

## التقييم الفني

الهيئة العامة  
للمطرق والكباري  
(GAARB)



مشروع : اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع  
(العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع غرب النيل لتنفيذ المسافة من  
الكم 388+000الى الكم 389+000 بطول 1 كم إتجاه استكمال النجيلة .

تنفيذ : شركة دريم واي للمقاولات العامة .

إشراف : المنطقة الخامسة قطاع غرب الدلتا

### الحسابات المالية ومفصل التقييم وقيمة الخصومات:

أنه في يوم الثلاثاء الموافق 2024/03/5 وبناء على القرار الإداري 121 بتاريخ 2022/9/14 الصادر  
من السيد عميد مهندس رئيس الإدارة المركزية / منطقة غرب الدلتا ومحضر الإستلام الإبتدائي للعملية  
المؤرخ في 2023/06/06 تم عمل التقييم الفني للعملية عالياه .  
وقد اجتمعت اللجنة المشكلة من كلا من:

(رئيساً للجنة)	مدير عام المشروعات	1) المهندس/ محمد حسني فياض
(عضواً)	ممثل الهيئة	2) المهندسة/مارجريت مجدي
(عضواً)	معمل المنطقة المشرفة	3) المهندس/عبدالله عبدالمحسن
(عضواً)	مكتب: سيكترم ( د عماد نبيل ) استشاري الهيئة	4) المهندس /مازن عصامي
(عضواً)	مكتب ( اكس واي زد) استشاري المساحة بالمشروع	5) المهندس/محمد خليل
(عضواً)	الشركة المنفذة دريم واي للمقاولات العامة	6) المهندس/ السعيد محمد



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

- \*الخصم على طبقة الفلتر : لا يوجد خصم
- \*الخصم على اختبارات الدمك بطبقة الفلتر : لا يوجد خصم
- \*الخصم على النقص في السمك لطبقة الفلتر : لا يوجد خصم
- \*الخصم طبقا لمحضر الاستلام الابتدائي :-
- من الفحص البصري :-
- \*الخصم على سطح الطريق % 0.05 \* 5290154.64 = 2645.07 جنيه
- \*الخصم على اختبارات التصنيف والتدرج وال CBR لطبقة الفلتر : لا يوجد خصم
- \*القيمة المالية للخصم للجنة الاستلام الابتدائي : 2645.07 جنيهاً ( ألفان وستمئة وخمسة وأربعون جنيهاً مصرياً وسبعة قروش )

التوقيعات :



رئيس الإدارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عبد مهندس /

"هاني محمد محمود طه"



1-  
2-  
3-  
4-  
5-  
6-

قائمة الكميات الواردة بالمستخلص الختامي

مشروع : اسناد اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - عطروح) لتنفيذ اعمال الجسر الترابي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 الى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم البند وبياناته: (1-10) بالمتر المكعب اعمال توريد وفرش طبقة قلتر من الاحجار الصلبة المتدرجة ناتج تكسير كسارات والمطابقة للمواصفات واقصي حجم حبيبي مابين 20 مم ال 75 مم والا يزيد نسبة الماز من متخل 200 عن 5 % والتدرج الوارد بالاشراطات الخاصة بالمشروع وهي احجار من تجرية لوح التحميل عن 50 مجاريسكال والا يزيد نسبة الطاقد EV2 مقاس سن 1 : سن 2 : سن 4 او سن 6 بنسبة 1:1:1 والا يقل معامل المرونة بجهاز لوس الجلوس عن 45% والقلة تشمل اعمال التجارب المعملية والبند يشمل اجراء التجارب المعملية والحقلية طبقا لاصول الصناعة الممتازة وتقدير الاستشاري وتعليمات المهندس المشرف

السعر خلال شهر اكتوبر طبقا للمفاوضة بتاريخ 18/12/2023

تسليط : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

الكمية	الابعاد ( متر )		الموقع الكيلومترات		التاريخ	رقم الطلب
	مساحة المقطع	طول	الى	من		
756.2	37.81	20	388+520	388+500	12/10/2022	IR-F(04)
10911	36.37	300	389+000	388+700	25/10/2022	IR-F(02) IR-F(03) IR-F(05)
11667.200	اجمالي الكميات خلال فترة المستخلص (م)					
14000.640	يوجد نسبة هالك لغرز وتداخل السن الخاص بالقلتر تم تحديدها بمقدار 20% = المجموع الكلي للكمية المنفذ 1.2%					
14000.640	الاجمالي الكلي (م) من شهر اكتوبر					

مهندس الهيئة

م / ماري حريت مجدي



مهندس الاستشاري

مكتب XYZ  
م / محمد خليل



مهندس الشركة

م / التوحيد محمد





مشروع : اسناد اعمال الجسر الترابي والأعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - عطروح) لتنفيذ اعمال الجسر الترابي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 الى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم الهند وبياناته : (1-10) بالمتر المكعب اعمال توريد وفرش طبقة فلت من الاحجار الصلبة المتلجرة ناتج تكسير كسارات والمطابقة للمواصفات والفصي حجم حبيبي ما بين 20 مم الى 75 مم والا يزيد نسبة المار من منخل 200 عن 5 % والتدرج الوارد بالاشتراطات الخاصة بالمشروع وهي احجار من تجرية لوح التحميل عن 50 ميجاباسكال والا يزيد نسبة الفاقد EV2 مقاس سن 1 : سن 2 : سن 4 او سن 8 بنسبة 1:1:1 والا يقل معامل المرونة بجهاز لوس انجلوس عن 45% والفلة تشمل اعمال التجارب المعملية والبيند يشمل اجراء التجارب المعملية والحقلية طبقا لاصول الصناعة الممتازة وتقرير الاستشاري وتعليمات المهندس المشرف

السعر خلال شهر نوفمبر طبقا للمقاوضة بتاريخ 18/12/2023

تأليف : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاسناد والتصدير

رقم الطلب	التاريخ	الموقع الكيلومتر		الابعاد ( متر )		الكمية
		من	الى	طول	مساحة المقطع	
1R-F(08)REV2	6/11/2022	388+200	388+400	200	78.53	15706.000
15706.000	اجمالي الكميات خلال فترة المستخلص (م <sup>3</sup> )					
18847.200	يوجد نسبة هالك لغرز وتداخل السن الخاص بالفلتر تم تحديدها بمقدار 20% = المجموع الكلي للكمية المنقذة 1.2					
18847.200	الاجمالي الكلي (م <sup>3</sup> ) عن شهر نوفمبر					

مهندس الهيئة  
م / مارجريت مجدي



مهندس الاستشاري  
مكتب X72  
م / محمد خليل



مهندس الشركة  
م / السيد محمد





مشروع : اسناد اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - مطروح) لتنفيذ اعمال الجسر الترابي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 الى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم البند وبياناته : (1-10) بالمتر المكعب اعمال توريد وفرش طبقة فلتر من الاحجار الصلبة المتدرجة ناتج تكسير كسارات والمطابقة للمواصفات والقصى حجم حبيبي ما بين 20 مم الى 75 مم والا يزيد نسبة المار من منخل 200 عن 5 % والتدرج الوارد بالاشتراطات الخاصة بالمشروع وهي احجار من تجرية لوح التحميل عن 50 ميجابيسكال والا يزيد نسبة الفاقد EV2 مقاس سن 1 : سن 2 : سن 4 او سن 6 بنسبة 1:1:1. والا يقل معامل المرونة بجهاز لوس انجلوس عن 45% والغدة تشمل اعمال التجارب المعملية والبند يشمل اجراء التجارب المعملية والحقلية طبقا لاصول الصناعة الممتازة وتقرير الاستشاري وتعليمات المهندس المشرف

### علاوة مسافة النقل 97.5 كم (FILTER)

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

الكمية	الابعاد ( متر )		الموقع الكيلوميتري		التاريخ	رقم الطلب
	مساحة المقطع	طول	الى	من		
756.2	37.81	20	388+520	388+500	12/10/2022	IR-F(04)
10911	36.37	300	389+000	388+700	25/10/2022	IR-F(02) IR-F(03) IR-F(05)
15706	78.53	200	388+400	388+200	6/11/2022	IR-F(08)REV2
27373.200	اجمالي الكميات خلال فترة المستخلص (م)					
32847.840	يوجد نسبة هالك لغرز وتداخل السن الخاص بالفلتر تم تحديثها بمقدار 20% = المجموع الكلي للكمية المنفذة 1.2%					
32847.840	الاجمالي الكلي (م)					

مهندس الهيئة  
م / مارجوت مجدي



مهندس الاستشاري  
مكتب XYZ  
م / محمد خليل



مهندس الشركة  
م / السعيد محمد



مشروع : اسناد اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - مطروح) لتنفيذ اعمال الجسر الترابي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 الى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم البند وبياناته: (1-10) بالمتر المكعب اعمال توريد وفرش طبقة فلتر من الاحجار الصلبة المتدرجة ناتج تكسير كسارات والمطابقة للمواصفات واقصي حجم حبيبي ما بين 20 مم ال 75 مم والا يزيد نسبة المار من متخل 200 عن 5 % والتدرج الوارد بالاشتراطات الخاصة من تجارية لوح التحميل عن EV2 50 بالمشروع وهي احجار مقاس سن 1 : من 2 : سن 4 او سن 6 بنسبة 1:1:1. والا يقل معامل المرونة ميخانيكالك والا يزيد نسبة الفاقد بجهاز لويس الجلولس عن 45% والفئة تشمل اعمال التجارب المعملية والبند يشمل اجراء التجارب المعملية والحقلية طبقا لاصول الصناعة الممتازة وتقارير الاستشاري وتعليمات المهندس المشرف

### علاوة تحصيل الكارته والموازن

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

الكمية	الأبعاد ( متر )		الموقع الكيلومترات		التاريخ	رقم الطلب
	مساحة المقطع	طول	الى	من		
756.2	37.81	20	388+520	388+500	12/10/2022	IR-F(04)
10911	36.37	300	389+000	388+700	25/10/2022	IR-F(02) IR-F(03) IR-F(05)
15706	78.53	200	388+400	388+200	6/11/2022	IR-F(08)REV2
27373.200	اجمالي الكميات خلال فترة المستخلص (م)					
32847.840	يوجد نسبة هالك لغرز وتداخل السن الخاص بالفلتر تم تحديدها بمقدار 20% = المجموع الكلي للكمية المنقذة * 1.2					
32847.840	الاجمالي الكلي (م)					

مهندس الهيئة  
م / مارجريت مجدي



مهندس الاستشاري  
مكتب XYZ  
م / محمد خليل



مهندس الشركة  
م / السعيد محمد



قائمة الكميات الواردة بالمستخلص الختامي

مشروع : اسناد اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - مطروح) لتنفيذ اعمال الجسر الترابي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 الى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم البند وبيانه (1.3): اعمال تحميل وتوريد ونقل التربة مطابقة للمواصفات وتشغيلها باستخدام الات الترسية بسمك الازيد عن 50 سم حتى منسوب (-2.00 متر) وبسمك الازيد عن 25 سم لاستكمال المنسوب التصميمي لتشكيل الجسر الترابي والاكتاف (نسبة لحمل كاليفورنيا لا تقل عن 35%) ورشها بالمياة الاصطناعية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول الى أقصى كثافة جافة (95% من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند يجمع مشتملة طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف .

السعر خلال شهر اكتوبر طبقا للمفاوضة 18/12/2023

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

الكمية	الابعاد ( متر )		الموقع الكيلومري		التاريخ	رقم الطلب
	مساحة المقطع	طول	الى	من		
810.00	8.10	100	389+000	388+900	29/10/2022	IR-S(01)
789.00	7.89	100	388+900	388+800	29/10/2022	IR-S(02)
760.70	7.61	100	388+800	388+700	29/10/2022	IR-S(03)
2359.70	اجمالي الكميات خلال فترة المستخلص ( م <sup>3</sup> )					
2359.70	الاجمالي الكلي ( م <sup>3</sup> ) خلال شهر اكتوبر					

مهندس الهيئة  
م / مارجريت مجدي



مهندس الاستشاري  
مكتب XYZ  
م / محمد خليل



مهندس الشركة  
م / الشيخ محمد





مهندس الشركة  
م / المهندس محمد

مشروع : استناد اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - مطروح) لتنفيذ اعمال الجسر الترابي (قطاع برج العرب - العنشين) المسافة من الكم 388+000 الى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم البند وسببته (1-3): اعمال تحميل وتوريد ونقل التربة مطابقة للمواصفات وتشغيلها باستخدام آلات التسيو بسبك لا يزيد عن 50 سم حتى مسوب (-2.00 متر) ويسمك لا يزيد عن 25 سم لاستكمال المنسوب التصميمي لتشكل الجسر الترابي والاكتاف (نسبة لحمل كاليفورنيا لا تقل عن 15% ) ورشها بالمرءة الاصلية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول الى الصلابة (95% من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند بجميع مشتعلاته طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف.

(علاوة مسافة النقل للتربة بنسبة 80% من الكمية الكلية)

تنفيذ : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

رقم المطلب	التاريخ	الموقع الكيلومترى		الابعاد [ متر ]		علاوة	الكمية
		الى	من	طول	مساحة المقطع		
IR-S(01)	29/10/2022	388+900	389+000	100	8.10	0.80	648.00
IR-S(02)	29/10/2022	388+800	388+900	100	7.89	0.80	631.20
IR-S(03)	29/10/2022	388+700	388+800	100	7.61	0.80	608.56
IR-S(04)	2/11/2022	388+600	388+700	100	6.84	0.80	547.20
IR-S(05)	6/11/2022	388+900	389+000	100	2.52	0.80	201.60
IR-S(06)	12/11/2022	388+700	388+900	200	3.22	0.80	515.20
IR-S(07)	13/11/2022	388+640	388+700	60	2.64	0.80	126.72
IR-S(08)	14/11/2022	388+900	389+000	100	3.18	0.80	254.40
IR-S(09)	15/11/2022	388+800	388+900	100	3.21	0.80	256.80
IR-S(10)	15/11/2022	388+700	388+800	100	3.23	0.80	258.40
IR-S(11)	16/11/2022	388+400	388+500	100	9.04	0.80	723.20
IR-S(12)	16/11/2022	388+300	388+400	100	9.80	0.80	784.00
IR-S(13)	19/11/2022	388+640	388+700	60	3.17	0.80	152.16
IR-S(14)	19/11/2022	388+700	389+000	300	6.66	0.80	1598.40
IR-S(15)	19/11/2022	388+200	388+300	100	10.19	0.80	815.20
IR-S(16)	23/11/2022	388+500	388+640	140	12.54	0.80	1404.48
IR-S(17)	23/11/2022	388+800	389+000	200	6.22	0.80	995.20
IR-S(19)	26/11/2022	388+700	388+800	100	6.22	0.80	497.60
IR-S(REV18)	28/11/2022	388+000	388+200	200	14.67	0.80	2347.20
IR-S(REV20)	28/11/2022	388+800	389+000	200	6.04	0.80	966.40
IR-S(21)	28/11/2022	388+200	388+300	100	3.34	0.80	267.20
اجمالى الكميات خلال فترة المستخلص (م)				14599.12			
الاجمالى الكلى (م)				14599.12			

مهندس الهيئة  
م / ماريوت مجدي





مشروع : اسناد اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - مطروح) لتنفيذ اعمال الجسر الترابي (قطاع برج العرب - العلمين) المسافة من الكم 388+000 الى الكم 389+000 بطول 1 كيلو متر اتجاه الضبعة.

رقم الهند وبيالة (1-3): اعمال تحميل والوريد ونقل التربة مطابقة للمواصفات وتشغيلها باستخدام آلات التسوية لاسفلك الاوريد عن 50 سم حتى ملسوب (2.00 متر) وبمسلك الاوريد عن 25 سم لاستكمال الملسوب التجميعي لتشكيل الجسر الترابي والاكتاف بالنسبة لحمل كليفورنيا لا تقل عن 15% ورشها بالمياة الاسوانية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراست للوصول الى الامن كثافة جافة (95% من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للتصميم والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبيد بجميع مشغلاته طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف.

(علاوة مسافة النقل للرمال بنسبة 20% من الكمية الكلية)

تسقيف : شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

رقم الطلب	التاريخ	الموقع الكيلومترى		الابعاد (متر)		علاوة	الكمية
		الى	من	طول	مساحة المقطع		
IR-S(01)	29/10/2022	388+900	389+000	100	8.10	0.20	162.00
IR-S(02)	29/10/2022	388+800	388+900	100	7.89	0.20	157.80
IR-S(03)	29/10/2022	388+700	388+800	100	7.61	0.20	152.14
IR-S(04)	2/11/2022	388+600	388+700	100	6.84	0.20	136.80
IR-S(05)	6/11/2022	388+900	389+000	100	2.52	0.20	50.40
IR-S(06)	12/11/2022	388+700	388+900	200	3.22	0.20	128.80
IR-S(07)	13/11/2022	388+640	388+700	60	2.64	0.20	31.68
IR-S(08)	14/11/2022	388+900	389+000	100	3.18	0.20	63.60
IR-S(09)	15/11/2022	388+800	388+900	100	3.21	0.20	64.20
IR-S(10)	15/11/2022	388+700	388+800	100	3.23	0.20	64.60
IR-S(11)	16/11/2022	388+400	388+500	100	9.04	0.20	180.80
IR-S(12)	16/11/2022	388+300	388+400	100	9.80	0.20	196.00
IR-S(13)	19/11/2022	388+640	388+700	60	3.17	0.20	38.04
IR-S(14)	19/11/2022	388+700	389+000	300	6.66	0.20	399.60
IR-S(15)	19/11/2022	388+200	388+300	100	10.19	0.20	203.80
IR-S(16)	23/11/2022	388+500	388+640	140	12.54	0.20	351.12
IR-S(17)	23/11/2022	388+800	389+000	200	6.22	0.20	248.80
IR-S(19)	26/11/2022	388+700	388+800	100	6.22	0.20	124.40
IR-S(REV18)	28/11/2022	388+000	388+200	200	14.67	0.20	586.80
IR-S(REV20)	28/11/2022	388+800	389+000	200	6.04	0.20	241.60
IR-S(21)	28/11/2022	388+200	388+300	100	3.34	0.20	66.80
اجمال الكميات خلال فترة المستخلص (م)							3649.78
الاجمال الى الكلى (م)							3649.78

مهندس الهيئة  
م / ماريحيت مجدي



مهندس الاستشاري  
مكتب د/ عماد محمد  
م / محمد جليل

مهندس بالشركة  
م / المهندس محمد



مهندس الشركة  
م. / السيد محمد

مشروع: القطار الكهربائي السريع (العين السخنة - العاصمة الإدارية - العلمين - مطروح) قطاع غرب النيل في المسافة من الكم 388+000 إلى الكم 000+389 بطول 1 كيلو متر اتجاه الضبعة

رقم الهندسة: 2-11 بالمتر المسطح توريد وتركيب طبقة من السج العباني جيوتكستائل التداخل لا يقل عن 10% ذات وزن لا يقل عن 400 جم /م<sup>2</sup>

تستفيد: شركة دريم واي للمقاولات العامة والتوريدات العمومية والاستيراد والتصدير

رقم الطلب	المواقع الكيلومتری		الأبعاد ( متر )		كمية
	من	إلى	طول	عرض القطاع	
IR-G (05)	388+520	388+620	100	28.89	2889
IR-G (02)	388+520	388+700	180	27.80	5004
IR-G (01)	388+700	389+000	300	28.74	8622
إجمالي الكميات خلال فترة المستخلص (م <sup>2</sup> )					16515

مهندس الهيئة  
م / مارجريت مجدي



مهندس الاستشاري  
مكتب XYZ  
م / محمد خليل



مهندس الشركة  
م / السيد محمد



## نموذج رقم ٢



بشان : حصر المواد المحجزة الواردة بالمستخلص

القيود : ..... / ..... / ٢٠٢٢ المنطقة .....

التاريخ : ..... / ..... / ٢٠٢٢

إلى السيد المهندس / رئيس قطاع التنفيذ والتشييد

تحية طيبة وبعد ،،،

نتشرف بان نرفق طيبة المستخلص الختامي الخاص بعملية  
( اعمال الجسر الترابي والاعمال الصناعية للقطار الكهربائي السريع استكمال اتجاه النجيلة  
تنفيذ شركة / دريم واى للمقاولات العامة والتوريدات عقد رقم ٢٠٢٣/٢٠٢٢/٢١٦٠  
يرجى التفضل بالاحاطة والتنبيه باتخاذ ما يلزم مع التفضل من سيادتكم  
بالعلم ان المواد المحجزة المستخدمة بينها كالاتى :-

م	نوع المادة المحجزة	الوحدة	الكمية	الجهة الحصول على الخامة
١	سن	٢ م		كسارة .....
٢	آلية	٢ م	٨٧٩٧,٠٠٠	محدد المصرية
	رس	م		سجل رسم / مسرير / بون

هذا وقد تمت مراجعة ( البونات المائية / التصريح ) للكميات التي تم الحصول عليها من  
( كسارات / محاجر / تشوينات ) معتمدة ووجدت مطابقة للكميات بالمستخلص .  
يرجى التكرم من سيادتكم بالعلم والاحاطة والتنبيه باتخاذ اللازم ،،،

وتفضلوا بقبول فائق الاحترام ،،،

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



### إفادة

بالإشارة لمشروع أعمال الجسر الترابي والأعمال الصناعية لمشروع القطار الكهربائي السريع  
(برج العرب - العلمين)

العقد رقم: اتجاه استكمال النجيلة (2023/2022/2160)

في المسافة من 388+000 الي 389+000

مقاوله شركة : دريم واي للمقاولات العمومية

اشراف استشاري : مكتب د/ عماد نبيل

كمية الاتربة المستخدمة في المشروع : 8797.00 م<sup>3</sup>.

