

مهندس الشركة
م / عبد الفتاح الشماوي
عبد الفتاح الشماوي

قائمة الكميات الواردة بالمستخلص جاري (3)

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 للتعيين والتوريدات"

عقد رقم (1123/2023/2024)

مقدار العمل السابق :		3م	32,464.80
مسلسل	الموقع الكيلومتری		الكمية (م3)
	من الكم	إلى الكم	
1	322+480	322+920	3,024.00
	اجمالي الكمية الهندسي (3م)		3,024.00
	الاجمالي خلال مدة المستخلص (3م)		3,024.00
	الإجمالي الكلي (3م)		35,488.80

مهندس الهيئة
م / أحمد جلال عبد السلام
أحمد جلال

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

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

مهندس الاستشاري

مكتب XYZ
م / محمد خليل
م / محمد خليل
القطاع السريع - ضرب النيل

مهندس الشركة
م / عبدالفتاح الشناوي
عبدالفتاح الشناوي

EGYPT
STON
القطاع المقاولات

قائمة الكميات الواردة بالمستخلص جاري (3)

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 الكارثة والموازن طبقاً للوائح الشركة الوطنية.

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

تنفيذ: "شركة إيجيبت ستون للتعبدين والتوريدات"

عقد رقم (1123/2023/2024)

مقدار العمل السابق :		40,581.00	3م
مسلسل	الموقع الكيلومتری		الكمية (م3)
	من الكم	إلى الكم	الطول (متر)
1	322+480	322+920	440
	إجمالي الكمية الهندسي (م3)		3,780.00
	الإجمالي خلال مدة المستخلص (م3)		3,780.00
	الإجمالي الكلي (م3)		44,361.00

مهندس الاستشاري

مكتب أ.د/ خالد قنديل

م / هشام محمد صبري

مهندس الاستشاري

مكتب X72

م / محمد خليل

م / طارق السريه
م / غريب النيل

مهندس الشركة

م / عبدالفتاح الشناوي

م / عبد الفتاح المشايخ

قطاع المقاولات
EGYPT
STON

مهندس الهيئة

م / أحمد جلال عبد السلام

أحمد جلال

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

محضر مسافة نقل

التاريخ: ٢٠٢٤ / ٢ / ٢٠

اسم المشروع: القطار الكهربائي السريع القطاع الرابع (الاسكندرية)
قام استشاري الهيئة العامة للطرق والكباري بقياس مسافة النقل من المحجر الى الموقع والعكس
شركة: "إيجيبت ستون للتعمدين والتوريدات"
وبحضور كلا من:-

مدير المشروع (الشركة المنفذة)
استشاري المشروع (أ.د/ خالد قنديل)
الاستشاري العام (سيسترا)

1- م/ عبدالفتاح الشناوي
2- م/ هشام محمد صبري
3- م/ كريم بدوي

وكانت الإحداثيات 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
(المالك)
م/ أحمد جلال

الاستشاري العام (سيسترا)
م/ كريم بدوي

٢٠٢٤

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

مدير المشروع
(المقاول)
م/ عبدالفتاح الشناوي
عبد الفتاح الشناوي

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

قطاع المقاولات
EGYPT
STONE
THE POWER OF CONSTRUCTION

محضر مسافة نقل

التاريخ: ١١ / ٩ / 2024

اسم المشروع: القطار الكهربى السريع القطاع الرابع (الاسكندرية)
قام استشاري الهيئة العامة للطرق والكبارى بقياس مسافة النقل من المحجر الى الموقع والعكس
شركة: "إيجيبت ستون للتعيين والتوريدات"
وبحضور كلا من:-

مدير المشروع (الشركة المنفذة)
استشاري المشروع (أ.د. خالد قنديل)
الاستشاري العام (سيسترا)

1- م/ عبدالفتاح الشناوي
2- م/ هشام محمد صبرى
3- م/ كريم بدوي

وكانت الإحداثيات كالتالى:-

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

ملاحظات:-

فى حالة تغيير المصدر يتم قياس واعتماد مسافة النقل الجديدة

مدير المشروع
(المالك)
م/ أحمد جلال

الاستشاري العام
(سيسترا)
م/ كريم بدوي

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

مدير المشروع
(المقاول)
م/ عبدالفتاح الشناوي

المكتب الاستشاري الهندسي
(أ.د. خالد قنديل)
مدير المشروع: م/ هشام محمد صبرى
مشروع: القطار الكهربى السريع
القطاع الرابع (الاسكندرية)

قطاع المقاولات
EGYPT
STONE
FOR SURVEY & PROJECTS

MATERIAL INSPECTION REQUEST



الهيئة العامة
للتنظيم والقياس
(GARB)



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES		Designer Company	(KK) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/ Serial Number	Time						
	Eng. Abdelfattah Elshennawy		24-01-2024 ES-M.I.088	04:00 PM						
Received by ER	Eng. Gaber Ibrahim	MIR	C1	C2	C3	DD	MM	YY	HH	MM
			W322	EW	C5	24	01	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+660) to St. (W322+700) (-2.5).				
MAR Approval No	ES M.A.019	Date	21-01-2024		
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	1	24/01/2024	
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		25/1/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		25-01-2024	A.W.C

* Designer

** Alignment / Bridges: Culvert Only

Section - 4 From Wadi El Nnatroun To 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.088	Station:	322+660 TO 322+700
Date :	25-Jan-2024	Aggregate Source :	EL Sewey - EL Captin
Sample type :	SOIL	LAYER:	-2.5

