



المنطقة الخامسة - (غرب الدلتا)

السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة.. وبعد،،

بالإحالة إلى مشروع القطار الكهربائي السريع قطاع (وادي النطرون - برج العرب - اسكندرية)
نتشرف بأن نرفق لميادنتكم المقايمة المعدلة لبنود أعمال الجسر الثرابي والأعمال الصناعية للخط
الأول لمشروع القطار الكهربائي السريع (العين السخنة - العاصمة الإدارية - العلمين - مطروح)
(قطاع وادي النطرون / برج العرب / الإسكندرية) استكمال طبقات الردم لتنفيذ المسافة من الكم
316,400 الي الكم 316,900 بطول 0.500 كم والمسافة من الكم 0,00 الي الكم 0,110 بطول
0.110 كم . طبقاً للمفاوضة الخاصة بالقطاع الرابع بتاريخ 2024/6

عقد: (2024 / 2023 / 746)

تنفيذ :- شركة منصور علي حسن

مسلسل	اسم الشركة	بداية القطاع (كم)	نهاية القطاع (كم)	التكلفة (مليون)
1	منصور علي حسن	316+400 0+000	316+900 0+110	17.168

برجاء من ميادنتكم التفضل بالأحاطه والتوجيه بالازم

وتفضلوا بقبول فائق الاحترام والتقدير،،

رئيس الإدارة المركزية

المنطقة الخامسة - غرب الدلتا

عميد مهندس /

"هاني محمد محمود طه"



الهيئة العامة
للتنظيم والمراقبة
(GAFFI)



المقاييس المعتمدة لتبني أعمال الجسر الترابي والاصصال الصناعية للخط الاول لمشروع القطار الكهربائي المربع (عين السخنة - العاصمة الادارية - العينين - مطروح) (قطاع وادي النطرون / برج العرب / الاسكندرية) استكمال طبقات الردم لتتفيذ المسافة من الكم 316+400 الى الكم 316+900 بطول 0.500 كم والمسافة من الكم 0+000 الى 0+110 بطول 0.110 كم. تنفيذ شركة منصور علي حسن عقد رقم (2024/2023/746)

رقم البند	بيان الاصل	الوحدة	الكمية	الثمن	الاجملي
1	أعمال الردم				
1-1	بالمتر المكعب أعمال توريد ونقل اترية مطابقة للمواصفات وتشغيلها باستخدام الات التسوية بسمك لا يزيد عن 50 سم حتى منسوب -2 متر و بسمك لا يزيد عن 25 سم لاستكمال المنسوب التصميمي لتشكيل الجسر والاكشاف (نسبة تحمل كالفورنيا لا تقل عن 15%) و رشها بالمياه الاصولية للوصول الى نسبة الرطوبة المطلوبة وذلك الجيد بالهراسات للوصول الى الصي كثافة جافة (96% من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية التوجيهية والرسومات التفصيلية المعتمدة والبند يجمع مشغلاته طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكبارى وتعليمات المهندس المشرف. - مسافة النقل 2 كم و يتم احتساب علاوة 1.5 جنيه لكل 1 كم بالزيادة او النقصان - السعر يشمل عمل تشوينات وتخلوط واختبارات ونقل لمواقع العمل . - السعر يشمل قيمة المادة المنحجرة				
	ابتداء من سبتمبر طبقاً للمواصفة الخاصة بالقطاع الرابع 6/2024	3م	48720	121.90	5,938,968.0
	علاوة مسافة النقل اترية 145 كم	3م	38976.0	214.50	8,360,352.0
	ابتداء من سبتمبر طبقاً للمواصفة الخاصة بالقطاع الرابع 6/2024	3م	9744.0	229.50	2,236,248.0
	علاوة مسافة النقل الرمل 155 كم	3م	48720.0	13.00	633,360
	ابتداء من سبتمبر طبقاً للمواصفة الخاصة بالقطاع الرابع 6/2024	3م			
	علاوة تحصيل رسوم الكارثة والموازين طبقاً للائحة الشركة الوطنية				

17,168,928	الاجملي
سبعة عشر مليوناً ومائة وثمانية وستون ألفاً وتسعة وثمانية وعشرون جنيهاً فقط لا غير .	
* يرجى العلم بان الفات المذكورة طبقاً للمواصفة الخاصة بالقطاع الرابع بتاريخ 6/2024	

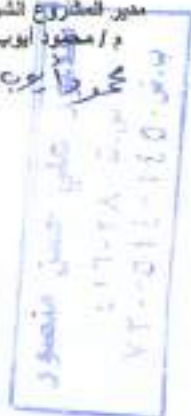
مدير عام المشروعات
م / محمد حسني فياض

مدير المشروع (الهيئة)
م / أحمد جلال

مدير المشروع (الاستشاري)
م / هشام محمد صبري

مدير المشروع الشركة
م / محمود ايوب

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



قائمة الكميات الواردة بالمستخلص جاري (3)

أعمال الجسر الترابي والأعمال الصناعية للخط الأول لمشروع القطر الكهربائي السريع (العين السخنة - العاصمة الإدارية - العسلين - مطروح) (قطاع وادي النطرون / برج العرب / الاسكندرية) استكمال طبقات الردم لتنفيذ المسافة من الكم 316+400 الى الكم 316+900 بطول 0.500 كم و المسافة من الكم 0+000 الى 0+110 بطول 0.110 كم.
عقد رقم (2024/2023/746)

رقم البند وبياناته (1-1) بالمتر المكعب أعمال تحميل وتوريد ونقل اترية مطابقة للمواصفات وتشغيلها باستخدام الات التسوية بسلك لا يزيد عن 50 سم حتى منسوب 2- متر ويسمك لا يزيد عن 25 سم لاستكمال المنسوب التصميمي لتشكيل الجسر والاكتاف (نسبه تحمل كاليفورنيا لا تقل عن 15%) ورشها بالمياه الاصلوية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول إلى أقصى كثافة جافة (95% من الكثافة الجافة القصوى) ويتم التنفيذ طبقاً للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند بجميع مشتملاته طبقاً لأصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف.

ابتداء من سبتمبر 2023 طبقاً للمفاوضة الخاصة بالقطاع الرابع بتاريخ 6/2024

تنفيذ: شركة منصور علي حسن

مقدار العمل السابق :		0.0	3م
مسلسل	الموقع الكيلومتری		الكمية (م3)
	من الكم	الى الكم	
1	316+400	316+750	41051.00
2	316+790	316+900	3506.00
3	0+000	0+110	3723.00
الكمية خلال فترة المستخلص (3م)			48280.00
الإجمالي الكلي (3م)			48280.00

مهندس الهيئة

م / أحمد جلال

مهندس الاستشاري

مكتب د/ خالد قنديل

م / هشام محمد صبري

مهندس الاستشاري

مكتب XYZ

م / محمد خليل

مهندس الشركة

م / محمود أيوب

قائمة الكميات الواردة بالمستخلص جاري (3)

أعمال الجسر الترابي والاعمال الصناعية للخط الاول لمشروع القطار الكهربائي السريع (العين المسخنة - العاصمة الادارية - العاملين - مطروح) (قطاع وادي النطرون / برج العرب / الاسكندرية) استكمال طبقات الردم لتنفيذ المسافة من الكم 316+400 الى الكم 316+900 بطول 0.500 كم و المسافة من الكم 0+000 الى 0+110 بطول 0.110 كم.
عقد رقم (2024/2023/746)

علاوة بند (1-1) علاوة مسافة النقل 145 كم .