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

مدير عام المشروعات

مدير مشروع الهيئة

مدير مشروع الاستشاري

مدير مشروع الشركة

م/محمد حسني فياض

م/مارجريت مجدي

م/مازن عصامي

م/السعيد محمد

يعتمد

رئيس الادارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عميد مهندس /

" هاني محمد محمود طه "



### كشف أتاوة المحاجر

### عن كمية المواد التي تم استخدامها

مشروع أعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي  
السريع (العين السخنة- العاصمة الادارية - العلمين - مطروح )  
قطاع غرب النيل لتنفيذ المسافة من الكم 388+000 الي الكم 389+000 بطول  
1 كم اتجاه ( استكمال النجيلة )

تنفيذ : شركة دريم واي للمقاولات العمومية

أعمال تم تنفيذها حتى تاريخ 2024/3/5

كمية الاتربة المنفذة بند رقم (1-3)

بالمتر المكعب = 8797 م3

مدير مشروع الهيئة

م/ مارجريت مجدي

مدير مشروع الاستشاري

م/ مازن عصامي



مدير مشروع الشركة

م/ السعيد محمد



## محضر استلام ابتدائي

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

لتنفيذ المسافة من الكم (388+000) إلى الكم (389+000) اتجاه استكمال التجبيلة

تنفيذ شركة :- دريم واي للمقاولات العامة

إشراف : المنطقة الخامسة غرب الدلتا (الإسكندرية\_ مطروح)

استشاري الهيئة للمشروع : سبكتروم (دعماد نبيل )

انه في يوم الثلاثاء الموافق 2024/03/5 وبناءً على قرار السيد العميد مهندس/رئيس الإدارة المركزية

لمنطقة غرب الدلتا رقم (121) بتاريخ 2022/09/14 والخاص بأعمال الاستلام الابتدائي للأعمال عالياً.

فقد اجتمعت اللجنة المشكلة من كلاً من :-

- |                                |   |          |
|--------------------------------|---|----------|
| (1) المهندس/ محمد حسني فياض    | مدير عام المشروعات بالمنطقة                 | (رئيساً) |
| (2) المهندس/ مارجريت مجدي زاهر | مدير مشروع القطاع من المنطقة                | (عضواً)  |
| (3) المهندس/ عبدالله عبدالمحسن | معمل المنطقة المشرفة                        | (عضواً)  |
| (4) المهندس / مازن عصامي       | مكتب: سبكتروم ( د عماد نبيل) استشاري الهيئة | (عضواً)  |
| (5) المهندس/ محمد خليل         | مكتب ( اكس واي زد) استشاري المساحة بالمشروع | (عضواً)  |
| (6) المهندس/ السعيد محمد       | الشركة المنفذة : دريم واي للمقاولات العامة  | (عضواً)  |

وقد بدأت اللجنة أعمالها بالإطلاع على ملف العملية وكراسة الشروط والمواصفات وعقد العملية ثم انتقلت اللجنة على الطبيعة للمرور على الأعمال المنفذة ومعاينتها ظاهرياً وتم أخذ عينات أتربة من الجسر لإجراء التجارب اللازمة عليها بمعمل المنطقة وتحديد نسبة الحيوود وقد أسفر الفحص والمعاينة الظاهرية عن التالي:-

### الأعمال المنفذة والمطلوب تسليمها أعمال الحفر وأعمال الأتربة لتشكيل مسار الجسر الترابي

#### أولاً:- أعمال الحفر:-

تم التأكد من وصول الأعمال للمناسيب المطلوبة طبقاً لطلبات التسليم بالمشروع والأعمال مقبولة بصفة عامة .

#### ثانياً:- حالة السطح العلوي للجسر المنفذ:-

الأعمال مقبولة بصفة عامة وتم التأكد من الوصول للمناسيب وتحقيق الميول الجانبية للقطاع



## توصيات اللجنة :-

- (1) علي مندوب معمل المنطقة تحديد مدي الحيود بالعينات عن المواصفة العامة للمشروع وتحديد قيمة الخصم .
- (2) علي السادة استشاري القطاع (سبكتروم (دعماد نبيل )) مراجعة الحصر والتأكد من الكميات المنفذة طبقاً لطلبات الاستلام وموافقة اللجنة بالكميات والتجارب التي أجريت علي الأعمال أثناء التنفيذ.
- (3) قام مندوب استشاري المساحة بالتأكد علي المناسيب المنفذة طبقاً للتصميم المعتمد.
- (4) علي استشاري القطاع (سبكتروم (دعماد نبيل )) متابعة سلوك الأعمال خلال فترة الضمان وإبلاغ الشركة بأي عيوب تظهر لأصلاحها فوراً.

وعليه تری اللجنة قبول الأعمال حيث لا يوجد ما يعيق الاستلام الابتدائي للأعمال عاليه ويعتبر تاريخ المحضر هو تاريخ النهر الفعلي وبدء فترة الضمان للأعمال.

وعلي ذلك جري التوقيع: والمستأد والمصدق  
التوقيعات :-

(6) المهندس محمد المسبح  
(5) المهندس محمد نبيل

(4)   
(3) 

(2) 

(1) 



## صفحة اضافيه واردة من المنطقة الخامسة - غرب الدقا

اسم العملية: تنفيذ اعمال الجسر الترابى والاعمال الصناعية بقطاع العاصمة الادارية  
ضمن مشروع انشاء القطار الكهربائى السريع (العين السخنة - العاصمة  
الادارية - العلمين - مطروح) قطاع برج العرب العلمين فى المسافة من الكم ٣٨٨ الى  
الكم ٣٨٩ بطول الكم استكمال اتجاه النجيلة

اسم الشركة المنفذة: شركة شركة دريم واى للمقاولات العامة والتوريدات  
عقد العملية رقم: (٢٠٢٣/٢٠٢٢/٢١٦٠)

قيمة التعاقدية: ٥,٣٢١ مليون جنيه

تاريخ بدء العملية: ٢٠٢٣/٦/١٣

تاريخ النهو طبقا للتعاقد: ٢٠٢٤/٢/١٢

المطلوب: مد مدة المشروع ٦ اشهر ليصبح تاريخ النهو ٢٠٢٤/٨/١٢

المبررات: ورد خطاب المنطقة المشرفة والمرفق به خطاب الشركة المنفذة بشأن مد مدة العملية ٦ اشهر للاسباب الاتية

- بناءً على قرار مجلس الوزراء بالجلسة رقم (٢٥٤) بتاريخ ٢٠٢٣/٨/٣٠ بمد جميع التعاقدات الجارية تنفيذها لمدة (٦ اشهر) وذلك لمواجهة الاثار السلبية المترتبة على تداعيات الازمات العالمية الحالية والى طلب الشركة المنفذة المقدم بمررات منحها تلك المدة وموافقة المنطقة المشرفة بعد دراستها اطلب على منحها تلك المدة
- تغيير سعر صرف الدولار بشكل مفاجى اثر على ترقيبات الاعمال
- الصعوبة فى الحصول على المواد الخام
- الصعوبة فى الحصول على قطع غيار المعدات اللازمة

امداد مهندس: مهندس

مدير عام وصيانة/التنفيذ: مهندس

رئيس الادارة المركزية للضئون المالية: مهندس

رأي الإدارة القانون: مهندس

رئيس المنطقة: مهندس

رئيس الادارة المركزية لتنفيذ وصيانة: مهندس

رئيس قطاع التنفيذ والمناطق: مهندس

أوافق و يعتمد ...

الهيئة العامة للطرق والكبارى والنقل البرى

مع عدم تعيل مقابل تأخير عن الشركة

لعدم توافق مناطق ذلك ١,٩٠/١٣/٢٠٢٣

١٩/١٣/٢٠٢٣

التوقيع: لواء مهندس / حسام الدين مصطفى  
رئيس الهيئة العامة للطرق والكبارى

## مقايمة ختامية

بخصوص :- اعمال الجسر القرايى والاعمال الصناعيه لمشروع القطار

الكهربائى السريع بطول ١ كم استكمال اتجاه النجيلة

مقابلة :- شركة دريم واى للمقاولات العامة والتوريدات العمومية

بمناسبة انتهاء الاعمال الخاصة بالعملية عالية وعمل المستخلص الختامية

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

بشود العملية باجمالى مبلغ ٥٢٩.١٥٤.٦٤ جنيه (فقط وقدره خمسة مليون مئتان وتسعون الف مائة اربعة

وخمسون جنيها ١٠٠/٦٤ لا غير )

مدير عام المشروعات

مهندس / المشرف على تنفيذ العملية

رسم : ١٠٠/٦٤

التوقيع : /

رسم : ١٠٠/٦٤

التوقيع : /

رئيس الادارة المركزية

منطقة غرب الدلتا

(بالاسكندرية/ مرسى مطروح)

عميد مهندس / " هانى محمد محمود طه "





[illegible]



# REQUEST to POUR CONCRETE



## Green Line

Location Name		Contractor Company		Designer Company	
Km 388+000 to 389+000 (REV 29)		DREAM WAY		SPECTRUM	
Km 388+183.86 to 389+183.86 (REV 32)		SS-B-DW			
Contractor ISSUED	Name	Sign	Date	Designation	
	Eng. El Saeed Mohammed		8/03/2024	9:00 AM	
Contractor Reference	IR FOR CONCRETE (SS-B-DW)(R-PC-13)				Revision 00
THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW					
Mix Approval Reference					
CONTRACTOR	Concrete Pour Title	(388+964 to 389+000) (REV 29) (389+147.86 to 389+183.86) (REV 32) Inspection and Surveying for Slope Protection Right Side (Bottom Beam)			
	Concrete Type:	Grout Mix <input type="checkbox"/>	Lean Mix <input type="checkbox"/>	Structural Mix <input checked="" type="checkbox"/>	Grade: C 25
	PRESTART CHECKLIST <input checked="" type="checkbox"/> plus attachments				
	IR Approved	(R.SP13-BC)	Plant & equipment available	<input checked="" type="checkbox"/>	
	Mix Approved	<input checked="" type="checkbox"/>	Back up equipment available	<input checked="" type="checkbox"/>	
Setting out Survey Approved	<input checked="" type="checkbox"/>	Cast in items secure	<input checked="" type="checkbox"/>		
Temp Works Approved	<input checked="" type="checkbox"/>	Access route clear	<input checked="" type="checkbox"/>		
Formwork Checked	<input checked="" type="checkbox"/>	Work area safe to progress			
Start Time for Pour:		Concrete Volume: 10.80 m³			
Contractor Approve Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date	
	Eng. EL SAEED MOHAMMED		Mechanical	8/03/2024	
			Electrical		
			Plumbing		
			Systems		
Contractor Comments:					

Note: All boxes must be completed or marked N/A where applicable. Permission to proceed does not relieve contractor from full compliance with contractual obligation.

ER	ER Received	Name	Sign	Date	Designation	
	ER Expert Agree Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date	
			Mechanical			
			Electrical			
			Plumbing			
ALL	ER Comments:					
	1-pouring done under supervision of GARB Consultant					
	2-Find approved subjected to 28 days test result					
	3- wait for fiber M.A.R APPROVAL					
	4- contractor have to add fiber in site					
ALL	Permission to Proceed					
	Organisation	Name	Sign	Designation	Date	A-AWC-R
	Contractor QA/QC	Eng.Mazen Esamy			8/03/2024	A
	GARB*	Eng.Margret Magdy				
	Employer Representative	Eng.Alaa Abd-Allatif			8-3-2024	AWC

\* Alignment / Bridges/ Culverts Only



Green Line

Location Name

Km 388+000 to 389+000 (REV 29)  
Km 388+183.86 to 389+183.86 (REV 32)

Contracted Company  
DREAM WAY  
(S-B-DW)

Designate Company  
SPECTRUM

Contractor  
ISSUED

Name  
Eng. El Saied  
Mohammed

Sign

Date  
8/03/2024

Designation  
9:00 AM

Contractor  
Reference

IR FOR CONCRETE

Revision

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Mix Approval Reference

Concrete Pour Title

Concrete Type

IR Approved

Mix Approved

Setting out Survey Approved

Temp Works Approved

Formwork Checked

Start Time for Pour

Concrete Volume

Contractor  
Approve Pour  
Ready to Start  
Delete if Not  
Applicable

Name  
Eng. EL SAIED MOHAMMED

Sign

Designation  
Mechanical  
Electrical  
Plumbing  
Systems

Date  
8/03/2024

Contractor Comments

ER

ER Reviewed

ER Expert  
Agree Pour  
Ready to Start  
Delete if Not  
Applicable

Name

Sign

Designation

Date

ER Comments

1-pouring done under supervision of GABA (8/3/2024)  
2-find approved subjected to 28 days test (8/3/2024)

ALL

Permission to Proceed

Designation

Date

A-AWCH

Contractor DA/OC

Name  
Eng. Mazen Essam

Sign

Designation

Date  
8/03/2024

A

QA/QC

Name  
Eng. Margaret Mngdy

Sign

Designation

Date

Employer  
Representative

Name  
Eng. Alaa Abd Alhadi

Sign

Designation

Date  
8-3-2024

Awws

Project No.: 15  
 Concrete Class: 250  
 Quantity: 9 M  
 Customer Name: darsanay  
 Tax Office:  
 Charter:  
 Charter Address:  
 Driver Name:

Date: 8/9/2014  
 Time: 9:05:12 AM  
 Customer Address: darsanay  
 Tax No.: 92  
 Service:  
 Transmitt: 5

Material Name	Formula Required	Total Required	Required With Inventory	Inventory %	Total Inventory	Tolerance	Difference %	Offence Rate
ASK1	680	6120	6120	0%	6797	0	0.1%	1%
ASK2	0	0	0	0%	0	0	0.0%	1%
ASK3	450	3150	3150	0%	3156	0	0.2%	1%
ASK4	620	4550	4550	0%	4550	0	0.2%	1%
WATER	185	1155	1155	0%	1160	0	0.4%	1%
AD01	5.5	18.5	18.5	0%	18.4	0	0.3%	1%
AD02	0	0	0	0%	0	0	0.0%	1%
AD03	0	0	0	0%	0	0	0.0%	1%
CMT	300	2450	2450	0%	2457	0	0.3%	1%
TOTAL	2200.5	17603.5	17603.5	100.0%	18117.4	0	0.3%	1%



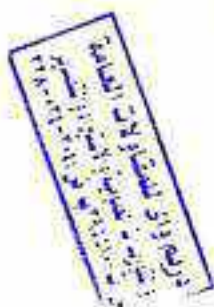
تاريخ: 8/9/2014  
 وقت: 9:05:12 AM  
 الموقع: الدارساناي



Product No: 16  
Concrete Class: 350  
Quantity: 9 M  
Customer Name: drayman  
Tax Office:  
Contractor:  
Contract Address:  
Owner Name:

Date: 8/3/2018  
Time: 9:10:18 AM  
Customer Address: 91  
Tax No:  
Service:  
Telephone: 5

Material Name	Forecast Required	Total Required	Forecast With Inventory	Inventory % Measured	Total Measured	Source	Difference %	Difference Meters
ACR1	680	6120	6120	DN	6781.5	0	0.0%	1%
ACR2	0	0	0	DN	0	0	0.0%	1%
ACR3	450	3150	3150	DN	3150	0	0.0%	1%
ACR4	650	4650	4550	DN	4551	0	0.0%	1%
WATER	165	1155	1155		1157	0	0.2%	1%
AD01	5.5	38.5	38.5		38.7	0	0.3%	1%
AD02	0	0	0		0	0	0.0%	1%
CM1	250	2450	2450		2459	0	0.4%	1%
TOTALS:	2100.5	17463.5	17463.5		16120.2			



Date	8/2/2014
Time	15:01:11 AM
Customer Address:	
Tax No.	91
Service	
Transmitted	5



رقم الوثيقة: ١٢٣٤٥٦٧٨٩٠  
تاريخ: ١٤٤٥/١٢/١٠  
موقع: القاهرة

# REQUEST to POUR CONCRETE



## Green Line

CONTRACTOR	Location Name		Contractor Company		Designer Company		
	Km 388+000 to 389+000 (REV 29) Km 388+183.86 to 389+183.86 (REV 32)		DREAM WAY (SS-B-DW)		SPECTRUM		
	Contractor ISSUED	Name	Sign	Date	Designation		
		Eng. El Saeed Mohammed		25/01/2024	9:00 AM		
	Contractor Reference	IR FOR CONCRETE (SS-B-DW)(R-SP3-3)				Revision 00	
	THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW						
	Mix Approval Reference						
	Concrete Pour Title		(388+132 to 388+172) (REV 29) (388+315.86 to 388+355.86) (REV 32) Inspection and Surveying for Slope Protection Right Side (Bottom Beam)				
	Concrete Type:		Grout Mix <input type="checkbox"/>	Lean Mix <input type="checkbox"/>	Structural Mix <input checked="" type="checkbox"/>	Grade: C 25	
	PRESTART CHECKLIST <input checked="" type="checkbox"/> plus attachments						
IR Approved		(R.SP3-BC)	Plant & equipment available		<input checked="" type="checkbox"/>		
Mix Approved		<input checked="" type="checkbox"/>	Back up equipment available		<input checked="" type="checkbox"/>		
Setting out Survey Approved		<input checked="" type="checkbox"/>	Cast in items secure		<input checked="" type="checkbox"/>		
Temp Works Approved		<input checked="" type="checkbox"/>	Access route clear		<input checked="" type="checkbox"/>		
Formwork Checked		<input checked="" type="checkbox"/>	Work area safe to progress		<input checked="" type="checkbox"/>		
Start Time for Pour:				Concrete Volume:		12.00 m³	
CONTRACTOR	Contractor Approve Pour Ready to Start. Delete if Not Applicable	Name	Sign	Designation	Date		
		Eng. EL SAEED MOHAMMED		Mechanical	25/01/2024		
				Electrical			
				Plumbing			
				Systems			
Contractor Comments:							

Note: All boxes must be completed or marked N/A where applicable. Permission to proceed does not relieve contractor from full compliance with contractual obligation.

ER	ER Received	Name	Sign	Date	Designation		
	ER Expert Agree Pour Ready to Start. Delete if Not Applicable	Name	Sign	Designation	Date		
				Mechanical			
				Electrical			
				Plumbing			
ALL	Permission to Proceed	Organisation	Name	Sign	Designation	Date	A-AWC-R
		Contractor QA/QC	Eng. Mazen Esamy			25/01/2024	A
		GARB*	Eng. Margret Magdy				
		Employer Representative	Eng. Alaa Abd-Allatif			25-1-2024	AWC

\* Alignment / Bridges/ Culverts Only



# REQUEST to POUR CONCRETE



## Green Line

Location Name		Contractor Company		Designer Company	
Km 388+000 to 389+000 (REV 29)		DREAM WAY		SPECTRUM	
Km 388+183.86 to 389+183.86 (REV 32)		(55-B-DW)			
Contractor ISSUED	Name	Sign	Date	Designation	
	Eng. El Saeed Mohammed		25/01/2024	9:00 AM	
Contractor Reference	IR FOR CONCRETE (55-B-DW) (R.SP-03)				Revision
THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW					
Mix Approval Reference					
Concrete Pour Title: (388+132 to 388+172) (REV 29)					
(388+315.86 to 388+355.86) (REV 32)					
Inspection and Surveying for Slope Protection Right Side ( Top Slabs and Slope )					
Concrete Type: Grout Mix <input type="checkbox"/> Lean Mix <input type="checkbox"/> Structural Mix <input type="checkbox"/> Grade:					
PRESTART CHECKLIST <input checked="" type="checkbox"/> plus attachments					
IR Approved		(R.SP3-TC)	Plant & equipment available		
Mix Approved			Back up equipment available		
Setting out Survey Approved			Cast in items secure		
Temp Works Approved			Access route clear		
Formwork Checked			Work area safe to progress		
Start Time for Pour:			Concrete Volume: 22.03 m³		
Contractor Approve Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date	
	Eng.EL SAEED MOHAMMED		Mechanical	25/01/2024	
			Electrical		
			Plumbing		
			Systems		
Contractor Comments:					

Note: All boxes must be completed or marked N/A where applicable. Permission to proceed does not relieve contractor from full compliance with contractual obligation.

ER	ER Received	Name	Sign	Date	Designation
	ER Expert Agree Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date
			Mechanical		
			Electrical		
		Plumbing			
		Systems			
ER Comments:					
1-pouring done under supervision of GARB Consultant					
2-Final approved subjected to 28 days test result					
ALL	Permission to Proceed				
	Organisation	Name	Sign	Designation	Date
	Contractor QA/QC	Eng.Mazen Esamy			25/01/2024
	GARB*	Eng.Margret Magdy			
	Employer Representative	Eng.Alaa Abd-Allatif			26-1-2024

\* Alignment / Bridges/ Culverts Only

Product No: 16
   
 Concrete Class : 350
   
 Quantity: 9 M
   
 Customer Name: dreamway
   
 Tax Office:
   
 Chantier:
   
 Chantier Address:
   
 Driver Name:

Date: 26/1/2024
   
 Time: 9:03:12 AM
   
 Customer Address: alamein
   
 Tax No: 91
   
 Service:
   
 Transmitter: 5

Material Name/s	Formula Required	Total Required	Required With Humidity	Humidity %	Total Measurement	Tolerance	Difference %	Difference Max%
AGR1	680	6120	6120	0%	4757	0	0.1%	1%
AGR2	0	0	0	0%	0	0	0.0%	1%
AGR3	450	3150	3150	0%	3156	0	0.2%	1%
AGR4	680	4550	4550	0%	4559	0	0.2%	1%
WATER	165	1155	1155		1160	0	0.4%	1%
ADD1	5.5	38.5	38.5		38.4	0	0.3%	1%
ADD2	0	0	0		0	0	0.0%	1%
CM1	350	2450	2450		2457	0	0.3%	1%
TOTALS :	2300.5	17463.5	17463.5		16127.4			







Product No: 16  
Concrete Class: 350  
Quantity: 9 M  
Customer Name: dreamway  
Tax Office:  
Chantler:  
Chantler Address:  
Driver Name:

Date: 26/1/2024  
Time: 10:07:12 AM  
Customer Address: alamein  
Tax No: 91  
Service:  
Transmitter: 5

Material Names	Formula Required	Total Required	Required With Humidity	Humidity %	Total Measurement	Tolerance	Difference %	Difference Max%
AGR1	680	6120	6120	0%	4766	0	0.1%	1%
AGR2	0	0	0	0%	0	0	0.0%	1%
AGR3	450	3150	3150	0%	3158	0	0.3%	1%
AGR4	650	4550	4550	0%	4558	0	0.2%	1%
WATER	165	1155	1155		1156	0	0.1%	1%
ADD1	5.5	38.5	38.5		38.7	0	0.5%	1%
ADD2	0	0	0		0	0	0.0%	1%
CM1	350	2450	2450		2455	0	0.2%	1%
TOTALS :	2300.5	17463.5	17463.5		16131.7			



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# REQUEST to POUR CONCRETE



## Green Line

CONTRACTOR	Location Name		Contractor Company		Designer Company		
	Km 388+000 to 389+000 (REV 29) Km 388+183.86 to 389+183.86 (REV 32)		DREAM WAY (SS-B-DW)		SPECTRUM		
	Contractor ISSUED	Name	Sign	Date	Designation		
		Eng. El Saeed Mohammed		07/02/2024	9:00 AM		
	Contractor Reference	IR FOR CONCRETE (SS-B-DW)(R-PC-06)				Revision 00	
	THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW						
	Mix Approval Reference						
	Concrete Pour Title		(388+280 to 388+316) (REV 29) (388+463.86 to 388+499.86) (REV 32) Inspection and Surveying for Slope Protection Right Side (Bottom Beam)				
	Concrete Type:		Grout Mix <input type="checkbox"/>	Lean Mix <input type="checkbox"/>	Structural Mix <input checked="" type="checkbox"/>	Grade: C25	
	PRESTART CHECKLIST <input checked="" type="checkbox"/> plus attachments						
IR Approved		(R.SP6-BC)	Plant & equipment available		<input checked="" type="checkbox"/>		
Mix Approved		<input checked="" type="checkbox"/>	Back up equipment available		<input checked="" type="checkbox"/>		
Setting out Survey Approved		<input checked="" type="checkbox"/>	Cast in items secure		<input checked="" type="checkbox"/>		
Temp Works Approved		<input checked="" type="checkbox"/>	Access route clear				
Formwork Checked		<input checked="" type="checkbox"/>	Work area safe to progress				
Start Time for Pour:				Concrete Volume:		10.80 m³	
CONTRACTOR	Contractor Approve Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date		
		Eng. EL SAEED MOHAMMED		Mechanical	07/02/2024		
				Electrical			
				Plumbing			
				Systems			
Contractor Comments:							

Note: All boxes must be completed or marked N/A where applicable. Permission to proceed does not relieve contractor from full compliance with contractual obligation.