MDD gm/cm ³	OMC %	Sand Density
2.158	7.60	1.45

TA. & REF. TO CENTER		322+680							
WT. OF WET SOIL	gms	2684.0							
WT. OF INITIAL SAND+CONC.	gms	2203.0							
WT. OF RESIDUAL SAND	gms	7052.0							
WT. OF SAND TO FILL CONE+HOLE	gms	2853.0							
WT. OF SAND TO FILL CONE	gms	1141.0							
WT. OF SAND TO FILL HOLE	gms	1712.0							
ROSS VOL. OF HOLE	cc	1180.7							
CONTAINER No.	n	5							
HEIGHT OF CAN	gms	48.0							
WT. OF CAN+WET SOIL	gms	142.8							
WT. OF CAN+DRY SOIL	gms	133.1							
WT. OF WATER	gms	9.7							
WT. OF WET SOIL	gms	2.3							
WATER CONTENT	%	7.31							
DRY UNIT WT. OF SOIL	gm/cc	2.12							
COMPACTION	%	98.2							
REMARKS		accepted							

مهندس المواد (الشركة)

المكتب الاستشاري الهندسي
KK (أ.د. خالد قنديل)
مدير المشروع: هشام محمد صبري
مشروع: الطريق الكوينا في السراخ
القطاع الرابع (الإيجيكتورة)

EGYPT STONE
FOR SUPPLY & SUPPLIES
قطاع المقاولات

MATERIAL INSPECTION REQUEST



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES		Designer Company	(KK) Engineering Consulting Office																	
Issued by Contractor	Name	Sign	Date/ Serial Number	Time																	
	Eng. Abdelfattah Elshennawy		24-01-2024 ES-M.I.089	04:00 PM																	
Received by ER	Eng. Gaber Ibrahim	MIR	<table border="1"> <tr> <td>CL</td> <td>CL</td> <td>CL</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>W323</td> <td>EW</td> <td>CS</td> <td>24</td> <td>01</td> <td>2024</td> <td>04</td> <td>00</td> </tr> </table>	CL	CL	CL	DD	MM	YY	HH	MM	W323	EW	CS	24	01	2024	04	00		
CL	CL	CL	DD	MM	YY	HH	MM														
W323	EW	CS	24	01	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+360) (-4.5).				
MAR Approval No	ES M.A.019	Date	21-01-2024		
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	1	24/01/2024	
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 GARBI 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		25/1/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		25-01-2024	A.W.C

* Designer

** Alignment / Bridges: Culvert Only

Section - 4 From Wadi El Nnatroun To 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.089	Station:	323+340 TO 323+360
Date :	25-Jan-2024	Aggregate Source :	EL Sewey - EL Caplin
Sample type :	SOIL	LAYER:	-4.5

MDD gm/cm ³	OMC %	Sand Density
2.138	7.80	1.45

TA. & REF. TO CENTER	323+350								
WT. OF WET SOIL	gms	2674.0							
WT. OF INITIAL SAND+CONC.	gms	9912.0							
WT. OF RESIDUAL SAND	gms	7052.0							
WT. OF SAND TO FILL CONE+HOLE	gms	2360.0							
WT. OF SAND TO FILL CONE	gms	1141.0							
WT. OF SAND TO FILL HOLE	gms	1719.0							
ROSS VOL. OF HOLE	cc	1185.5							
CONTAINER No.	n	5							
WEIGHT OF CAN	gms	40.0							
WT. OF CAN+WET SOIL	gms	142.8							
WT. OF CAN+DRY SOIL	gms	133.1							
WT. OF WATER	gms	9.7							
WT. OF WET SOIL	gms	2.3							
WATER CONTENT	%	7.31							
DRY UNIT WT. OF SOIL	gm/cc	2.10							
COMPACTION	%	97.4							
REMARKS		accepted							

مهندس المواد (الشركة)

المكتب الاستشاري الهندسي
KK (أ.د. خالد قنديل)
مدير المشروع: م/ هشام محمد مبري
مشروع: القطار الكهربائي الميناء
اكتوبر - الإسكندرية

EGYPT
STONE
مهندس و مقياس
قطاع المقاولات

MATERIAL INSPECTION REQUEST



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES			Designer Company	(KK) Engineering Consulting Office																		
Issued by Contractor	Name	Sign	Date/ Serial Number	Time																			
	Eng. Abdelfattah Elshennawy		28-01-2024 ES-M.I.090	04:00 PM																			
Received by ER	Eng. Gaber Ibrahim	MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>W323</td> <td>EW</td> <td>CS</td> <td>28</td> <td>01</td> <td>2024</td> <td>04</td> <td>00</td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	W323	EW	CS	28	01	2024	04	00				
C1	C2	C3	DD	MM	YY	HH	MM																
W323	EW	CS	28	01	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) (-4).					
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	28/01/2024		
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		29/1/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		29-01-2024	A.N.C

* Designer

** Alignment / Bridges: Culvert Only

Section - 4 From Wadi El Nnatroun To 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.090	Station:	323+340 TO 323+450
Date :	29-Jan-2024	Aggregate Source :	EL Sewey - EL Captin
Sample type :	SOIL	LAYER:	-4