ابتداء من سبتمبر 2023 طبقاً للمفاوضه الخاصه بالقطاع الرابع بتاريخ 6/2024

تنفيذ : شركة منصور علي حسن .

مقدار العمل السابق :	0.0	3م
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مسلسل	الموقع الكيلومتری		الطول (متر)	الكمية (م3)
	من الكم	الى الكم		
1	316+400	316+750	350	32840.80
2	316+790	316+900	110	2804.80
3	0+000	0+110	110	2978.40
الكمية خلال فترة المستخلص (م3)				38624.00
الاجمالي الكلي (م3)				38624.00

مهندس الهيئة

أحمد جلال

م / أحمد جلال

مهندس الاستشاري

مكتب د/ خالد قنديل

م / هشام محمد جبري

مهندس الاستشاري

مكتب XYZ

م / محمد خليل

مهندس الشركة

م / محمود أيوب

محمود أيوب

1. $2x^2 + 3x - 1$
 2. $4x^2 - 5x + 2$
 3. $6x^2 - 7x + 3$
 4. $8x^2 - 9x + 4$
 5. $10x^2 - 11x + 5$
 6. $12x^2 - 13x + 6$
 7. $14x^2 - 15x + 7$
 8. $16x^2 - 17x + 8$
 9. $18x^2 - 19x + 9$
 10. $20x^2 - 21x + 10$

قائمة الكميات الواردة بالمستخلص جاري (3)

أعمال الجسر النرابي والأعمال الصناعية للخط الأول لمشروع القطار الكهربائي السريع (العين السخنة - العاصمة الإدارية - العينين - مطروح) (قطاع وادي النطرون / برج العرب / الاسكندرية) استكمال طبقات الردم لتنفيذ المسافة من الكم 316+400 الى الكم 316+900 بطول 0.500 كم و المسافة من الكم 0+000 الى 0+110 بطول 0.110 كم.

عقد رقم (2024/2023/746)

علاوة بند (1-1) علاوة تحصيل رسوم الكارثة والموازن طبقاً للاتحة الشركة الوطنية.

ابتداء من سبتمبر 2023 طبقاً للمفاوضة الخاصة بالقطاع الرابع بتاريخ 6/2024

تسليط : شركة منصور علي حسن .

مقدار العمل السابق :		42380.0	3م
مسلسل	الموقع الكيلومتری		الكمية (م3)
	من الكم	الى الكم	
1	316+400	316+750	5900.00
الكمية خلال فترة المستخلص (3م)			5900.00
الاجمالي الكلي (3م)			48280.00

مهندس الهيئة

م / أحمد جلال

م / أحمد جلال

مهندس الاستشاري

مكتب د/ خالد قنديل

م / هشام محمد صبري

مهندس الاستشاري

مكتب XYZ

م / محمد خليل

مهندس الشركة

م / محمود أيوب

م / محمود أيوب



مكتب الاستشارات الهندسية
(G.A.R.B.)



الهيئة العامة للإعطاء
بمصر

Electrical Express train from Wadi El Natroun To Borg Elarab

Activity : Earth Work

Lab Testing Results

Date

5/10/2023

Density and Unit Weight of Soil in Place by the Sand-Cone Method – ASTM D 1556

Company:	MANSOUR ALI HASSAN	Layer NO:	M-4.50
Description :	MNS-F.L-009&REQ F.L 046	Layer Thickness:	FDT-6
Station Represented :	(316+620) (316+720)	Sample Date :	4/10/2023

Modified Proctor Testing Results

Max. Dry Density, gm/cm ³	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm ³
2.157	8.2	95%	1.490

Compaction Testing Results & Calculations

Hole No.	1	2						
Stations	316+640	316+690						
Wt. of Sand before Test, gm	9374	5765						
Wt. of Sand After Test, gm	5554	6147						
Wt. of Sand in Cone + hole, gm	3810	3618						
Wt. of Sand in Cone	1454	1428						
Wt. of Sand at hole, gm	2356	2190						
Volume of the Hole, cm ³	1581	1470						
Wt. of Soil from Hole, gm	3482	3238						
Bulk Density of Soil, gm/cm ³	2.202	2.203						
Moisture Content, %	6.2	6.5						
Dry Density, gm/cm ³	2.074	2.069						
Compaction, (%)	96.1%	95.9%						

Acceptance Criteria

Comply

Not Comply

CONSULTANT COMMENTS

Lab Contractor Eng. :
ب. ق. 12 - 12

Consultant Eng. :-

مكتب الاستشارات الهندسية
(أ.د. خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القطاع الرابع (الإسكندرية)

ATERIAL INSPECTION REQUEST



Contractor Company		Mansour Ali Hassan		Designer Company		(KK) Engineering Consulting Office																	
Issued by Contractor		Name Eng. Mahmoud Ayoub		Date/ Serial Number 4-10-2023 MNS-M.I.008		Time 10:00 AM																	
Received by ER		Eng. Gaber Ibrahim		MIR		<table border="1"> <tr> <th>C1</th> <th>C2</th> <th>C3</th> <th>DD</th> <th>MM</th> <th>YY</th> <th>HH</th> <th>MM</th> </tr> <tr> <td>316</td> <td>FW</td> <td>C5</td> <td>4</td> <td>10</td> <td>2023</td> <td>10</td> <td>00</td> </tr> </table>		C1	C2	C3	DD	MM	YY	HH	MM	316	FW	C5	4	10	2023	10	00
C1	C2	C3	DD	MM	YY	HH	MM																
316	FW	C5	4	10	2023	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	Fill Layer.		
Location to be Used	From St. (316+620) to St. (316+720) (-4.50 m from ferma).		
MAR Approval No	(MNS-M.A003).	Date	3/10/2023
Supplier Name	El Sewy - EL Hahdi		
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	4/10/2023	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام القطاع SAND CONE 2. تم تحقيق نسبة الدمك المطلوبة .	1- F.D.T was carried- out by 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. Mahmoud Ayoub	M. Ayoub	5/10/2023	A
QA/QC *	Eng. Hesham Sabry		5/10/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer

** Alignment / Bridges: Culvert Only

05-10-2023



الهيئة العامة للتخطيط

Electrical Express train from Wadi El Natroun To Borg Elarab

Activity : Earth Work

Lab Testing Results

Date

26/11/2023

Density and Unit Weight of Soil in Place by the Sand-Cone Method – ASTM D 1556

Company:	MANSOUR ALI HASSAN	Layer NO:	M-1.00
Description :	MNS-F.L.-049RT48&REQ F.L 086RT085	Layer Thickness:	FDT-39
Station Represented :	(316+560) (316+720)	Sample Date :	25/11/2023

Modified Proctor Testing Results

Max. Dry Density, gm/cm ³	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm ³
2.131	9.4	95%	1.490