ER	ER Received	Name	Sign	Date	Designation		
	ER Expert Agree Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date		
				Mechanical			
				Electrical			
				Plumbing			
ALL	Permission to Proceed	ER Comments:					
		1-pouring done under supervision of GARB Consultant.					
		2-Find approved subjected to 28 days test result.					
		3- wait for Fiber MAR Approval					
		4- contractor have to add fiber in site					
ALL	Organisation	Name	Sign	Designation	Date	A-AWC-R	
		Contractor QA/QC	Eng. Mazen Esamy			07/02/2024	A
		GARB*	Eng. Margret Magdy				
		Employer Representative	Eng. Alaa Abd-Allatif			7-2-2024	AWC

\* Alignment / Bridges/ Culverts Only



# REQUEST to POUR CONCRETE



## Green Line

Location Name		Contractor Company		Designer Company	
Km 388+000 to 389+000 (REV 29) Km 388+183.86 to 389+183.86 (REV 32)		DREAM WAY (SS-B-DW)		SPECTRUM	
Contractor ISSUED	Name	Sign	Date	Designation	
	Eng. El Saeed Mohammed		07/02/2024	9:00 AM	
Contractor Reference	IR FOR CONCRETE (S5-B-DW) (A-SP-06)				Revision
THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW					
Mix Approval Reference					
Concrete Pour Title		(388+280 to 388+316) (REV 29) (388+463.86 to 388+499.86) (REV 32) Inspection and Surveying for Slope Protection Right Side ( Top Slabs and Slope )			
Concrete Type:	Grout Mix <input type="checkbox"/>	Lean Mix <input type="checkbox"/>	Structural Mix <input type="checkbox"/>	Grade:	
PRESTART CHECKLIST <input checked="" type="checkbox"/> plus attachments					
IR Approved	(R.SPG-TC)	Plant & equipment available			
Mix Approved		Back up equipment available			
Setting out Survey Approved		Cast in items secure			
Temp Works Approved		Access route clear			
Formwork Checked		Work area safe to progress			
Start Time for Pour:		Concrete Volume:		17.46 m³	
Contractor Approve Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date	
	Eng.EL SAEED MOHAMMED		Mechanical	07/02/2024	
			Electrical		
			Plumbing		
			Systems		
Contractor Comments:					

Note: All boxes must be completed or marked N/A where applicable. Permission to proceed does not relieve contractor from full compliance with contractual obligation.

ER	ER Received	Name	Sign	Date	Designation
	ER Expert Agree Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date
			Mechanical		
			Electrical		
		Plumbing			
		Systems			
ER Comments:					
1-pouring done under supervision of GARBU Consultant.					
2-Find approved subjected to 28 days test result.					
ALL	Permission to Proceed				
	Organisation	Name	Sign	Designation	Date
	Contractor QA/QC	Eng.Mazen Esamy			07/02/2024
	GARB*	Eng.Margret Magdy			
	Employer Representative	Eng.Alaa Abd-Allah			7-2-2024

\* Alignment / Bridges/Culverts Only



521-170-230  
CR 25930

Product No: 16  
Concrete Class: 350  
Quantity: 9 M  
Customer Name: dreamway  
Tax Office:  
Chantier:  
Chantier Address:  
Driver Name:

Date: 7/2/2024  
Time: 9:03:12 AM  
Customer Address: alamein  
Tax No: 95  
Service:  
Transmitter: S

Material Names	Formula Required	Total Required	Required With Humidity	Humidity %	Total Measurement	Tolerance	Difference %	Difference Max%
AGR1	680	6120	6120	0%	4766	0	0.1%	1%
AGR2	0	0	0	0%	0	0	0.0%	1%
AGR3	450	3150	3150	0%	3152	0	0.1%	1%
AGR4	650	4550	4550	0%	4557	0	0.2%	1%
WATER	165	1155	1155		1159	0	0.3%	1%
ADD1	5.5	38.5	38.5		38.6	0	0.3%	1%
ADD2	0	0	0		0	0	0.0%	1%
CM1	350	2450	2450		2459	0	0.4%	1%
TOTALS:	2300.5	17463.5	17463.5		16131.6			



Product No: 16  
Concrete Class: 350  
Quantity: 9 M  
Customer Name: dreamway  
Tax Office:  
Chantier:  
Chantier Address:  
Driver Name:

Date: 7/2/2024  
Time: 10:33:12 AM  
Customer Address: alamein  
Tax No: 91  
Service:  
Transceiver: 5

Material Names	Formula Required	Total Required	Required With Humidity	Humidity %	Total Measurement	Tolerance	Difference %	Difference Max%
AGR1	680	6120	6120	0%	4766	0	0.1%	1%
AGR2	0	0	0	0%	0	0	0.0%	1%
AGR3	450	3150	3150	0%	3155	0	0.2%	1%
AGR4	660	4550	4550	0%	4553	0	0.1%	1%
WATER	165	1155	1155		1157	0	0.2%	1%
ADD1	5.5	38.5	38.5		38.7	0	0.5%	1%
ADD2	0	0	0		0	0	0.0%	1%
CM1	350	2450	2450		2456	0	0.2%	1%
TOTALS :	2300.5	17463.5	17463.5		16125.7			





Product No: 16  
Concrete Class: 350  
Quantity: 9 M  
Customer Name: dreamway  
Tax Office:  
Chantier:  
Chantier Address:  
Driver Name:

Date: 7/2/2024  
Time: 11:03:12 AM  
Customer Address: alamein  
Tax No: 91  
Service:  
Transmitter: S

Material Names	Formula Required	Total Required	Required With Humidity	Humidity %	Total Measurement	Tolerance	Difference %	Difference Max%
AGR1	680	6120	6120	0%	4766	0	0.1%	1%
AGR2	0	0	0	0%	0	0	0.0%	1%
AGR3	450	3150	3150	0%	3155	0	0.2%	1%
AGR4	650	4550	4550	0%	4570	0	0.4%	1%
WATER	165	1155	1155		1157	0	0.2%	1%
ADD1	5.5	38.5	38.5		38.6	0	0.3%	1%
ADD2	0	0	0		0	0	0.0%	1%
CM1	350	2450	2450		2456	0	0.2%	1%
TOTALS:	2300.5	17463.5	17463.5		16142.6			



Product No: 16 Date: 7/2/2014  
Concrete Class: 350 Time: 11:53:12 AM  
Quantity: 9 M Customer Address: alamein  
Customer Name: dreamway Tax No: 91  
Tax Office: Service:  
Chantler: Transceiver: 5  
Chantler Address:  
Driver Name:

Material Names	Formula Required	Total Required	Required With Humidity	Humidity %	Total Measurement	Tolerance	Difference %	Difference Max%
AGR1	680	6120	6120	0%	4771	0	0.2%	1%
AGR2	0	0	0	0%	0	0	0.0%	1%
AGR3	450	3150	3150	0%	3149	0	0.0%	1%
AGR4	650	4550	4550	0%	4550	0	0.0%	1%
WATER	165	1155	1155		1163	0	0.7%	1%
ADD1	5.5	38.5	38.5		38.6	0	0.3%	1%
ADD2	0	0	0		0	0	0.0%	1%
CM1	350	2450	2450		2455	0	0.2%	1%
TOTALS:	2300.5	17463.5	17463.5		16126.6			

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• REQUEST to  
POUR  
CONCRETE



Green Line

Location Name		Contractor Company	Designer Company	
Km 388+000 to 389+000 (REV 29)		DREAM WAY	SPECTRUM	
Km 388+183.86 to 389+183.86 (REV 32)		(S5-B-DW)		
Contractor ISSUED	Name	Sign	Date	Designation
	Eng. El Saeed Mohammed		06/02/2024	9:00 AM
Contractor Reference	IR FOR CONCRETE (S5-B-DWXR-PC-05)			Revision 60
THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW				
Mix Approval Reference				
Concrete Pour Title	(388+240 to 388+280) (REV 29) (388+423.86 to 388+463.86) (REV 32) Inspection and Surveying for Slope Protection Right Side ( Top Slabs and Slope )			
Concrete Type:	Grout Mix <input type="checkbox"/>	Lean Mix <input type="checkbox"/>	Structural Mix <input checked="" type="checkbox"/>	Grade: C25
PRESTART CHECKLIST <input checked="" type="checkbox"/> plus attachments				
IR Approved	(R.SP5-TC)	Plant & equipment available	<input checked="" type="checkbox"/>	
Mix Approved	<input checked="" type="checkbox"/>	Back up equipment available	<input checked="" type="checkbox"/>	
Setting out Survey Approved	<input checked="" type="checkbox"/>	Cast in items secure	<input checked="" type="checkbox"/>	
Temp Works Approved	<input checked="" type="checkbox"/>	Access route clear	<input checked="" type="checkbox"/>	
Formwork Checked	<input checked="" type="checkbox"/>	Work area safe to progress	<input checked="" type="checkbox"/>	
Start Time for Pour:		Concrete Volume:	15.49 m³	
Contractor Approve Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date
	Eng.EL SAEED MOHAMMED		Mechanical	06/02/2024
			Electrical	
			Plumbing	
			Systems	
Contractor Comments:				

Note: All boxes must be completed or marked N/A where applicable. Permission to proceed does not relieve contractor from full compliance with contractual obligation.

ER	ER Received	Name	Sign	Date	Designation
	ER Expert Agree Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date
			Mechanical		
			Electrical		
		Plumbing			
		Systems			
ER Comments:					
1-pouring done under supervision of GARB Consultant					
2-Find approved subjected to 28 days test result					
ALL	Permission to Proceed				
	Organisation	Name	Sign	Designation	Date
	Contractor QA/QC	Eng.Mazen Esamy			06/02/2024
	GARB*	Eng.Margret Magdy			
	Employer Representative	Eng.Alaa Abd-Allatif			6-2-2024
					AWC-R

\* Alignment / Bridges/ Culverts Only



# REQUEST to POUR CONCRETE



## Green Line

CONTRACTOR	Location Name		Contractor Company		Designer Company		
	Km 388+000 to 389+000 (REV 29)		DREAM WAY		SPECTRUM		
	Km 388+183.86 to 389+183.86 (REV 32)		(S5-B-DW)				
	Contractor ISSUED	Name	Sign	Date	Designation		
		Eng. El Saeed Mohammed		06/02/2024	9:00 AM		
	Contractor Reference	IR FOR CONCRETE (S5-B-DW) (R-SP-05)				Revision	
	THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW						
	Mix Approval Reference						
	Concrete Pour Title		(388+240 to 388+280) (REV 29) (388+423.86 to 388+463.86) (REV 32) Inspection and Surveying for Slope Protection Right Side (Bottom Beam)				
	Concrete Type:		Grout Mix <input type="checkbox"/>	Lean Mix <input type="checkbox"/>	Structural Mix <input type="checkbox"/>	Grade:	
PRESTART CHECKLIST <input checked="" type="checkbox"/> plus attachments							
IR Approved		(R.SP5-BC)		Plant & equipment available			
Mix Approved				Back up equipment available			
Setting out Survey Approved				Cast in items secure			
Temp Works Approved				Access route clear			
Formwork Checked				Work area safe to progress			
Start Time for Pour:						Concrete Volume: 12 m <sup>3</sup>	
ER	Contractor Approve Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date		
		Eng. EL SAEED MOHAMMED		Mechanical	06/02/2024		
				Electrical			
				Plumbing			
				Systems			
Contractor Comments:							

Note: All boxes must be completed or marked N/A where applicable. Permission to proceed does not relieve contractor from full compliance with contractual obligation.

ER	ER Received	Name	Sign	Date	Designation	
	ER Expert Agree Pour Ready to Start Delete if Not Applicable	Name	Sign	Designation	Date	
				Mechanical		
				Electrical		
				Plumbing		
				Systems		
ER Comments:						
1-pouring done under supervision of GARBU Consultant						
2-Find approved subjected to 28 days test result.						
ALL	Permission to Proceed					
	Organisation	Name	Sign	Designation	Date	A-AWC-R
	Contractor QA/QC	Eng. Mazen Esamy			06/02/2024	A
	GARB*	Eng. Margret Magdy				
	Employer Representative	Eng. Alaa Abd-Allah			6-2-2024	Awc

\* Alignment / Bridges/ Culverts Only

Product No: 15  
Concrete Class: 350  
Quantity: 9 M  
Customer Name: dreamway  
Tax Office:  
Chandler:  
Chandler Address:  
Driver Name:

Date: 6/2/2024  
Time: 9:03:12 AM  
Customer Address: alamein  
Tax No: 51  
Service:  
Transmitter: 5

Material Names	Formula Required	Total Required	Required With Humidity	Humidity %	Total Measurement	Tolerance	Difference %	Difference Max%
AGR1	680	6120	6120	0%	4757	0	0.1%	1%
AGR2	0	0	0	0%	0	0	0.0%	1%
AGR3	450	3150	3150	0%	3156	0	0.2%	1%
AGR4	650	4550	4550	0%	4559	0	0.2%	1%
WATER	165	1155	1155		1160	0	0.4%	1%
ADD1	5.5	38.5	38.5		38.4	0	0.3%	1%
ADD2	0	0	0		0	0	0.0%	1%
CM1	350	2450	2450		2457	0	0.3%	1%
TOTALS :	2300.5	17463.5	17463.5		16127.4			



Product No: 16
   
 Concrete Class: 350
   
 Quantity: 9 M
   
 Customer Name: dreamway
   
 Tax Office:
   
 Client:
   
 Client Address:
   
 Driver Name:

Date: 6/2/2024
   
 Time: 9:35:14 AM
   
 Customer Address: alamein
   
 Tax No: 91
   
 Service:
   
 Transceiver: 5

Material Names	Formula Required	Total Required	Required With Humidity	Humidity %	Total Measurement	Tolerance	Difference %	Difference Max%
AGR1	680	6120	6120	0%	4761.5	0	0.0%	1%
AGR2	0	0	0	0%	0	0	0.0%	1%
AGR3	450	3150	3150	0%	3150	0	0.0%	1%
AGR4	650	4550	4550	0%	4563	0	0.3%	1%
WATER	165	1155	1155		1157	0	0.2%	1%
ADD1	5.5	38.5	38.5		38.7	0	0.3%	1%
ADD2	0	0	0		0	0	0.0%	1%
CM1	350	2450	2450		2459	0	0.4%	1%
TOTALS :	2300.5	17463.5	17463.5		16129.2			





Product No: 16
   
 Concrete Class: 350
   
 Quantity: 9 M
   
 Customer Name: dreamway
   
 Tax Office:
   
 Chantier:
   
 Chantier Address:
   
 Driver Name:

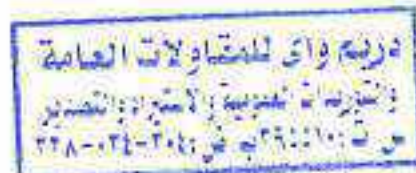
Date: 6/2/2024
   
 Time: 10:07:12 AM
   
 Customer Address: alamein
   
 Tax No: 91
   
 Service:
   
 Transmitter: 5

Material Names	Formula Required	Total Required	Required With Humidity	Humidity %	Total Measurement	Tolerance	Difference %	Difference Maks
AGR1	680	6120	6120	0%	4766	0	0.1%	1%
AGR2	0	0	0	0%	0	0	0.0%	1%
AGR3	450	3150	3150	0%	3158	0	0.3%	1%
AGR4	650	4550	4550	0%	4558	0	0.2%	1%
WATER	165	1155	1155		1156	0	0.1%	1%
ADD1	5.5	38.5	38.5		38.7	0	0.5%	1%
ADD2	0	0	0		0	0	0.0%	1%
CM1	350	2450	2450		2455	0	0.2%	1%
TOTALS :	2300.5	17463.5	17463.5		16131.7			



Product No: 16 Date: 6/2/2024  
Concrete Class: 350 Time: 11:01:12 AM  
Quantity: 9 M Customer Address: alamein  
Customer Name: dreamway Tax No: 91  
Tax Officer: Service:  
Chantler: Transmitter: S  
Chantler Address:  
Driver Name:

Material Names	Formula Required	Total Required	Required With Humidity	Humidity %	Total Measurement	Tolerance	Difference %	Difference Max%
AGR1	680	6120	6120	0%	4766	0	0.1%	1%
AGR2	0	0	0	0%	0	0	0.0%	1%
AGR3	450	3150	3150	0%	3155	0	0.2%	1%
AGR4	650	4550	4550	0%	4557	0	0.2%	1%
WATER	165	1155	1155		1157	0	0.2%	1%
ADD1	5.5	38.5	38.5		38.7	0	0.5%	1%
ADD2	0	0	0		0	0	0.0%	1%
CM1	350	2450	2450		2456	0	0.2%	1%
TOTALS:	2300.5	17463.5	17463.5		16129.7			



# Submission of TEST RESULTS



Location Name Km 388+000 to 389+000 Km Km 388+183.86 to 389+183.86 Km		Contractor Company DREAM WAY FOR GENERAL CONTRACTING		Designer Company SPECTRUM	
Name Eng. ELSAEED MOHAMMED		Sign 		Date/ Serial Number 04/04/2024 SS-B-DW	
Issued by Contractor		Time 12 PM		Revision 12 PM	
Contractor Reference EET-EW-PNA-SPECTRUM		Revision 12 PM		Revision 12 PM	
Received by ER		SMA		KIP 288 C.W 0.1 5 00 2024 10 00	

NSR Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test The Test Result of Concrete Cubes (C150/350 ( after ( 7 & 28 ) days.

Materials

Location of Test St. (388+964) To (389+000) REC1231  
St. (389+167.86) To (389+183.86) REC1232

Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	TEST RESULTS (7) DAYS	COMPRESSION	Attached	
2	TEST RESULTS (28) DAYS	COMPRESSION	Attached	
3				
4				
5				

Comments by: Eng. Mazen Essamy (SPECTRUM)

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

<p>1-The C.S.T Test Result is approved.</p> <p>2- Results report attached and acceptable with project specifications.</p>	<p>1- Test was carried- out by material engineer for both contractor and GARB Consultant.</p> <p>2- Results report attached and acceptable with project specifications.</p>
---	---



APPROVAL STATUS			
Organization	Name	Sign	Date
Contractor	Eng. Elsaheed Mohammed		A.A.W.C.R.
Designer	Eng. Mazen Essamy		A
GARB *	Eng. Margret Magdy		
Employers Representative	Eng. Alaa Abd-Albait		A

إبراهيم وائل المشايخ العامة  
مدير عام  
مكتب إدارة المشاريع  
مكتب إدارة المشاريع  
مكتب إدارة المشاريع



00000000000000000000

المصطفى - : السلام و ابي

(RIGHT SIDE)

388+964 TD 329+000

Test Result

No	Age	Weight (gm)	Unit weight (gm/cm <sup>3</sup> )	Load (kn)	Strength (Kg/cm <sup>2</sup> )	Average	%
1	28	7900	2.4	690	312	298.6	119%
2	28	7870	2.4	650	294		
3	28	8250	2.4	640	290		

G.M.

Age Study Fall



Add :- Egypt - Alexandria - New Dong - Elamby city - Namis 51 - North mat - Flat No 2  
 Tell :- +201177575320 - +201165459725

أشرف على إعدادها : د. محمد عبد الحليم - أستاذ مساعد - كلية التربية - جامعة القاهرة

## Quality Control Department Compression Test Report

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لجنة مراقبة الجودة  
مصر الجديدة - شارع محمد علي - حي مصر الجديدة - القاهرة  
2024-3-8

المشروع :- الطريق السريع  
المقاول :- تريم واي  
(RIGHT SIDE)  
388+964 TO 389+000

2024-3-8	تاريخ التسليم	2024-3-15	تاريخ التسليم
250kg/cm <sup>2</sup>	أجهزة القياس	محل عمل الطرق	محل العمل

### Test Result

No	Age	Weight (gm)	Unit weight (gm/cm <sup>3</sup> )	Load (kn)	Strength (Kg/cm <sup>2</sup> )	Average	%
1	7	8200	2.4	490	222	225	90 %
2	7	7850	2.4	530	240		
3	7	8150	2.4	470	213		

Q.C

Mr. Mohamed

G.M

Acc Shady Fadi



NB: Package 1 Only (Package 2 via Aconex)

1- Test was carried- out by third party lab-COMIBASSAL.  
2- Results report attached and acceptable with project specifications.

Page 1 of 1





# COMIBASSAL International Controllers

## Internal inspection and laboratories sector

Accredited by : Egypton General Authority for Petroleum under No. 34/29-11-2011.