MDD gm/cm ³	OMC %	Sand Density
2.155	7.70	1.45

STA. & REF. TO CENTER	323+360	323+390	323+430					
WT. OF WET SOIL	gms	2874.0	2842.0	2670.0				
WT. OF INITIAL SAND+CONC.	gms	10123.0	9970.0	9895.0				
WT. OF RESIDUAL SAND	gms	7152.0	7176.0	7186.0				
WT. OF SAND TO FILL CONE+HOLE	gms	2971.0	2794.0	2729.0				
WT. OF SAND TO FILL CONE	gms	1141.0	1141.0	1141.0				
WT. OF SAND TO FILL HOLE	gms	1830.0	1653.0	1588.0				
GROSS VOL. OF HOLE	ccs	1262.1	1140.0	1095.2				
CONTAINER NO.	n	1	2	3				
WEIGHT OF CAN	gms	43.0	45.0	41.0				
WT. OF CAN+WET SOIL	gms	141.7	133.2	143.0				
WT. OF CAN+DRY SOIL	gms	130.0	122.0	132.4				
WT. OF WATER	gms	11.7	10.2	10.6				
WT. OF WET SOIL	gms	2.3	2.2	2.3				
WATER CONTENT	%	9.00	8.36	8.0				
DRY UNIT WT. OF SOIL	gm/cc	2.09	2.06	2.09				
COMPACTION	%	96.9	96.5	96.5				
REMARKS		accepted	accepted	accepted				

مهندس الاستشاري

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

مهندسين المصروفات
EGYPT
STONE
Export - Import - Suppliers
قطاع المقاولات

MATERIAL INSPECTION REQUEST



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES		Designer Company	(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign	Date/ Serial Number	Time	
	Eng. Abdelfattah Elshennawy		08-02-2024 ES-M.I.091	04:00 PM	
Received by ER	Eng. Gaber Ibrahim	MIR	W322	EW	CS
			DD	MM	YY
			08	02	2024
			HH	MM	
			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+660) to St. (W322+700) (-2.0).				
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	1	08/02/2024	
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		10/2/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer

** Alignment / Bridges: Culvert Only

10-02-2024

Section - 4 From Wadi El Nnatroun To 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.091	Station:	322+600 TO 322+700
Date :	10-Feb-2024	Aggregate Source :	EL Sewey - EL Captin
Sample type :	SOIL	LAYER:	-2

MDD gm/cm ³	OMC %	Sand Density
2.155	7.70	1.49

STA. & REF. TO CENTER	322+680								
WT. OF WET SOIL	gms	2070.0							
WT. OF INITIAL SAND+CONE	gms	9850.0							
WT. OF RESIDUAL SAND	gms	7052.0							
WT. OF SAND TO FILL CONE+HOLE	gms	2838.0							
WT. OF SAND TO FILL CONE	gms	1141.6							
WT. OF SAND TO FILL HOLE	gms	1697.0							
GROSS VOL. OF HOLE	ccs	1170.3							
CONTAINER No.	n	5							
WEIGHT OF CAN	gms	40.0							
WT. OF CAN+WET SOIL	gms	142.5							
WT. OF CAN+DRY SOIL	gms	133.1							
WT. OF WATER	gms	9.7							
WT. OF WET SOIL	gms	2.3							
WATER CONTENT	%	7.31							
DRY UNIT WT. OF SOIL	gn/cc	2.09							
COMPACTION	%	97.2							
REMARKS		accepted							

مهندس المواد (الشركة)

مهندس الاستشاري
المكتب الاستشاري الهندسي
أ.م. خالد عبد الله
مدير المشروع: م. هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

EGYPT
STONE
FOR MAIN & SUPPLIER
قطاع المقاولات

MATERIAL INSPECTION REQUEST



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES			Designer Company			(KK) Engineering Consulting Office				
Issued by Contractor	Name	Sign		Date/ Serial Number			Time				
	Eng. Abdelfattah Elshennawy			12-02-2024 ES-M.I.092			04:00 PM				
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				W322	EW	CS	12	02	2024	04	00

CODE-1	S1 to S21 Station Reference	D1 to S8 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+660) to St. (W322+700) (-1.75).		
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	1	12/02/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)

- 1- SAND CONE تم استلام
- 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		13/2/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer

** Alignment / Bridges: Culvert Only

13-02-2024

Section - 4 From Wadi El Nnatroun To 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.092	Station:	322+660 TO 322+700
Date :	13-Feb-2024	Aggregate Source :	EL Sewey - EL Captin
Sample type :	SOIL	LAYER:	-1.75

MDD gm/cm ³	OMC %	Sand Density
2.155	7.70	1.45

TA. & REF. TO CENTER	322+680								
WT. OF WET SOIL	gms	2634.0							
WT. OF INITIAL SAND+CONC.	gms	9839.0							
WT. OF RESIDUAL SAND	gms	7052.0							
WT. OF SAND TO FILL CONE+HOLE	gms	2837.0							
WT. OF SAND TO FILL CONE	gms	1141.0							
WT. OF SAND TO FILL HOLE	gms	1696.0							
ROSS VOL. OF HOLE	ccs	1169.7							
CONTAINER No.	n	5							
WEIGHT OF CAN	gms	40.0							
WT. OF CAN+WET SOIL	gms	142.1							
WT. OF CAN+DRY SOIL	gms	133.1							
WT. OF WATER	gms	9.7							
WT. OF WET SOIL	gms	2.3							
WATER CONTENT	%	7.31							
DRY UNIT WT. OF SOIL	gm/cc	2.10							
COMPACTION	%	97.4							
REMARKS		accepted							

مهندس المواد (الشرقة)

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

EGYPT
STONE
FOR RAIL & BRIDGES
قطاع المقاولات

MATERIAL INSPECTION REQUEST



الهيئة العامة
للطرق والجسور
(GARF)



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES		Designer Company	(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign	Date/ Serial Number	Time	
	Eng. Abdelfattah Elshennawy		12-02-2024 ES-M.1.093	10:00 AM	
Received by ER	Eng. Gaber Ibrahim	MIR	IT	C2	C3
			DD	MM	YY
			W 322	EW	CS
			12	02	2024
			10	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	EXCAVATION BASE LAYER.				
Location to be Used	From St. (W322+480) to St. (W322+520) EXCAVATION LAYER.				
MAR Approval No		Date	06-11-2023		
Supplier Name					
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	12/02/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)

- تم استلام SAND CONE
- تم تحقيق نسبة الدمك المطلوبة .