Compaction Testing Results & Calculations

Hole No.	1	2	3	4	5	6		
Stations	316+580	316+605	316+630	316+655	316+680	316+715		
Wt. of Sand before Test, gm	9906	9763	9513	9342	9100	8894		
Wt. of Sand After Test, gm	6031	5742	5584	5712	5550	5081		
Wt. of Sand in Cone + hole, gm	3875	4041	3829	3630	3542	3813		
Wt. of Sand in Cone	1428	1454	1428	1454	1428	1454		
Wt. of Sand in hole, gm	2447	2587	2401	2178	2114	2359		
Volume of the Hole, cm ³	1642	1736	1611	1460	1419	1583		
Wt. of Soil from Hole, gm	3921	3914	3563	3214	3095	3437		
Bulk Density of Soil, gm/cm ³	2.205	2.197	2.211	2.201	2.181	2.171		
Moisture Content, %	6.3	6.4	6.1	6.2	6.3	6.1		
Dry Density, gm/cm ³	2.074	2.065	2.084	2.072	2.052	2.046		
Compaction, (%)	97.3%	96.9%	97.8%	97.2%	96.3%	96.0%		

Acceptance Criteria

Comply

Not Comply

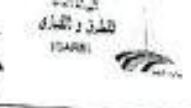
CONSULTANT COMMENTS

Lab Contractor Eng.:-
21-11-2023
220-012-120

Consultant Eng.:-

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		Mansour Ali Hassan		Designer Company		(KK) Engineering Consulting Office																	
Issued by Contractor		Name Eng. Mahmoud Ayoub		Sign Mohamed Shihab		Date/ Serial Number 29-11-2023 MNS-M.1.050																	
Received by ER		Eng. Gaber Ibrahim		MIR		Time 10:00 AM																	
						<table border="1"> <tr> <td>31E</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>31E</td> <td>EW</td> <td>CS</td> <td>29</td> <td>11</td> <td>2023</td> <td>10</td> <td>00</td> </tr> </table>		31E	C2	C3	DD	MM	YY	HH	MM	31E	EW	CS	29	11	2023	10	00
31E	C2	C3	DD	MM	YY	HH	MM																
31E	EW	CS	29	11	2023	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		Fill Layer.	
Location to be Used		St. (316+790) (-2.50 m from forma).	
MAR Approval No		(MNS-M.A021).	
Supplier Name		El Sewy - EL Hadi	
Test Requirement		F.D.T(ASTM D 1556)	
Reference Photos		No	
		Other	
		EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sand Cone Test.	NUMBER	1	29/11/2023	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)		Comments by: Eng. Gaber Ibrahim	
1. تم استلام القطاع SAND CONE 2. تم تحقيق نسبة الدمك المطلوبة.		1- F.D.T was carried- out by 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.	

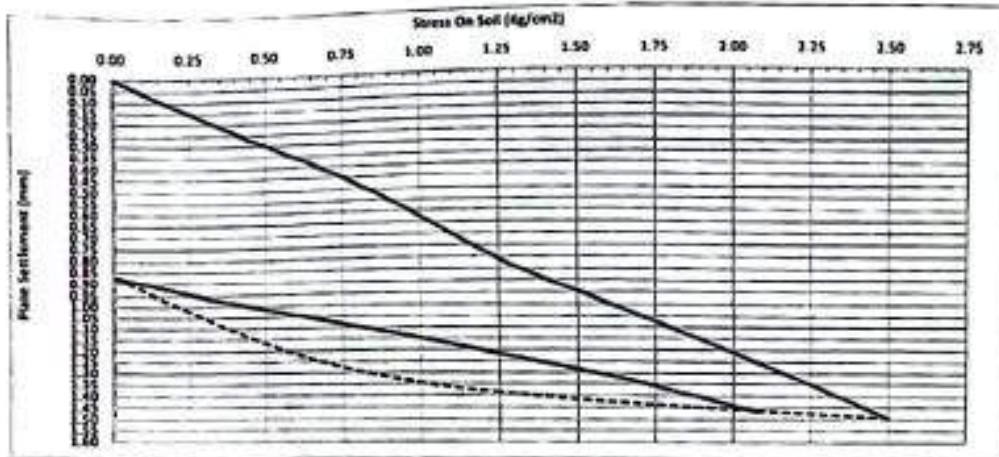
APPROVAL STATUS				Date	A-AWC-R
Organisation	Name	Sign			
Contractor	Eng. Mahmoud Ayoub	Mohamed Shihab		30/11/2023	A
QA/QC *	Eng. Hesham Sabry			30/11/2023	A
GARB**	Eng. Ahmed Galal				
Employers Representative	Eng. Gaber Ibrahim			30-11-2023	A.W.C

* Designer
** Alignment / Bridges: Culvert Only

Company Name
Project
Test Date
Report date
Location
Test No.

مشور علي حسن :
Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (4) - Alexandria to Borg El Arab.
: 27/09/2023
: 27/09/2023
: Station 316+670
: 01

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	0.25	0.50	0.81	1.03	1.25	1.50

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)	1.50	1.39	1.23	0.87

D (mm) =	600	S1 (mm) =	0.45	S2 (mm) =	1.08	ΔS =	0.62
Ev1 (MPa) =	(0.75 * D * Δσ) / ΔS		71				

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)	0.87	0.99	1.10	1.22	1.33	1.47

Ev2/Ev1 = 2.2

D (mm) =	600	S1 (mm) =	1.08	S2 (mm) =	1.36	ΔS =	0.28
Ev2 (MPa) =	(0.75 * D * Δσ) / ΔS		159				

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

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

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

مختبر محامل

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

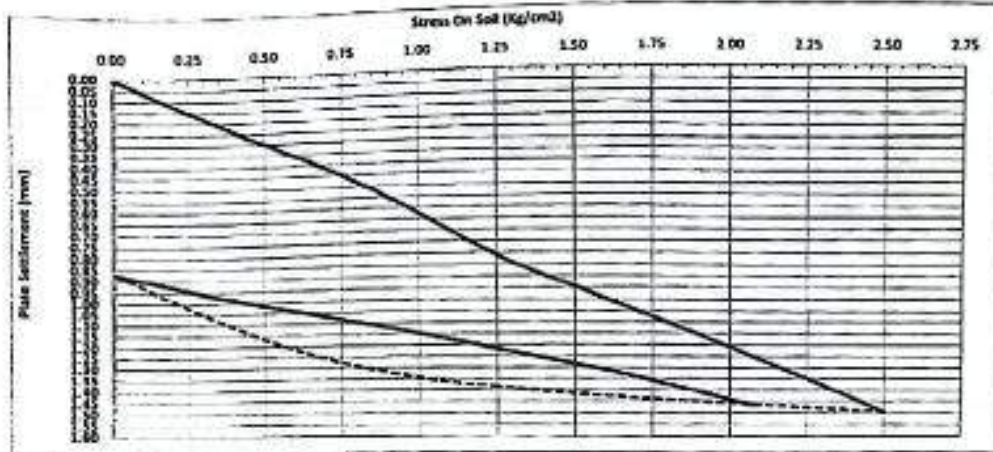
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ACCREDITED
Testing Laboratory

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

Company Name
Project
Test Date
report date
Location
Test No.