درجہ وائی للمختبرات العامة  
إشراف على المختبرات واما صيانة والمختبرات  
من ٢٠١١-٢٠٢٤ ب. ق. ٣٤-٢٩-١١

Reg. No.	512-4
Date of report	23/2/2024

### Report compressive Strength for Cube

**Compression Machine: ADR 2000 standard Sr. No. 1708-3-5071**

Project	Electric Express Train
General Consultant	SYSTRA
Consultant	SPECTRUM
Contractor	شركة دريم واي
Description of casting Element.	موول جانبية للاتجاه الأيمن
Station	St(388+132) to (388+172)



type of curing	by client
cube dim.	(15*15*15) cm
cement content	350 kg/cm2
Required strength	250 kg/cm2

Cube No.	Casting Date	Testing date	Age (days)	Concrete Type	Weight (gm)	Density (gm/cm3)	Load (kgf)	Strength (kg/cm2)	Avg.
1	25/1/2024	22/2/2024	28	Plain Concrete	8300	2.459	67730	301	307
2					8200	2.430	72000	320	
3					8250	2.444	67500	300	

Lab Director

*Eman*  
Eng/ Eman E. Kandil



Geotechnical Consultant

*For Dr. M.*  
Dr / Mohamed Mostafa Badry



## Quality Control Department Compression Test Report

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المشروع :- القطار السريع

المقاول :- تريم واي

(RIGHT SIDE)

388+132 TO 388+172

2024-1-26	تاريخ الصب	2024-2-2	تاريخ التكسير
250kg/cm <sup>2</sup>	إجهاد الخرسانة	ميول مسار القطر	عنصر الصب

### Test Result

No	Age	Weight (gm)	Unit weight (gm/cm <sup>3</sup> )	Load (kn)	Strength (Kg/cm <sup>2</sup> )	Average	%
1	7	7900	2.4	530	240.2	235.7	94 %
2	7	7890	2.4	510	231.1		
3	7	8150	2.4	520	235.7		

Q.C

Eng :- *Medhat Mohamed*

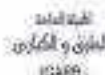
G.M

Acc Shady Fadi





# SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																	
Km 388+000 to 389+000 Km Km 388+183.86 to 389+183.86 Km		DREAM WAY FOR GENERAL CONTRACTING		SPECTRUM																	
Issued by Contractor	Name	Sign	Date/ Serial Number	Time																	
	Eng. ELSAEED MOHAMMED		S5-B-DW 04/03/2024 (S5-B-DW)(C.S.T-5)	12 PM																	
Contractor Reference	EET-EW- <del>BM</del> /SPECTRUM			Revision																	
Received by ER	SNA		<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>D0</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>KP.388</td> <td>E.W</td> <td>O.T</td> <td>5</td> <td>03</td> <td>2024</td> <td>10</td> <td>00</td> </tr> </table>			C1	C2	C3	D0	MM	YY	HH	MM	KP.388	E.W	O.T	5	03	2024	10	00
C1	C2	C3	D0	MM	YY	HH	MM														
KP.388	E.W	O.T	5	03	2024	10	00														

NB: Package 1 Only (Package 2 via Aconex)

## THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials	The Test Result of Concrete Cubes (C250/350 ( after ( 7 & 28 ) days.			
Location of Test	St. (388+240) To (388+280) REV(29) St. (388+423.86) To (388+463.86) REV(32)			
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	TEST RESULTS (7) DAYS	COMPRESSION	Attached	
2	TEST RESULTS (28) DAYS	COMPRESSION	Attached	
3				
4				
5				

Comments by: Eng. Mazen Essamy (SPECTRUM)

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

1-The C.S.T Test Result is Approved.



1- Test was carried- out by third party  
lab-COMIBASSAL.  
2- Results report attached and  
cceptable with project specifications.

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng.Elsaeed Mohammed			A
Designer	Eng. Mazen Essamy			A
GARB *	Eng.Margret Magdy			
Employers Representative	Eng. Alaa Abd-Allatif			A







# COMIBASSAL International Controllers

## Internal inspection and laboratories sector

Accredited by : Egypton General Authority for Petroleum under No. 34/29-11-2011

Rep. No.	512 - 6
Date of report	6/3/2024



### Report compressive Strength for Cube

Compression Machine: ADR 2000 standard Sr. No. 1708-3-5071

Project	Electric Express Train
General Consultant	SYSTRA
Consultant	SPECTRUM
Contractor	شركة دريم واي
Description of casting Element.	مدور جاذبية للاتجاه الأيمن
Station	St(388+240) to (388+280)



type of curing	by client
cube dim.	(15*15*15) cm
cement content	350 kg/cm2
Required strength	250 kg/cm2

Cube No.	Casting Date	Testing date	Age (days)	Concrete Type	Weight (gm)	Density (gm/cm3)	Load (kgf)	Strength (kg/cm2)	Avg.
1	6/2/2024	5/3/2024	28	Plain Concrete	8450	2.504	77630	345	361
2					8350	2.474	83250	370	
3					8300	2.459	82580	367	

Lab Director

*Eman*

Eng/ Eman E. Kandil



Geotechnical Consultant

*For. Dr. M.*

Dr / Mohamed Mostafa Bodry



## Quality Control Department Compression Test Report

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المشروع :- القطر السريع

المقاول :- دريم واي

(RIGHT SIDE)

388+240 TO 388+280

2024-2-6	تاريخ الصب	2024-2-13	تاريخ التكمير
250kg/cm <sup>2</sup>	إجهاد الخرسانة	ميول مسار القطر	عنصر الصب

### Test Result

No	Age	Weight (gm)	Unit weight (gm/cm <sup>3</sup> )	Load (kn)	Strength (Kg/cm <sup>2</sup> )	Average	%
1	7	7950	2.4	510	231.1	231.1	92.5 %
2	7	8250	2.4	490	222.1		
3	7	8150	2.4	530	240.2		

Q.C

Eng :- *Medhat Mohamed*



G.M

Acc Shady Fadl



# SUBMISSION of TEST RESULTS




Location Name		Contractor Company		Designer Company																
Km 388+000 to 389+000 Km Km 388+183.86 to 389+183.86 Km		DREAM WAY FOR GENERAL CONTRACTING		SPECTRUM																
Issued by Contractor	Name	Sign	Date/ Serial Number	Time																
	Eng. ELSAEED MOHAMMED		S5-B-DW 05/03/2024 (S5-B-DW)(C.S.T-6)	12 PM																
Contractor Reference	EET-EW- <del>FW</del> /SPECTRUM			Revision																
Received by ER	<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>KP 388</td> <td>E.W</td> <td>O.T</td> <td>6</td> <td>03</td> <td>2024</td> <td>10</td> <td>00</td> </tr> </table>				C1	C2	C3	DD	MM	YY	HH	MM	KP 388	E.W	O.T	6	03	2024	10	00
C1	C2	C3	DD	MM	YY	HH	MM													
KP 388	E.W	O.T	6	03	2024	10	00													

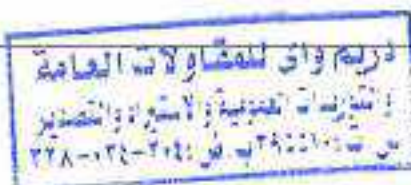
NB: Package 1 Only (Package 2 via Aconex)

## THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials	The Test Result of Concrete Cubes (C250/350 ( after ( 7 & 28 ) days.			
Location of Test	St. (388+280) To (388+316) REV(29) St. (388+463.86) To (388+499.86) REV(32)			
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	TEST RESULTS (7) DAYS	COMPRESSION	Attached	
2	TEST RESULTS (28) DAYS	COMPRESSION	Attached	
3				
4				
5				

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allatif (ER)
<p>1-The C.S.T Test Result is Approved.</p> 	<p>1- Test was carried- out by third party lab-COMIBASSAL.</p> <p>2- Results report attached and acceptable with project specifications.</p>

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng.Elsaeed Mohammed			A
Designer	Eng. Mazen Essamy			A
GARB *	Eng.Margret Magdy			
Employers Representative	Eng. Alaa Abd-Allatif	FOR		A







# COMIBASSAL International Controllers

## Internal inspection and laboratories sector

Accredited by: Egyptian General Authority for Petroleum under No. 34/29-11-2011

دراسة واتر للمقاولات العامة  
بالتصميم والتشييد والتفتيش  
من ٢٠١٠ إلى ٢٠٢٤ - ٢٠٢٤ - ٢٠٢٤

Reg. No.	512 - 9
Date of report	7/3/2024

### Report compressive Strength for Cube

Compression Machine: ADR 2000 standard Sr. No. 1708-3-5071

Project	Electric Express Train
General Consultant	SYSTRA
Consultant	SPECTRUM
Contractor	شركة نديم واي
Description of casting Element	مويل جنبية للاتجاه الأيمن
Station	St(388+280) to (388+316)

type of curing	by client
cube dim.	(15*15*15) cm
cement content	350 kg/cm <sup>2</sup>
Required strength	250 kg/cm <sup>2</sup>



Cube No.	Casting Date	Testing date	Age (days)	Concrete Type	Weight (gm)	Density (gm/cm <sup>3</sup> )	Load (kgf)	Strength (kg/cm <sup>2</sup> )	Avg.
1	7/2/2024	6/3/2024	28	Plain Concrete	8150	2.415	83250	370	348
2					8200	2.430	84380	375	
3					8350	2.474	67280	299	

Lab Director

*Eman*  
Eng/ Eman E. Kandil



Geotechnical Consultant

*For. Dr. H.*  
Dr / Mohamed Mostafa Badry





## Quality Control Department Compression Test Report

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المشروع :- القطار السريع

المقاول :- دريم واي

(RIGHT SIDE)

388+280 TO 388+316

2024-2-7	تاريخ الصب	2024-2-14	تاريخ التكسير
250kg/cm <sup>2</sup>	إجهاد الخرسانة	ميول مسار القطار	عنصر الصب

### Test Result

No	Age	Weight (gm)	Unit weight (gm/cm <sup>3</sup> )	Load (kn)	Strength (Kg/cm <sup>2</sup> )	Average	%
1	7	7850	2.4	520	235	233.7	93 %
2	7	8250	2.4	500	226		
3	7	8150	2.4	530	240.2		

Q.C

Eng :- *Medhat Mohamed*



G.M

Acc Shady Fadi



# UNIVERSAL INSPECTION REQUEST



## 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	DREAM WAY (388+000 to 389+000) REV (29) (388+183.86 to 389+183.86) REV (32)		Designer Company*	(SPECTRUM) Engineering Consulting Office
Issued by Contractor	Name	Sign	Date/Serial Number	Time
	Eng. Saeed Mohammed		07/03/2024 (S5-B-DW) (R SP13-BC)	2 00 PM
Received by GARB CONSULTANT	Eng. MAZEN ESAMY		UR: 07 03 2024 02 00	

CODE -1	(388+964 TO 389+000) bottom beam	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
CODE -2	Work Activity		
CODE -3	Sub Element of Activity		

## EXPLANATION OF WORK TO BE INSPECTED

Description	REV	Element	Item
FROM ST 388+964 TO 389+000	REV 29	Inspection and Surveying for Slope Protection Right	Concrete (1080 m <sup>3</sup> )
FROM ST 389+147.86 TO 389+183.86	REV 32	Side (Bottom Beam)	

## INSPECTION DETAILS-The following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

## COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as Indicated
Drawing Reference	I.T.P. References	MS Reference	
Plan and Profile REV 32		-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed Mansour (XYZ)

1- Attached Master Sheet approved by SPECTRUM.

SEE PROJECT SECTION 5.2

Hydrological study and intersection with water ways reports REV 32 and R-2638

Comments by: Eng. Abdelaziz Mostafa (SPECTRUM)

1- Visual Inspection is approved  
2- Coordinates and levels is approved

Comments by: Eng. Alaa Abd-Allah (GARB)

1-coordinates & levels and width checked by GARB consultant  
2- (REV. 32 & 30m) approved by GARB  
3- final approved subject to above

## INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Saeed Mohammed				A	
XYZ Survey	Eng. Mohamed Khalil					
QA/QC*	Eng. MAZEN ESAMY				A	
GARB**	Eng. Margret Magdy					
Employers Representative	Eng. Alaa Abd-Allah		7-3-2024		Awc	

\* Designer  
File Name: MS-F L032



# SHOP DRAWING SLOPE PROTECTION

RIGHT

BOTTOM BEAM

STATION												
	S3			S4			S5			S6		
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
388+964	427156.33	900193.88	7.2	427156.33	900193.88	6.2	427156.44	900194.16	6.2	427156.44	900194.16	7.2
388+968	427152.64	900195.43	7.12	427152.64	900195.43	6.12	427152.75	900195.71	6.12	427152.75	900195.71	7.12
388+972	427148.94	900196.94	7.07	427148.94	900196.94	6.07	427149.05	900197.22	6.07	427149.05	900197.22	7.07
388+976	427145.13	900198.18	7.22	427145.13	900198.18	6.22	427145.24	900198.46	6.22	427145.24	900198.46	7.22
388+980	427141.39	900199.6	7.23	427141.39	900199.6	6.23	427141.5	900199.88	6.23	427141.5	900199.88	7.23
388+984	427137.71	900201.17	7.15	427137.71	900201.17	6.15	427137.81	900201.45	6.15	427137.81	900201.45	7.15
388+988	427134.08	900202.88	6.96	427134.08	900202.88	5.96	427134.19	900203.16	5.96	427134.19	900203.16	6.96
388+992	427130.38	900204.4	6.91	427130.38	900204.4	5.91	427130.49	900204.68	5.91	427130.49	900204.68	6.91
388+996	427126.62	900205.76	6.96	427126.62	900205.76	5.96	427126.72	900206.04	5.96	427126.72	900206.04	6.96
389+000	427122.86	900207.13	7.02	427122.86	900207.13	6.02	427122.96	900207.4	6.02	427122.96	900207.4	7.02

مستقر



شركة داي للمقاولات العامة  
بمقرها في القاهرة - مصر  
٢٠١٠ - ٢٠١١ - ٢٠١٢ - ٢٠١٣



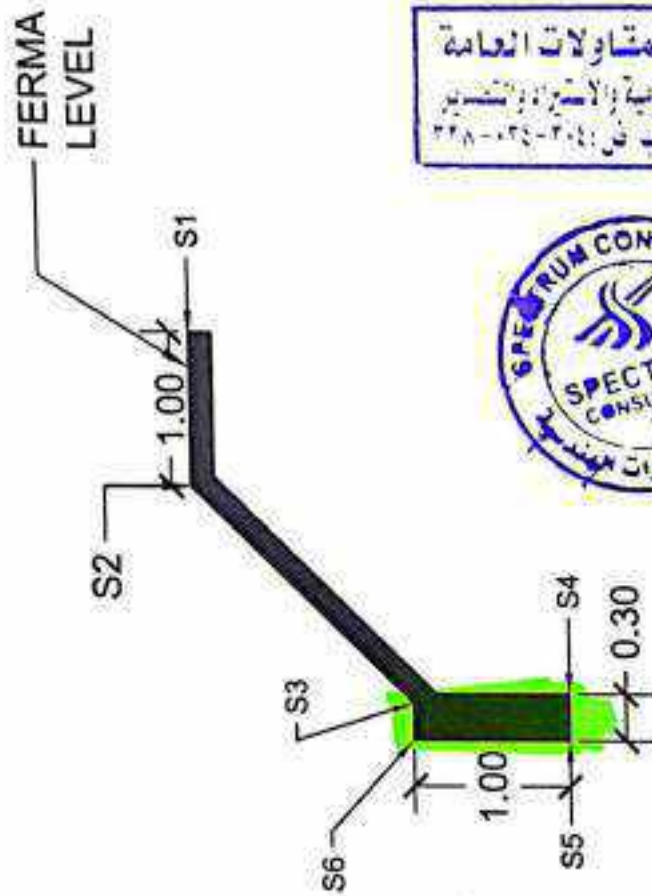
بسم الله الرحمن الرحيم  
 هذه الوثيقة هي من ممتلكات  
 شركة سبكتروم للاستشارات الهندسية  
 ولا يجوز استخدامها أو توزيعها  
 خارج نطاق المشروع المحدد

Sl.	BOTTOM BEAM			TOTAL CUBE m <sup>3</sup>
	HIGHT	WIDTH	LENGTH	
100-054 No. 251-000	1.00	0.30	14.00	10.80

بسم الله الرحمن الرحيم  
 هذه الوثيقة هي من ممتلكات  
 شركة سبكتروم للاستشارات الهندسية  
 ولا يجوز استخدامها أو توزيعها  
 خارج نطاق المشروع المحدد



دریج وای للمشاوولات العامة  
 التدرجات العمودية والاعتراف بالتنسيق  
 بين ٢٠٢١-٢٠٢٢-٢٠٢٣-٢٠٢٤-٢٠٢٥





UNIVERSAL INSPECTION REQUEST												
<b>RECEIPT of NOTIFICATION</b> -Minimum Notice Period not less than 24 Hours <small>The Work described below will be complete and ready for inspection at planned time shown</small>												
Contractor Company	DREAM WAY (388+000 to 389+000) REV (29) (388+183.86 to 389+183.86) REV (32)					Designer Company*		(SPECTRUM) Engineering Consulting Office				
Issued by Contractor	Name	Sign			Date/Serial Number		Time					
	Eng. Saeed Mohammed				07/05/2024 (SS33-DV)(R) (SP13-IG)		2:00 PM					
Received by GARB CONSULTANT	Eng. MAZEN ESAMY				UIR	388	EW	CS	07	03	2024	02 00
CODE-1	(388+964 TO 389+000) Top Slabs and Slope					D1 to D3 Depot Reference			Kp XXX Note For Kilo meter point only Start Km is used			
CODE-2	Work Activity											
CODE-3	Sub Element of Activity											
<b>EXPLANATION OF WORK TO BE INSPECTED</b>												
Description		REV	Element				Item					
FROM ST 388+964 TO 389+000		REV 29	Inspection and Surveying for Slope Protection Right Side ( Top Slabs and Slope )				Concrete(15.51 m <sup>2</sup> )					
FROM ST 389+147.86 TO 389+183.86		REV 32										
<b>INSPECTION DETAILS</b> <small>The Following will be ready at the Planned Inspection Time</small>												
Planned Inspection Date						Planned Inspection Time						
<b>COMPLIANCE EVIDENCE</b> <small>Must be included as appropriate</small>												
Checklist Attached		Test Results Attached				Calibration Attached		Other as indicated				
Drawing Reference		I.T.P. References				MS Reference						
Plan and Profile REV 32						-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.						
Comments by: Eng. Mohamed Mansour (XYZ)						EET PROJECT SECTION 5_2						
1- Attached Master Sheet approved by SPECTRUM.						Hydrological study and intersection with water ways reports REV 32 and R-2638						
Comments by: Eng. Abdelaziz Mostafa (SPECTRUM)						Comments by: Eng. Alaa Abd-Allatif (ER)						
1- Visual Inspection is approved						1-coordinates & levels and width checked by GARB consultant						
2-Coordinates and levels is approved						2- (REV. 32 & X-sec./20m) approved from SYSTRA.						
						2- final proposed subjected to above mentioned comments						
<b>INSPECTION RESULT</b>												
Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend						
Contractor	Eng. Saeed Mohammed				A-AWC-R							
XYZ Survey	Eng. Mohamed Khalil				A							
QA/QC*	Eng. MAZEN ESAMY				A							
GARB**	Eng. Margret Magdy											
Employers Representative	Eng. Alaa Abd-Allatif		7-3-2024		Awe							
<small>* Designer File Name: MS-F L032</small>												





## SHOP DRAWING SLOPE PROTECTION


RIGHT

TOP SLAB AND SLOPE

STATION									
	S1			S2			S3		
	X	Y	Z	X	Y	Z	X	Y	Z
388+964	427155.57	900191.92	8.15	427155.92	900192.81	8.11	427156.33	900193.88	7.2
388+968	427151.84	900193.37	8.15	427152.19	900194.26	8.11	427152.64	900195.43	7.12
388+972	427148.11	900194.81	8.15	427148.46	900195.7	8.11	427148.94	900196.94	7.07
388+976	427144.38	900196.25	8.15	427144.73	900197.14	8.11	427145.13	900198.18	7.22
388+980	427140.65	900197.7	8.15	427141	900198.59	8.11	427141.39	900199.6	7.23
388+984	427136.92	900199.14	8.15	427137.27	900200.03	8.11	427137.71	900201.17	7.15
388+988	427133.19	900200.59	8.15	427133.54	900201.48	8.11	427134.08	900202.88	6.96
388+992	427129.46	900202.03	8.15	427129.81	900202.92	8.11	427130.38	900204.4	6.91
388+996	427125.73	900203.47	8.15	427126.08	900204.36	8.11	427126.62	900205.76	6.96
389+000	427122	900204.92	8.15	427122.34	900205.81	8.11	427122.86	900207.13	7.02

محسنة



<div></div>																					
AREA OF SLOPE PROTECTION											NOTES										
St.	S2	S3	S2-S3 (V)	(H)	SLOPE (W)	TOP & BOTTOM SLAB		TOTAL ( W)	TOTAL AREA m <sup>2</sup>	CUBE m <sup>3</sup>											
						TOP SLAB (W)	BOTTOM SLAB ( W)														
388+964	8.11	7.20	0.91	2.37	1.64	1.00	0.00	2.64	0.00		TYPE (2) FROM ST (388+964) TO ST (389+000)										
388+968	8.11	7.12	0.99	1.49	1.78	1.00	0.00	2.78	11.14	1.67											
388+972	8.11	7.07	1.04	1.56	1.87	1.00	0.00	2.87	11.50	1.72											
388+976	8.11	7.22	0.89	1.34	1.60	1.00	0.00	2.60	10.42	1.54											
388+980	8.11	7.23	0.88	1.32	1.59	1.00	0.00	2.59	10.35	1.55											
388+984	8.11	7.15	0.96	1.44	1.73	1.00	0.00	2.73	10.32	1.64											
388+988	8.11	6.96	1.15	1.73	2.07	1.00	0.00	3.07	12.29	1.84											
388+992	8.11	6.91	1.20	1.80	2.16	1.00	0.00	3.16	12.65	1.90											
388+996	8.11	6.94	1.15	1.73	2.07	1.00	0.00	3.07	12.29	1.84											
389+000	8.11	7.02	1.09	1.64	1.97	1.00	0.00	2.97	11.86	1.78											
TOTAL AREA									103.42	15.51											

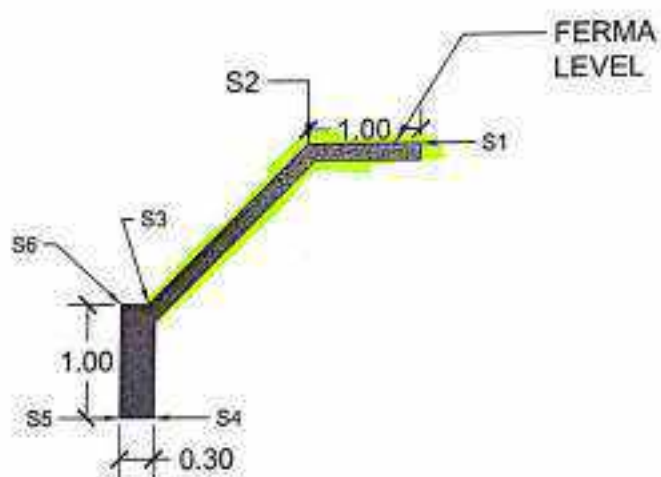
درسم وای للمقاولات العامة  
بالتصميم الهندسي والاسم المخصص  
من ٢٢٨-٠٣٤-٢٢٢٢-٢٢٢٢-٢٢٢٢







دریجه وانی-تحتیاجات و تالیفات  
در زمینه طراحی و اجرای سیستم‌های  
سازه‌ای و مکانیکی و الکتریکی و  
تاسیسات مکانیکی و تهویه مطبوع و  
سیستم‌های آبیاری و زهکشی و...