Comments by: Eng. Gaber Ibrahim

- 1-F.D.T was carried-out by company Lab. Attendances of material engineer for both contractor and GARF 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		13/2/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer

** Alignment / Bridges: Culvert Only

13-02-2024



Section - 4 From Wadi El Nnatroun To Borg Elarab

From Station 322+100 To Station 323+450

Sieve Analysis of Fine and Coarse Aggregates (ASHTO T-27)

Req. No.	2
Date :	06/11/2023
Station :	(322+580)

Sample type : bed excavation

Classification	A-2-4
----------------	-------

Sieve size	Retained	retainted culmative	Passing	Passing %	
2"	0	0	5000	100.0	
1.5"	0	0	5000	100.0	
1"	0	0	5000	100.0	
3/4"	300	300	4700	94.0	
1/2"	450	750	4250	85.0	
3/8"	460	1210	3790	75.8	
NO. 4	930	2140	2860	57.2	
Passing					
Total	5000				

500 gm					
NO.10	30	30	470	53.8	
NO.40	32	62	438	50.1	
NO.200	308	370	130	14.9	

المهندس الاستشاري

ع. السويدي

Section - 4 From Wadi El Neatroun to Berg Elwan
Truck Station 322+100 to Station 324+450

ATTERBERG LIMITS (ASTM D4318)

Req. No.	2
Date :	06/11/2023
Station :	(322+580)

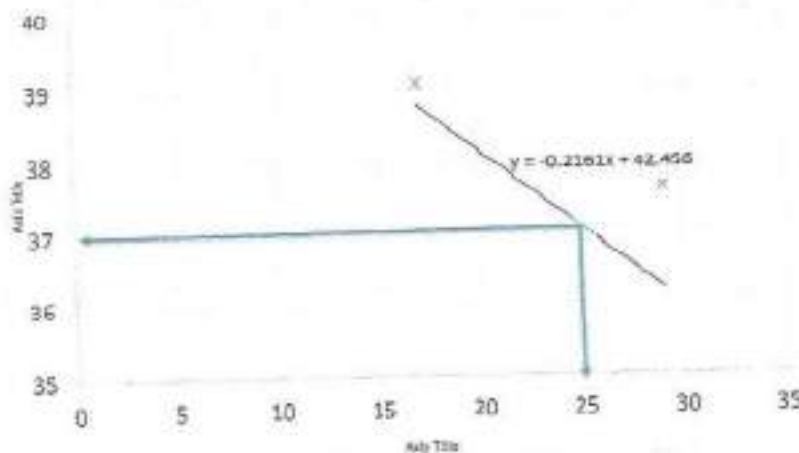
Sample type : bed excavation

LIQUID LIMIT

Container No	5	4	3
Number of Blows	29	27	17
Mass of Wet Soil + Can	72.70	71.20	61.80
Mass of Dry Soil + Can	60.40	59.40	52.08
Mass of Water	12.30	11.80	9.72
Mass of Can	27.70	25.60	27.20
Mass of Dry Soil	32.7	33.8	24.9
Moisture Content	37.61	34.91	39.07

PLASTIC LIMIT

Container No	2	5
Mass of Wet Soil + Can	47.90	48.10
Mass of Dry Soil + Can	43.1	43.60
Mass of Water	4.80	4.50
Mass of Can	25.30	27.70
Mass of Dry Soil	17.8	15.9
Moisture Content	26.97	28.30



RESULTS

PASSING No. 10	53.8
PASSING No. 40	50.1
PASSING No. 200	14.9
LIQUID LIMIT	37.05
PLASTIC LIMIT	27.63
PLASTICITY INDEX	0.42

المهندس الاستشاري
ع. ه. ه. ه.

مهندس المور (الترعة)
EGYPT
STONE
FOR BUILDING & SUPPLY
قطاع المقاولات

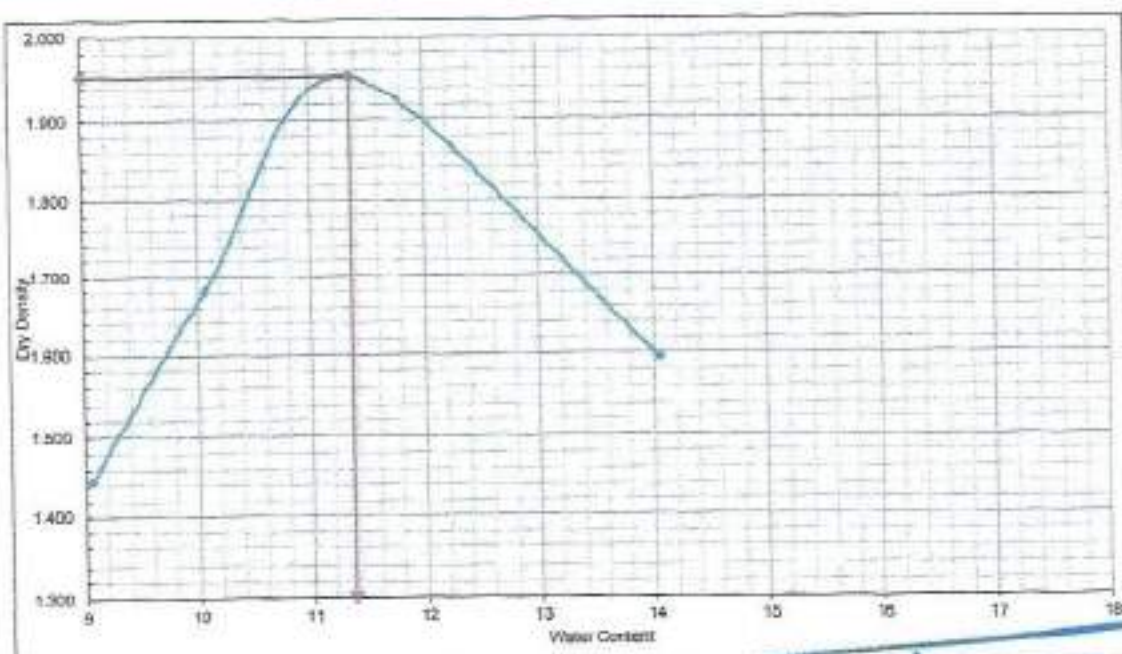
Section - A From Wadi El Nnafrout To Borg Elarab
From Station 322+100 To Station 323+450