منصور علي حسن
: Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (4) - Alexandria to Borg El Arab.
: 27/09/2023
: 27/09/2023
: Station 316+670
: 01

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134



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مختبر محامل

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



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



هيئة الطرق
والتنسيق
(ICARD)



الهيئة القومية للإسكان



Electrical Express train from Wadi El Natroun To Borg Elarab

Activity : Earth Work

Lab Testing Results

Date 4/12/2023

Density and Unit Weight of Soil in Place by the Sand-Cone Method – ASTM D 1556

Company:	MANSOUR ALI HASSAN	Layer NO:	M-0.25
Description :	MNS-F.L.-0598&REQ F.L 096	Layer Thickness:	FDT-48
Station Represented :	(316+560) (316+720)	Sample Date :	3/12/2023

Modified Proctor Testing Results

Max. Dry Density, gm/cm ³	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm ³
2.101	8.3	95%	1.490

Compaction Testing Results & Calculations

Hole No.	1	2	3	4	5	6		
Stations	316+580	316+605	316+630	316+655	316+680	316+715		
Wt. of Sand before Test, gm	9854	9572	9608	9192	8812	8572		
Wt. of Sand After Test, gm	5926	5857	5604	5504	4819	4815		
Wt. of Sand in Conc + hole, gm	3938	3715	3914	3688	3993	3824		
Wt. of Sand in Conc	1454	1428	1454	1428	1454	1428		
Wt. of Sand at hole, gm	2484	2287	2460	2260	2539	2396		
Volume of the Hole, cm ³	1667	1535	1651	1517	1704	1608		
Wt. of Soil from Hole, gm	3721	3392	3531	3405	3903	3563		
Bulk Density of Soil, gm/cm ³	2.232	2.210	2.219	2.247	2.232	2.216		
Moisture Content, %	6.1	6.1	6	6.2	6.4	6.3		
Dry Density, gm/cm ³	2.104	2.079	2.094	2.116	2.098	2.084		
Compaction, (%)	97.4%	96.2%	96.9%	97.9%	97.1%	96.5%		

Acceptance Criteria

Comply

Not Comply

CONSULTANT COMMENTS

Lab Contractor Eng.:-
012-123-456

Consultant Eng.:-

KK
(أ.د/ خالد قنديل)
مدير المشروع: م/ هشام محمد مبري
مشروع: القطار الكهربائي السريع
القطعة الرابع (الإسكندرية)

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours
 The Work described below will be complete and ready for inspection at planned time shown

Contractor Company	MANSOUR ALI HASSAN		Designer Company*	(KK) Engineering Consulting Office			
Issued by Contractor	Name	Sign	Date	Time			
	Eng: Mahmoud Ayoub	<i>M. Ayoub</i>	23-10-2023	09:00 AM			
Received by Employers Representative	Eng. Gaber Ibrahim	UIR	C1	C2	C3	DD	MM
			318	EW	CS	23	10
CODE-1	S1 to S21	D1 to S3	Kp XXX Note				
CODE-2	Station Reference	Degol Reference	For Kilometer point only Start Km is used				
CODE-3	Work Activity						
	Sub Element of Activity						

EXPLANATION OF WORK TO BE INSPECTED

Description	Element	Item
MNS-F.L-027 & REQ F.L 064 ST 316+620 TO 316+720	Fill Layer (-2.50m) From Ferma	Fill For Embankment

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

Planned Inspection Date	Planned Inspection Time
23/10/2023	3:00

COMPLIANCE EVIDENCE Must be Included as appropriate

Checklist Attached ☒	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	
TECHNICAL REPORT (CG21-181.1) VERSION1 BY CIVECON GROUP	MNS-M.A012 MNS-M.I.022	- MASTER SHEET & Grid Levelling - Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION2 BY CIVECON GROUP.	

Comments by: Eng. Hesham Sabry (KK)

1. تم استلام القطاع فحص بصري
2. تم مراجعة شيت المناسوب
3. تم استلام القطاع عروض ومناسوب من استشاري XYZ
4. تم تحقيق نسب الدمك المطلوبة

Comments by: Eng. Gaber Ibrahim (ER)

1. Contractor must take into account safety of received work until all work completed.
2. Surveying & Soil Material Works Inspected and approved by GARB Consultant (XYZ&KK) respectively.
3. Final approval is subject to above mentioned comments.

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng: Mahmoud Ayoub	<i>M. Ayoub</i>			A	
XYZ Survey	Eng. Ahmed Awwad	<i>A. Awwad</i>				
QA/QC*	Eng. Hesham Sabry	<i>H. Sabry</i>	24/10/2023	2:00	A	
GARB**	Eng. Ahmed Galal	<i>A. Galal</i>				
Employers Representative	Eng. Gaber Ibrahim	<i>G. Ibrahim</i>			AWS	

* Designer

** Alignment: Bridges: Culvert Only

MNS-F.L-027 & REQ F.L 064 ST 316+620 TO 316+720 (-2.50)

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours
 The Work described below will be complete and ready for inspection at planned time shown:

Contractor Company	MANSOUR ALI HASSAN		Designer Company*	(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign	Date	Time	
	Eng: Mahmoud Ayoub	M. Ayoub	18-10-2023	09:00 AM	
Received by Employers Representative	Eng. Gaber Ibrahim	UIR	C1	C2	C3
			316	EIV	CS
			DD	MM	YY
			18	10	23
			HH	MM	
			9	00	

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

EXPLANATION OF WORK TO BE INSPECTED

Description	Element	Item
MNS-F.L-020 RT 019 & REQ F.L 057 RT 056 ST 316+620 TO 316+720	Fill Layer (-3.00m) From Ferma	Fill For Embankment

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

Planned Inspection Date	Planned Inspection Time
18/10/2023	11.00

COMPLIANCE EVIDENCE Must be included as appropriate:

Checklist Attached ☒	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	
TECHNICAL REPORT (CG21-181.1) VERSION1 BY CIVECON GROUP	MNS-M.A010 MNS-M.I.017	- MASTER SHEET & Grid Levelling - Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION2 BY CIVECON GROUP.	

Comments by: Eng. Hesham Sabry (KK)	Comments by: Eng. Gaber Ibrahim (ER)
1. تم استلام القطاع فحص بصري 2. تم مراجعة شيت المتناسب 3. تم استلام القطاع عروض ومتاسيب من استشاري XYZ 4. تم تحديد نسب الدمك المطلوبة	1. Contractor must take into account safety of received work until all work completed. 2. Surveying & Soil Material Works inspected and approved by GARB Consultant (XYZ&KK) respectively. 3. Final approval is subject to above mentioned comments.

