الهيئة العامة للطرق و الكباري (GARBI)

قائمة الكميات الواردة بالمستخلص جاري (2)

اسناد أعمال الجسر الترابي للخط الأول لمشروع القطار الكهربائي السريع
(العين السخنة - العاصمة الإدارية - العلمين - مطروح) (قطاع وادي النطرون / برج العرب)
أعمال ردم لتنفيذ المسافة من الكم 322+480 إلى الكم 322+920 بطول 0.44 كم (بالأمر المباشر).

بند (1-1):
بالمتر المكعب اعمال تحميل وتوريد ونقل اتربة مطابقة للمواصفات وتشغيلها باستخدام الات التسوية بسمك لا يزيد عن 50 سم حتي منسوب -2 متر وبسمك لا يزيد عن 25 سم لاستكمال المنسوب التصميمي لتشكيل الجسر والاكتاف (نسبه تحمل كاليفورنيا لا تقل عن 15%) ورشها بالمياه الأصولية للوصول إلى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول إلى أقصى كثافة جافة (95% من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند بجميع مشتملاته طبقا لأصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف.

- مسافة النقل حتي 2 كم ويتم حساب علاوه 1.4 جنيه لكل 1 كم بالزيادة او النقصان.
- السعر يشمل عمل تشوينات وتخليط واختبارات ونقل لموقع العمل حتي مسافة 2 كم .
- السعر يشمل قيمة المادة المحجرية

السعر خلال شهر مايو طبقاً للمفاوضة الخاصة بتاريخ 18/12/2023

تنفيذ : "شركة إيجيبت ستون للتعدين والتوريدات"
عقد رقم (1123/2023/2024)

مقدار العمل السابق :	33,650.00	م3

مسلسل	الموقع الكيلومتري		الطول (متر)	الكمية (م3)
	من الكم	الى الكم		
1	322+480	322+920	440	5,126.00
اجمالي الكمية الهندسي (م3)				5,126.00
كميات لم يتم صرفها من جاري1 (م3)				1,805.00
الاجمالي خلال مدة المستخلص (م3)				6,931.00
الإجمالي الكلي (م3)				40,581.00

مهندس الشركة
م / عبدالفتاح الشناوي
عبدالفتاح الشناوي
EGYPT STONE قطاع المقاولات

مهندس الاستشاري
مكتب XYZ
م / محمد خليل
مشروع القطار الكهربائي السريع غرب الدلتا

مهندس الاستشاري
مكتب أ.د/ خالد قنديل
م / هشام محمد صبري
KK المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
القطاع الرابع (الإسكندرية)

مهندس الهيئة
م / أحمد جلال عبد السلام
أحمد جلال

الهيئة العامة للطرق و الكباري (GARBLD)

قائمة الكميات الواردة بالمستخلص جاري (2)

اسناد أعمال الجسر الترابي للخط الأول لمشروع القطار الكهربائي السريع
(العين السخنة - العاصمة الإدارية - العلمين - مطروح) (قطاع وادي النطرون / برج العرب)
أعمال ردم لتنفيذ المسافة من الكم 322+480 إلى الكم 322+920 بطول 0.44 كم (بالأمر المباشر).

علاوة بند (1-1) علاوة تحصيل رسوم الكارتة والموازين طبقا للائحه الشركة الوطنية.

السعر خلال شهر مايو طبقاً للمفاوضة الخاصة بتاريخ 18/12/2023

تنفيذ : "شركة إيجيبت ستون للتعدين والتوريدات"
عقد رقم (1123/2023/2024)

مقدار العمل السابق :	33,650.00	م3

مسلسل	الموقع الكيلومتري		الطول (متر)	الكمية (م3)
	من الكم	الى الكم		
1	322+480	322+920	440	5,126.00
اجمالي الكمية الهندسي (م3)				5,126.00
كميات لم يتم صرفها من جاري1 (م3)				1,805.00
الاجمالـي خلال مدة المستخلص (م3)				6,931.00
الإجمالي الكلي (م3)				40,581.00

مهندس الشركة
م / عبدالفتاح الشناوي
عبد الفتاح الشناوي
EGYPT STONE
قطاع المقاولات

مهندس الاستشاري
مكتب KK2
م / أحمد خليل
المكتب الاستشاري الهندسي KK
مشروع القطار الكهربائي السريع غرب الدلتا

مهندس الاستشاري
مكتب أ.د/ خالد قنديل
م / هشام محمد صبري
المكتب الاستشاري الهندسي KK
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس الهيئة
م / أحمد جلال عبد السلام
أحمد جلال

الهيئة العامة للطرق و الكباري (GARBI)

قائمة الكميات الواردة بالمستخلص جاري (2)

اسناد أعمال الجسر الترابي للخط الأول لمشروع القطار الكهربائي السريع
(العين السخنة - العاصمة الإدارية - العلمين - مطروح) (قطاع وادي النطرون / برج العرب)
أعمال ردم لتنفيذ المسافة من الكم 322+480 إلى الكم 322+920 بطول 0.44 كم (بالأمر المباشر).

علاوة بند (1-1) علاوة مسافة النقل 142 كم .

السعر خلال شهر مايو طبقاً للمفاوضة الخاصة بتاريخ 18/12/2023

تنفيذ : "شركة إيجيبت ستون للتعدين والتوريدات"
عقد رقم (1123/2023/2024)

مقدار العمل السابق :	26,920.00	م3

مسلسل	الموقع الكيلومتري		الطول (متر)	الكمية (م3)
	من الكم	الى الكم		
1	322+480	322+920	440	4,100.80
اجمالي الكمية الهندسي (م3)				4,100.80
كميات لم يتم صرفها من جاري1 (م3)				1,444.00
الاجمالـي خلال مدة المستخلص (م3)				5,544.80
الإجمالي الكلي (م3)				32,464.80

مهندس الشركة
م / عبدالفتاح الشناوي
عبدالفتاح الشناوي

مهندس الاستشاري
مكتب XYZ
م / محمد خليل

مهندس الاستشاري
مكتب أ.د/ خالد قنديل
م / هشام محمد صبري

مهندس الهيئة
م / أحمد جلال عبد السلام
أحمد جلال

الهيئة العامة للطرق و الكباري (GARB)

قائمة الكميات الواردة بالمستخلص جاري (2)

اسناد أعمال الجسر الترابي للخط الأول لمشروع القطار الكهربائي السريع
(العين السخنة - العاصمة الإدارية - العلمين - مطروح) (قطاع وادي النطرون / برج العرب)
أعمال ردم لتنفيذ المسافة من الكم 322+480 إلى الكم 322+920 بطول 0.44 كم (بالأمر المباشر).

علاوة بند (1-1) علاوة مسافة النقل 135 كم .

السعر خلال شهر مايو طبقاً للمفاوضة الخاصة بتاريخ 18/12/2023

تنفيذ : "شركة إيجيبت ستون للتعدين والتوريدات"
عقد رقم (1123/2023/2024)

مقدار العمل السابق :	6,730.00	م3

مسلسل	الموقع الكيلومتري		الطول (متر)	الكمية (م3)
	من الكم	الى الكم		
1	322+480	322+920	440	1,025.20
اجمالي الكمية الهندسي (م3)				1,025.20
كميات لم يتم صرفها من جاري1 (م3)				361.00
الاجمالي خلال مدة المستخلص (م3)				1,386.20
الإجمالي الكلي (م3)				8,116.20

مهندس الشركة
م / عبدالفتاح الشناوي
عبدالفتاح الشناوي
EGYPT STONE
قطاع المقاولات

مهندس الاستشاري
مكتب KYZ
م/محمد خليل
مكتب KYZ للاستشارات الهندسية
مشروع القطار السريع عرب النيل

مهندس الاستشاري
مكتب أ.د/ خالد قنديل
م / هشام محمد صبري
KK
المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس الهيئة
م / أحمد جلال عبد السلام
أحمد جلال

EGYPT STONE

ENGINEERING CONSULTING OFFICE
لمكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق و الكباري (GARBI)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.098
Date :	24-Feb-2024
Sample type :	SOIL

Station:	322+480 TO 322+520
aggregate Source :	EL Sewey – EL Captin
Location :	-3

MDD gm/cm³	OMC %	Sand Density
2.156	6.60	1.47

STA. & REF. TO CENTER		322+500							
WT.OF WET SOIL	gms	2560							
WT. OF INITIAL SAND+CONE.	gms	10150							
WT. OF RESIDUAL SAND	gms	7321							
WT. OF SAND TO FILL CONE+HOLE	gms	2829							
WT.OF SAND TO FILL CONE	gms	1141							
WT.OF SAND TO FILL HOLE	gms	1688							
GROSS VOL. OF HOLE	ccs	1168.3							
CONTAINER No.	#	1							
WEIGHT OF CAN	gms	54.0							
WT. OF CAN+WET SOIL	gms	106.0							
WT. OF CAN+DRY SOIL	gms	106.0							
WT. OF WATER	gms	5.0							
WT. OF WET SOIL	gms	2.2							
WATER CONTENT	%	5.0							
DRY UNIT WT. OF SOIL	gm/cc	2.1							
COMPACTION	%	98.0							
REMARKS		accepted							