The Moisture - Density Relations of Soils using (ASTM D1557)

Req. No.	2
Date :	06/11/2023
Station :	(322+580)

Sample type : bed excavation

	1	2	3	4	
Mold + Wet Sample Weight	9120	9564	10230	9732	
Mold Weight	5700	5641	5620	5875	
Wet Sample Weight	3340	3923	4610	3857	
Mold Volume	2120	2120	2120	2120	
Wet Density	1.58	1.85	2.17	1.82	
Container NO.	2	1	5	4	
Mass of Can	25.3	25.3	27.7	25.6	
Wet soil Weight + Mass of Can	193	139	162	196	
Dry soil Weight + Mass of Can	142.4	128.8	148.3	148.7	
Dry soil Weight	117.1	103.3	120.6	123.1	
Water Weight	10.6	10.4	13.7	17.3	
Percentage of Moisture	9.05	10.07	11.36	14.06	
Dry Density	1.445	1.681	1.953	1.595	



Max Dry Density	1.953
Optimum Water Content	11.36%

المهندس الاستشاري
عالم
عالم

EGYPT
STONE
مهندسين
للشؤون والبناء
قطاع المواصلات

MATERIAL INSPECTION REQUEST



الشرق والشرق
EGARB



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES		Designer Company	(KK) Engineering Consulting Office																	
Issued by Contractor	Name	Sign	Date/ Serial Number	Time																	
	Eng. Abdelfattah El-Shennawy		14-02-2024 ES-M.I.094	04:00 PM																	
Received by ER	Eng. Gaber Ibrahim	MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>W322</td> <td>EW</td> <td>CS</td> <td>14</td> <td>02</td> <td>2024</td> <td>04</td> <td>00</td> </tr> </table>			C1	C2	C3	DD	MM	YY	HH	MM	W322	EW	CS	14	02	2024	04	00
C1	C2	C3	DD	MM	YY	HH	MM														
W322	EW	CS	14	02	2024	04	00														

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

Description of Materials	EXCAVATION BASE LAYER.				
Location to be Used	From St. (W322+480) to St. (W322+520).				
MAR Approval No		Date	06-11-2023		
Supplier Name					
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	14/02/2024	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)

- تم إجراء اختبار P.L.T بواسطة معمل سيل.
- 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		20/2/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		20-02-2024	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 El 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+480 to 322+520)
Test Date : 14/02/2024
Report Date : 20/02/2024
Type of soil : A-2-4
Test level : Native soil .
Report No. : 07

Dear Gentleman,

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

Apparatus

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

Test Procedure

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

Report

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

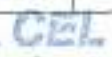
Report

Job Requirement : $E_{v2} > (30 \text{ MPa})$

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Partly Sunny
- Plate Diameter (mm)	600
- date of measurement	14/02/2024
- 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+500	137	203	1.5


 مكتب معامل الاستشارات الهندسية
 Signature / *K. Hala*
 رقم الترخيص المهنى : 219 - 901 - 537
 القاهرة - الجيزة - الزمالة



Consulting Engineering Bureau & Laboratories

مكتب محامل الاستشارات الهندسية

Company Name : Egypt Stone company
Project : Electric Express Train, Al Ain Sekhna to Marsa Matruh Priority Sector (4) - Alexandria to Berg Al Arab.
Test Date : 14/02/2024
report date : 20/02/2024
Location : Station 322+500
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	19.57	0.33	19.58	0.42	19.46	0.54	0.43
2	0.83	19.51	0.49	19.43	0.57	19.31	0.69	0.58
3	1.25	19.35	0.65	19.28	0.72	19.19	0.81	0.73
4	1.67	19.23	0.77	19.15	0.85	19.08	0.92	0.85
5	2.08	19.10	0.90	19.03	0.98	18.91	1.08	0.99
6	2.50	18.08	0.97	18.93	1.07	18.84	1.16	1.07

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.03	0.97	18.93	1.07	18.84	1.16	1.07
2	1.25	19.17	0.83	19.05	0.95	18.95	1.05	0.94
3	0.825	19.38	0.62	19.16	0.84	19.07	0.93	0.80
4	0.41	19.51	0.49	19.33	0.67	19.15	0.85	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	19.38	0.62	19.21	0.79	19.04	0.96	0.70
1	0.83	19.24	0.76	19.09	0.91	18.95	1.05	0.81
2	1.25	19.12	0.88	19.00	1.00	18.86	1.14	1.01
3	1.67	19.03	0.97	18.91	1.08	18.80	1.20	1.09
4	2.08	18.94	1.06	18.86	1.14	18.72	1.28	1.16