INSPECTION RESULT					Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Date	Time	A-AWC-R	
Contractor	Eng: Mahmoud Ayoub	M. Ayoub			A	
XYZ Survey	Eng. Ahmed Anwarad					
QA/QC*	Eng. Hesham Sabry		18/10/2023	3:00	A	
GARB**	Eng. Ahmed Galal					
Employers Representative	Eng. Gaber Ibrahim				AWC	

* Designer

** Alignment: Bridges: Culvert Only

MNS-F.L-020 RT 019 & REQ F.L 057 RT 056 ST 316+620 TO 316+720 (-3.00)

Page 1 of 1

INSPECTION REQUEST



Contractor Company	Mansour Ali Hassan			Designer Company	(KK) Engineering Consulting Office		
Issued by Contractor	Name	Sign		Date/ Serial Number	Time		
	Eng. Mahmoud Ayoub	Mohamed Shehry		7-12-2023 MNS-M.I.060	10:00 AM		
Received by ER	Eng. Gaber Ibrahim	MIR		C1	C2	C3	DD
				316	EW	CS	7
				MM	YY	HH	MM
				12	2023	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	Fill Layer.		
Location to be Used	From St. (0+000) to St. (0+020) [- 1.75 m from FERMA]-		
MAR Approval No	(MNS-M.A022).	Date	28/11/2023
Supplier Name	El Sewy – EL Hadi		
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	7/12/2023	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام القطاع SAND CONE 2. تم تحقيق نسبة الدمك المطلوبة.	1- F.D.T was carried- out by 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. Mahmoud Ayoub	Mohamed Shehry	9/12/2023	A
QA/QC *	Eng. Hesham Sabry		9/12/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer
** Alignment / Bridges: Culvert Only



وزارة
النقل و
البنية التحتية
(GARD)



الهيئة القومية للإتفاق



Electrical Express train from Wadi El Natroun To Borg Elarab

Activity : Earth Work

Lab Testing Results

Date

8/12/2023

Density and Unit Weight of Soil In Place by the Sand-Cone Method – ASTM D 1556

Company:	MANSOUR ALI HASSAN	Layer NO:	M-1.75
Description :	MNS-F.L-065&REQ F.L 102	Layer Thickness:	FDT-54
Station Represented :	(0+000) (0+020)	Sample Date :	7/12/2023

Modified Proctor Testing Results

Max. Dry Density, gm/cm ³	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm ³
2.16	6.8	95%	1.490

Compaction Testing Results & Calculations

Hole No.	1							
Stations	0+010							
Wt. of Sand before Test, gm	9327							
Wt. of Sand After Test, gm	5418							
Wt. of Sand in Cone + hole, gm	3909							
Wt. of Sand in Cone	1454							
Wt. of Sand at hole, gm	2455							
Volume of the Hole, cm ³	1648							
Wt. of Soil from Hole, gm	3526							
Bulk Density of Soil, gm/cm ³	2.201							
Moisture Content, %	6.0							
Dry Density, gm/cm ³	2.076							
Compaction, (%)	96.1%							

Acceptance Criteria

Comply

Not Comply

CONSULTANT COMMENTS

Lab Contractor Eng.

Consultant Eng.:

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

Contractor Company	Mensour Ali Hassan			Designer Company	(KK) Engineering Consulting Office																		
Issued by Contractor	Name	Sign		Date/ Serial Number	Time																		
	Eng. Mahmoud Ayoub	Mohamed Shaker		7-12-2023 MNS-M.I.059	10:00 AM																		
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>335</td> <td>EW</td> <td>C5</td> <td>7</td> <td>12</td> <td>2023</td> <td>10</td> <td>00</td> </tr> </table>				C1	C2	C3	DD	MM	YY	HH	MM	335	EW	C5	7	12	2023	10	00
	C1	C2	C3	DD	MM	YY	HH	MM															
335	EW	C5	7	12	2023	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	Fill Layer.				
Location to be Used	From St. (316+790) to St. (316+820) (- 1.75 m from FERMA).				
MAR Approval No	(MNS-M.A022).	Date	28/11/2023		
Supplier Name	El Sewy – EL Hadi				
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	7/12/2023	
2					
3					
4					
Comments by: Eng. Hesham Sabry (kk)			Comments by: Eng. Gaber Ibrahim		
1. تم استلام القطاع SAND CONE 2. تم تحقيق نسبة الدمك المطلوبة.			1- F.D.T was carried- out by 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. Mahmoud Ayoub	Mohamed Shaker	9/12/2023	A
QA/QC *	Eng. Hesham Sabry		9/12/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL INSPECTION REQUEST



Contractor Company	Mansour Ali Hassan		Designer Company	(KK) Engineering Consulting Office																	
Issued by Contractor	Name	Sign	Date/ Serial Number	Time																	
	Eng. Mahmoud Ayoub	Mohamed Shehn	3-12-2023 MNS-M.I.056	10:00 AM																	
Received by ER	Eng. Gaber Ibrahim	MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DO</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>316</td> <td>EW</td> <td>CS</td> <td>3</td> <td>12</td> <td>2023</td> <td>10</td> <td>00</td> </tr> </table>			C1	C2	C3	DO	MM	YY	HH	MM	316	EW	CS	3	12	2023	10	00
C1	C2	C3	DO	MM	YY	HH	MM														
316	EW	CS	3	12	2023	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	Fill Layer.		
Location to be Used	From St. (316+790) to St. (316+800) (-2.00 m from forma).		
MAR Approval No	(MNS-M.A022).	Date	28/11/2023
Supplier Name	El Sewy - EL Hadi		
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	3/12/2023	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام القطاع SAND CONE 2. تم تحقيق نسبة الدمك المطلوبة.	1- F.D.T was carried-out by 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			Date	A-AWC-R
Organisation	Name	Sign		
Contractor	Eng. Mahmoud Ayoub	Mohamed Shehn	4/12/2023	A
QA/QC *	Eng. Hesham Sabry		4/12/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer
** Alignment / Bridges: Culvert Only



الهيئة القومية للإنفاق



Electrical Express train from Wadi El Natroun To Borg Elarab

Activity : Earth Work

Lab Testing Results

Date

4/12/2023

Density and Unit Weight of Soil in Place by the Sand-Cone Method - ASTM D 1556

Company:	MANSOUR ALI HASSAN	Layer NO:	M-2.00
Description :	MNS-F.L-061&REQ F.L 098	Layer Thickness:	FDT-50
Station Represented :	(316+790) (316+800)	Sample Date :	3/12/2023

Modified Proctor Testing Results

Max. Dry Density, gm/cm ³	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm ³
2.16	6.8	95%	1.490

Compaction Testing Results & Calculations

Hole No.	1								
Stations	316+795								
Wt. of Sand before Test, gm	9757								
Wt. of Sand After Test, gm	6046								
Wt. of Sand in Cone + hole, gm	3711								
Wt. of Sand in Cone	1454								
Wt. of Sand at hole, gm	2257								
Volume of the Hole, cm ³	1515								
Wt. of Soil from Hole, gm	3352								
Bulk Density of Soil, gm/cm ³	2.213								
Moisture Content, %	6.3								
Dry Density, gm/cm ³	2.082								
Compaction, (%)	96.4%								

Acceptance Criteria

Comply

Not Comply

CONSULTANT COMMENTS

Lab Contractor Eng.:
V.R. 012 120

Consultant Eng.:-

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

MATERIAL INSPECTION REQUEST



Contractor Company	Monsieur Ali Hassan		Designer Company	(KK) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/ Serial Number	Time						
	Eng. Mahmoud Ayoub	Mohamed Shehe	3-12-2023 MNS-M.I.055	10:00 AM						
Received by ER	Eng. Gaber Ibrahim	MIR	C1	C2	C3	DD	MM	YY	HH	MM
			310	20	CS	3	12	2023	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	Fill Layer.				
Location to be Used	From St. (0+000) to St. (0+020) (-2.00 m from ferma).				
MAR Approval No	(MNS-M.A022).	Date	28/11/2023		
Supplier Name	El Sewy – El Hadi				
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	3/12/2023	
2					
3					
4					
Comments by: Eng. Hesham Sabry (kk)		Comments by: Eng. Gaber Ibrahim			
1. تم استلام القطاع SAND CONE 2. تم تحقيق نسبة الدمك المطلوبة.		1- F.D.T was carried- out by 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. Mahmoud Ayoub	Mohamed Shehe	4/12/2023	A
QA/QC *	Eng. Hesham Sabry		4/12/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer
 ** Alignment / Bridges: Culvert Only