مهندس الاستشارى

مهندس المواد (الشركة)

EGYPT STONE
قطاع المقاولات

المكتب الاستشاري الهندسي KK
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق والكباري (GARB)

SYSTEM SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.097
Date :	22-2-2024
Sample type :	SOIL

Station:	322+480 TO 322+520
aggregate Source :	EL Sewey – EL Captin
Location :	-3.5

MDD gm/cm³	OMC %	Sand Density
2.168	6.60	1.47

STA. & REF. TO CENTER		322+505							
WT.OF WET SOIL	gms	2571							
WT. OF INITIAL SAND+CONE.	gms	10130							
WT. OF RESIDUAL SAND	gms	7333							
WT. OF SAND TO FILL CONE+HOLE	gms	2797							
WT.OF SAND TO FILL CONE	gms	1141							
WT.OF SAND TO FILL HOLE	gms	1656							
GROSS VOL. OF HOLE	ccs	1126.5							
CONTAINER No.	#	1							
WEIGHT OF CAN	gms	54.0							
WT. OF CAN+WET SOIL	gms	130.0							
WT. OF CAN+DRY SOIL	gms	122.0							
WT. OF WATER	gms	8.0							
WT. OF WET SOIL	gms	2.3							
WATER CONTENT	%	6.6							
DRY UNIT WT. OF SOIL	gm/cc	2.1							
COMPACTION	%	98.9							
REMARKS		accepted							

مهندس الاستشارى

مهندس المواد (الشركة)

المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

EGYPT STONE
قطاع المقاولات

EGYPT STONE

ENGINEERING CONSULTING OFFIC
لمكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق و الكباري (GARBI)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.095		Station:	322+600 TO 322+700	
Date :	14-2-2024		aggregate Source :	EL Sewey – EL Captin	
Sample type :	SOIL		Location :	-1.5	

MDD gm/cm³	OMC %	Sand Density
2.166	6.60	1.47

STA. & REF. TO CENTER		322+685							
WT.OF WET SOIL	gms	2555							
WT. OF INITIAL SAND+CONE.	gms	10148							
WT. OF RESIDUAL SAND	gms	7321							
WT. OF SAND TO FILL CONE+HOLE	gms	2627							
WT.OF SAND TO FILL CONE	gms	1141							
WT.OF SAND TO FILL HOLE	gms	1486							
GROSS VOL. OF HOLE	ccs	1146.9							
CONTAINER No.	#	1							
WEIGHT OF CAN	gms	54.0							
WT. OF CAN+WET SOIL	gms	105.0							
WT. OF CAN+DRY SOIL	gms	102.0							
WT. OF WATER	gms	3.0							
WT. OF WET SOIL	gms	2.2							
WATER CONTENT	%	2.9							
DRY UNIT WT. OF SOIL	gm/cc	2.2							
COMPACTION	%	99.9							
REMARKS		accepted							

مهندس الاستشارى

المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (الشركة)

EGYPT STONE
قطاع المقاولات

محضر مسافة نقل

التاريخ: ١٢ / ٢ / 2024

اسم المشروع: القطار الكهربي السريع القطاع الرابع (الاسكندرية)

قام استشاري الهيئة العامة للطرق والكباري بقياس مسافة النقل من المحجر الى الموقع والعكس

لشركة: "إيجيبت ستون للتعدين والتوريدات"

وبحضور كلا من:-

1- م/ عبدالفتاح الشناوي — مدير المشروع (الشركة المنفذة)
2- م/ هشام محمد صبري — استشاري المشروع (أ.د/ خالد قنديل)
3- م/ كريم بدوي — الاستشاري العام (سيسترا)

وكانت الاحداثيات كالتالي:-

اسم المحجر	الشرق (E)	الشمال (N)	المسافة
محجر الكابتن (رمل)	28° 44' 30.8"	30° 34' 15.7"	135 KM

ملاحظات:-

في حالة تغيير المصدر يتم قياس واعتماد مسافة النقل الجديدة

مدير المشروع (المقاول)
م/ عبدالفتاح الشناوي

مدير المشروع (مكتب د. خالد قنديل)
م/ هشام محمد صبري

الاستشاري العام (سيسترا)
م/ كريم بدوي

مدير المشروع (المالك)
م/ أحمد جلال

المكتب الاستشاري الهندسي (أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع القطاع الرابع (الإسكندرية)

قطاع المقاولات

محضر مسافة نقل

التاريخ: ١١ / ٢ / 2024

اسم المشروع: القطار الكهربي السريع القطاع الرابع (الاسكندرية)

قام استشاري الهيئة العامة للطرق والكباري بقياس مسافة النقل من المحجر الى الموقع والعكس

لشركة: "إيجيبت ستون للتعدين والتوريدات"

وبحضور كلا من:-

1- م/ عبدالفتاح الشناوي — مدير المشروع (الشركة المنفذة)
2- م/ هشام محمد صبري — استشاري المشروع (أ.د/ خالد قنديل)
3- م/ كريم بدوي — الاستشاري العام (سيسترا)

وكانت الاحداثيات كالتالي:-

اسم المحجر	الشرق (E)	الشمال (N)	المسافة
محجر السيوي (تربة)	29° 48′ 26.1″	30° 32′ 19.6″	142 KM

ملاحظات:-

في حالة تغيير المصدر يتم قياس واعتماد مسافة النقل الجديدة

مدير المشروع (المقاول)	مدير المشروع (مكتب د. خالد قنديل)	الاستشاري العام (سيسترا)	مدير المشروع (المالك)
م/ عبدالفتاح الشناوي	م/ هشام محمد صبري	م/ كريم بدوي	م/ أحمد جلال

المكتب الاستشاري الهندسي (أ.د/ خالد قنديل) مدير المشروع: م/ هشام محمد صبري مشروع: القطار الكهربائي السريع القطاع الرابع (الإسكندرية)

EGYPT STONE قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office			
Issued by Contractor	Name	Sign		Date/ Serial Number				Time			
	Eng. Abdelfattah Elshennawy			27-02-2024 ES-M.I.101				04:00 PM			
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	CS	27	02	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+480) to St. (W322+520) (-2.50).		
MAR Approval No	ES M.A.021	Date	12-02-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	1	27/02/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		28/2/2024	
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	28-02-2024		AW.C

* Designer

** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق والكباري (GARS)

SYSTRA SHAHER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.101
Date :	28/2/2023
Sample type :	SOIL

Station:	322+480 TO 322+520
aggregate Source :	EL Sewey – EL Captin
Location :	-2.50

MDD gm/cm³	OMC %	Sand Density
2.166	6.60	1.47

STA. & REF. TO CENTER		322+500							
WT.OF WET SOIL	gms	3510							
WT. OF INITIAL SAND+CONE	gms	10130							
WT. OF RESIDUAL SAND	gms	7350							
WT. OF SAND TO FILL CONE+HOLE	gms	2780							
WT.OF SAND TO FILL CONE	gms	1141							
WT.OF SAND TO FILL HOLE	gms	1639							
GROSS VOL. OF HOLE	ccs	1119.0							
CONTAINER No.	#	1							
WEIGHT OF CAN	gms	54.0							
WT. OF CAN+WET SOIL	gms	116.0							
WT. OF CAN+DRY SOIL	gms	107.8							
WT. OF WATER	gms	8.2							
WT. OF WET SOIL	gms	2.3							
WATER CONTENT	%	7.6							
DRY UNIT WT. OF SOIL	gm/cc	2.1							
COMPACTION	%	96.8							
REMARKS		accepted							

مهندس الاستشارى

KK المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (الشركة)

EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			28-02-2024 ES-M.I.102				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	CS	28	02	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+100) to St. (W322+300) (-1.50).		
MAR Approval No	ES M.A.018	Date	18-01-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	4	28/02/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		29/2/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		29-02-2024	AW.C

* Designer

** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد عنبيل

الهيئة العامة للطرق والكباري (GARB)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.102		Station:	322+100 TO 322+300	
Date :	29/2/2024		aggregate Source :	EL Sowoy – EL Captin	
Sample type :	SOIL		Location :	-1.50	

MDD gm/cm³	OMC %	Sand Density
2.164	6.80	1.47

STA. & REF. TO CENTER		322+150	322+190	322+240	322+290				
WT.OF WET SOIL	gms	2510	2820	2630	2610				
WT. OF INITIAL SAND+CONE.	gms	10130	10293	9983	10293				
WT. OF RESIDUAL SAND	gms	7360	7297	7133	7439				
WT. OF SAND TO FILL CONE+HOLE	gms	2766	2996	2850	2854				
WT.OF SAND TO FILL CONE	gms	1141	1141	1141	1141				
WT.OF SAND TO FILL HOLE	gms	1639	1855	1709	1713				
GROSS VOL. OF HOLE	ccs	1115.0	1261.9	1162.6	1165.3				
CONTAINER No.	#	1	2	3	4				
WEIGHT OF CAN	gms	54.0	66.0	58.0	54.0				
WT. OF CAN+WET SOIL	gms	115.5	130.3	137.0	119.2				
WT. OF CAN+DRY SOIL	gms	107.2	120.0	126.4	110.0				
WT. OF WATER	gms	8.3	10.3	10.6	9.2				
WT. OF WET SOIL	gms	2.3	2.2	2.3	2.2				
WATER CONTENT	%	7.7	8.6	8.4	8.4				
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1	2.1	2.1				
COMPACTION	%	96.6	96.1	96.4	96.5				
REMARKS		accepted	accepted	accepted	accepted				

مهندس الاستشارى

KK المكتب الاستشاري الهندسي
(أ.د/ خالد عنبيل)
مدير المشروع: هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (الشركة)

EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah El-Shennawy			02-03-2024 ES-M.I.103				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	CS	02	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+100) to St. (W322+300) (-1.5) .		
MAR Approval No	ES M.A.018	Date	18-01-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	PLT DIN 18134	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Plate load test	NUMBER	2	02/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1- تم اجراء أختبار P.L.T بواسطة معمل سيل. 2- تم تحقيق النتائج المطلوبة طبقا لمواصفات المشروع.	1-P.L.T was carried- out by CEL Lab. Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah El-Shennawy			
QA/QC *	Eng. Hesham Sabry		4/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	04/03/2024		A.W.C

* Designer

** Alignment / Bridges: Culvert Only

Company : **Egypt Stone**

Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (4) - Alexandria to Borg Al Arab.

