44.5

Consulting Engineering Bureau & Laboratories مكتب معامل الإستشارات الهندسية

CEL Consulting Engineering Bureau & Labratories

مكتب معامل الإستشارات الهناسية . الساخل الشعيار

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 23 / 10 / 2022 Delivery Date 30 / 10 / 2022 Reporting Date

Test Results of California Bearing Ratio on Base Materials **ASTM D 1883**

allad	penetration		stress	stress on piston
mm	lnch		_	(Mpa)
0.64	0.025	10		3.47
1.27	0.050	0		4.00
1.91	0.075	10	,	4.40
2.54	0.100	0	,	4.91
3.18	0.125	.6		5.66
3.81	0.150	0		6.12
4.45	0.175)	6.78
5.08	0.200	0		7.24
5.71	0.225		•	7.83
6.35	0.250	0	~	8.10
CBR RESULTS	St	Stress (Mpa)		CBR %
At 0.1 inch (2.54 mm)	St. Value	Sample results	esults	74.4
penetration	6.90	4.91	-	=

Notes:

1-Attached graph shows penetration resistance versus penetration magnitude.

2- The sample was compacted to dry density of 2.04 (gm /cm3)

At 8.3 % optimum water content.

3-Surcharge load 4.50 Kg

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ش الملك الأفضل

تليفون + فاكس ، ۱۷۳۱۷۲۲۱ - ۲۷۳۱۲۲۱۲ www.cel-egypt.com 111 - ITI an.

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Consulting Engineering Bureau & Laboratories مكتب معامل الإستشارات الهلدسية

مكتب معامل الإستثيارات الهندمية - الساخل الشمال

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

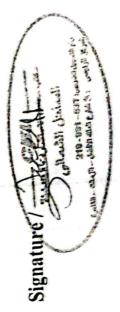
: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 23 / 10 / 2022 Delivery Date 30 / 10 / 2022 Reporting Date

LOAD PENETRATION CURVE OF CBR TEST **ASTM D 1883**









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REQUEST	In this General Constructing	The action and Commercial Control (CARB) (CARB) (CARB)	(GARB)	C	4	Tarin Carry	SHAVE				
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CODE-1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp XXX Note For Kilometer point only Start Km is used
CODE - 2		Work Activity	
CODE - 3		Sub Element of Activity	

Description	Description of Materials		H	Fill material results	esults	-	
Location to be Used	be Used	458+160 to 458+260 (-1.25) 458+260 to 458+320 (-1) 458+320 to 458+400 (-1) 458+260 to 458+320(-0.75) 458+320 to 458+400 (-0.75) 458+320 to 458+400 (-0.5) 458+040 to 458+260 (-1)	8+260 (-1.25) 58+320 (-1) 58+400 (-1) 8+320(-0.75) 8+400 (-0.75) 8+400 (-0.5) 58+260 (-1)				
MAR Approval No	val No				Date		
Supplier Name	me						
Test Requirement	ement		Specification	cation	Clause		
Reference Photos	hotos	Yes attached / No	Other				
Item Desc	Description		Unit	Quantity	Arrival Date	Note	
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2 Mate	erial finer th	Material finer than sieve no ,200					
3 L.L	and P.L and	L.L and P.L and Proctor test					
4 Soil	Soil classification	on	The second of	The state of the s		The Real Property lies	100
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Designer
 Alignment / Bridges: Culvert Only

Consulting Engineering Bureau & Laboratories مكتب معامل الإستشارات الهندسية

مكتب معامل الإستشارات الهناسية . الساحل الشعالم

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment)

Type of sample Sample No : 23 / 10 / 2022 **Delivery Date**

: 30 / 10 / 2022 Reporting Date

Dear Sir,

Attached here with the delivered on 23 / 10 / 2022

Materials test

1. Sieve analysis according to ASTM D-422.

2. Material finer than sieve No. 200 according ASTM D-1140.

3. Liquid limits and plasticity index of soil according to D-4318.

4. Soil classification according to Project Specs.

5. Proctor Test according to D-1557

This sample is classified as (A-1-b) according to Project Specs.