الهيئة العامة
للشوارع والنقل
(ETREC)



الهيئة القومية للإسكندرية



Electrical Express train from Wadi El Natroun To Borg Elarab

Activity : Earth Work

Lab Testing Results

Date

4/12/2023

Density and Unit Weight of Soil in Place by the Sand-Cone Method - ASTM D 1556

Company:	MANSOUR ALI HASSAN	Layer NO:	M-2.00
Description :	MNS-F.L.-060&REQ F.L 097	Layer Thickness:	FDT-49
Station Represented :	(0+000) (0+020)	Sample Date :	3/12/2023

Modified Proctor Testing Results

Max. Dry Density, gm/cm ³	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm ³
2.16	6.8	95%	1.490

Compaction Testing Results & Calculations

Hole No.	1							
Station	0+010							
Wt. of Sand before Test, gm	9783							
Wt. of Sand After Test, gm	6046							
Wt. of Sand in Cone + hole, gm	3717							
Wt. of Sand in Cone	1454							
Wt. of Sand at hole, gm	2263							
Volume of the Hole, cm ³	1519							
Wt. of Soil from Hole, gm	3352							
Bulk Density of Soil, gm/cm ³	2.207							
Moisture Content, %	6.3							
Dry Density, gm/cm ³	2.076							
Compaction, (%)	96.1%							

Acceptance Criteria

Comply

Not Comply

CONSULTANT COMMENTS

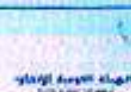
Lab Contractor Eng.:-
٧٢٠ - ٥١٥ - ١٢٥

Consultant Eng.:-

عالم

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

MATERIAL INSPECTION REQUEST



2023/11/22

Contractor Company	Mansour Ali Hassan			Designer Company	(KK) Engineering Consulting Office		
Issued by Contractor	Name	Eng. Mahmoud Ayoub	Sign	Mohamed shehry	Date/ Serial Number	3-12-2023 MNS-M.I.054	
	Time	10:00 AM					
Received by ER	Eng. Gaber Ibrahim		MIR		C1	C2	C3
					DD	MM	YY
					HH	MM	
					31G	EW	CS
					3	12	2023
					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	Fill Layer.		
Location to be Used	From St. (316+560) to St. (316+720) (-0.25 m from ferma).		
MAR Approval No	(MNS-M.A021).	Date	22/11/2023
Supplier Name	El Sewy – EL Hadi		
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	3/12/2023	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام القطاع SAND CONE 2. تم تحقيق نسبة الدمك المطلوبة .	1- F.D.T was carried- out by 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. Mahmoud Ayoub	Mohamed shehry	4/12/2023	A
QA/QC *	Eng. Hesham Sabry		4/12/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer
 ** Alignment / Bridges: Culvert Only

04/12/2023

MATERIAL INSPECTION REQUEST



Contractor Company	Mansour Al Hassan		Designer Company	(KK) Engineering Consulting Office																	
Issued by Contractor	Name	Sign	Date/ Serial Number	Time																	
	Eng. Mahmoud Ayoub	M. Hamed Shehry	30-11-2023 MNS-M.1.052	10:00 AM																	
Received by ER	Eng. Gaber Ibrahim	MIR	<table border="1"> <tr> <td>DI</td> <td>C2</td> <td>C3</td> <td>DO</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>3.16</td> <td>EW</td> <td>C5</td> <td>30</td> <td>12</td> <td>2023</td> <td>10</td> <td>00</td> </tr> </table>			DI	C2	C3	DO	MM	YY	HH	MM	3.16	EW	C5	30	12	2023	10	00
DI	C2	C3	DO	MM	YY	HH	MM														
3.16	EW	C5	30	12	2023	10	00														

CODE - 1	S1 to S23 Station Reference	D1 to S3 Depot Reference	Kg 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.				
Location to be Used	From St. (316+560) to St. (316+720) (-0.50 m from fermal).				
MAR Approval No	(MNS-M.A021).	Date	22/11/2023		
Supplier Name	El Sewy - EL Hadl				
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	30/11/2023	
2					
3					
4					
Comments by: Eng. Hesham Sabry (kk)			Comments by: Eng. Gaber Ibrahim		
1. تم استلام القطع SAND CONE 2. تم تحقيق نسبة السمك المطلوبة.			1- F.D.T was carried- out by 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. Mahmoud Ayoub	Mohamed Shehry	2/12/2023	A
QA/QC *	Eng. Hesham Sabry		2/12/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			AWC

* Designer
** Alignment / Bridges: Culvert Only

02/12/2023

MATERIAL INSPECTION REQUEST



2023/11/29

Contractor Company	Mansour All Hassan		Designer Company	(KIC) Engineering Consulting Office																
Issued by Contractor	Name	Sign	Date/ Serial Number	Time																
	Eng. Mahmoud Ayoub	Mohamed shehry	29-11-2023 MNS-M.I.051	10:00 AM																
Received by ER	Eng. Gaber Ibrahim	MIR	<table border="1"> <tr> <th>CL</th> <th>C2</th> <th>C3</th> <th>DO</th> <th>MM</th> <th>YY</th> <th>HH</th> <th>MM</th> </tr> <tr> <td>315</td> <td>EW</td> <td>CS</td> <td>28</td> <td>11</td> <td>2023</td> <td>10</td> <td>00</td> </tr> </table>	CL	C2	C3	DO	MM	YY	HH	MM	315	EW	CS	28	11	2023	10	00	
CL	C2	C3	DO	MM	YY	HH	MM													
315	EW	CS	28	11	2023	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	Fill Layer.		
Location to be Used	From St. (0+000) to St. (0+010) (-2.50 m from ferma).		
MAR Approval No	(MNS-M.A021).	Date	22/11/2023
Supplier Name	El Sewy – EL Hadl		
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	29/11/2023	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1. تم استلام القطع SAND CONE 2. تم تحقيق نسبة الدمك المطلوبة.	1- F.D.T was carried- out by 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. Mahmoud Ayoub	Mohamed shehry	30/11/2023	A
QA/QC *	Eng. Hesham Sabry		30/11/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		30-11-2023	A.W.C