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

Test Location : Station (322+100 to 322+300)

Test Date : 02/03/2024

Repot Date : 04/03/2024

Type of soil : A-1-b

Test level : Middle embankment (-1.5) .

Report No. : 08-09

Dear Gentleman,

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

Apparatus

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

Test Procedure

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

Report

1. Evaluation and representation of results
2. Load Settlement curve
3. The test report content the following:-

- location of test site - Dimension of loading plate
- Measuring device used - Type of soil
- Type of Bedding material below the plate -Weathering condition
- Time and date of measurements - Unusual observation made during test
- Dial gauge reading and corresponding normal stress - Loading-settlement curve
- Description of the soil condition below the plate after testing

Report

Job Requirement : Ev2 > (40 MPa)

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Partly Sunny
- Plate Diameter (mm)	600
- date of measurement	02/03/2024
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

Evaluation and representation of results

Test No.	Station	First Cycle	Second Cycle	E_{v2}/E_{v1} Ratio
		E_{v1} (MPa)	E_{v2} (MPa)	
1	322+150	141	158	1.1
	322+250	153	219	1.4

Signature : .....

Company Name : Egypt Stone company
Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (4) - Alexandria to Borg Al Arab.
Test Date : 02/03/2024
report date : 04/03/2024
Location : Station 322+150
Test No. : 001

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.80	0.20	19.71	0.29	19.62	0.38	0.29
2	0.83	19.68	0.32	19.59	0.41	19.50	0.50	0.41
3	1.25	19.55	0.45	19.43	0.57	19.36	0.64	0.55
4	1.67	19.42	0.58	19.31	0.69	19.25	0.75	0.67
5	2.08	19.30	0.70	19.19	0.81	19.10	0.90	0.80
6	2.50	19.18	0.82	19.08	0.92	19.01	0.99	0.91

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.18	0.82	19.08	0.92	19.01	0.99	0.91
2	1.25	19.35	0.65	19.17	0.83	19.09	0.91	0.80
3	0.625	19.49	0.51	19.31	0.69	19.18	0.82	0.67
4	0.01	19.60	0.40	19.45	0.55	19.31	0.69	0.55

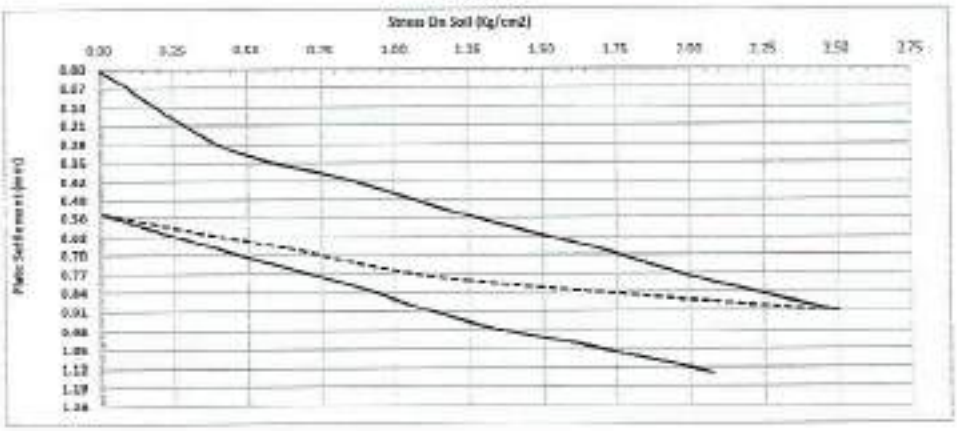
Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.47	0.53	19.30	0.70	19.18	0.82	0.68
1	0.83	19.32	0.68	19.19	0.81	19.07	0.93	0.81
2	1.25	19.20	0.80	19.02	0.98	18.93	1.07	0.95
3	1.67	19.08	0.92	18.95	1.05	18.84	1.16	1.04
4	2.08	18.97	1.03	18.90	1.10	18.71	1.29	1.14

CEL
مكتب معامل الاستشارات الهندسية
الاختبارات المعملية
219-991-5371

Company Name : Egypt Stone company
Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (4) - Alexandria to Borg Al Arab.
Test Date : 02/03/2024
report date : 04/03/2024
Location : Station 322+150
Test No. : 001

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm2)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.29	0.41	0.55	0.67	0.80	0.91

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1766	0
Stress (Kg/cm2)	2.50	1.25	0.625	0.01
Settlement (mm)	0.91	0.80	0.67	0.55

D (mm) = 600		S1 (mm)= 0.39	S2(mm)= 0.70	ΔS = 0.31	
Ev1 (MPa) = (0.75*D*Δσ)/ΔS		141			

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm2)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.55	0.69	0.81	0.95	1.04	1.14

Ev2/Ev1 =	1.1

D (mm) = 600		S1 (mm)= 0.78	S2(mm)= 1.00	ΔS = 0.28	
Ev2 (MPa) = (0.75*D*Δσ)/ΔS		158			

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

مكتب معامل الاستشارات الهندسية
الاستشارات المحلية
219-991-537
٤ شارع سعد الملك - الزمالك

Company Name : Egypt Stone company
Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (4) - Alexandria to Borg Al Arab.
Test Date : 02/03/2024
report date : 04/03/2024
Location : Station 322+250
Test No. : 002

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.55	0.45	19.46	0.54	19.39	0.61	0.53
2	0.83	19.41	0.59	19.30	0.70	19.24	0.76	0.68
3	1.25	19.29	0.71	19.18	0.82	19.10	0.90	0.81
4	1.67	19.17	0.83	19.06	0.94	19.00	1.00	0.92
5	2.08	19.07	0.93	18.98	1.02	18.90	1.10	1.02
6	2.50	19.00	1.00	18.91	1.09	18.83	1.17	1.09

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.00	1.00	18.91	1.09	18.83	1.17	1.09
2	1.25	19.18	0.82	19.06	0.94	18.89	1.11	0.95
3	0.625	19.32	0.68	19.14	0.86	19.03	0.97	0.84
4	0.01	19.43	0.57	19.29	0.71	19.11	0.89	0.72

Loading Stage (2)

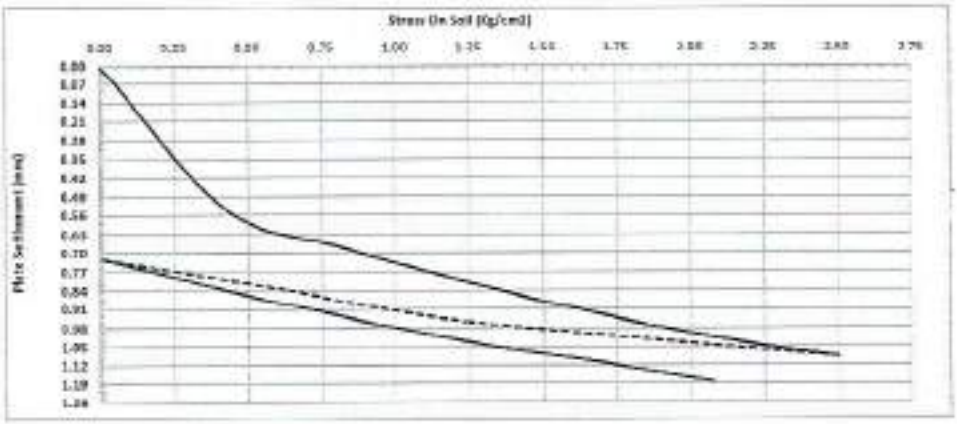
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.31	0.69	19.16	0.84	19.02	0.98	0.84
1	0.83	19.20	0.80	19.04	0.96	18.94	1.06	0.94
2	1.25	19.08	0.92	18.95	1.05	18.87	1.13	1.03
3	1.67	18.97	1.03	18.90	1.10	18.81	1.19	1.11
4	2.08	18.90	1.10	18.82	1.18	18.73	1.27	1.18