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



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



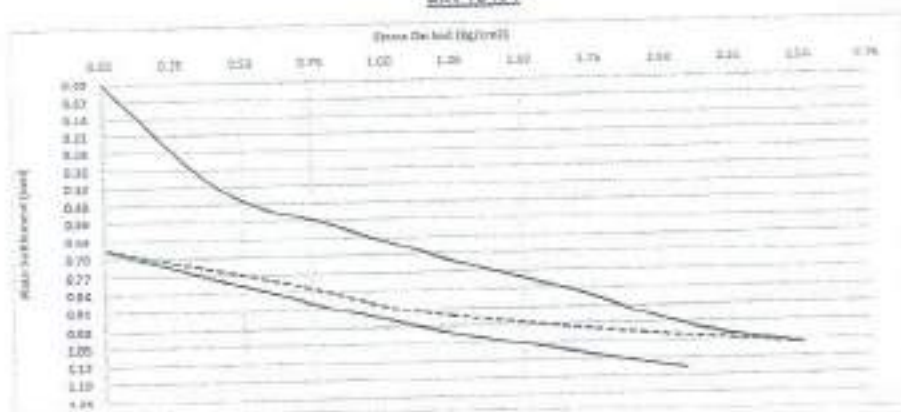
Consulting Engineering Bureau & Laboratories

مكتب معامل الاستشارات الهندسية

Company Name
Project
Test Date
Report Date
Location
Test No.

Egypt Stone Company
Electric Express Train, Al Ain Sokhna to Marsa Matruh Priority Sector (4) - Alessandria to Borg El Arab
14/02/2024
20/02/2024
Station 322+600
001

Nonrepetitive Static Plate Load Tests of Soils
DIN 18194



Loading (t)	0	1	2	3	4	5	6
Stage (Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1	7065
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.43	0.58	0.73	0.85	0.99	1.07

D (mm) =	600	S1 (mm) =	0.55	S2 (mm) =	0.87	ΔS =	0.32
Ev1 (MPa) =	$(0.75 \cdot D^2) / (S1 \cdot 100)$						

Loading (t)	0	1	2	3	4	5
Stage (Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm²)	0.00	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.67	0.79	0.91	1.01	1.09	1.16

D (mm) =	600	S1 (mm) =	0.55	S2 (mm) =	1.15	ΔS =	0.22
Ev2 (MPa) =	$(0.75 \cdot D^2) / (S1 \cdot 100)$						

Unloading (t)	1	2	3	4
Stage (Kg)	7065	3533	1768	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	1.07	0.94	0.80	0.67

Ev2/Ev1 =	1.2
-----------	-----

Ev1 = Modulus of deformation during the loading stage.
Ev2 = Modulus of deformation during the reloading stage.
D = Plate diameter (mm)
S1 = Tip difference between 0.5 and 0.7 from the maximum loading (mm)
S2 = Difference in settlements corresponding to 0.5 and 0.7 from the maximum loading (mm)



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



3 شارع الملك الأفضل
الزمالك - القاهرة
تليفون - فاكس : 27367231 - 27363093
www.cel-egypt.com

MATERIAL INSPECTION REQUEST



الهيئة العامة
للتنظيم والإدارة
(GARB)



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES		Designer Company	(KK) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/ Serial Number	Time						
	Eng. Abdelfattah Elshennawy		13-02-2024 ES-M.I.095	04:00 PM						
Received by ER	Eng. Gaber Ibrahim	MIR	C1	C2	C3	DD	MM	YY	HH	MM
			W322	EW	CS	13	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+660) to St. (W322+700) (-1.5).				
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	13/02/2024	
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		14/2/2024	
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		14-02-2024	A.W.C

* Designer

** Alignment / Bridges: Culvert Only

مهندس العواد (الشركة)
EGYPT
STONE
100 JUNIOR & SUPPLIES
قطاع المقاولات

MATERIAL INSPECTION REQUEST



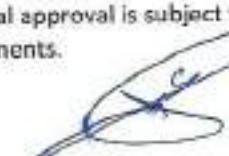
ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
إ.د. غابر إبراهيم

الهيئة العامة
للتنظيم والتخطيط
(GARF)



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES		Designer Company	(KK) Engineering Consulting Office				
Issued by Contractor	Name	Sign	Date/ Serial Number		Time			
	Eng. Abdelfattah El-Shennawy		14-02-2024 ES-M.I.096		04:00 PM			
Received by ER	Eng. Gaber Ibrahim	MIR	C1	C2	C3	DO	MM	YY
			W322	EW	CS	14	02	2024
							HH	MM
							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+660) to St. (W322+700) (-1.5) .			
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	Plate load test	NUMBER	1	14/02/2024	
2					
3					
4					
Comments by: Eng. Hesham Sabry (kk)			Comments by: Eng. Gaber Ibrahim		
1- تم اجراء اختبار 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 GARF 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		15/2/2024	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		15-02-2024	A.N.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 El 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+660 to 322+700)

Test Date : 14/02/2024

Report Date : 15/02/2024

Type of soil : A-1-b

Test level : (-1.5m) .