* Designer
** Alignment / Bridges: Culvert Only

Contractor Company	Mansour All Hassan		Designer Company	(KK) Engineering Consulting Office																
Issued by Contractor	Name	Sign	Date/ Serial Number	Time																
	Eng. Mahmoud Ayoub	Mahmed shehry	29-11-2023 MNS-M.I.051	10:00 AM																
Received by ER	Eng. Gaber Ibrahim	MIR	<table border="1"> <tr> <th>CC</th> <th>C2</th> <th>C3</th> <th>DD</th> <th>MM</th> <th>YY</th> <th>HH</th> <th>MM</th> </tr> <tr> <td>316</td> <td>EW</td> <td>C5</td> <td>29</td> <td>11</td> <td>2023</td> <td>10</td> <td>00</td> </tr> </table>		CC	C2	C3	DD	MM	YY	HH	MM	316	EW	C5	29	11	2023	10	00
	CC	C2	C3	DD	MM	YY	HH	MM												
316	EW	C5	29	11	2023	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	Fill Layer.				
Location to be Used	From St. (0+000) to St. (0+010) (-2.50 m from ferma).				
MAR Approval No	(MNS-M.A021).	Date	22/11/2023		
Supplier Name	El Sewy – EL Hadi				
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	29/11/2023	
2					
3					
4					
Comments by: Eng. Hesham Sabry (kk)			Comments by: Eng. Gaber Ibrahim		
1. تم استلام القطاع SAND CONE 2. تم تحقيق نسبة الدمك المطلوبة .			1- F.D.T was carried- out by 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. Mahmoud Ayoub	Mahmed shehry	30/11/2023	A
QA/QC *	Eng. Hesham Sabry		30/11/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		30-11-2023	A.W.C

* Designer

** Alignment / Bridges: Culvert Only



وزارة النقل

Electrical Express train from Wadi El Natroun To Borg Elarab

Activity : Earth Work

Lab Testing Results

Date

1/12/2023

Density and Unit Weight of Soil in Place by the Sand-Cone Method – ASTM D 1556

Company:	MANSOUR ALI HASSAN	Layer NO:	M-2.50
Description :	MNS-F.L-055&REQ F.L 093	Layer Thickness:	FOT-45
Station Represented :	(0+000) (0+010)	Sample Date :	29/11/2023

Modified Proctor Testing Results

Max. Dry Density, gm/cm ³	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm ³
2.101	8.3	95%	1.490

Compaction Testing Results & Calculations

Hole No.	1							
Stations	0+010							
Wt. of Sand before Test, gm	9692							
Wt. of Sand After Test, gm	6097							
Wt. of Sand in Cone - hole, gm	3685							
Wt. of Sand in Cone	1454							
Wt. of Sand at hole, gm	2231							
Volume of the Hole, cm ³	1497							
Wt. of Soil from Hole, gm	3211							
Bulk Density of Soil, gm/cm ³	2.145							
Moisture Content, %	8.0							
Dry Density, gm/cm ³	2.023							
Compaction, (%)	96.3%							

Acceptance Criteria

Comply

Not Comply

CONSULTANT COMMENTS

Lab Contractor Eng.:-

Consultant Eng.:-

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

Contractor Company	Mansour Ali Hassan		Designer Company	(KK) Engineering Consulting Office	
Issued by Contractor	Name	Sign	Date/ Serial Number	Time	
	Eng. Mahmoud Ayoub	M. Ayoub	27-09-2023 MNS-M.I.003	12:30 PM	
Received by ER	Eng. Gaber Ibrahim	MIR	CL	CS	DD
			216	1W	CS
			MM	YY	MM
			27	09	2023
			12	30	

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

Description of Materials	Fill Layer.				
Location to be Used	From St. (316+620) to St. (316+720) Fill Layer (-5.50) m from ferma.				
MAR Approval No	(MNS-M.A001).	Date	26/09/2023		
Supplier Name	El Sewy - EL Hahdi				
Test Requirement	PLT DIN 18134	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY GVECON GROUP		
Reference Photos	No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	Plate load test	NUMBER	1	27/09/2023	
2					
3					
4					
Comments by: Eng. Hesham Sabry (kk)			Comments by: Eng. Gaber Ibrahim		
1- تم اجراء اختبار P.L.T بواسطة معمل ميلد. 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. Mahmoud Ayoub	M. Ayoub	27-09-2023	A
QA/QC *	Eng. Hesham Sabry		27/9/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C

* Designer
** Alignment / Bridges: Culvert Only

Transmittal cover sheet

Project : EET.

Date : 27/09/2023

Gentlemen,

Attached the following PLT test result:

Company : منصور علي حسن

Date of test: 27/09/2023

Location of test: Station (316+620 to 316+720)

No. of PLT reports : (1 Tests)

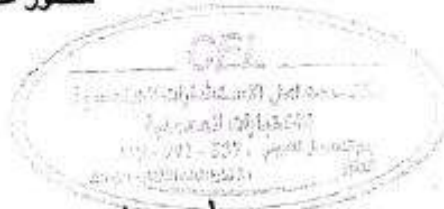
No. pages of reports: (2 pages)

Copy to main Contractor: G.A.R.B.L.T

Copy to main consultant: SYSTRA.

Copy to Contractor consultant: Khaled Kandel.

Copy to Sub contractor: منصور علي حسن



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

Company : منصور علي حسن

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 (316+620 to 316+720)
Test Date : 27/09/2023
Report Date : 27/09/2023
Type of soil : Lower Embankment
Test level : A-1-a
Report No. : 001

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



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



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www.cel-egypt.com

Report

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

Report

- Type of Soil : Lower Embankment
- 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	27/09/2023
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

Evaluation and representation of results

Test No.	Station	First Cycle	Second Cycle	E_{v2}/E_{v1} Ratio
		E_{v1} (MPa)	E_{v2} (MPa)	
1	316+670	71	159	2.2

Signature _____

البريد الإلكتروني: info@alukah.net
 رقم الهاتف: 011 438 1234
 رقم الفاكس: 011 438 1235

معنی حرف بہ

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



٣ ش الملك الأفضل
الزمالك - القاهرة
تليفون + فاكس : ٢٧٣٦٧٢٢١ - ٢٧٣٦٣٠٩٣
www.cel-egypt.com

Company Name : منصور علي حسن
 Project : Electric Express Train, Al Ain Sokhna to Marsa Matruh Priority Sector (4) - Alexandria to Borg El Arab.
 Test Date : 27/09/2023
 report date : 27/09/2023
 Location : Station 316+670
 Test No. : 01

Nonrepetitive Static Plate Load Tests of Soils
DIN 18134

Data sheet

Loading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.79	0.21	19.70	0.30	19.75	0.25	0.25
2	0.83	19.61	0.39	19.45	0.55	19.44	0.56	0.50
3	1.25	19.40	0.60	19.11	0.89	19.06	0.94	0.81
4	1.67	19.24	0.76	18.85	1.14	18.80	1.20	1.03
5	2.08	19.10	0.90	18.63	1.37	18.51	1.49	1.25
6	2.50	18.94	1.06	18.38	1.62	18.19	1.81	1.50

Unloading Stage (1)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	18.94	1.06	18.38	1.62	18.19	1.81	1.50
2	1.25	19.01	0.99	18.52	1.48	18.31	1.69	1.39
3	0.625	19.12	0.88	18.70	1.30	18.50	1.50	1.23
4	0.01	19.38	0.62	19.13	0.87	18.87	1.13	0.87

Loading Stage (2)