# UNIVERSAL INSPECTION REQUEST



## 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	DREAM WAY (388+000 to 389+000) REV (29) (388+183.86 to 389+183.86) REV (32)		Designer Company*	(SPECTRUM) Engineering Consulting Office																
Issued by Contractor	Name	Sign	Date/Serial Number	Time																
	Eng. Saeed Mohammed		6/02/2024 (SS-B&DW) (R:SPB-BC)	2:00 PM																
Received by GARB CONSULTANT	Eng. MAZEN ESAMY		UIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>CD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>388</td> <td>EW</td> <td>CS</td> <td>06</td> <td>02</td> <td>2024</td> <td>02</td> <td>00</td> </tr> </table>	C1	C2	C3	CD	MM	YY	HH	MM	388	EW	CS	06	02	2024	02	00
C1	C2	C3	CD	MM	YY	HH	MM													
388	EW	CS	06	02	2024	02	00													

CODE-1	(388+280 TO 388+318) bottom beam	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
CODE-2	Work Activity		
CODE-3	Sub Element of Activity		

## EXPLANATION OF WORK TO BE INSPECTED

Description	REV	Element	Item
FROM ST 388+280 TO 388+318	REV 29	Inspection and Surveying for Slope Protection Right Side (Bottom Beam)	Concrete (10.30 m <sup>3</sup> )
FROM ST 388+463.86 TO 388+499.86	REV 32		

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

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

## COMPLIANCE EVIDENCE Must be Included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	I.T.P. References	MS Reference	
Plan and Profile REV 32		-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2/VERSION2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed Mansour (XYZ)	EET PROJECT SECTION 5_2
1- Attached Master Sheet approved by SPECTRUM.	Hydrological study and intersection with water ways reports REV 32 and R-2638

Comments by: Eng. Abdelaziz Mostafa (SPECTRUM)	Comments by: Eng. Alaa Abd-Allatif (ER)
1-Visual Inspection is approved	1-coordinates & levels and width checked by GARB consultant
2-Coordinates and levels is approved	2- (REV. 32 & X-sec./20m) Approved from SPECTRUM
	B-line approval subjected to above mentioned comments

## INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Saeed Mohammed				A-AWC-R	
XYZ Survey	Eng. Mohamed Khalil					
QA/QC*	Eng. MAZEN ESAMY				A	
GARB**	Eng. Margret Magdy					
Employers Representative	Eng. Alaa Abd-Allatif		6-2-2024			

\* Designer

File Name : MS-F.1032



درجہ اولیٰ لمقتضیات العامة  
 رقم: ۳۳۸-۳۴۰-۳۴۱  
 من ۳۰/۱۰/۲۰۲۰

## SHOP DRAWING SLOPE PROTECTION

RIGHT

BOTTOM BEAM

STATION												
	S3			S4			S5			S6		
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
388+280	427794.33	899947.28	7.49	427794.33	899947.28	6.49	427794.44	899947.56	6.49	427794.44	899947.56	7.49
388+284	427790.61	899948.74	7.47	427790.61	899948.74	6.47	427790.72	899949.02	6.47	427790.72	899949.02	7.47
388+288	427786.95	899950.36	7.33	427786.95	899950.36	6.33	427787.05	899950.64	6.33	427787.05	899950.64	7.33
388+292	427783.23	899951.86	7.29	427783.23	899951.86	6.29	427783.34	899952.14	6.29	427783.34	899952.14	7.29
388+296	427779.53	899953.37	7.23	427779.53	899953.37	6.23	427779.64	899953.65	6.23	427779.64	899953.65	7.23
388+300	427775.78	899954.76	7.25	427775.78	899954.76	6.25	427775.89	899955.04	6.25	427775.89	899955.04	7.25
388+304	427772.03	899956.14	7.29	427772.03	899956.14	6.29	427772.13	899956.42	6.29	427772.13	899956.42	7.29
388+308	427768.29	899957.58	7.28	427768.29	899957.58	6.28	427768.4	899957.86	6.28	427768.4	899957.86	7.28
388+312	427764.51	899958.89	7.37	427764.51	899958.89	6.37	427764.62	899959.17	6.37	427764.62	899959.17	7.37
388+316	427760.77	899960.3	7.38	427760.77	899960.3	6.38	427760.88	899960.58	6.38	427760.88	899960.58	7.38

مشروع القطار السريع - غرب النيل



درجہ ذیل لمبائیاں والے علامت  
 کوئی علامت لمبائی والے اشارے کے لئے  
 ۳۲۸-۰۳۴-۲۰۵-۰۳۲

St.	BOTTOM BEAM			TOTAL CUBE m <sup>3</sup>
	HIGHT	WIDTH	LENGTH	
308+280 to 308+316	1.00	0.30	96.00	10.20







# UNIVERSAL INSPECTION REQUEST



## 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	DREAM WAY (388+000 to 389+000) REV (29) (388+183.86 to 389+183.86) REV (32)		Designer Company*	(SPECTRUM) Engineering Consulting Office			
Issued by Contractor	Name	Sign	Date/Serial Number	Time			
	Eng. Saeed Mohammed		5/02/2024 (S5-B-DW) (R-SP5-BC)	2:00 PM			
Received by GARB CONSULTANT	Eng. MAZEN ESAMY		UIR	388	EW	CS	05
				MM	YY	HH	MM
				02	2024	02	00
CODE-1	(388+240 TO 388+280) bottom beam		D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used			
CODE-2	Work Activity						
CODE-3	Sub Element of Activity						

## EXPLANATION OF WORK TO BE INSPECTED

Description	REV	Element	Item
FROM ST 388+240 TO 388+280	REV 29	Inspection and Surveying for Slope Protection Right	Concrete (12 m <sup>3</sup> )
FROM ST 388+423.86 TO 388+463.86	REV 32	Side (Bottom Beam)	

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

Planned Inspection Date	Planned Inspection Time

## COMPLIANCE EVIDENCE Must be Included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	I.T.P. References	MS Reference	
Plan and Profile REV 32		-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed Mansour (XYZ)

KEY PROJECT SECTION 5\_2

1- Attached Master Sheet approved by SPECTRUM.

Hydrological study and intersection with water ways reports REV 32 and R-2638

Comments by: Eng. Abdelaziz Mostafa (SPECTRUM)

Comment by: Eng. Alaa Abd-Allah (ER)

- Visual Inspection is approved
- Coordinates and levels is approved

- 1-coordinates & levels and width checked by GARB consultant
- 2- (REV 32 & X-sec./20m) Approved from SYSTRA.

1- find approved subjected to above mentioned comments

## INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Saeed Mohammed				A-AWC-R	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. MAZEN ESAMY				A	
GARB**	Eng. Margret Magdy					
Employers Representative	Eng. Alaa Abd-Allah		5-2-2024		Awc	

\* Designer  
File Name : MS-F-1002





## SHOP DRAWING SLOPE PROTECTION

RIGHT

BOTTOM BEAM

STATION												
	S3			S4			S5			S6		
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
388+240	427831.83	899933.34	7.23	427831.83	899933.34	6.23	427831.94	899933.62	6.23	427831.94	899933.62	7.23
388+244	427828.09	899934.76	7.25	427828.09	899934.76	6.25	427828.2	899935.04	6.25	427828.2	899935.04	7.25
388+248	427824.26	899935.94	7.42	427824.26	899935.94	6.42	427824.36	899936.22	6.42	427824.36	899936.22	7.42
388+252	427820.38	899937	7.69	427820.38	899937	6.69	427820.49	899937.28	6.69	427820.49	899937.28	7.69
388+256	427816.43	899937.89	8.07	427816.43	899937.89	7.07	427816.54	899938.17	7.07	427816.54	899938.17	8.07
388+260	427812.5	899938.8	8.44	427812.5	899938.8	7.44	427812.6	899939.08	7.44	427812.6	899939.08	8.44
388+264	427808.87	899940.51	8.76	427808.87	899940.51	7.76	427808.98	899940.79	7.76	427808.98	899940.79	8.76
388+268	427805.09	899941.82	8.33	427805.09	899941.82	7.33	427805.19	899942.1	7.33	427805.19	899942.1	8.33
388+272	427801.97	899944.86	7.17	427801.97	899944.86	6.17	427802.08	899945.14	6.17	427802.08	899945.14	7.17
388+276	427798.13	899946.01	7.38	427798.13	899946.01	6.38	427798.24	899946.29	6.38	427798.24	899946.29	7.38
388+280	427794.33	899947.28	7.49	427794.33	899947.28	6.49	427794.44	899947.56	6.49	427794.44	899947.56	7.49

مستورد



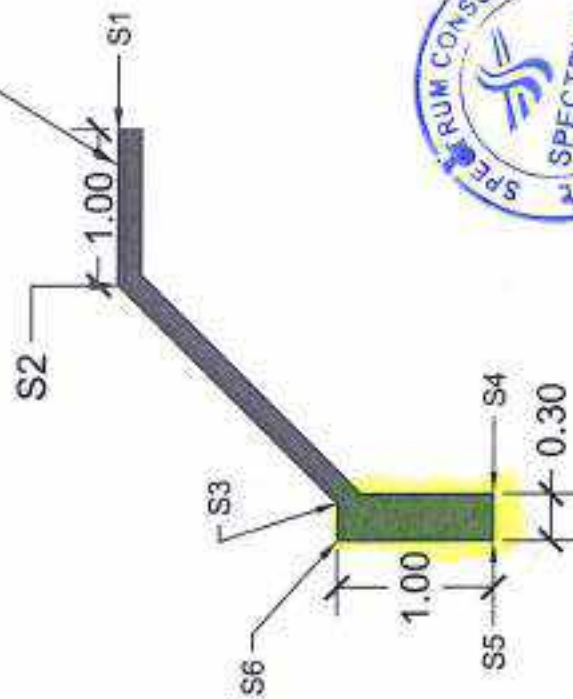
دراسة تخطيطية لخط النقل  
من محطة 388+240 إلى محطة 388+280  
م. 388+240 - 388+280

SL	BOTTOM BEAM			TOTAL CUBE m <sup>3</sup>
	HIGHT	WIDTH	LENGTH	
388+240 to 388+280	1.00	0.30	40.00	12.00





FERMA  
LEVEL



# UNIVERSAL INSPECTION REQUEST



## 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	DREAM WAY (388+000 to 389+000) REV (29) (388+183.86 to 389+183.86) REV (32)		Designer Company*	SPECTRUM Engineering Consulting Office																	
Issued by Contractor	Name	Sign	Date/Serial Number	Time																	
	Eng. Saeed Mohammed		25/01/2024 (85-B-DW) (R.SP3-BC)	2:00 PM																	
Received by GARB CONSULTANT	Eng. MAZEN ESAMY		UIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>CO</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>388</td> <td>EW</td> <td>CS</td> <td>25</td> <td>01</td> <td>2024</td> <td>02</td> <td>00</td> </tr> </table>		C1	C2	C3	CO	MM	YY	HH	MM	388	EW	CS	25	01	2024	02	00
C1	C2	C3	CO	MM	YY	HH	MM														
388	EW	CS	25	01	2024	02	00														

CODE -1	(388+132 TO 389+172) bottom beam	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
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CODE -2	Work Activity
CODE -3	Sub Element of Activity

## EXPLANATION OF WORK TO BE INSPECTED

Description	REV	Element	Item
FROM ST 388+132 TO 388+172	REV 29	Inspection and Surveying for Slope Protection Right	Concrete (12.00 m <sup>3</sup> )
FROM ST 388+315.86 TO 388+355.86	REV 32	Side (bottom beam)	

INSPECTION DETAILS The following will be ready at the Planned Inspection Time	Planned Inspection Date	Planned Inspection Time
---	-------------------------	-------------------------

COMPLIANCE EVIDENCE Must be included as appropriate	Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
---	--------------------	-----------------------	----------------------	--------------------

Drawing Reference	I.T.P. References	MS Reference
Plan and Profile REV 32		- Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP. - TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.

Comments by: Eng. Mohamed Mansour (XYZ)	EET PROJECT SECTION 5_2
1- Attached Master Sheet approved by SPECTRUM.	Hydrological study and intersection with water ways reports REV 32 and R-2638

Comments by: Eng. Abdelaziz Mostafa (SPECTRUM)	Comments by: Eng. Alaa Abd-Allatif (ER)
1- Visual Inspection is approved	1-coordinates & levels and width checked by GARB consultant
2- Coordinates and levels is approved	2- (REV 32 & X-sec./20m) Approved by SYSTRA.
	3- Inspected and approved subject to above

INSPECTION RESULT						Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Date	Time			
Contractor	Eng. Saeed Mohammed					A	
XYZ Survey	Eng. Mohamed Khalil						
QA/QC*	Eng. MAZEN ESAMY					A	
GARB**	Eng. Margret Magdy						
Employers Representative	Eng. Alaa Abd-Allatif		25-1-2024			Awc	



# SHOP DRAWING SLOPE PROTECTION

RIGHT

BOTTOM BEAM

STATION

	S3			S4			S5			S6		
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
381+132	427932.76	899894.92	7.11	427932.76	899894.92	6.11	427932.87	899895.2	6.11	427932.87	899895.2	7.11
381+136	427929.06	899896.43	7.05	427929.06	899896.43	6.05	427929.17	899896.71	6.05	427929.17	899896.71	7.05
381+140	427924.96	899896.51	7.73	427924.96	899896.51	6.73	427925.07	899897.19	6.73	427925.07	899897.19	7.73
381+144	427920.89	899897.48	8.35	427920.89	899897.48	7.35	427920.99	899897.75	7.35	427920.99	899897.75	8.35
381+148	427917.12	899898.82	8.41	427917.12	899898.82	7.41	427917.23	899899.1	7.41	427917.23	899899.1	8.41
381+152	427914.05	899901.97	7.18	427914.05	899901.97	6.18	427914.15	899902.25	6.18	427914.15	899902.25	7.18
381+156	427910.31	899903.39	7.19	427910.31	899903.39	6.19	427910.42	899903.67	6.19	427910.42	899903.67	7.19
381+160	427906.59	899904.87	7.15	427906.59	899904.87	6.15	427906.7	899905.15	6.15	427906.7	899905.15	7.15
381+164	427902.84	899906.26	7.18	427902.84	899906.26	6.18	427902.95	899906.54	6.18	427902.95	899906.54	7.18
381+168	427899.13	899907.76	7.13	427899.13	899907.76	6.13	427899.24	899908.04	6.13	427899.24	899908.04	7.13
381+172	427895.38	899909.14	7.16	427895.38	899909.14	6.16	427895.49	899909.42	6.16	427895.49	899909.42	7.16

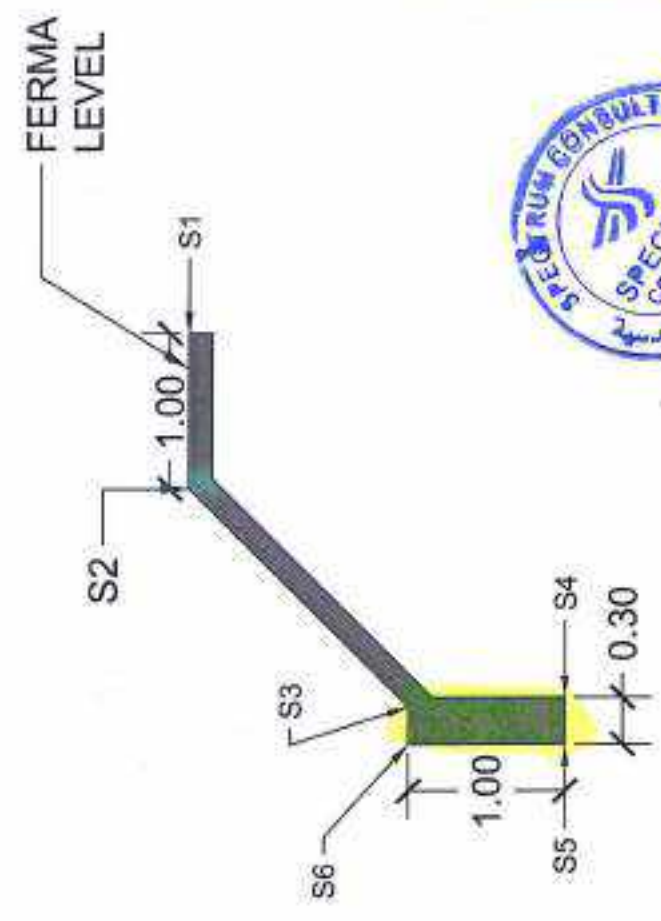
درجہ بنائی گئی ہے اس کے مطابق  
درجہ بنائی گئی ہے اس کے مطابق  
درجہ بنائی گئی ہے اس کے مطابق







شركة سبكتروم للاستشارات الهندسية  
 ٢٢٨-٠٣٠-٣٠٤٠٠  
 ٢٢٨-٠٣٠-٣٠٤٠٠



# UNIVERSAL INSPECTION REQUEST



الهيئة العامة  
للتنظيم والقياس  
(GARB)



شركة سبكتروم  
استشارات



شركة سبكتروم  
استشارات



شركة سبكتروم  
استشارات

## 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	Dream Way COMPANY		Designer Company*	(SPECTRUM) Engineering Consulting Office																
Issued by Contractor:	Name Eng. Elsaed Mohamed	Sign	Date/Serial Number 20/12/2022 S5-B-DW-IR Gr(02)	Time 1:00 p																
Received by GARB CONSULTANT	Eng. Mazen Esamy	UIR	<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>388</td> <td>EW</td> <td>CS</td> <td>21</td> <td>12</td> <td>2022</td> <td>01</td> <td>00</td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	388	EW	CS	21	12	2022	01	00	
C1	C2	C3	DD	MM	YY	HH	MM													
388	EW	CS	21	12	2022	01	00													

CODE-1	S1 to S21 Station Reference	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
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CODE-2	Work Activity
CODE-3	Sub Element of Activity

## EXPLANATION OF WORK TO BE INSPECTED

Description				Element	Item
From St.	388+500	To St.	388+700	REV 29	OVERLAB 30CM , AREA=3216 M2
From St.	388+883.86	To St.	388+883.86	REV 35	
				Geogrid	

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

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

## COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	References	MS Reference	
PLAN AND PROFILE (REV.35) ,(REV.29)	S5-B-DW IR-SG(02)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY OVECON GROUP.	
POINT OF SHEET	S5-B-DW FDT-SG1(2)	-TECHNICAL REPORT (CG21-122.1) VERSION 1 BY OVECON GROUP.	
POINT ON PLAN	S5-B-DW IR-SG(03)		
MASTER SHEET FOR CUT AND FILL	S5-B-DW FDT-SG1(3)		
APPROVED BY (SPECTRUM)CONSULTING			

Comments by: Eng. Mohamed KHALIL (XYZ)

1- Attached Master Sheet approved by SPECTRUM .  
2-Ax Built (Geogrid) with overlap 30 cm , AREA= 3216 M2

Comments by: Eng. Mostafa reyad (SPECTRUM)



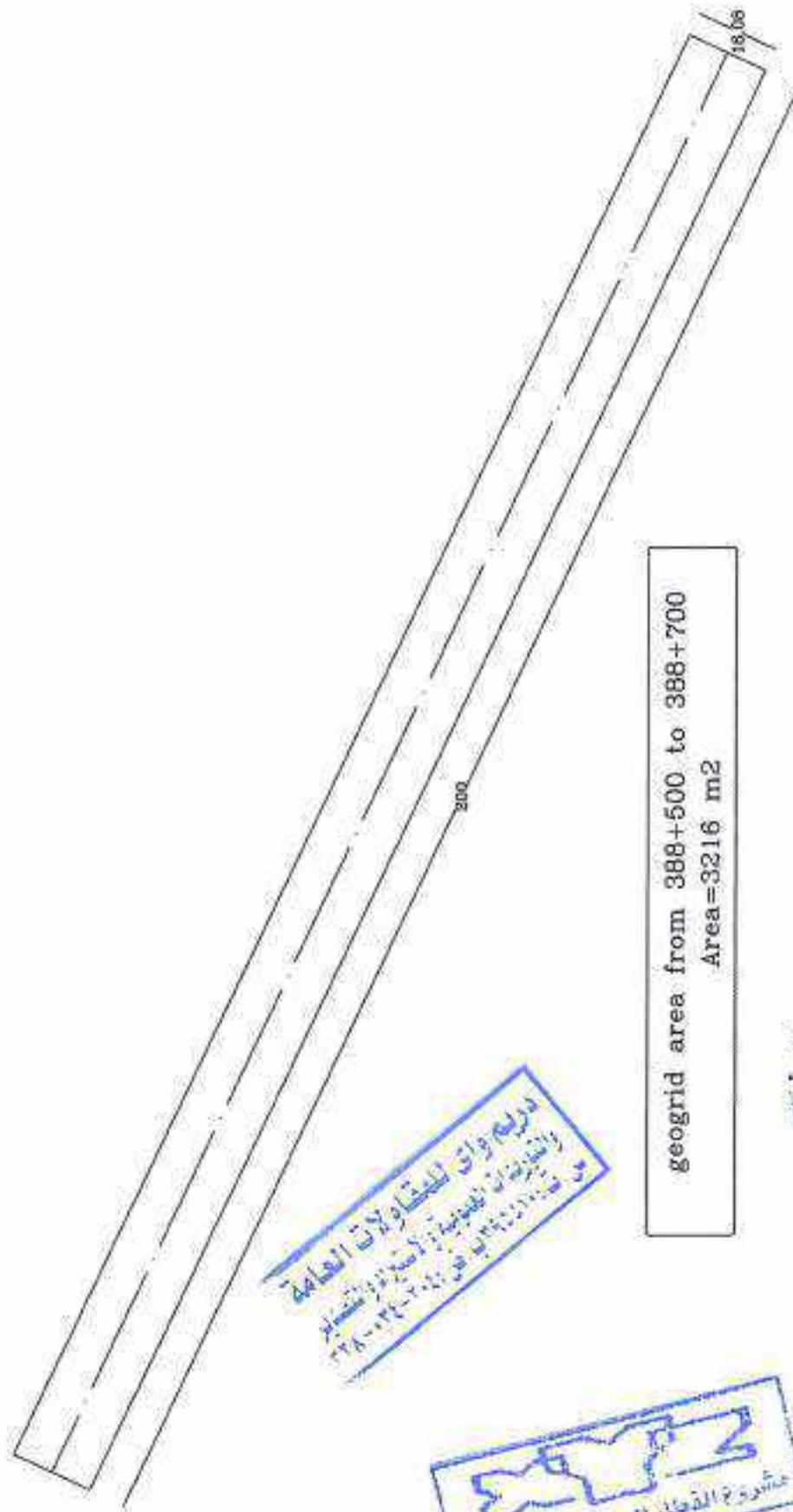
Comments by: Eng. Alaa Abd-Allatif (ER)  
1-The work has been done according to instruction from GARB to contractor & GARB. ENG. consultant.  
2-Quality test checked by third party lab . ( ALEXANDRIA UNIVERSITY )

## INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsaed Mohamed				A-AWC-R	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
GARB**	Eng. Margret magdy					
Employers Representative	Eng. Alaa Abd-Allatif				A	



Contractor	  		Serial No. IR-GE (02)
	  		Date 21/12/2022
	<p align="center"><b>مكتب (إدارة) أعمال</b>  <b>Electrical Express Train From Borg Al Arab to Alamein</b>  <b>from Station 388+00 To Station 389+00</b></p>		
	<p align="center"><b>Works Inspection Request</b></p>		
We request your attendance to inspect the following works :			
Discipline : <input type="checkbox"/> Civil/Soil Protection <input type="checkbox"/> Structure <input type="checkbox"/> Drainage <input checked="" type="checkbox"/> Survey			
Location :		Zone	Level
		Dreamway	ABOVE LAYER (1)
References		Drawing: EET-BORG EL ARAB REV 29 Plan Profile Specification: EETL3.1 Earthworks specifications and testing report.	
Purpose of the Inspection			
<input checked="" type="checkbox"/> Surveying <input type="checkbox"/> Setting out <input type="checkbox"/> Levels <input type="checkbox"/> Veracity			
Attachments			
1-PLAN			
Works To be Inspected			
GEOGRID LAYER FROM 388+500 TO 388+700 WITH AREA=3216M2			
			
Submitted by:		Signature: <i>Abdulrahman</i>	
Dreamway		Date: 21/12/2022	
GARP Consultant Engineer:		Comments :	
		<input type="checkbox"/> Approved as Noted (N) <input type="checkbox"/> Rejected (R)	
The works are : <input checked="" type="checkbox"/> Approved (A) <input type="checkbox"/> Approved as Noted (N) <input type="checkbox"/> Rejected (R) <input type="checkbox"/> Rejected (R)			
Name: <i>Mazen Esam</i>		Signature: <i>Mazen Esam</i>	
General Consultant's Comments:		Date: 21/12/2022	
1-we need approved typical x sec to use geogrid between stationing, the work has been according to instruction from GARP to contractor & GARP consultant			
2-Xsec/20m of REV.30 should approved from SYSTRA to calculate area			
3-Quality test checked by third party lab			
4-Final approval is subjected to above mentioned comment			
The works are : <input checked="" type="checkbox"/> Approved (A) <input type="checkbox"/> Approved as Noted (N) <input type="checkbox"/> Rejected (R) <input type="checkbox"/> Rejected (R)		Signature: <i>Abdulrahman</i>	
Name: <i>Abdulrahman</i>		Date: 21/12/2022	



geogrid area from 388+500 to 388+700  
Area=3216 m2

دراسة وإدارة المقاولات العامة  
والهندسة المدنية والبيئة والبنية التحتية  
من ٢٠٠٠ إلى ٢٠٢٠

مشروع القطار السريع غرب النيل





الساده / شركة دريم واى للمقاولات

تحية طيبة وبعد...

الموضوع :- بشأن الطلب المقدم من سيادتكم بتاريخ ٢٠٢٣/١/٤ لإجراء اختبار على عدد (١) عينة جيو جريد.

بالإشارة إلى الموضوع عالية. نتشرف بأن نرفق لسيادتكم التقرير الذي أعد بواسطة كلا من :-

ا.د / رانيا محمد احمد محروس الديب

د / ياسمين الماحي.

بقسم هندسة الفزل والنسيج وذلك من خلال المركز الهندسى.

مع خالص احترامي وتقديري،،

المدير التنفيذي للمركز الهندسى  
كلية الهندسة - جامعة الاسكندرية

ا.د/ زياد محمد طارق الصياد





Customer: Dream Way  
Sample type: Geogrid- biaxial

Sample code	Tensile strength (KN/m)	Elongation (%)
Geogrid- biaxial According to ASTM (D6637-B)	44.2	13.29

The laboratory is responsible only for the sample provided.  
The sample provided is responsibility of the supplier.  
The result has a tolerance  $\pm 5\%$

Created by:

Dr. Yasmin Ayman Mohamed Hafez Elmahy




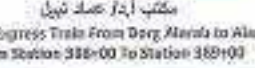



Approved by:

Prof. Dr. Rania Mohamed Ahmed Eldeeb







Contractor	  		Serial No. RGT-SG (05)
	  		Date 31/12/2022
	<p>مكتب إدارة أعمال توريد</p> <p>Electrical Egress Trade From Derg Alarab to Alamein</p> <p>From Station 388+00 To Station 389+00</p>		
	Works Inspection Request		
	We request your attendance to inspect the following works :		
	Discipline : <input type="checkbox"/> Civil/Structural <input type="checkbox"/> Electrical <input type="checkbox"/> Drainage <input type="checkbox"/> Sewer		
	Location :	Zone Dressway	FROM 388+540
			TO 389+200
	References	Drawing: E27-B080 EL ARAB REV 29 Plan Profile Specification: ETT.1.1 Earthwork specifications and testing reports	
	Purpose of the inspection: <input type="checkbox"/> Surveying <input type="checkbox"/> Setting out <input type="checkbox"/> Levels <input type="checkbox"/> Velocity		
Attachments			
Works To be Inspected: Rof,IR-SG(05)			
Submitted by: Dressway <i>Abdul Rahman Hef</i> Signature: <i>Abdulrahman</i>			
GARP Consultant Engineer's Comments: - The Compaction test result (C.P.T) by third party lab is ok			
The works are : <input checked="" type="checkbox"/> Approved (X) <input type="checkbox"/> Approved as noted (X) <input type="checkbox"/> Rejected (X)			
Name: <i>Ma'zen Gamy</i> Signature: <i>Ma'zen Gamy</i>			
General Consultant's Comments:			
Date: <i>10/01</i>			
1- S0 sample was selected from (F.D.T) 2- Sand cone test was carried out by third party lab (comibexal) 3- Results attached and formed acceptable and comply with project 4- Final approval is subjected to above mentioned comment			
The works are : <input checked="" type="checkbox"/> Approved (X) <input type="checkbox"/> Approved as noted (X) <input type="checkbox"/> Rejected (X)			
Name: <i>Alaa Abdelkader</i> Signature: <i>Alaa Abdelkader</i>			
Date: <i>10/01</i>			
Name: _____ Signature: _____			
GARP Eng.			



وزارة النقل  
المجلس الأعلى للمواصلات والبنية التحتية




SUTRA  
SUDAN TRADING & TRADING COMPANY



الهيئة القومية للطرق  
الطريق القومية ١٢٠

Serial No:  
FDT-SG  
(03)



مكتب أ.د. شهاب توفيق  
Electrical Express Train From Borg El Arab to Al Ainain  
From Station 388+00 To Station 389+00

Date  
20/12/2022

### Works Inspection Request

We request your attendance to inspect the following works :

**Discipline :**

☐ Overlap Protection  
☐ Structure  
☐ Overage  
☒ Survey

Location	Zone	From Station	To Station	Level
	Drainway	388+500	388+540	prepared subgrade 1

**Reference:** Drawing: SET-BORG EL ARAB REV 29 Plan Profile  
Specification: ETL 1.3 Earthworks specifications and testing report.

**Purpose of the inspection**

☒ Surveying  
☐ Setting out  
☐ Level  
☐ Verticality


لرئيس واثى المتصاولات العامة

بالتفويض من المهندس ا.د. شهاب توفيق

في تاريخ ٢٠/١٢/٢٠٢٢

**Attachments**

Works to be inspected



مشروع القطار الكهربائي من بورج العرب إلى العينين

**Submitted by:** Drainway Abdulrahman

**GARP Consultant Engineer's Comments :** ☐ Approved (A) ☐ Approved as noted (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)

**Signature:** Abdulrahman **Date:** 20/12/2022

The compaction test result (F.D.T) is ok

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

**Name:** Mazen Gamy **Signature:** [Signature] **Date:** 21/12

**General Consultant's Comments:**

1-14 sample was selected from (F.D.T)

2-sand cone test was carried out by material engineer for both contractor and GARP consultant

3-Results attached and formed acceptable and comply with project

4-Final approval is subjected to above mentioned comment

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

**Name:** Abu Abdellatif **Signature:** [Signature] **Date:** 21/12



# UNIVERSAL INSPECTION REQUEST



ONE WAY

القناة  
القارون والكباري  
(GARB)



## RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company	Dream Way COMPANY		Designer Company*	(SPECTRUM) Engineering Consulting Office																
Issued by Contractor:	Name Eng. Elsaed Mohamed	Sign 	Date/Serial Number 22/01/2023 SS-B-DW-IR Gr(03)	Time 1:00																
Received by GARB CONSULTANT	Eng. Mazen Esamy	UIR 	<table border="1"> <tr> <td>01</td> <td>02</td> <td>03</td> <td>00</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>388</td> <td>EW</td> <td>CS</td> <td>23</td> <td>01</td> <td>2023</td> <td>01</td> <td>00</td> </tr> </table>	01	02	03	00	MM	YY	HH	MM	388	EW	CS	23	01	2023	01	00	
01	02	03	00	MM	YY	HH	MM													
388	EW	CS	23	01	2023	01	00													

CODE-1	S1 to S21 Station Reference	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
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CODE-2	Work Activity
CODE-3	Sub Element of Activity

### EXPLANATION OF WORK TO BE INSPECTED

Description				Element	Item
From St.	388+388	To St.	388+500	REV 29	OVERLAB 30CM , AREA=3216 M2
From St.	388+483.86	To St.	388+683.86	REV 35	
				Geogrid	

### INSPECTION DETAILS The following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

### COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference PLAN AND PROFILE (REV.35) , (REV.29) POINT OF SHEET POINT ON PLAN MASTER SHEET FOR CUT AND FILL APPROVED BY (SPECTRUM)CONSULTING	References SS-B-DW-IR-SG(07) SS-B-DW-FDT-SG(07)	MS Reference -Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2)VERSION2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed KHALIL (XYZ)

- 1- Attached Master Sheet approved by SPECTRUM .
- 2-As Built (Geogrid) with overlab 30 cm , AREA= 3216 M2



Comments by: Eng. Mostafa rayad (SPECTRUM)



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

- 1-The work has been done according to instruction from GARB to contractor & GARB. ENG. consultant.
- 2-Quality test checked by third party lab . ( ALEXANDRIA UNIVERSITY )

### INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsaed Mohamed				A-AVC-R	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
GARB**	Eng. Margret magdy					
Employers Representative	Eng. Alaa Abd-Allatif				A	



# UNIVERSAL INSPECTION REQUEST



## 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	Dream way Company		Designer Company*	(SPECTRUM) Engineering Consulting Office																
Issued by Contractor	Name Eng. Abdelrahman atef	Sign <i>Abdelrahman atef</i>	Date/Serial Number 23/01/2023 IR-GE (3)	Time 12:00 PM																
Received by GARB CONSULTANT	Eng. SAIED SAIF	UIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>CO</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>388</td> <td>EW</td> <td>CS</td> <td>24</td> <td>01</td> <td>2023</td> <td>12</td> <td>00</td> </tr> </table>	C1	C2	C3	CO	MM	YY	HH	MM	388	EW	CS	24	01	2023	12	00	
C1	C2	C3	CO	MM	YY	HH	MM													
388	EW	CS	24	01	2023	12	00													

CODE-1	STATION REFRANCE	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

## EXPLANATION OF WORK TO BE INSPECTED

Description	Element	Item
From St. 388+300 To St. 388+500	GEOGRID LAYER ABOVE (P.S.G1)	GEOGRID LAYER

## INSPECTION DETAILS The following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

## COMPLIANCE EVIDENCE Must be included as appropriate

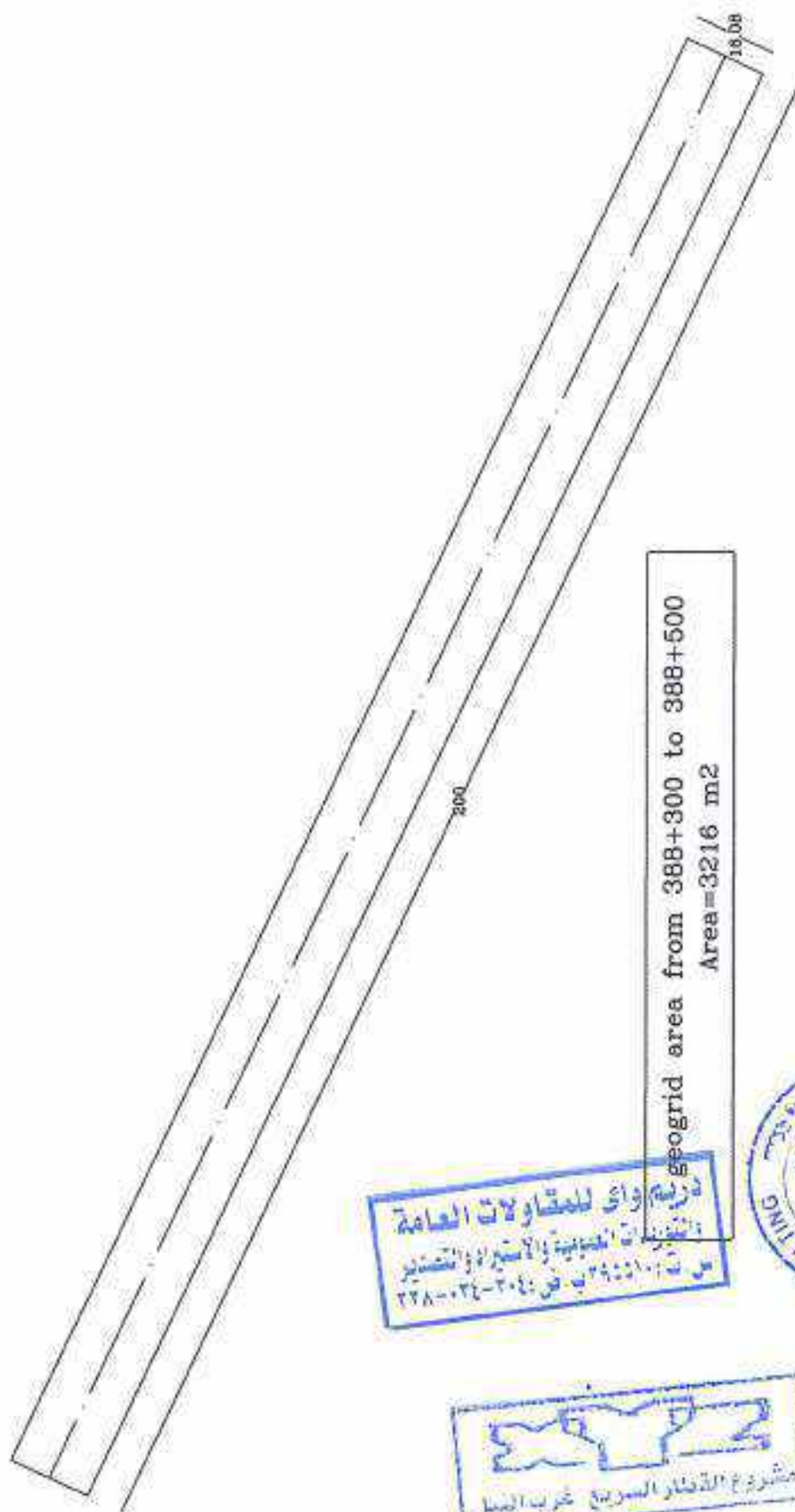
Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference PLAN AND PROFILE REV.31	I.T.P. References 1-PLAN 2-QUALITY TEST	MS Reference -Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed Mansour (XYZ)  
1- Attached Master Sheet approved by SPECTRUM.  
*مشروع الطريق السريع غرب النيل*

Comments by: Eng. Alaa Abd-Allatif (SPECTRUM)  
1- we need approved typical x sec to use geogrid between 183g2, the work has been according to instruction from GARB to contractor & GARB consultant. 2-xsec/20 m of rev30 should approved from system to calculate area 3-quality test checked by third party lab. 4-final approved in subject to above mentional comment.

Comments by: Eng. Saled Saief (SPECTRUM)  
1- تم استلام القطع فحص بصري  
2- تم مراجعة شيت المناسيب

INSPECTION RESULT				Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Date		
Contractor	Eng. Abdelrahman atef	<i>Abdelrahman atef</i>		A	
XYZ Survey	Eng. Mohamed Khalil			A	
QA/QC*	Eng. Saled Saif	<i>Saled Saif</i>		A	
GARB**	Eng. Mohammed Fayad				
Employers Representative	Eng. Alaa Abd-Allatif	<i>Alaa Abd-Allatif</i>		AWC	



دائرة الشؤون العامة  
البلدية  
ص ٢٧٨ - ٢٧٩ - ٢٨٠







الساده / شركة دريم واى للمقاولات

تحية طيبة وبعد...

الموضوع :- بشأن الطلب المقدم من سيادتكم بتاريخ ٢٠٢٣/١/٤ لإجراء اختبار على عدد (١) عينة

جيو جريد.

بالإشارة إلى الموضوع عالية. نشرف بأن نرفق لسيادتكم التقرير الذي أعد بواسطة كلا من :-

ا.د / رانيا محمد احمد محروس الديب

د / ياسمين الماحي.

بقسم هندسة الغزل والتسيخ وذلك من خلال المركز الهندسي.

مع خالص احترامي وتقديري،،

المدير التنفيذي للمركز الهندسي  
كلية الهندسة - جامعة الاسكندرية

ا.د/ زياد محمد طارق الصياد





Customer: Dream Way  
Sample type: Geogrid- biaxial

Sample code	Tensile strength (KN/m)	Elongation (%)
Geogrid- biaxial  According to ASTM (D6637-B)	44.2	13.29

The laboratory is responsible only for the sample provided.  
The sample provided is responsibility of the supplier.  
The result has a tolerance  $\pm 5\%$

Created by:

Dr. Yasmin Ayman Mohamed Hafez Elmahy

Approved by:

Prof. Dr. Rania Mohamed Ahmed Eldeeb





Contractor Company	DREAM WAY COMPANY			Designer Company	SPECTRUM CONSULTING				
Issued by Contractor	Name	Sign	Date/Serial Number		Time				
	Eng. Abdelrahman Atef	Abdelrahman Atef	22/11/2022 (M.A.R.12-1)		3:00 PM				
Received by GARS CONSULTANT	Eng. Mazen Essawy	MIR			CC	DD	MM	YY	HH
					308	12	05	22	11

Code	S1 to S21	D1 to D1	Rs XXX Note
	Station Reference	Deport Reference	For Kilometer point only Start Km is used
Work Activity			
Sub Element of Activity			

Description of Materials		PREPARED SUBGRADE 1				
Location to be Used		From	388+300	TO	388+500	
MAR & UIR Approval No		UIR -SG 07	Date		22/1/2023	
		M.A.R.(12-1)			28/11/2022	
Supplier Name		ELSEWY , Dream way				
Test Requirement		F.D.T(ASTM D 1556)		Specification	FATHWORK SPECIFICATIONS & TESTING REPORT (CE21-41.2) VERSION 2 BY CIVECON GROUP	
Reference Photos		No/Yes		Other		
Item	Description		Unit	Quantity	Arrival Date	Note
1	SAND CONE TEST		NUMBER	20		
2						
3						
4						

Comments by: Eng. Mazen Essawy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allah (ER)
1-The Compaction Test Result F.D.T. (ASTM D 1556) is approved.	1-F.D.T was carried- out by material engineer for both contractor and GARS 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. Abd elrahman Atef	Abdelrahman Atef		A
QA/QC*	Eng. Mazen Essawy			A
GARS**	Eng. Mohammed Fayed			
Employers Representative	Eng. Alaa Abd-Allah	2023 Alaa Abd-Allah		AWC

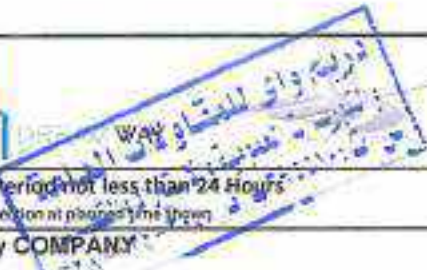
\* Designer

\*\* Alignment/Bridges/ Culverts only

24/ 01



# UNIVERSAL INSPECTION REQUEST



القناة  
القاهرة  
GARB



القناة  
القاهرة  
GARB



## RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company	Dream Way COMPANY			Designer Company*				(SPECTRUM) Engineering Consulting Office			
Issued by Contractor	Name	Sign		Date/Serial Number				Time			
	Eng. Elsseid Mohamed			12/02/2023 S5-B-DW-IR Gr(05)				1:00 p			
Received by GARB CONSULTANT	Eng. Mazen Esamy		UIR	C1	C2	C3	C4	MM	YY	HH	MM
				368	EW	CS	13	02	2023	01	01

CODE-1	S1 to S21 Station Reference	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used			
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CODE-2	Work Activity	
CODE-3	Sub Element of Activity	

## EXPLANATION OF WORK TO BE INSPECTED

Description				Element	Item
From St.	368+000	To St.	368+200	REV 29	OVERLAB 30CM , AREA=3216 M2
From St.	368+183.66	To St.	368+383.66	REV 35	
				Geogrid	

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

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

## COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as Indicated
Drawing Reference	References	MS Reference	
PLAN AND PROFILE (REV.35) , (REV.29)	S5-B-DW IR-SG(11)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION2 BY OVECON GROUP.	
POINT OF SHEET	S5-B-DW FBT-SG(11)	-TECHNICAL REPORT (CG21-122.1) VERSION 1 BY OVECON GROUP.	
POINT ON PLAN			
MASTER SHEET FOR CUT AND FILL			
APPROVED BY (SPECTRUM)CONSULTING			

Comments by: Eng. Mohamed KHALIL (XYZ)

- 1- Attached Master Sheet approved by SPECTRUM .
- 2-As Built (Geogrid) with overlap 30 cm , AREA= 3216 M2



Comments by: Eng. Mostafa reyad (SPECTRUM)



- Comments by: Eng. Alaa Abd-Allatif (GARB)
- 1-The work has been done according to instruction from GARB to contractor & GARB. ENG. consultant.
  - 2-Quality test checked by third party lab .( ALEXANDRIA UNIVERSITY )

## INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsaied Mohamed				A-AWC-R	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
GARB**	Eng. Margret magdy				A	
Employers Representative	Eng. Alaa Abd-Allatif				A	



# UNIVERSAL INSPECTION REQUEST



## 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	Dream way Company			Designer Company*	(SPECTRUM) Engineering Consulting Office
Issued by Contractor	Name	Sign	Date/Serial Number	Time	
	Eng. Abdelrahman atef	Abdelrahman	12/02/2023 IR-GE (5)	12:00 PM	
Received by GARB CONSULTANT	Eng. SAIED SAIF	SAIED	UIR	C1 388	C2 EW
				C3 CS	DD 13
				MM 02	YY 2023
				HH 12	MM 00

CODE-1	STATION REFERENCE	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

## EXPLANATION OF WORK TO BE INSPECTED

Description	Element	Item
From St. 388+000 To St. 388+200	GEOGRID LAYER ABOVE (P.5.G1)	GEOGRID LAYER

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

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

## COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	I.T.P. References	MS Reference	
PLAN AND PROFILE REV.31	1-PLAN 2-QUALITY TEST	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP	

Comments by: Eng. Mohamed Mansour (XYZ)

1- Attached Master Sheet approved by SPECTRUM.