CEL
مكتب معامل الاستشارات الهندسية
الاختبارات المعملية
ت: ٢٧٣٦٧٢٣١ - ٢٧٣٦٣٠٩٣
٣ ش الملك الأفضل - الزمالك

CEL
Consulting Engineering Bureau & Laboratories
مكتب معامل الإستشارات الهندسية

Company Name : Egypt Stone company
Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (4) - Alexandria to Borg Al Arab.
Test Date : 02/03/2024
report date : 04/03/2024
Location : Station 322+250
Test No. : 002

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.8	3532.5	4719.4	5878.1	7065
Stress (Kg/cm2)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.53	0.68	0.81	0.92	1.02	1.09

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1766	0
Stress (Kg/cm2)	2.50	1.25	0.625	0.01
Settlement (mm)	1.09	0.96	0.84	0.72

D (mm) = 600		S1 (mm)= 0.65	S2(mm)= 0.94	ΔS = 0.29	
Ev1 (MPa) = (0.75*D*Δσ)/ΔS			159		

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.8	3532.5	4719.4	5878.1
Stress (Kg/cm2)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.72	0.84	0.94	1.09	1.11	1.18

D (mm) = 600		S1 (mm)= 0.92	S2(mm)= 1.12	ΔS = 0.20	
Ev2 (MPa) = (0.75*D*Δσ)/ΔS			219		

Ev2/Ev1 =	1.4

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

مكتب معامل الاستشارات الهندسية
الاختبارات المعملية
219 - 9001 - 537

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

IAS ACCREDITED Testing Laboratory

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

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			29-02-2024 ES-M.I.104				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	CS	29	02	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+300) to St. (W322+460) (-1.00).		
MAR Approval No	ES M.A.022	Date	25-02-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	7	29/02/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		2/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	02-03-2024		A.W.C

* Designer

** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد صبري

الهيئة العامة للطرق والكباري (GARB)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.104	Station:	322+300	TO	322+460
Date :	2-Mar-2024	aggregate Source :	EL Sewey – EL Captin		
Sample type :	SOIL	Location :	-1.00		

MDD gm/cm³	OMC %	Sand Density
2.144	7.40	1.47

STA. & REF. TO CENTER		322+325	322+350	322+375	322+400	322+425	322+450	322+460	
WT.OF WET SOIL	gms	3056	3030	2830	2610	2720	2600	2632	
WT. OF INITIAL SAND+CONE.	gms	10132	10297	9984	10293	10123	10111	10132	
WT. OF RESIDUAL SAND	gms	6990	7110	7090	7455	7190	7200	7220	
WT. OF SAND TO FILL CONE+HOLE	gms	3142	3187	2894	2838	2933	2911	2912	
WT.OF SAND TO FILL CONE	gms	1141	1141	1141	1141	1141	1141	1141	
WT.OF SAND TO FILL HOLE	gms	2001	2046	1753	1697	1792	1770	1771	
GROSS VOL. OF HOLE	ccs	1361.2	1391.8	1192.5	1154.4	1219.0	1204.1	1204.8	
CONTAINER No.	#	1	2	3	4	5	6	7	
WEIGHT OF CAN	gms	55.0	64.0	57.0	56.0	66.0	60.0	67.0	
WT. OF CAN+WET SOIL	gms	119.5	128.1	138.2	123.0	134.0	132.0	135.0	
WT. OF CAN+DRY SOIL	gms	110.0	121.2	127.8	113.1	124.0	126.1	126.0	
WT. OF WATER	gms	9.5	6.9	10.4	9.9	10.0	5.9	9.0	
WT. OF WET SOIL	gms	2.2	2.2	2.2	2.3	2.2	2.2	2.2	
WATER CONTENT	%	8.6	5.7	8.1	8.8	8.1	4.7	7.1	
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1	2.0	2.1	2.1	2.1	2.0	
COMPACTION	%	96.4	96.1	95.1	97.0	96.3	96.2	95.1	
REMARKS		accepted	accepted	accepted	accepted	accepted	accepted	accepted	

مهندس الاستشارى

KK المكتب الاستشاري الهندسي
(أ.د. خالد صبري)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (الشركة)

EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES	Designer Company	(KK) Engineering Consulting Office
Issued by Contractor	Name: Eng. Abdelfattah Elshennawy	Sign	Date/ Serial Number: 02-03-2024 ES-M.I.105	Time: 04:00 PM
Received by ER	Eng. Gaber Ibrahim	MIR	

C1	C2	C3	DD	MM	YY	HH	MM
W322	EW	C5	02	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+100) to St. (W322+300) (-1.25).		
MAR Approval No	ES M.A.022	Date	25-02-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	8	02/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		3/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	03-03-2024		AWC

* Designer

** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد عبدالحليم

الهيئة العامة للطرق والكباري (GARBI)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.105
Date :	3-Mar-2024
Sample type :	SOIL

Station:	322+100	TO	322+300
aggregate Source :	EL Sewey – EL Captin		
Location :	-1.25		

MDD gm/cm³	OMC %	Sand Density
2.144	7.40	1.47

STA. & REF. TO CENTER		322+125	322+150	322+175	322+200	322+225	322+250	322+275	322+300
WT.OF WET SOIL	gms	3010	2590	2570	2570	2660	2590	2570	2560
WT. OF INITIAL SAND+CONE.	gms	10132	10297	9984	10293	10123	10111	10132	10130
WT. OF RESIDUAL SAND	gms	7030	7150	7130	7495	7230	7240	7260	7260
WT. OF SAND TO FILL CONE+HOLE	gms	3102	3147	2854	2798	2893	2871	2872	2870
WT.OF SAND TO FILL CONE	gms	1141	1141	1141	1141	1141	1141	1141	1141
WT.OF SAND TO FILL HOLE	gms	1961	2006	1713	1657	1752	1730	1731	1729
GROSS VOL. OF HOLE	ccs	1334.0	1364.6	1166.3	1127.2	1191.8	1176.9	1177.6	1176.2
CONTAINER No.	#	1	2	3	4	5	6	7	8
WEIGHT OF CAN	gms	55.0	64.0	57.0	55.0	56.0	60.0	67.0	67.0
WT. OF CAN+WET SOIL	gms	119.9	128.1	138.2	123.0	134.0	132.0	136.0	133.2
WT. OF CAN+DRY SOIL	gms	110.9	122.1	128.7	114.0	124.9	127.0	126.9	126.9
WT. OF WATER	gms	9.0	6.0	9.5	9.0	9.1	5.0	8.1	6.3
WT. OF WET SOIL	gms	2.3	2.2	2.2	2.3	2.2	2.2	2.2	2.2
WATER CONTENT	%	8.1	4.9	7.4	7.9	7.3	3.9	6.4	5.0
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
COMPACTION	%	97.6	97.4	95.8	98.6	97.8	97.6	96.7	96.3
REMARKS		accepted	accepted	accepted	accepted	accepted	accepted	accepted	accepted

مهندس الاستشارى

KK المكتب الاستشاري الهندسي
(أ.د/ خالد عبدالحليم)
مدير المشروع: م/ هشام محمد مصري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (الشركة)

EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			02-03-2024 ES-M.I.106				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	C5	02	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+300) to St. (W322+460) (-0.75).		
MAR Approval No	ES M.A.022	Date	25-02-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	7	02/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)

1. تم استلام SAND CONE .
2. تم تحقيق نسبة الدمك المطلوبة.

Comments by: Eng. Gaber Ibrahim

1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant.
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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		3/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	03.03.2024		A.W.C

* Designer
** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق والكباري (GARBI)

CYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.106
Date :	3-Mar-2024
Sample type :	SOIL

Station:	322+300	TO	322+460
aggregate Source :	EL Sewey – EL Gaptin		
Location :	-0.75		

MDD gm/cm³	OMC %	Sand Density
2.144	7.40	1.40

STA. & REF. TO CENTER		322+325	322+350	322+375	322+400	322+425	322+450	322+460	
WT.OF WET SOIL	gms	2966	2940	2520	2520	2530	2510	2520	
WT. OF INITIAL SAND+CONE.	gms	10132	10297	9984	10293	10123	10111	10132	
WT. OF RESIDUAL SAND	gms	7010	7130	7170	7475	7240	7220	7325	
WT. OF SAND TO FILL CONE+HOLE	gms	3122	3167	2814	2818	2883	2891	2807	
WT.OF SAND TO FILL CONE	gms	1141	1141	1141	1141	1141	1141	1141	
WT.OF SAND TO FILL HOLE	gms	1981	2026	1673	1677	1742	1750	1666	
GROSS VOL. OF HOLE	cc	1329.5	1359.7	1122.8	1125.5	1169.1	1174.5	1118.1	
CONTAINER No.	#	1	2	3	4	5	6	7	
WEIGHT OF CAN	gms	56.0	64.0	57.0	55.0	56.0	60.0	67.0	
WT. OF CAN+WET SOIL	gms	119.3	128.1	138.2	123.0	134.0	132.0	135.0	
WT. OF CAN+DRY SOIL	gms	110.7	121.9	128.5	113.8	124.7	126.8	128.7	
WT. OF WATER	gms	8.6	6.2	9.7	9.2	9.3	5.2	6.3	
WT. OF WET SOIL	gms	2.2	2.2	2.2	2.2	2.2	2.1	2.3	
WATER CONTENT	%	7.8	5.1	7.5	8.1	7.5	4.1	6.6	
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
COMPACTION	%	96.8	96.0	97.3	96.6	97.6	95.8	98.7	
REMARKS		accepted	accepted	accepted	accepted	accepted	accepted	accepted	