September 1 Rusel Hanke سي: 310-907 – 237 ي - 3 3 دمرع شك الأضل – الإسكا Signature /



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Consulting Engineering Bureau & Laboratories

مكتب معامل الإستشارات الهندسية

، معامل الاستشارات الهندسية - الساحل الشمال

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 04

: 23 / 10 / 2022

Delivery Date

: 30 / 10 / 2022 Reporting Date RESULTS OF SIEVE ANALYSIS According to ASTM D-422.

Passing %	100	100	98.3	97.1	70.3	61.3	58.5	53.1	49.6	40.1	37.9	34.1	23.8	17.6
Sieve Size (mm)	20	37.5	25	19	12.50	9.50	4.75	2.36	2.00	1.18	0.600	0.425	0.300	0.150

Note: The sample was brought by the client to our laboratory at 23/10/2022 and the laboratory is not responsible for the way it is taken SEEL STATE OF

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مكتب معامل الإستشاريات الهلمسية

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: Inshan General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 23 / 10 / 2022 Delivery Date : 30 / 10 / 2022 Reporting Date

MATERIALS FINER THAN 75 µm (No.200) SIEVE IN MENERAL AGGREGATE BY WASHING

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Consulting Engineering Bureau & Laboratories مكائب معامل الإستشارات الهفدسوة

1 Inshan General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soll (Middle & Upper Embankment) Type of sample

Sample No

: 23 / 10 / 2022 Delivery Date : 30 / 10 / 2022 Reporting Date

RESULTS OF LIQUID LIMIT AND PLASTICITY INDEX OF SOILS According to D-4318

Results	NP	чи	NP
Test	Liquid Limit%	Plastic Limit %	Plasticity Index %





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مكتب معامل الإستشارات الهندسية

CEL Consulting Engineering Bureau & Labratories

مكتب معامل الاستشارات الهندسية والساجل الشعائر

: Inshaa General Company Company Name : Electric Express Train, from Al Ain Sokhna to Marsa Project

Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 04

: 23 / 10 / 2022 **Delivery Date** : 30 / 10 / 2022 Reporting Date

Soil Classification According To Project Specs (Embankment)

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TEST	Results (%)	Limits accordin Specs	Limits according Projects Specs
Group Classification	(A-1-b)	(A-1-a)	(A-1-b)
2.00 mm (No.10).	49.6	Max 50 %	
0.425 mm (No. 40).	34.1	Max 30 %	Max 50 %
0.075 mm (No. 200).	12.6	Max 15 %	Max 15 %
Characteristics of fraction passing 0.425 mm (No.40)	25 mm (No.40)		
Liquid Limit	NP	1	ı
Plasticity index	dN	Max 6 %	Max 6 %
		A STATE OF THE STA	

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Signature /.

Not Comply) with Project Spec.

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مكاب معامل الإسائدارات الهندموة - الساحل الشمالي

Consulting Engineering Bureau & Laboratories

: Inshaa General Company Company Name

مكتب معامل الإستشارات الهندسية

: Electric Express Train, from Al Ain Sokhna to Marsa Project

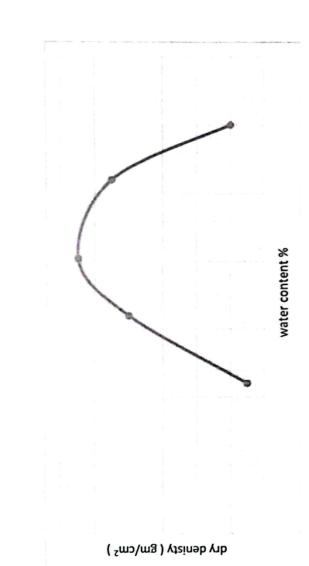
Matrouh Priority Sector (6) - Alamein to Foka

: Replacement Soil (Middle & Upper Embankment) Type of sample

Sample No

: 23 / 10 / 2022 **Delivery Date** : 30 / 10 / 2022 Reporting Date

Test result (Modified proctor test) Moisture - Density relation of soil ASTM (D 1557)



Max dry density (gm/cm2) : 2.03

Optimum moisture content %: 8.1

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