Comments by: Eng. Saied Saif (SPECTRUM)

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

1- we need approved typical x sec to use geogrid between sg1&sg2, the work has been according to instruction from GARB to contractor&GARB consultant. 2-xsec/20 m of rev30 should approved from systra to calculate area 3-quality test checked by third party lab. 4-final approved in subject to above mentional comment

## INSPECTION RESULT

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

\* Designer

File Name : MS-F.L032



Geogrid area from 388+00 to 388+200  
Area 3216 m<sup>2</sup>

درجہ اولیٰ المتساویات العامة  
 في سنة ١٣٢٤ هـ  
 من تاريخ ١٣٢٤ - ١٣٢٥ هـ







الساده / شركة دريم واى للمقاولات

تحية طيبة وبعد...

الموضوع :- بشأن الطلب المقدم من سيادتكم بتاريخ ٢٠٢٣/١/٤ لإجراء اختبار على عدد (١) عينة جيو جريد.

بالإشارة إلى الموضوع عالية. نتشرف بأن نرفق لسيادتكم التقرير الذي أعد بواسطة كلا من :-

ا.د / رانيا محمد احمد محروس الديب

د / ياسمين الماخي.

بقسم هندسة الغزل والنسيج وذلك من خلال المركز الهندسي.

مع خالص احترامي وتقديري،،

المدير التنفيذي للمركز الهندسي  
كلية الهندسة - جامعة الاسكندرية

ا.د/ زياد محمد طارق الصياد



تحريرا في ١١ يناير ٢٠٢٣  
عزة.

شركة دريم واى للمقاولات العامة  
رئيس مجلس الادارة والتمويل والتطوير  
م.د/ زياد محمد طارق الصياد  
٢٢٨-٠٣٤-٢٠٤٠



Customer: Dream Way  
Sample type: Geogrid- biaxial

Sample code	Tensile strength (KN/m)	Elongation (%)
Geogrid- biaxial  According to ASTM (D6637-B)	44.2	13.29

The laboratory is responsible only for the sample provided.  
The sample provided is responsibility of the supplier.  
The result has a tolerance  $\pm 5\%$

Created by:

Dr. Yasmin Ayman Mohamed Hafez Elmahy

Approved by:

Prof. Dr. Rania Mohamed Ahmed Eldeeb







<b>MATERIAL INSPECTION REQUEST</b>					
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Contractor Company	DREAM WAY COMPANY		Designer Company	SPECTRUM Engineering Consulting Office	
Issued by Contractor	Name	Eng. Abdelrahman Atef	Date/Serial Number	Time	
	Sign		07/02/2023 M.A.R.SG. 11	3:00 PM	
Received by GARB CONSULTANT	Eng. Mazen Essamy		MM	DD	YY
			388	8W	CS
			E	2	23
			3	0	

Code-1	51 to 521	01 to 33	Km 100 Note
	Station Reference	Depot Reference	For kilometer point only Start Km is used
Code-2	Work Activity		
Code-3	Sub Element of Activity		

Description of Materials	PREPARED SUBGRADE 1				
Location to be Used	From	388+000	TO	388+200	
MAR & UIR Approval No	UIR -SG 11	Date	07/02/2023		
	M.A.R.(13-1)		(10/13/2022)		
Supplier Name	ELSEWY, Dream way				
Test Requirement	F.D.T (ASTM D 1556)	Specification	EARTH-WORK SPECIFICATIONS & TESTING REPORT (0023-43.2) VERSION 2 BY OVERCOW GROUP		
Reference Photos	No/Yes	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	SAND CONE TEST	NUMBER	20		
2					
3					
4					

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allatif (ER)
 <p>1-The Compaction Test Result F.D.T. (ASTM D 1556) is approved.</p>	<p>1-F.D.T was carried-out by material engineer for both contractor and GARB Consultant</p> <p>2-Results report attached and acceptable with project specifications.</p> <p>3-Final approval is subject to above mentioned comments.</p> 

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

\* Designer

\*\* Alignment/Bridges/ Culvert only.

11/02

الساده / شركة دريم واى للمقاولات

تحية طيبة وبعد...

الموضوع :- بشأن الطلب المقدم من سيادتكم بتاريخ ٢٠٢٢/١/٤ لإجراء اختبار على عدد (١) عينة جيوغريد.

بالإشارة إلى الموضوع عالية. نتشرف بأن نرفق لسيادتكم التقرير الذي أعد بواسطة كلا من :-

ا.د / رانيا محمد احمد محروس الديب

د / ياسمين الماحي.

بقسم هندسة الغزل والنسيج وذلك من خلال المركز الهندسي.

مع خالص احترامي وتقديري،،

المدير التنفيذي للمركز الهندسي  
كلية الهندسة - جامعة الاسكندرية

ا.د/ زياد محمد طارق الصياد







Customer: Dream Way  
Sample type: Geogrid- biaxial

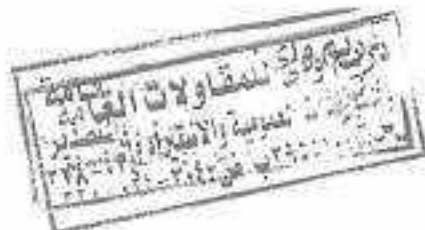
Sample code	Tensile strength (KN/m)	Elongation (%)
Geogrid- biaxial According to ASTM (D6637-B)	44.2	13.29

The laboratory is responsible only for the sample provided.  
The sample provided is responsibility of the supplier.  
The result has a tolerance  $\pm 5\%$

Created by:  
Dr. Yasmin Ayman Mohamed Hafez Elmahy



Approved by:  
Prof. Dr. Rania Mohamed Ahmed Eldeeb



Contractor Company		Dream Way		Designer Company		SPECTRUM ENGINEER CONSULTING OFFICE			
Issued by Contractor		Name		Sign		Date/Serial Number		Time	
		Eng.SAEED MOHAMMED				16/1/2023 (S5-B-DW) (P.L.T.07)		10:00 AM	
Received by GARB CONSULTANT		Eng.MAZEN ESSAMY				MIR			

CODE	S1 to S21		DL to S3		Kp XXX Note			
	Station Reference		Depot Reference		For Kilometer point only Start Km is used			
LOOK	Work Activity							
PICK	Sub Element of Activity							

Description of Materials		FERMA			
Location to be Used	REV.29	388+200	TO	388+300	
	REV.35	388+383.86		388+483.86	
Supplier Name	محاجر السيوي - العلمين				
Test Requirement	P.L.T (DIN 18134)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP		
Reference Photos	No/Yes	Other	S5-B-DW-IR-S(52) S5-B-DW-QT(19-1)		
Item	Description	Unit	Quantity	Arrival Date	Note
1	PLATE LOAD TEST	NUMBER	4	18/1/2023	
2					
3					
4					
Comments by: Eng.MAZEN ESSAMY(spectrum)			Comments by: Eng. Alaa Abd-Allatif (ER)		
 1-The Plate Load Test Result P.L.T. (DIN 18134) is Approved.			1-P.L.T was carried- out by third party lab (CEL) -  2-Results report attached and acceptable with project specifications.		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng.SAEED MOHAMMED			A
QA/QC*	Eng.MAZEN ESSAMY			A
GARB**	Eng. Margret magdy			
Employers Representative	Eng. Alaa Abd-Allatif			A

\* Designer

\*\* Alignment/Bridges: Culvert only


دريم واى للمقاولات العامة  
 لمهندسين  
 من ٢٠١٢ إلى ٢٠٢٣  
 ٢٢٨ - ٢٣٤ - ٢٠١



Contractor Company	DREAM WAY		Designer Company	(SPECTRUM) Engineering Consulting Office			
Issued by Contractor	Name	Eng. Abdelrahman Atef	Sign	Date/Serial Number		Time	
				17/1/2023 PLT(08)		3:00 PM	
Received by GARB CONSULTANT	Eng. Mazen Essamy	MIR		CL	CS	CS	DO
				388	EW	CS	18
				MM	YY	HH	MM

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

Location to be Used	From	388+200	TO	388+300
MAR	QT(12-2)	Date	20/12/2022	
Supplier Name	ELSEWY , Dream way			
Test Requirement	PLATE LOAD TEST ON FERMA	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21 41.2) VERSION 2 BY DIVECON GROUP	
Reference Photos	No/Yes	Other	UIR -S-4B	
Item	Description	Unit	Quantity	Arrival Date
1	PLT BY CONSULTING ENGINEERING BUREAU & LABORATORIES	NUMBER	2	
2				
3				
4				

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allatif (ER)
 <p>1-The plate load test result by third party is approval</p>	<p>1-2 points of plt. was carried- out by (CEL) on ferma layer</p> <p>2-Results report attached and acceptable with project specifications.</p> <p>3-Final approval is subject to above mentioned comments.</p>


APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Abd el rahman atef	Abdelrahman Atef		A
QA/QC *	Eng. Mazen Essamy			A
GARB**	Eng. Mohammed Fayad			
Employers Representative	Eng. Alaa Abd-Allatif	Alaa Abd-Allatif	19/1/2023	AWC

\* Designer


\*\* Alignment/Bridges: Culvert only

Contractor Company	AlMotahada 2 CO. for Contracting and Paving Roads			Designer Company	(SPECTRUM) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/Serial Number	Time							
	Eng. Abdelrahman Atef		17/1/2023	3:00 PM							
			PLT[08]								
Received by GARB CONSULTANT	Eng. Mazen Essamy		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				388	EW	CS	18	1	23	3	0

LINE 1	S1 to S23	D1 to S3	Kp XXX Note
LINE 2	Station Reference	Depot Reference	For Kilometer point only Start km is used
LINE 3	Work Activity		
	Sub Element of Activity		

Location to be Used	From	388+200	TO	388+300
MAR		Date	15/1/2023	
Supplier Name	ELSEWY, Dream way			
Test Requirement	PLATE LOAD TEST	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (G21-41.2) VERSION 2 BY CIVECON GROUP	
Reference Photos	No/Yes	Other	uik-	

Item	Description	Unit	Quantity	Arrival Date	Note
1	PLT BY CONSULTING ENGINEERING BUREAU & LABORATORIES	NUMBER	2		
2					
3					
4					

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allatif (ER)
 <p>1-The plate load test result by third party is approval</p>	<p>1-2 points of plt was carried- out by (CEL) on ferma layer</p> <p>2-Results report attached and acceptable with project specifications.</p> <p>3-Final approval is subject to above mentioned comments.</p>

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

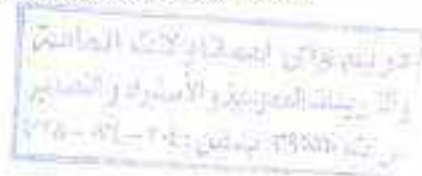
\* Designer

\*\* Alignment/Bridges/Culvert only



Company : شركة دريم واى

**Project** : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (6)  
- Borg AlArab to Foka  
**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 388+200 to 388+300  
**Test Date** : 17/01/2023  
**Report Date** : 18/01/2023  
**Type of Soil** : A-1-a  
**Type of soil** : Upper Embankment (Ferma).  
**Report No.** : 96:97



Dear Gentleman,

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

### Apparatus

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

### Test Procedure

1. Clean the ground on test area to the required level with undisturbed soil
2. Install loading plates 600 mm and 300 mm diameter, hydraulic jack and 3 dial gauges
3. Prior to starting the test applied preloading about 30 seconds.
4. The strain gauge and the dial gauge shall be set to zero
5. For a 600 mm loading plate, the limit values are 2.5 kg/cm<sup>2</sup>
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 (2<sup>nd</sup>) 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

**Type of Soil :** Upper Embankment (Ferma).  
**Job Requirement :**  $E_{v2} > 600 \text{ Kg/cm}^2$  (60 MPa).

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Partly Sunny
- Plate Diameter (mm)	600
- date of measurement	17/01/2023
- 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
	From	To	$E_{v1} \text{ (kg/cm}^2\text{)}$	$E_{v2} \text{ (kg/cm}^2\text{)}$	
1	388+200	388+250	1607	1607	1.0
2	388+250	388+300	1286	2045	1.6

Signature /

  
 مكتب معامل الاستشارات الهندسية  
 3 شارع الملك الأفضل - الزمالك - القاهرة





# Nonrepetitive Static Plate Load Tests of Soils

### Data sheet

Loading	Stress Kg/cm2	Dial 1	Settlement	Dial 2	Settlement	Dial 3	Settlement	Average
			mm		mm		mm	
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.84	0.16	19.83	0.17	19.90	0.10	0.14
2	0.83	19.71	0.29	19.70	0.30	19.78	0.22	0.27
3	1.25	19.60	0.40	19.58	0.42	19.65	0.35	0.39
4	1.67	19.48	0.52	19.46	0.54	19.55	0.45	0.50
5	2.08	19.36	0.64	19.34	0.66	19.46	0.54	0.61
6	2.50	19.26	0.74	19.24	0.76	19.37	0.63	0.71

Loading	Stress	Dial 1	Settlement	Dial 2	Settlement	Dial 3	Settlement	Average
	Kg/cm2		mm		mm		mm	
1	2.50	19.26	0.74	19.24	0.76	19.37	0.63	0.71
2	1.25	19.30	0.70	19.30	0.70	19.40	0.60	0.67
3	0.625	19.46	0.54	19.48	0.52	19.56	0.44	0.50
4	0.01	19.74	0.26	19.78	0.22	19.82	0.18	0.22

[illegible]


 المملكة العربية السعودية  
 وزارة التعليم  
 الرياض



Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 17/01/2023  
report date : 18/01/2023  
Location : Station 388+200 to 388+250  
Test No. : 1

مريم ولى لا مقامات الخاصة  
والتعليمية والاشعة والتجديد  
مكتب معمل الإستشارات الهندسية  
17-01-2023

#### 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	0.14	0.27	0.39	0.50	0.61	0.71

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm2)	2.50	1.25	0.825	0.01
Settlement (mm)	0.71	0.67	0.50	0.22

D (mm) =	600	S1 (mm)=	0.24	S2(mm)=	0.52	ΔS =	0.28
Ev1 (kg/cm2) =	(0.75*D*Δσ)/ΔS		1607				

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)	0.22	0.28	0.41	0.53	0.63	0.72

Ev2/Ev1 = 1.0

D (mm) =	600	S1 (mm)=	0.38	S2(mm)=	0.66	ΔS =	0.28
Ev2 (kg/cm2) =	(0.75*D*Δσ)/ΔS		1607				

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/cm<sup>2</sup>)  
ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

Signature:   
مكتب معمل الإستشارات الهندسية  
الزمالك - القاهرة





Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 17/01/2023  
report date : 18/01/2023  
Location : Station 388+250 to 388+300  
Test No. : 2

# Nonrepetitive Static Plate Load Tests of Soils

### Data sheet

### Loading Stage (1)

Loading	Stress	Dial 1	Settlement	Dial 2	Settlement	Dial 3	Settlement	Average
	Kg/cm2		mm		mm		mm	
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.82	0.18	19.83	0.17	19.83	0.17	0.17
2	0.83	19.70	0.30	19.71	0.29	19.71	0.29	0.29
3	1.25	19.58	0.42	19.51	0.49	19.57	0.43	0.45
4	1.67	19.37	0.63	19.41	0.59	19.43	0.57	0.60
5	2.08	19.25	0.75	19.28	0.72	19.32	0.68	0.72
6	2.50	19.14	0.86	19.18	0.82	19.21	0.79	0.82

### Unloading Stage (1)

Loading	Stress	Dial 1	Settlement	Dial 2	Settlement	Dial 3	Settlement	Average
	Kg/cm2		mm		mm		mm	
1	2.50	19.14	0.86	19.18	0.82	19.21	0.79	0.82
2	1.25	19.17	0.83	19.22	0.78	19.26	0.74	0.78
3	0.625	19.21	0.79	19.26	0.74	19.41	0.59	0.71
4	0.01	19.54	0.46	19.58	0.42	19.81	0.19	0.36

### Loading Stage (2)

[illegible]

Signature \_\_\_\_\_


 رئيس الجمهورية  
 محمد عبد المجيد تبون



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Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 17/01/2023  
report date : 18/01/2023  
Location : Station 388+250 to 388+300  
Test No. : 2

#### 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	0.17	0.29	0.45	0.60	0.72	0.82

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)	0.82	0.78	0.71	0.36

D (mm) =	600	S1 (mm) =	0.27	S2 (mm) =	0.62	ΔS =	0.35
Ev1 (kg/cm²) =	$(0.75 \cdot D \cdot \Delta \sigma) / \Delta S$						1286

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)	0.36	0.46	0.56	0.66	0.74	0.84

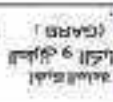
$$Ev2/Ev1 = 1.6$$

D (mm) =	600	S1 (mm) =	0.54	S2 (mm) =	0.76	ΔS =	0.22
Ev2 (kg/cm²) =	$(0.75 \cdot D \cdot \Delta \sigma) / \Delta S$						2045

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)








[illegible]

Code	Work Activity	Sub Element of Activity
1000-1	SI to S2L	Report Reference
1000-2	SI to S3	Report Reference
1000-3	For Kilometer point only Start Km is used	

Description of Materials	FERMA			
	Location to be Used		TO	
	REV.29	388+000	388+200	388+383.86
	REV.35	388+183.86		388+383.86
Supplier Name	Opdell - 159441-Jordan			
Test Requirement	P.L.T (DIN 18134)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT 10521-413) VERSION 2 BY OVERCON GROUP	
Reference Photos	No/Yes	Other	S5-B-DW-IR-S(54) S5-B-DW-QT(20-1)	
Item	Description	Unit	Quantity	Arrival Date
1	PLATE LOAD TEST	NUMBER	4	1/2/2023
2				
3				
4				
				Note

<p>Comments by: Eng. Muzen Essam (Spectrum)</p>	<p>1-P.L.T was carried-out by third party lab (CEL) -</p> <p>2-Results report attached and acceptable with project specifications.</p>
<p>Comments by: Eng. Muzen Essam (Spectrum)</p>	<p>1-The Plate Load Test Result per (QIN 18154) is approved</p>

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	Eng. SAIED MOHAMMED		A
UA/DC *	Eng. MAZEN ESSAMY		A
SARB **	Eng. Margaret emady		
Employers Representative	Eng. Alaa Abd-Alattif		A

<b>RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 Hours</b> The Work described below will be complete and ready for inspection at planned time shown									
Contractor Company		Dream way Company		Designer Company		(SPECTRUM) Engineering Consulting Office			
Issued by Contractor		Name Eng. Abdelrahman atef		Date/Serail Number 30/01/2023 PLT(10)		Time 3:00 PM			
Received by GARB		Eng. mazen essayy		MIR		C1 C2 C3		DD MM YY HH MM	
CONSULTANT						CS		31 01 2023 12 00	
CODE - 1		STATION REFERENCE		D1 to D3 Depot Reference		Kg XXX Note			
CODE - 2		Work Activity		Sub Element of Activity					
CODE - 3		Description of material		PLATE LOAD TEST ON FERMA					
		Location to be used		from 368+000		TO 388+200			
		MAR		QT(1-2)		Date		29/12/2022	
		SUPPLIER NAME		ELSEWY , Dream way					
		Test Requirement		PLATE LOAD TEST ON FERMA		Specification		LATEST WORK SPECIFICATIONS & TESTING REPORT (CODE 1-4) VERSION 2 BY CIVILCON GROUP.	
		Reference photos		No/Yes		Other		UIR-S(4)	
Item		Description		Unit		Quantity		Arrival Date	
1		pit by consulting engineering				4			
2		bureaus/operatives							
Comments by: Eng. Mazen Essayy (SPECTRUM)									
 The plate load test results by third party is approval									
<b>APPROVAL STATUS</b> Name: Eng. Abdelrahman atef Sign:  Date: Organisation: Contractor: QA/QC: Eng. Mazen essayy GARB: Eng. Mohammed Fayed Employers Representative: Eng. Alaa Abd-Allatif Designer:  Page 1 of 1									



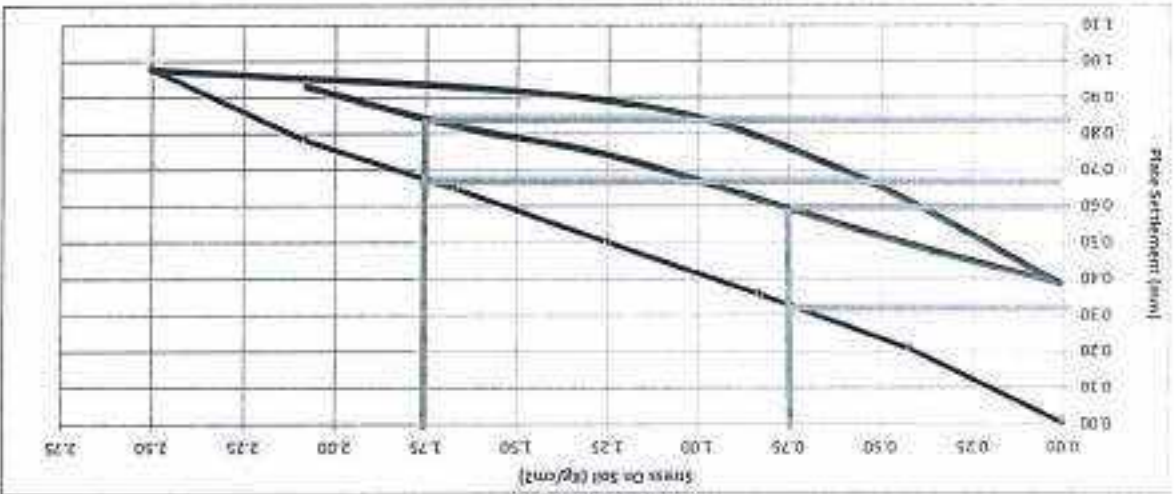


Company Name  
Project  
Test Date  
Report date  
Location  
Test No.