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.28	0.72	18.97	1.03	18.77	1.23	0.99
1	0.83	19.20	0.80	18.84	1.16	18.65	1.35	1.10
2	1.25	19.13	0.87	18.72	1.28	18.50	1.50	1.22
3	1.67	19.04	0.96	18.60	1.40	18.36	1.64	1.33
4	2.08	18.95	1.05	18.46	1.54	18.18	1.82	1.47

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



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ATERIAL INSPECTION REQUEST



شركة
الهندسة
والبناء
م.م



شركة
الهندسة
والبناء
م.م

Contractor Company	Mansour Ali Hassan			Designer Company	(KK) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/ Serial Number	Time							
	Eng. Mahmoud Ayoub	M.Ayoub	9-10-2023 MNS-M.1.010	10:00 AM							
Received by ER	Eng. Gaber Ibrahim		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				316	EW	C5	9	10	2023	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	Fill Layer.				
Location to be Used	From St. (316+620) to St. (316+720) (-4.00 m from ferma).				
MAR Approval No	(MNS-M.A003).	Date	3/10/2023		
Supplier Name	El Sewy – EL Hahdi				
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	9/10/2023	
2					
3					
4					
Comments by: Eng. Hesham Sabry (kk)			Comments by: Eng. Gaber Ibrahim		
1. تم استلام القطع SAND CONE 2. تم تحقيق نسبة الدمك المطلوبة .			1- F.D.T was carried- out by 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. Mahmoud Ayoub	M.Ayoub	10/10/2023	A
QA/QC *	Eng. Hesham Sabry		10/10/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			AWC

* Designer

** Alignment / Bridges: Culvert Only

MNS-M.1.010MNS-M.1.010

Page 1 of 1



الهيئة العامة للنقل
Ministry of Transport and Public Works

Electrical Express train from Wadi El Natroun To Borg Elarab

Activity : Earth Work

Lab Testing Results

Date

1/12/2023

Density and Unit Weight of Soil in Place by the Sand-Cone Method – ASTM D 1556

Company:	MANSOUR ALI HASSAN	Layer NO:	M-2 50
Description :	MINS-F.L.-055&REQ F.L 092	Layer Thickness:	FDT-44
Station Represented :	(316+790) (316+790)	Sample Date :	29/11/2023

Modified Proctor Testing Results

Max. Dry Density, gm/cm^3	Optimum Moisture Content, %	Degree of Compaction Required, %	Hulk Density of Specified Sand, gm/cm^3
2.101	8.3	95%	1.490

Compaction Testing Results & Calculations

Hole No.	1							
Stations	316+790							
Wt. of Sand before Test, gm	9604							
Wt. of Sand After Test, gm	5942							
Wt. of Sand in Cone – hole, gm	3862							
Wt. of Sand in Cone	1428							
Wt. of Sand at hole, gm	2434							
Volume of the Hole, cm^3	1634							
Wt. of Soil from Hole, gm	3527							
Bulk Density of Soil, gm/cm^3	2.159							
Moisture Content, %	6.3							
Dry Density, gm/cm^3	2.031							
Compaction, (%)	96.7%							

Acceptance Criteria

Comply

Not Comply

CONSULTANT COMMENTS

Lab Contractor Eng.:-

Consultant Eng.:-

المهندس الاستشاري المهندس
(أ.د. خالد قنديل)
مدير المشروع: م/ هشام محمد صبري
مشروع: القطار الكهربائي السريع
القضايح الرابع (الإمكندرية)



الهيئة العامة للغذاء والدواء
الهيئة العامة للغذاء والدواء
الهيئة العامة للغذاء والدواء

Electrical Express train from Wadi El Natroun To Borg Elarab

Activity : Earth Work

Lab Testing Results

Date

29/11/2023

Density and Unit Weight of Soil in Place by the Sand-Cone Method - ASTM D 1556

Company:	MANSOUR ALI HASSAN	Layer NO:	M-0.75
Description :	MNS-F.L-053&REQ F.L 090	Layer Thickness:	FDT-42
Station Represented :	(316+560) (316+720)	Sample Date :	28/11/2023

Modified Proctor Testing Results

Max. Dry Density, gm/cm ³	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm ³
2.131	9.5	95%	1.490

Compaction Testing Results & Calculations

Hole No.	1	2	3	4	5	6	7	
Stations	316+570	316+595	316+620	316+645	316+670	316+695	316+720	
Wt. of Sand before Test, gm	5937	9659	9375	9159	9064	8074	8714	
Wt. of Sand After Test, gm	6084	5991	5879	5243	5436	5368	4867	
Wt. of Sand in Cone + hole, gm	3783	3767	3496	3916	3628	3606	3847	
Wt. of Sand in Cone	1428	1454	1428	1454	1428	1454	1428	
Wt. of Sand at hole, gm	2355	2313	2068	2462	2200	2152	2419	
Volume of the Hole, cm ³	1581	1552	1388	1652	1477	1444	1623	
Wt. of Soil from Hole, gm	3468	3394	3037	3646	3268	3169	3548	
Bulk Density of Soil, gm/cm ³	2.194	2.186	2.188	2.207	2.207	2.194	2.185	
Moisture Content, %	6.0	6.3	6.1	3	6.5	6.3	6.2	
Dry Density, gm/cm ³	2.070	2.057	2.062	2.082	2.072	2.064	2.059	
Compaction, (%)	97.1%	96.5%	96.8%	97.7%	97.2%	96.9%	96.6%	

Acceptance Criteria

Comply

Not Comply

CONSULTANT COMMENTS

Lab Contractor Eng.:-

Consultant Eng.:-

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

4/10/81 11:00 AM

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Mahmoud Ayoub	Mohamed shehry	29/11/2023	A
QA/QC *	Eng. Hesham Sabry		29/11/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim			A.W.C



MATERIAL INSPECTION REQUEST



الهيئة العامة
للتخطيط العمراني
EGAR



الهيئة العامة
للتخطيط العمراني
EGAR

الهيئة العامة
للتخطيط العمراني
EGAR

Contractor Company	Mamour Ali Hassan		Designer Company	(KK) Engineering Consulting Office
Issued by Contractor	Name	Sign	Date/ Serial Number	Time
	Eng. Mahmoud Ayoub	Mohamed Shams	25-11-2023 MNS-M.I.045	10:00 AM
Received by ER	Eng. Gaber Ibrahim		MIR	

316	C2	C3	D0	MRA	YF	HR	MRA
316	E1W	C5	25	1.1	2023	16	50

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.		
Location to be Used	From St. (316+560) to St. (316+720) (-1.00 m from forma)-		
MAR Approval No	(MNS-M.A020).	Date	5/11/2023
Supplier Name	El Sewy - EL Hadi		
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		25/11/2023	
2					
3					
4					

Comments by: Eng. Hesham Sabry (kk)	Comments by: Eng. Gaber Ibrahim
1- تم استلام القطاع SAND CONE 2- تم تحقيق نسبة الدمك المطلوبة .	1- F.D.T was carried- out by 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. Mahmoud Ayoub	Mohamed Shams	26/11/2023	A
QA/QC *	Eng. Hesham Sabry		26/11/2023	A
GARB**	Eng. Ahmed Galal			
Employers Representative	Eng. Gaber Ibrahim		26/11/2023	A.W.C

* Designer
** Alignment / Bridges: Culvert Only