مهندس الاستشاري
KK المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المكتب/ هشام محمد حجري
مشروع: الطريق الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (الشركة)
EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			02-03-2024 ES-M.I.107				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W323	EW	CS	02	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)			
Location to be Used	From St. (W323+160) to St. (W323+240) (-2.00).			
MAR Approval No	ES M.A.021		Date	12-02-2024
Supplier Name	EL Sewey – EL Captin			
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP	
Reference Photos	No	Other		

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	2	02/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		3/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	03-03-2024		A.W.C

* Designer

** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFIC
لمكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق و الكباري (GARB)

EVSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.107	Station:	323+180 TO 323+240
Date :	3/3/2024	aggregate Source :	EL Sewey – EL Captin
Sample type :	SOIL	Location :	2.00

MDD gm/cm³	OMC %	Sand Density
2.196	6.00	1.47

STA. & REF. TO CENTER		323+185	323+210						
WT.OF WET SOIL	gms	2510	2820						
WT. OF INITIAL SAND+CONE	gms	10148	10293						
WT. OF RESIDUAL SAND	gms	7350	7297						
WT. OF SAND TO FILL CONE+HOLE	gms	2798	2996						
WT.OF SAND TO FILL CONE	gms	1141	1141						
WT.OF SAND TO FILL HOLE	gms	1657	1855						
GROSS VOL. OF HOLE	ccs	1127.2	1261.9						
CONTAINER No.	#	1	2						
WEIGHT OF CAN	gms	54.0	56.0						
WT. OF CAN+WET SOIL	gms	116.0	129.0						
WT. OF CAN+DRY SOIL	gms	107.2	122.0						
WT. OF WATER	gms	8.8	7.0						
WT. OF WET SOIL	gms	2.2	2.2						
WATER CONTENT	%	8.2	5.7						
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1						
COMPACTION	%	95.0	97.6						
REMARKS		accepted	accepted						

مهندس الإستشارى

مهندس المواد (الشركة)

EGYPT STONE
قطاع المقاولات

KK المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company	(KK) Engineering Consulting Office
Issued by Contractor	Name	Sign		Date/ Serial Number	Time
	Eng. Abdelfattah Elshennawy			04-03-2024 ES-M.I. 108 REJ	04:00 PM
Received by ER	Eng. Gaber Ibrahim		MIR		

C1	C2	C3	DD	MM	YY	HH	MM
W323	EW	CS	04	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W323+040) to St. (W323+160) (-2.00).		
MAR Approval No	ES M.A.020	Date	23-01-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	3	04/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. لم يتم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 2-Results report attached and unacceptable with project specifications. 3-Final approval is subject to above-mentioned comments. Retest is Required.

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		5/3/2024	R
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		05-03-2024	R

* Designer
** Alignment / Bridges Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق والكباري (GARBI)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.108 REJ
Date :	5-Mar-2024
Sample type :	SOIL

Station:	323+040	TO	323+160
aggregate Source :	EL Sewey – EL Captin		
Location :	-2.00		

MDD gm/cm³	OMC %	Sand Density
2.156	7.80	1.40

STA. & REF. TO CENTER		323+090	323+140	323+160					
WT.OF WET SOIL	gms	2880	2920	2500					
WT. OF INITIAL SAND+CONE.	gms	10132	10297	9984					
WT. OF RESIDUAL SAND	gms	7050	7050	7100					
WT. OF SAND TO FILL CONE+HOLE	gms	3082	3247	2884					
WT.OF SAND TO FILL CONE	gms	1141	1141	1141					
WT.OF SAND TO FILL HOLE	gms	1941	2106	1743					
GROSS VOL. OF HOLE	cc	1302.7	1413.4	1169.8					
CONTAINER No.	#	1	2	3					
WEIGHT OF CAN	gms	55.0	64.0	57.0					
WT. OF CAN+WET SOIL	gms	120.4	128.1	138.2					
WT. OF CAN+DRY SOIL	gms	109.9	121.1	127.7					
WT. OF WATER	gms	10.5	7.0	10.5					
WT. OF WET SOIL	gms	2.2	2.1	2.1					
WATER CONTENT	%	9.6	5.3	8.2					
DRY UNIT WT. OF SOIL	gm/cc	2.0	2.0	2.0					
COMPACTION	%	93.9	90.5	91.6					
REMARKS		rejected	rejected	rejected					

مهندس الاستشارى

مهندس المواد (الشركة)
EGYPT STONE
قطاع المقاولات

KK المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			05-03-2024 ES-M.I.109 RET-108				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DO	MM	YY	HH	MM
				W323	EW	CS	05	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W323+040) to St. (W323+160) (-2.00).		
MAR Approval No	ES M.A.020	Date	23-01-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	3	05/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)

1. تم استلام SAND CONE .
2. تم تحقيق نسبة الدمك المطلوبة.

Comments by: Eng. Gaber Ibrahim

1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant.
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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		6/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	06-03-2024		A-W.C

* Designer
** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق والكباري (GARB)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.109RET-108	Station:	323+040	TO	323+160
Date :	6-Mar-2024	aggregate Source :	EL Sewey – EL Captin		
Sample type :	SOIL	Location :	-2.00		

MDD gm/cm³	OMC %	Sand Density
2.150	7.80	1.49

STA. & REF. TO CENTER		323+090	323+140	323+160					
WT.OF WET SOIL	gms	2946	2920	2500					
WT. OF INITIAL SAND+CONE.	gms	10132	10297	9984					
WT. OF RESIDUAL SAND	gms	7050	7170	7210					
WT. OF SAND TO FILL CONE+HOLE	gms	3082	3127	2774					
WT.OF SAND TO FILL CONE	gms	1141	1141	1141					
WT.OF SAND TO FILL HOLE	gms	1941	1986	1633					
GROSS VOL. OF HOLE	ccs	1302.7	1332.9	1096.0					
CONTAINER No.	#	1	2	3					
WEIGHT OF CAN	gms	55.0	54.0	57.0					
WT. OF CAN+WET SOIL	gms	130.4	128.1	138.2					
WT. OF CAN+DRY SOIL	gms	109.9	121.1	127.7					
WT. OF WATER	gms	10.5	7.0	10.5					
WT. OF WET SOIL	gms	2.3	2.2	2.3					
WATER CONTENT	%	9.6	6.8	8.2					
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1	2.1					
COMPACTION	%	96.7	96.0	97.7					
REMARKS		accepted	accepted	accepted					

مهندس الاستشاري
KK المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المورد (الشركة)
EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES	Designer Company	(KK) Engineering Consulting Office
Issued by Contractor	Name: Eng. Abdelfattah Elshennawy	Sign	Date/ Serial Number: 03-03-2024 ES-M.I.110	Time: 04:00 PM
Received by ER	Eng. Gaber Ibrahim		MIR	

C1	C2	C3	DD	MM	YY	HH	MM
W322	EW	CS	03	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+480) to St. (W322+520) (-2.00).		
MAR Approval No	ES M.A.022	Date	25-02-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	1	03/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)

1. تم استلام SAND CONE .
2. تم تحقيق نسبة الدمك المطلوبة.

Comments by: Eng. Gaber Ibrahim

1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant.
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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		4/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	04-03-2024		A-W-C

* Designer
** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق و الكباري (GARB)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.110
Date :	4-Mar-2024
Sample type :	SOIL

Station:	322+480	TO	322+520
Aggregate Source :	EL Sewey – EL Captin		
Location :	-2.00		

MDD gm/cm³	OMC %	Sand Density
2.144	7.40	1.49

STA. & REF. TO CENTER		322+520							
WT.OF WET SOIL	gms	2866							
WT. OF INITIAL SAND+CONE.	gms	10132							
WT. OF RESIDUAL SAND	gms	7079							
WT. OF SAND TO FILL CONE+HOLE	gms	3053							
WT.OF SAND TO FILL CONE	gms	1141							
WT.OF SAND TO FILL HOLE	gms	1912							
GROSS VOL. OF HOLE	cms	1283.2							
CONTAINER No.	#	1							
WEIGHT OF CAN	gms	55.0							
WT. OF CAN+WET SOIL	gms	119.3							
WT. OF CAN+DRY SOIL	gms	109.7							
WT. OF WATER	gms	9.6							
WT. OF WET SOIL	gms	2.2							
WATER CONTENT	%	8.8							
DRY UNIT WT. OF SOIL	gm/cc	2.1							
COMPACTION	%	98.8							
REMARKS		accepted							

مهندس الاستشاري

KK المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ قطب محمد مصري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (الشركة)

EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			04-03-2024 ES-M.I.111				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W323	EW	CS	04	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W323+340) to St. (W323+450) (-3.00).		
MAR Approval No	ES M.A.022	Date	25-02-2024
Supplier Name	**EL Sewey – EL Captin**		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY OVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	3	04/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		5/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	05.03.2024		A.W.C

* Designer
** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.م. خالد قنديل

الهيئة العامة للطرق و الكباري (GARB)

SYSTRA SHASER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.111
Date :	5-Mar-2024
Sample type :	SOIL

Station:	323+340	TO	323+450
aggregate Source :	EL Sewey – EL Captin		
Location :	-3.00		

MDD gm/cm³	OMC %	Sand Density
2.144	7.40	1.49

STA. & REF. TO CENTER		323+390	323+440	323+450					
WT.OF WET SOIL	gms	2928	2894	2474					
WT. OF INTIAL SAND+CONE.	gms	10132	10297	9984					
WT. OF RESIDUAL SAND	gms	7063	7183	7223					
WT. OF SAND TO FILL CONE+HOLE	gms	3069	3114	2761					
WT.OF SAND TO FILL CONE	gms	1141	1141	1141					
WT.OF SAND TO FILL HOLE	gms	1928	1973	1620					
GROSS VOL. OF HOLE	ccs	1294.0	1324.2	1087.2					
CONTAINER No.	#	1	2	3					
WEIGHT OF CAN	gms	55.0	64.0	57.0					
WT. OF CAN+WET SOIL	gms	121.0	128.1	138.2					
WT. OF CAN+DRY SOIL	gms	109.7	120.9	127.5					
WT. OF WATER	gms	11.3	7.2	10.7					
WT. OF WET SOIL	gms	2.3	2.2	2.3					
WATER CONTENT	%	10.3	6.0	8.4					
DRY UNIT WT. OF SOIL	gm/cc	2.0	2.1	2.1					
COMPACTION	%	95.4	96.2	97.9					
REMARKS		accepted	accepted	accepted					

مهندس الاستشارى

المكتب الاستشاري الهندسي KK
(أ.م خالد قنديل)
مدير المكتب هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (الشركة)

EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			04-03-2024 ES-M.I.112				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	CS	04	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+480) to St. (W322+520) (-1.75).		
MAR Approval No	ES M.A.022	Date	25-02-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	1	04/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		5/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		05-03-2024	A.W.C

* Designer

** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد خليل

الهيئة العامة للطرق و الكباري (GARBI)

SYSTRA GHADER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.112	Station:	322+480	TO	322+520
Date :	5-Mar-2024	Aggregate Source :	EL Sewey – EL Captin		
Sample type :	SOIL	Location :	-1.75		

MDD gm/cm³	OMC %	Sand Density
2.144	7.40	1.49

STA. & REF. TO CENTER		322+500							
WT.OF WET SOIL	gms	2886							
WT. OF INITIAL SAND+CONE.	gms	10132							
WT. OF RESIDUAL SAND	gms	7090							
WT. OF SAND TO FILL CONE+HOLE	gms	3042							
WT.OF SAND TO FILL CONE	gms	1141							
WT.OF SAND TO FILL HOLE	gms	1901							
GROSS VOL. OF HOLE	cca	1275.8							
CONTAINER No.	#	1							
WEIGHT OF CAN	gms	56.0							
WT. OF CAN+WET SOIL	gms	115.7							
WT. OF CAN+DRY SOIL	gms	109.5							
WT. OF WATER	gms	10.3							
WT. OF WET SOIL	gms	2.3							
WATER CONTENT	%	9.4							
DRY UNIT WT. OF SOIL	gm/cc	2.1							
COMPACTION	%	96.5							
REMARKS		accepted							

مهندس الاستشاري
KK المكتب الاستشاري الهندسي
(أ.د/ خالد خليل)
مدير المشروع/ مشاور محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس الموارد (الشركة)
EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			06-03-2024 ES-M.I.113				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	CS	06	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+100) to St. (W322+300) (-1.00).		
MAR Approval No	ES M.A.023	Date	02-03-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	8	06/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE - 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		7/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	07-03-2024		A-W.C

* Designer
** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق و الكباري (GARB)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.113
Date :	7-Mar-2024
Sample type :	SOIL

Station:	322+100	TO	322+300
Aggregate Source :	EL Sewey – EL Captin		
Location :	-1.00		

MDD gm/cm³	OMC %	Sand Density
2.149	7.11	1.49

STA. & REF. TO CENTER		322+125	322+150	322+175	322+200	322+225	322+250	322+275	322+300
WT.OF WET SOIL	gms	2906	2880	2460	2480	2570	2450	2660	2640
WT. OF INITIAL SAND+CONE.	gms	10132	10297	9984	10293	10123	10111	10132	10130
WT. OF RESIDUAL SAND	gms	7070	7190	7230	7535	7300	7310	7385	7370
WT. OF SAND TO FILL CONE+HOLE	gms	3062	3107	2754	2758	2823	2801	2747	2760
WT.OF SAND TO FILL CONE	gms	1141	1141	1141	1141	1141	1141	1141	1141
WT.OF SAND TO FILL HOLE	gms	1921	1966	1613	1617	1682	1660	1606	1619
CROSS VOL. OF HOLE	cm³	1289.3	1319.5	1082.6	1085.2	1128.9	1114.1	1077.9	1086.6
CONTAINER No.	#	1	2	3	4	5	6	7	8
WEIGHT OF CAN	gms	65.0	64.0	57.0	55.0	56.0	60.0	67.0	67.0
WT. OF CAN+WET SOIL	gms	119.7	128.1	138.2	123.0	134.0	132.0	135.0	133.2
WT. OF CAN+DRY SOIL	gms	109.6	120.7	127.3	112.6	123.6	126.4	125.8	125.5
WT. OF WATER	gms	10.3	7.4	11.0	10.5	10.6	6.5	9.5	7.7
WT. OF WET SOIL	gms	2.3	2.2	2.3	2.3	2.3	2.2	2.3	2.2
WATER CONTENT	%	9.4	6.2	8.6	9.3	8.6	5.1	7.6	6.2
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
COMPACTION	%	95.9	96.7	97.4	96.6	97.6	97.3	98.7	98.4
REMARKS		accepted	accepted	accepted	accepted	accepted	accepted	accepted	accepted

مهندس الاستشارى

KK المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (شركة)

EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES	Designer Company	(KK) Engineering Consulting Office
Issued by Contractor	Name: Eng. Abdelfattah Elshennawy	Sign	Date/ Serial Number: 06-03-2024 ES-M.I.114 REJ	Time: 04:00 PM
Received by ER	Eng. Gaber Ibrahim		MIR	

C1	C2	C3	DD	MM	YY	HH	MM
W322	EW	CS	06	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+880) to St. (W322+980) (-1.25).		
MAR Approval No	ES M.A.023	Date	02-03-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	4	06/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)

1. تم استلام SAND CONE .
2. لم يتم تحقيق نسبة الدمك المطلوبة.

Comments by: Eng. Gaber Ibrahim

1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant.
2-Results report attached and acceptable with project specifications.
3-Final approval is subject to above-mentioned comments. Retest is Required.

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		7/3/2024	R
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		07-03-2024	R

* Designer
** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد فديل

الهيئة العامة للطرق والكباري (GARB)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.114 rej	Station:	322+880	TO	322+980
Date :	7-Mar-2024	aggregate Source :	EL Sewey – EL Captin		
Sample type :	SOIL	Location :	-1.25		

MDD gm/cm³	OMC %	Sand Density
2.149	7.11	1.49

STA. & REF. TO CENTER		322+905	322+930	322+955	322+980				
WT.OF WET SOIL	gms	2867	2831	2411	2411				
WT. OF INITIAL SAND+CONE.	gms	10132	10297	9984	10293				
WT. OF RESIDUAL SAND	gms	7066	7176	7216	7521				
WT. OF SAND TO FILL CONE+HOLE	gms	3076	3121	2768	2772				
WT.OF SAND TO FILL CONE	gms	1141	1141	1141	1141				
WT.OF SAND TO FILL HOLE	gms	1935	1980	1627	1631				
GROSS VOL. OF HOLE	ccs	1298.7	1323.9	1091.9	1094.6				
CONTAINER No.	#	1	2	3	4				
WEIGHT OF CAN	gms	55.0	64.0	57.0	55.0				
WT. OF CAN+WET SOIL	gms	120.1	128.1	138.2	123.0				
WT. OF CAN+DRY SOIL	gms	110.4	121.6	128.2	113.5				
WT. OF WATER	gms	9.7	6.5	10.0	9.5				
WT. OF WET SOIL	gms	2.2	2.1	2.2	2.2				
WATER CONTENT	%	8.8	5.3	7.8	8.4				
DRY UNIT WT. OF SOIL	gm/cc	2.0	2.0	2.0	2.0				
COMPACTION	%	94.1	94.1	95.3	94.6				
REMARKS		rejected	rejected	accepted	rejected				

مهندس الاستشاري

KK المكتب الاستشاري الهندسي
(أ.د. خالد فديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (الشركة)

EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office			
Issued by Contractor	Name	Sign		Date/ Serial Number				Time			
	Eng. Abdelfattah Elshennawy			07-03-2024 ES-M.I.115 RET-114 REJ				04:00 PM			
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	CS	07	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+880) to St. (W322+980) (-1.25).		
MAR Approval No	ES M.A.023	Date	02-03-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	4	07/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		9/3/2024	
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	02-03-2024		A W.C

* Designer
** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق والكباري (GARB)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.115 rct-114	Station:	322+880 TO 322+980
Date :	9-Mar-2024	aggregate Source :	El. Sewey – El. Captin
Sample type :	SOIL	Location :	-1.25

MDD gm/cm³	OMC %	Sand Density
2.149	7.11	1.49

STA. & REF. TO CENTER		322+905	322+930	322+955	322+980				
WT.OF WET SOIL	gms	2867	2999	2461	2667				
WT. OF INITIAL SAND+CONE	gms	10132	10297	9984	10293				
WT. OF RESIDUAL SAND	gms	7066	7176	7216	7521				
WT. OF SAND TO FILL CONE+HOLE	gms	3066	3121	2768	2772				
WT.OF SAND TO FILL CONE	gms	1141	1141	1141	1141				
WT.OF SAND TO FILL HOLE	gms	1925	1980	1627	1631				
GROSS VOL. OF HOLE	ccs	1291.2	1328.9	1091.9	1094.6				
CONTAINER No.	#	1	2	3	4				
WEIGHT OF CAN	gms	55.0	54.0	57.0	55.0				
WT. OF CAN+WET SOIL	gms	120.1	128.1	138.2	123.0				
WT. OF CAN+DRY SOIL	gms	110.6	121.8	128.4	113.7				
WT. OF WATER	gms	9.5	6.3	9.8	9.3				
WT. OF WET SOIL	gms	2.2	2.2	2.3	2.3				
WATER CONTENT	%	8.6	5.2	7.6	6.2				
DRY UNIT WT. OF SOIL	gm/cc	2.0	2.1	2.1	2.1				
COMPACTION	%	95.1	98.6	97.4	96.9				
REMARKS		accepted	accepted	accepted	accepted				

مهندس الاستشارى

المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبحي
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المقاولات

EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			06-03-2024 ES-M.I.116				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	C5	06	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+460) to St. (W322+520) (-1.50).		
MAR Approval No	ES M.A.023	Date	02-03-2024
Supplier Name	**EL Sewey – EL Captin**		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	2	06/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		7/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		07/03/2024	A.W.C

* Designer

** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق و الكباري
(GARB)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.116	Station:	322+460	TO	322+520
Date :	7-Mar-2024	aggregate Source :	EL Sewey – EL Captin		
Sample type :	SOIL	Location :	-1.50		

MDD gm/cm³	OMC %	Sand Density
2.149	7.11	1.49

STA. & REF. TO CENTER		322+485	322+510	322+520					
WT.OF WET SOIL	gms	2896	2937	2500					
WT. OF INTIAL SAND+CONE.	gms	10132	10297	9984					
WT. OF RESIDUAL SAND	gms	7039	7149	7189					
WT. OF SAND TO FILL CONE+HOLE	gms	3093	3148	2795					
WT.OF SAND TO FILL CONE	gms	1141	1141	1141					
WT.OF SAND TO FILL HOLE	gms	1952	2007	1654					
GROSS VOL. OF HOLE	ccs	1310.1	1347.0	1110.1					
CONTAINER No.	#	1	2	3					
WEIGHT OF CAN	gms	65.0	64.0	57.0					
WT. OF CAN+WET SOIL	gms	110.4	126.1	136.2					
WT. OF CAN+DRY SOIL	gms	111.2	122.4	129.0					
WT. OF WATER	gms	0.6	5.7	6.2					
WT. OF WET SOIL	gms	2.2	2.2	2.3					
WATER CONTENT	%	7.7	4.7	7.1					
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1	2.1					
COMPACTION	%	95.5	96.9	97.8					
REMARKS		accepted	accepted	accepted					

مهندس الاستشارى

KK المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس الموقع (الشركة)

EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah El-Shennawy			10-03-2024 ES-M.I. 117				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	CS	10	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+460) to St. (W322+520) (-1.5) .		
MAR Approval No	ES M.A.023	Date	02-03-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	PLT DIN 18134	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Plate load test	NUMBER	1	10/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)

1- تم اجراء أختبار P.L.T بواسطة معمل سول.
2- تم تحقيق النتائج المطلوبة طبقا لمواصفات المشروع.

Comments by: Eng. Gaber Ibrahim

1-P.L.T was carried- out by CEL Lab. Attendances of material engineer for both contractor and GARB Consultant.
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. Abdelfattah El-Shennawy			
QA/QC *	Eng. Hesham Sabry		11/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	11-03-2024		A.W.C

* Designer
** Alignment / Bridges: Culvert Only

Company : **Egypt Stone**

Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (4) - Alexandria to Borg Al Arab.

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

Test Location : Station (322+460 to 322+520)

Test Date : 10/03/2024

Repot Date : 11/03/2024

Type of soil : ----

Test level : Middle embankment (-1.5) .

Report No. : 10

Dear Gentleman,

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

Apparatus

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

Test Procedure

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

Report

1. Evaluation and representation of results
2. Load Settlement curve
3. The test report content the following:-

- location of test site - Dimension of loading plate
- Measuring device used - Type of soil
- Type of Bedding material below the plate -Weathering condition
- Time and date of measurements - Unusual observation made during test
- Dial gauge reading and corresponding normal stress - Loading-settlement curve
- Description of the soil condition below the plate after testing

Report

Job Requirement : Ev2 > (40 MPa)

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Partly Sunny
- Plate Diameter (mm)	600
- date of measurement	10/03/2024
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

Evaluation and representation of results

Test No.	Station	First Cycle	Second Cycle	E_{v2}/E_{v1} Ratio
		E_{v1} (MPa)	E_{v2} (MPa)	
1	322+490	87	162	1.9

Signature / ...Khaled...

Company Name : Egypt Stone company
Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (4) - Alexandrie to Borg Al Arab.
Test Date : 10/03/2024
report date : 11/03/2024
Location : Station 322+490
Test No. : 001

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.62	0.38	19.79	0.21	19.89	0.11	0.23
2	0.83	19.21	0.79	19.57	0.43	19.79	0.21	0.48
3	1.25	18.91	1.09	19.33	0.67	19.68	0.32	0.69
4	1.67	18.64	1.36	19.11	0.89	19.54	0.46	0.90
5	2.08	18.45	1.55	18.92	1.08	19.39	0.61	1.08
6	2.50	18.21	1.79	18.72	1.28	19.23	0.77	1.28

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	18.21	1.79	18.72	1.28	19.23	0.77	1.28
2	1.25	18.32	1.68	18.93	1.07	19.27	0.73	1.16
3	0.625	18.50	1.50	19.00	1.00	19.43	0.57	1.02
4	0.01	18.98	1.02	19.33	0.67	19.67	0.33	0.67

Loading Stage (2)

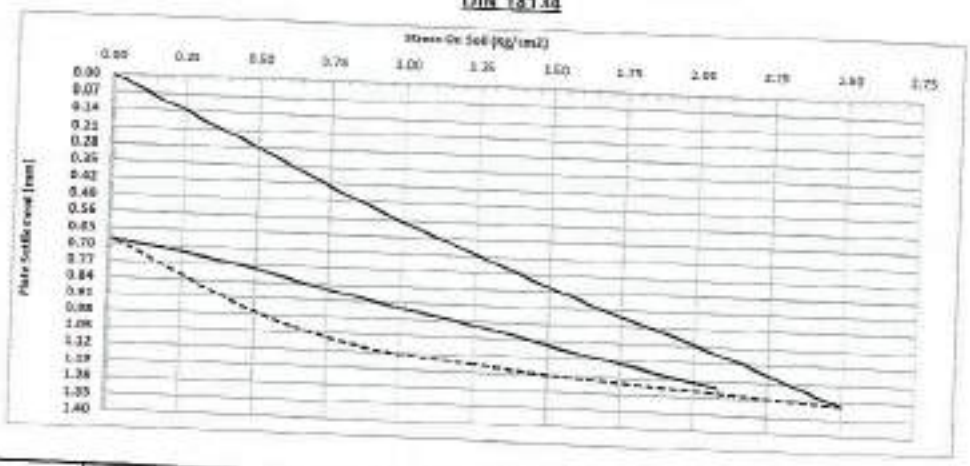
Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	18.84	1.16	19.22	0.78	19.65	0.35	0.76
1	0.83	18.67	1.33	19.10	0.90	19.57	0.43	0.89
2	1.25	18.54	1.46	19.00	1.00	19.47	0.53	1.00
3	1.67	18.41	1.59	18.88	1.12	19.37	0.63	1.11
4	2.08	18.29	1.71	18.77	1.23	19.28	0.72	1.22

CEL
مكتب معامل الاستشارات الهندسية
الاختبارات المعملية
219-991-537

CEL
Consulting Engineering Bureau & Laboratories
مكتب معامل الإستشارات الهندسية

Company Name	: Egypt Stone company
Project	: Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (4) - Alexandria to Borg Al Arab.
Test Date	: 10/03/2024
report date	: 11/03/2024
Location	: Station 322+490
Test No.	: 001