Report No. : 06

Dear Gentleman,

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

Apparatus

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

Test Procedure

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



Report

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

Report

Job Requirement : $E_{v2} > (40 \text{ MPa})$

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Partly Sunny
- Plate Diameter (mm)	600
- date of measurement	14/02/2024
- 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+680	74	152	2.1



Company Name : Egypt Stone company
Project : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (4) - Alexandria to Borg El Arab.
Test Date : 14/02/2024
report date : 15/02/2024
Location : Station 322+680
Test No. : 001

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.80	0.20	19.68	0.32	19.89	0.11	0.21
2	0.83	19.57	0.43	19.48	0.52	19.73	0.27	0.41
3	1.25	19.23	0.77	19.18	0.82	19.56	0.44	0.68
4	1.67	18.94	1.06	18.91	1.09	19.40	0.60	0.92
5	2.08	18.63	1.37	18.64	1.36	19.26	0.74	1.16
6	2.50	18.27	1.73	18.35	1.65	19.10	0.90	1.43

Unloading Stage (1)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	18.27	1.73	18.35	1.65	19.10	0.90	1.43
2	1.25	18.33	1.67	18.48	1.52	19.14	0.86	1.36
3	0.825	18.52	1.48	18.70	1.30	19.25	0.75	1.18
4	0.01	18.95	1.05	19.23	0.77	19.49	0.51	0.78

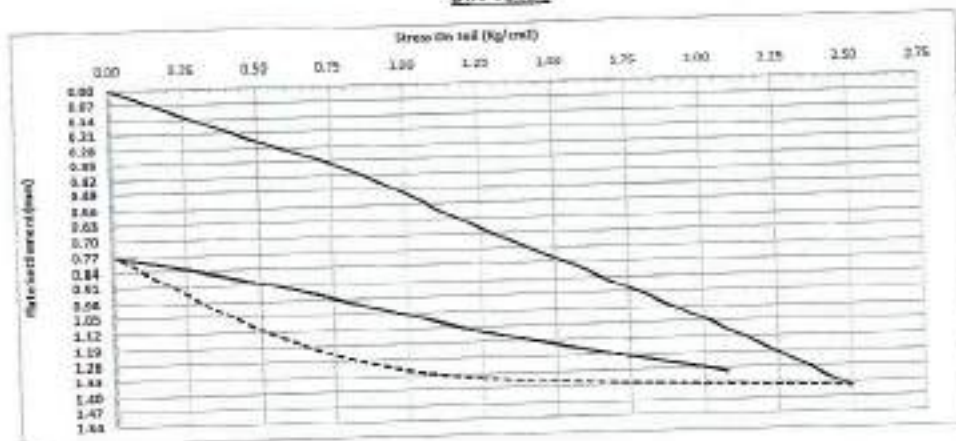
Loading Stage (2)

Loading	Stress Kg/cm ²	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	18.86	1.14	19.06	0.94	19.45	0.55	0.88
1	0.83	18.71	1.29	18.88	1.12	19.40	0.60	1.00
2	1.25	18.53	1.47	18.72	1.28	19.32	0.68	1.14
3	1.67	18.40	1.60	18.58	1.42	19.27	0.73	1.25
4	2.08	18.29	1.71	18.47	1.53	19.20	0.80	1.35



Company Name : Egypt Stone company
 Project : Electric Express Train, Al Ain Sokhna to Marsa Matruh Priority Sector (4) - Alexandria to Borg El Arab.
 Test Date : 14/02/2024
 report date : 15/02/2024
 Location : Station 322+688
 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	7066
Stress (Kg/cm2)	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.21	0.41	0.68	0.92	1.16	1.43

UnLoading (1)	1	2	3	4
Stage(Kg)	7066	3533	1768	0
Stress (Kg/cm2)	2.50	1.25	0.625	0.01
Settlement (mm)	1.43	1.35	1.18	0.78

D (mm) =	600	S1 (mm) =	0.37	S2 (mm) =	0.98	ΔS =	0.60
Ev1 (MPa) =	(0.75*Q*Δs)/ΔS		74				

$$Ev2/Ev1 = 2.1$$

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm2)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.78	0.88	1.00	1.14	1.25	1.35

D (mm) =	600	S1 (mm) =	0.46	S2 (mm) =	1.27	ΔS =	0.29
Ev2 (MPa) =	(0.75*Q*Δs)/ΔS		132				

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



MATERIAL INSPECTION REQUEST



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES		Designer Company	(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign	Date/ Serial Number	Time	
	Eng. Abdelfattah Elshennawy		21-02-2024 ES-M.I.097	04:00 PM	
Received by ER	Eng. Gaber Ibrahim	MIR	C1	C2	C3
			DD	MM	YY
			HH	MM	

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) (-3.5).				
MAR Approval No	ES M.A.021	Date	12-02-2024		
Supplier Name	EL Saway - 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	21/02/2024	
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 GARBI 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		22/2/2024	
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer

** Alignment / Bridges: Culvert Only

22-02-2024



MATERIAL INSPECTION REQUEST



الهيئة العامة
للتنظيم والإدارة
(GARB)



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES		Designer Company	(KK) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/ Serial Number	Time						
	Eng. Abdelfattah Elshennawy		22-02-2024 ES-M.I.098	04:00 PM						
Received by ER	Eng. Gaber Ibrahim	MIR	C1	C2	C3	DD	MM	YY	HH	MM
			W322	EW	CS	22	02	2024	04	00

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

Description of Materials	(Fill Layer Stockpile for Soil)					
Location to be Used	From St. (W322+480) to St. (W322+520) (-3.00).					
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	1	22/02/2024		
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		24/2/2024	
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer

** Alignment / Bridges: Culvert Only

24-02-2024

EGYPT
STONE
FOR HOUSE & OFFICE
قطاع المقاولات

المكتب الاستشاري الهندسي
(د.أ. 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 SUPPLIES		Designer Company	(KK) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/ Serial Number	Time						
	Eng. Abdelfattah Elshennawy		26-02-2024 ES-M.I.099	04:00 PM						
Received by ER	Eng. Gaber Ibrahim	MIR	C1	C2	C3	DD	MM	YY	HH	MM
			W323	EW	CS	26	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. (W323+340) to St. (W323+450) (-3.50).				
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	3	26/02/2024	
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 GARBS 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		27/2/2024	
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			AWC

* Designer

** Alignment / Bridges: Culvert Only

27-02-2024

Section - 4 From Wadi El Nnatroun To 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.099		Station:	323+340 TO 323+450				
Date :	27-Feb-2024		Aggregate Source :	EL. Sowoy - EL. Caplin				
Sample type :	SOIL		Location :	+3.50				
MDD gm/cm ³		OMC %	Sand Density					
2.166		6.60	1.47					
STA. & REF. TO CENTER	323+390	323+420	323+440					
WT. OF WET SOIL	gms	2810	2820	2830				
WT. OF INITIAL SAND+CONE	gms	10148	10293	9983				
WT. OF RESIDUAL SAND	gms	7380	7297	7133				
WT. OF SAND TO FILL CONE+HOLE	gms	2798	2996	2850				
WT. OF SAND TO FILL CONE	gms	1141	1141	1141				
WT. OF SAND TO FILL HOLE	gms	9567	1885	1709				
GROSS VOL. OF HOLE	ccs	1127.2	1261.9	1162.8				
CONTAINER No.	#	1	2	3				
WEIGHT OF CAN	gms	56.0	66.0	58.0				
WT. OF CAN+WET SOIL	gms	114.4	129.3	126.5				
WT. OF CAN+DRY SOIL	gms	105.1	122.0	125.4				
WT. OF WATER	gms	8.3	7.3	10.1				
WT. OF WET SOIL	gms	2.2	2.2	2.3				
WATER CONTENT	%	7.8	6.0	8.0				
DRY UNIT WT. OF SOIL	gm/cc	2.1	2.1	2.1				
COMPACTION	%	95.3	97.3	96.7				
REMARKS	accepted	accepted	accepted					

مهندس الاستشاري

مهندس المواد (الشركة)

المكتب الاستشاري الهندسي
KK (أ.د. خالد قنديل)
مدير المشروع: م. محمد صبري
مشروع: الطريق الكورنيش السريع
القطاع الرابع (الإحسانية)

EGYPT
STONE
FOR SUPPLY & SUPPLIER
قطاع المقاولات

MATERIAL INSPECTION REQUEST



الهيئة العامة
للمرور والنقل
(GARB)



Contractor Company	EGYPT STONE FOR MINING AND SUPPLIES		Designer Company	(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign	Date/ Serial Number	Time	
	Eng. Abdelfattah Elshennawy		27-02-2024 ES-M.I.100	04:00 PM	
Received by ER	Eng. Gaber Ibrahim	MIR	C1 W322	C2 EW	C3 CS
			DD 27	MM 02	YY 2024
			HH 04	MM 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) (-1.25).				
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	7	27/02/2024	
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		28/2/2024	
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			ANS

* Designer

** Alignment / Bridges: Culvert Only

28-02-2024

Section - 4 From Wadi El Nnatroun To 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.L100	Station:	322+300 TO 323+400
Date :	28-Feb-2024	Aggregate Source :	EL. Soweiy - EL. Captin
Sample type :	SOIL	Location :	-1.25

MDD gm/cm ³	OMC %	Sand Density
2.105	7.70	1.47

STA. & REF. TO CENTER	322+325	322+350	322+375	322+400	322+425	322+450	322+450	
WT. OF WET SOIL	2510	2520	2630	2610	2460	2460	2540	
WT. OF INITIAL SAND+CONE	10130	10293	9983	10293	10127	10011	10120	
WT. OF RESIDUAL SAND	7350	7297	7133	7439	7387	7240	7320	
WT. OF SAND TO FILL CONE+HOLE	2780	2996	2850	2854	2740	2771	2800	
WT. OF SAND TO FILL CONE	1141	1141	1141	1141	1141	1141	1141	
WT. OF SAND TO FILL HOLE	1639	1855	1709	1713	1599	1630	1659	
GROSS VOL. OF HOLE	1115.0	1261.8	1162.6	1165.3	1087.8	1108.8	1128.6	
CONTAINER No.	1	2	3	4	5	6	7	
WEIGHT OF CAN	54.0	66.0	58.0	54.0	56.0	67.0	67.0	
WT. OF CAN+WET SOIL	116.6	131.1	116.1	120.1	126.1	133.1	134.1	
WT. OF CAN+DRY SOIL	108.4	121.8	127.6	112.3	118.6	124.6	125.1	
WT. OF WATER	8.2	9.3	10.5	7.8	7.5	8.5	8.6	
WT. OF WET SOIL	2.3	2.2	2.3	2.2	2.3	2.2	2.3	
WATER CONTENT	7.6	7.8	8.2	6.7	6.3	6.8	6.8	
DRY UNIT WT. OF SOIL	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
COMPACTION	97.1	96.2	97.0	97.4	98.7	98.4	97.8	
REMARKS	accepted	accepted	accepted	accepted	accepted	accepted	accepted	

مهندس الاستشاري

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

مهندس المواد (الشرعة)

EGYPT
STONE
FOR BUILDING & SUPPLIES
قطاع المقاولات