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



Loading (1)	0	1	2	3	4	5	6
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5879.1	7065
Stress (Kg/cm2)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.23	0.46	0.69	0.90	1.08	1.28

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm2)	2.50	1.25	0.625	0.01
Settlement (mm)	1.28	1.16	1.02	0.67

D (mm) =	600	S1 (mm)=	0.43	S2(mm)=	0.94	ΔS =	0.51
Ev1 (MPa) =	(0.75*D*Δσ)/ΔS		67				

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5879.1
Stress (Kg/cm2)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.67	0.76	0.89	1.00	1.11	1.22

Ev2/Ev1 =	1.9

D (mm) =	600	S1 (mm)=	0.80	S2(mm)=	1.13	ΔS =	0.27
Ev2 (MPa) =	(0.75*D*Δσ)/ΔS		162				

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

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

IAS ACCREDITED Testing Laboratory

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www.cel-egypt.com

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			06-03-2024 ES-M.I.118				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	C5	06	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W322+300) to St. (W322+460) (-0.50).		
MAR Approval No	ES M.A.023	Date	02-03-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	8	06/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		7/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		07/03/2024	A.W.C

* Designer
** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق والكباري (GARB)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.118
Date :	9-Mar-2024
Sample type :	SOIL

Station:	322+300	TO	3222+460
aggregate Source :	EL Sewey – EL Captin		
Location :	-0.50		

MDD gm/cm³	OMC %	Sand Density
2.149	7.11	1.49

STA. & REF. TO CENTER		322+325	322+350	322+375	322+400	322+425	322+450	322+460	
WT.OF WET SOIL	gms	2880	2897	2450	2470	2520	2400	2410	
WT. OF INITIAL SAND+CONE.	gms	10132	10297	9984	10293	10123	10111	10132	
WT. OF RESIDUAL SAND	gms	7067	7177	7217	7522	7287	7297	7372	
WT. OF SAND TO FILL CONE+HOLE	gms	3065	3120	2767	2771	2836	2814	2760	
WT.OF SAND TO FILL CONE	gms	1141	1141	1141	1141	1141	1141	1141	
WT.OF SAND TO FILL HOLE	gms	1924	1979	1626	1630	1695	1673	1619	
GROSS VOL. OF HOLE	cc	1291.3	1328.2	1091.3	1094.0	1137.6	1122.8	1086.6	
CONTAINER No.	#	1	2	3	4	5	6	7	
WEIGHT OF CAN	gms	55.0	64.0	57.0	55.0	56.0	60.0	67.0	
WT. OF CAN+WET SOIL	gms	129.1	128.1	138.2	123.0	134.0	132.0	135.0	
WT. OF CAN+DRY SOIL	gms	119.4	121.6	128.2	113.5	124.4	126.6	128.4	
WT. OF WATER	gms	9.7	6.5	10.0	9.5	9.6	5.5	8.6	
WT. OF WET SOIL	gms	2.2	2.2	2.2	2.3	2.2	2.1	2.2	
WATER CONTENT	%	8.8	5.3	7.8	8.4	7.7	4.3	6.8	
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1	2.1	2.1	2.1	2.0	2.1	
COMPACTION	%	95.7	96.3	96.9	97.0	95.7	95.3	96.6	
REMARKS		accepted	accepted	accepted	accepted	accepted	accepted	accepted	

مهندس الاستشارى

مهندس الموارد (الشركة)

EGYPT STONE
قطاع المقاولات

KK المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			06-03-2024 ES-M.I.119				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W323	EW	CS	06	03	2024	04	00

CODE-1	S1 to S21 Station Reference	D1 to S5 Depot Reference	Kp XXX Note For Kilometer point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W323+340) to St. (W323+450) (-2.50).		
MAR Approval No	ES M.A.023	Date	02-03-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	3	06/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		7/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		07-03-2024	A-W.C

* Designer
** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق و الكباري (GARB)

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.L119	Station:	323+340	TO	323+450
Date :	9-Mar-2024	aggregate Source :	EL Sewey – EL Captin		
Sample type :	SOIL	Location :	-2.50		

MDD gm/cm³	OMC %	Sand Density
2.149	7.11	1.49

STA. & REF. TO CENTER		323+365	323+390	323+415	323+440	323+450			
WT.OF WET SOIL	gms	2842	2890	2413	2423	2473			
WT. OF INITIAL SAND+CONE,	gms	10133	10297	9984	10293	10123			
WT. OF RESIDUAL SAND	gms	7109	7219	7239	7564	7329			
WT. OF SAND TO FILL CONE+HOLE	gms	3023	3078	2726	2729	2794			
WT.OF SAND TO FILL CONE	gms	1141	1141	1141	1141	1141			
WT.OF SAND TO FILL HOLE	gms	1882	1937	1584	1588	1653			
GROSS VOL. OF HOLE	ccs	1293.1	1300.0	1063.1	1065.8	1109.4			
CONTAINER No.	#	1	2	3	4	5			
WEIGHT OF CAN	gms	55.0	64.0	57.0	56.0	56.0			
WT. OF CAN+WET SOIL	gms	119.9	128.1	138.2	123.0	134.0			
WT. OF CAN+DRY SOIL	gms	109.6	120.8	127.4	112.7	123.6			
WT. OF WATER	gms	10.3	7.3	10.8	10.3	10.4			
WT. OF WET SOIL	gms	2.3	2.2	2.3	2.3	2.2			
WATER CONTENT	%	9.4	6.1	8.5	9.2	8.4			
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1	2.1	2.1	2.1			
COMPACTION	%	95.7	96.2	97.3	96.9	95.6			
REMARKS		accepted	accepted	accepted	accepted	accepted			

مهندس الاستشاري
KK المكتب الاستشاري الهندسي
(أ.د/ خالد قنديل)
مدير المشروع/ إبراهيم محمد صبري
مشروع القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (الشركة)
EGYPT STONE
قطاع المقاولات

MATERIAL INSPECTION REQUEST

Contractor Company	EGYPT STONE FOR MINING AND SUPLIES			Designer Company				(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign		Date/ Serial Number				Time	
	Eng. Abdelfattah Elshennawy			07-03-2024 ES-M.I.120				04:00 PM	
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W323	EW	CS	07	03	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)		
Location to be Used	From St. (W323+040) to St. (W323+240) (-1.75).		
MAR Approval No	ES M.A.024	Date	04-03-2024
Supplier Name	EL Sewey – EL Captin		
Test Requirement	F.D.T(ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	4	07/03/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام SAND CONE . 2. تم تحقيق نسبة الدمك المطلوبة.	1-F.D.T was carried- out . Attendances of material engineer for both contractor and GARB Consultant. 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. Abdelfattah Elshennawy			
QA/QC *	Eng. Hesham Sabry		9/3/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim	09-03-2024		A-W.C

* Designer

** Alignment / Bridges: Culvert Only

EGYPT STONE

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة العامة للطرق والكباري (GARB)

SYSTRA SHAKER

Section - 4 From Wadi El NnatrounTo Borg Elarab
"From Station 322+100 to station 323+450

Density of Soil In-Place By the Sand-Cone Method(ASTM D1556)

Request No. :	ES M.I.120
Date :	9-Mar-2024
Sample type :	SOIL

Station:	323+040	TO	323+240
aggregate Source :	EL Sewey – EL Captin		
Location :	-1.75		

MDD gm/cm³	OMC %	Sand Density
2.141	7.84	1.48

STA. & REF. TO CENTER		323+090	323+140	323+190	323+240				
WT.OF WET SOIL	gms	2869	2877	2430	2460				
WT. OF INTIAL SAND+CONE	gms	10132	10297	9984	10293				
WT. OF RESIDUAL SAND	gms	7098	7208	7248	7553				
WT. OF SAND TO FILL CONE+HOLE	gms	3034	3089	2736	2740				
WT.OF SAND TO FILL CONE	gms	1141	1141	1141	1141				
WT.OF SAND TO FILL HOLE	gms	1893	1948	1595	1599				
GROSS VOL. OF HOLE	ccs	1270.5	1307.4	1070.6	1073.2				
CONTAINER No.	#	1	2	3	4				
WEIGHT OF CAN	gms	65.0	64.0	67.0	55.0				
WT. OF CAN+WET SOIL	gms	190.3	128.1	138.2	123.0				
WT. OF CAN+DRY SOIL	gms	110.5	121.7	128.3	113.6				
WT. OF WATER	gms	9.8	6.4	9.9	9.4				
WT. OF WET SOIL	gms	2.3	2.2	2.3	2.3				
WATER CONTENT	%	6.8	5.2	7.7	6.2				
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1	2.1	2.1				
COMPACTION	%	96.9	97.7	96.5	98.5				
REMARKS		accepted	accepted	accepted	accepted				

مهندس الاستشارى

KK المكتب الاستشاري الهندسي
أ.د. خالد قنديل
مدير المشروع م. هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

مهندس المواد (الشركة)

EGYPT STONE
قطاع المقاولات