: dream Way Co.  
: Electric Express Train, from Borg Al Arab to Alamein.  
: 31/01/2023  
: 01/02/2023  
: Station 388+000 to 388+050  
: 05

Consulting Engineering Bureau & Laboratories  
مكتب استشارات الهندسة

**CEL**



Nonrepertive Static Load Tests of Soils  
DIN 18134

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	0.21	0.36	0.50	0.65	0.78	0.98

D (mm) =	600
S1 (mm)=	0.32
S2(mm)=	0.66
ΔS =	0.36

$$E_v (\text{kg/cm}^2) = (0.75 \cdot D \cdot \Delta S) / \Delta S$$

1250

Loading (t)	0	1	2	3	4	5
Stage(kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.39	0.49	0.62	0.74	0.82	0.93

D (mm) =	600
S1 (mm)=	0.60
S2(mm)=	0.92
ΔS =	0.22

$$E_v (\text{kg/cm}^2) = (0.75 \cdot D \cdot \Delta S) / \Delta S$$

2045



E<sub>v</sub> = Modulus of deformation during the loading stage  
E<sub>v</sub> = Modulus of deformation during the unloading stage  
D = Plate diameter (mm)  
ΔS = Five difference between 0.3 and 0.7 from the maximum loading (mm)  
DS = Difference in settlement corresponding to 0.3 and 0.7 from the maximum loading (mm)



$$E_v / E_v = 1.5$$

Unloading (t)	1	2	3	4
Stage(kg)	7065	3633	1768	0
Stress (kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	0.98	0.89	0.71	0.39

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تمت الاختبار في 01/02/2023  
مهندس الاختبار: محمد عبد الله  
مهندس الإشراف: أحمد محمد

Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 31/01/2023  
report date : 01/02/2023  
Location : Station 388+050 to 388+100  
Test No : 06

**Nonrepetitive Static Plate Load Tests of Soils**  
**DIN 18134**

Data sheet

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	20.00	0.00
1	0.42	19.78	0.22	19.84	0.16	19.69	0.31	19.69	0.23
2	0.83	19.60	0.40	19.71	0.29	19.50	0.50	19.50	0.40
3	1.25	19.38	0.62	19.57	0.43	19.35	0.65	19.35	0.57
4	1.67	19.20	0.80	19.40	0.60	19.21	0.79	19.04	0.73
5	2.08	19.04	0.96	19.22	0.78	19.04	0.96	19.04	0.90
6	2.50	18.90	1.10	19.02	0.98	18.91	1.09	18.91	1.06

**Unloading Stage (1)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	18.90	1.10	19.02	0.98	18.91	1.09	18.91	1.06
2	1.25	19.00	1.00	19.10	0.90	19.03	0.97	19.03	0.96
3	0.625	19.28	0.72	19.31	0.69	19.19	0.81	19.19	0.74
4	0.01	19.60	0.40	19.60	0.40	19.58	0.42	19.58	0.41

**Loading Stage (2)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	19.50	0.50	19.48	0.52	19.50	0.50	19.50	0.51
1	0.83	19.38	0.62	19.30	0.70	19.36	0.64	19.36	0.65
2	1.25	19.25	0.75	19.13	0.87	19.21	0.79	19.21	0.80
3	1.67	19.13	0.87	19.02	0.98	19.11	0.89	19.11	0.91
4	2.08	19.00	1.00	18.93	1.07	19.00	1.00	19.00	1.02



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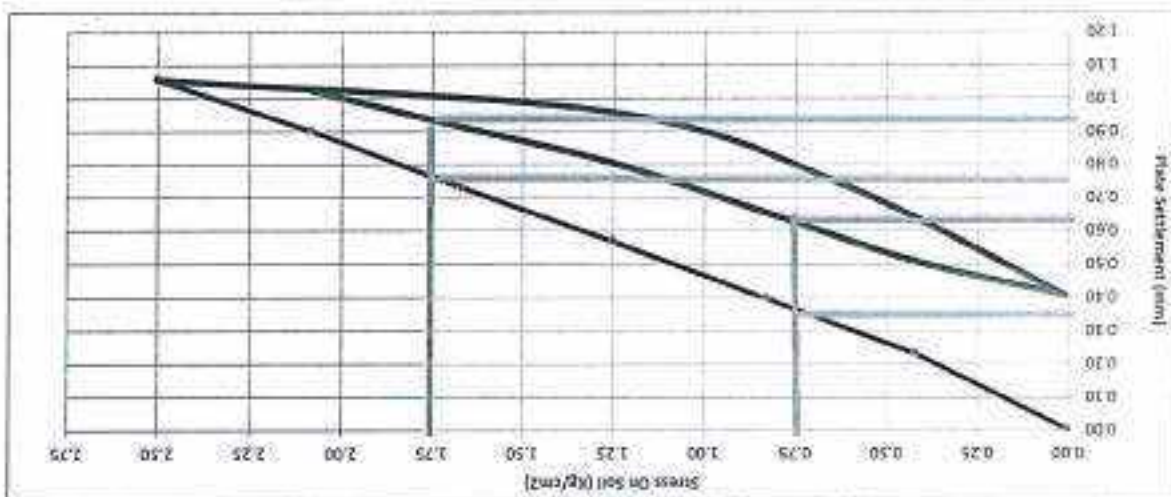
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Company Name  
Project  
Test Date  
Report date  
Location  
Test No.

dream Way Co.  
Electric Express Train, from Borg Al Arab to Alamein.  
31/01/2023  
01/02/2023  
Station 388+050 to 388+100  
06

مكتب استشارات الهندسة  
31/01/2023  
01/02/2023  
Station 388+050 to 388+100  
06

**Nonrepertitive Static Plate Load Tests of Soils**  
**DIN 18134**



Loading (t)	Stage(Kg)	Stress (Kg/cm²)	Settlement (mm)
0	0	0.00	0.00
1	1186.92	0.42	0.23
2	2345.6	0.83	0.40
3	3532.5	1.25	0.57
4	4719.4	1.67	0.73
5	5878.1	2.08	0.90
6	7065	2.50	1.06

$D (mm) = 600$	$S1 (mm) = 0.35$	$S2 (mm) = 0.75$	$AS = 0.40$
----------------	------------------	------------------	-------------

Loading (t)	Stage(Kg)	Stress (Kg/cm²)	Settlement (mm)
0	0	0.01	0.41
1	1186.92	0.42	0.51
2	2345.6	0.83	0.65
3	3532.5	1.25	0.80
4	4719.4	1.67	0.91
5	5878.1	2.08	1.02

$D (mm) = 600$	$S1 (mm) = 0.62$	$S2 (mm) = 0.92$	$AS = 0.30$
----------------	------------------	------------------	-------------

E1 = Modulus of deformation during the loading stage.  
E2 = Modulus of deformation during the unloading stage.  
D = Plate diameter (mm)  
DS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)  
DS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)



$EV2/EV1 = 1.3$

Unloading (t)	Stage(Kg)	Stress (Kg/cm²)	Settlement (mm)
4	0	0.01	0.41
3	1768	0.625	0.74
2	3533	1.25	0.96
1	7065	2.50	1.06



Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein,  
Test Date : 31/01/2023  
report date : 01/02/2023  
Location : Station 388+100 to 388+150  
Test No : 07

**Nonrepertive Static Plate Load Tests of Soils**  
**DIN 18134**

Data sheet

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	20.00	0.00
1	0.42	19.88	0.12	19.82	0.18	19.79	0.21	19.79	0.17
2	0.83	19.75	0.25	19.70	0.30	19.65	0.35	19.65	0.30
3	1.25	19.64	0.36	19.69	0.31	19.53	0.47	19.53	0.38
4	1.67	19.51	0.49	19.58	0.42	19.40	0.60	19.40	0.50
5	2.08	19.40	0.60	19.44	0.56	19.29	0.71	19.29	0.62
6	2.50	19.28	0.72	19.25	0.75	19.10	0.90	19.10	0.79

**Unloading Stage (1)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	19.28	0.72	19.25	0.75	19.10	0.90	19.10	0.79
2	1.25	19.35	0.65	19.36	0.64	19.16	0.84	19.16	0.71
3	0.625	19.50	0.50	19.47	0.53	19.33	0.67	19.33	0.57
4	0.01	19.80	0.20	19.70	0.30	19.65	0.35	19.65	0.28

**Loading Stage (2)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	19.74	0.26	19.61	0.39	19.60	0.40	19.60	0.35
1	0.83	19.61	0.39	19.49	0.51	19.51	0.49	19.51	0.46
2	1.25	19.50	0.50	19.38	0.62	19.43	0.57	19.43	0.56
3	1.67	19.39	0.61	19.25	0.75	19.30	0.70	19.30	0.69
4	2.08	19.28	0.72	19.14	0.86	19.19	0.81	19.19	0.80



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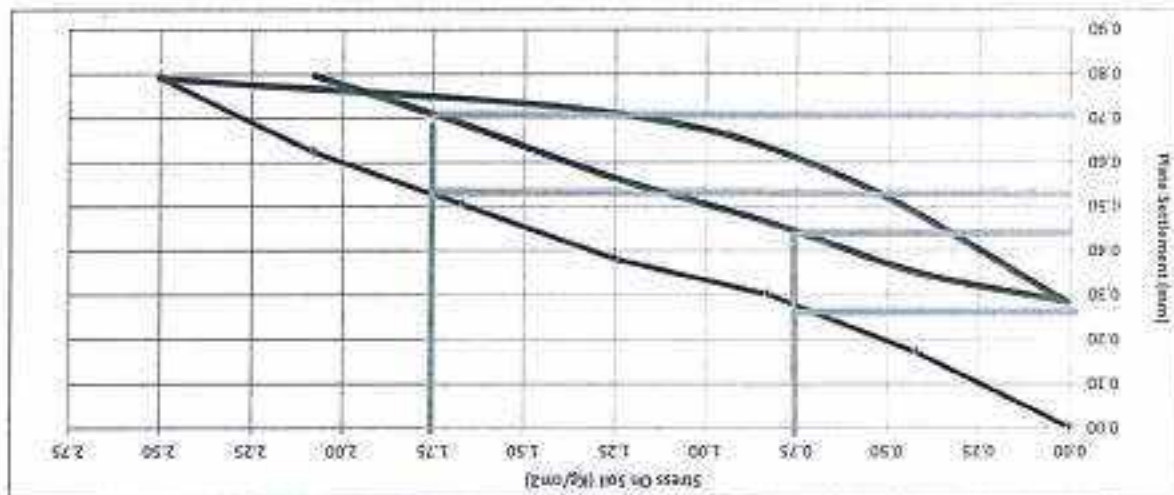
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Company Name  
Project  
Test Date  
Report date  
Location  
Test No.

: dream Way Co.  
: Electric Express Train, from Borg Al Arab to Alamein.  
: 31/01/2023  
: 01/02/2023  
: Station 388+100 to 388+150  
: 07

مكتب استشارات الهندسة  
388+100 to 388+150  
07

**Nonrepelitive Static Load Tests of Soils  
DIN 18134**



Loading (t)	Stage(Kg)	Stress (kg/cm <sup>2</sup> )	Settlement (mm)
0	0	1186.92	0.00
1	1186.92	2345.6	0.17
2	2345.6	3532.5	0.30
3	3532.5	4719.4	0.38
4	4719.4	5878.1	0.50
5	5878.1	7065	0.62
6	7065	8252	0.79

D (mm) =	S1 (mm)=	S2(mm)=	AS =
600	0.27	0.53	0.26

$$E_v1 \text{ (kg/cm}^2\text{)} = (0.75 \cdot D \cdot \Delta\sigma) / \Delta S$$

Loading (t)	Stage(Kg)	Stress (kg/cm <sup>2</sup> )	Settlement (mm)
0	0	1186.92	0.01
1	1186.92	2345.6	0.01
2	2345.6	3532.5	0.01
3	3532.5	4719.4	0.01
4	4719.4	5878.1	0.01
5	5878.1	7065	0.01

D (mm) =	S1 (mm)=	S2(mm)=	AS =
600	0.44	0.70	0.26

$$E_v2 \text{ (kg/cm}^2\text{)} = (0.75 \cdot D \cdot \Delta\sigma) / \Delta S$$

E<sub>v1</sub> = modulus of deformation during the loading stage.  
E<sub>v2</sub> = modulus of deformation during the reloading stage.  
D = Plate diameter (mm)  
ΔS = The difference between S<sub>1</sub> and S<sub>2</sub> from the maximum loading (mm)  
ΔS = Difference in settlements corresponding to S<sub>1</sub> and S<sub>2</sub> from the maximum loading (mm)



E<sub>v2</sub>/E<sub>v1</sub> = 1.0

Unloading (t)	Stage(Kg)	Stress (kg/cm <sup>2</sup> )	Settlement (mm)
0	0	1186.92	0.01
1	1186.92	2345.6	0.01
2	2345.6	3532.5	0.01
3	3532.5	4719.4	0.01
4	4719.4	5878.1	0.01
5	5878.1	7065	0.01
6	7065	8252	0.01



Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 31/01/2023  
Report date : 01/02/2023  
Location : Station 388+150 to 388+200  
Test No. : 08

**Nonrepetitive Static Plate Load Tests of Soils**  
**DIN 18134**

Data sheet

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	0.42	19.84	0.16	19.76	0.22	19.80	0.20	0.19
2	0.83	0.83	19.70	0.30	19.63	0.37	19.66	0.34	0.34
3	1.25	1.25	19.63	0.37	19.52	0.48	19.56	0.44	0.43
4	1.67	1.67	19.51	0.49	19.40	0.60	19.45	0.55	0.55
5	2.08	2.08	19.40	0.60	19.31	0.69	19.34	0.66	0.66
6	2.50	2.50	19.28	0.72	19.12	0.88	19.15	0.85	0.82

**Unloading Stage (1)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	2.50	19.28	0.72	19.12	0.88	19.15	0.85	0.82
2	1.25	1.25	19.32	0.68	19.18	0.82	19.20	0.80	0.77
3	0.625	0.625	19.44	0.56	19.29	0.71	19.38	0.62	0.63
4	0.01	0.01	19.75	0.25	19.60	0.40	19.71	0.29	0.31

**Loading Stage (2)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	0.42	19.70	0.30	19.49	0.51	19.60	0.40	0.40
1	0.83	0.83	19.52	0.48	19.37	0.63	19.49	0.51	0.54
2	1.25	1.25	19.40	0.60	19.28	0.72	19.37	0.63	0.65
3	1.67	1.67	19.28	0.72	19.19	0.81	19.28	0.72	0.75
4	2.08	2.08	19.19	0.81	19.08	0.92	19.17	0.83	0.85



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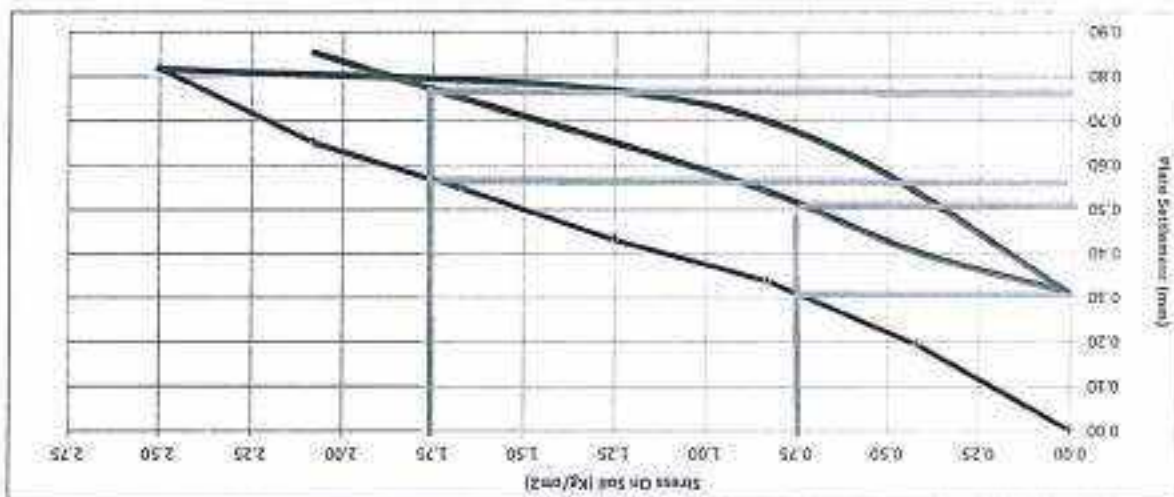
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Company Name  
Project  
Test Date  
Report date  
Location  
Test No.

: dream Way Co.  
: Electric Express Train, from Borg Al Arab to Alamein.  
: 31/01/2023  
: 01/02/2023  
: Station 388+150 to 388+200  
: 08

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**Nonrepetitive Static Load Tests of Soils**  
**DIN 18134**



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	0.19	0.34	0.43	0.55	0.65	0.82

Loading (t)	0	1	2	3	4	5
Stage (Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.09
Settlement (mm)	0.31	0.40	0.54	0.65	0.75	0.85

EV2/EV1 = 1.0

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)	0.82	0.77	0.63	0.31

EV1 = modulus of deformation during the loading stage.  
EV2 = modulus of deformation during the reloading stage.  
D = Plate diameter (mm)  
Ds = The difference between 0.3 and 0.7 from the maximum loading (mm)  
OS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)



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Contractor Company	Dream Way	Designer Company	SPECTRUM ENGINEER CONSULTING OFFICE				
Issued by Contractor	Name	Sign	Date/Serial Number		Time		
	Eng.SAEED MOHAMMED		12/1/2023 (55-B-DW) (P.L.T.07)		10:00 AM		
Received by GARB CONSULTANT	Eng.MAZEN ESSAMY	MIR	DD	MM	YY	HH	MM
			308	EW	CS	13	1 2023 10 0

CODE-1	S1 to S21 Station Reference	D1 to D3 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	FERMA				
Location to be Used	REV.29	388+300	TO	388+500	
	REV.35	388+483.86		388+683.86	
Supplier Name	محاجر السيوي - العلمين				
Test Requirement	P.L.T (DIN 18134)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG2L-41.2) VERSION 2 BY CMECON GROUP		
Reference Photos	No/Yes	Other	55-B-DW-IR-S(48) 55-B-DW-QT(19-1)		
Item	Description	Unit	Quantity	Arrival Date	Note
1	PLATE LOAD TEST	NUMBER	4	14/1/2023	
2					
3					
4					

Comments by: Eng.MAZEN ESSAMY(spectrum)  <div style="text-align: center;">  </div> 1-The Plate Load Test Result p.L.T. (DIN 18134) is Approved.	Comments by: Eng. Alaa Abd-Allatif (ER)  1-P.L.T was carried- out by third party lab (CEL) .  2-Results report attached and acceptable with project specifications.
--	---

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng.SAEED MOHAMMED			A
QA/QC *	Eng.MAZEN ESSAMY			A
GARB**	Eng. Margret magdy			
Employers Representative	Eng. Alaa Abd-Allatif			A

\* Designer  
 \*\* Alignment/Bridges: Culvert only


Contractor Company	DREAM WAY		Designer Company	(SPECTRUM) Engineering Consulting Office																									
Issued by Contractor	Name	Sign	Date/Serial Number	Time																									
	Eng. Abdelrahman Atef	<i>Abdelrahman Atef</i>	17/01/2023 PLT(07)	3:00 PM																									
Received by GARB CONSULTANT	Eng. Mazen Essamy	<i>Mazen Essamy</i>	MIR	<table border="1"> <tr> <td>01</td> <td>02</td> <td>03</td> <td>04</td> <td>05</td> <td>06</td> <td>07</td> <td>08</td> </tr> <tr> <td>09</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> </tr> </table>	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	<table border="1"> <tr> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>1</td> <td>23</td> <td>3</td> <td>0</td> </tr> </table>	MM	YY	HH	MM	1	23	3	0
01	02	03	04	05	06	07	08																						
09	10	11	12	13	14	15	16																						
MM	YY	HH	MM																										
1	23	3	0																										

K00-1	S1 to S21	D1 to S3	Kp XXX Note
	Station Reference	Depot Reference	For Kilometer point only Start Km is used
Work Activity			
Sub Element of Activity			

Location to be Used	From	388+300	TO	388+500
MAR	QT(12-2)	Date	01/07/2023	

Supplier Name	ELSEWY , Dream way		
Test Requirement	PLATE LOAD TEST ON FERMA	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CS23 4L2) VERSION 2 BY CIVECON GROUP
Reference Photos	No/Yes	Other	UIR -S-48

Item	Description	Unit	Quantity	Arrival Date	Note
1	PLT BY CONSULTING ENGINEERING BUREAU & LABORATORIES	NUMBER	4		
2					
3					
4					

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allatif (ER)
 <p>1-The plate load test result by the company is approval</p>	<p>1-4 points of plt was carried- out by (CEL) on ferma layer</p> <p>2-Results report attached and acceptable with project specifications.</p> <p>3-Final approval is subject to above mentioned comments.</p>

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Abd el rahman atef	<i>Abdelrahman Atef</i>		A
QA/QC *	Eng. Mazen Essamy	<i>Mazen Essamy</i>		A
GARB**	Eng. Mohammed Fayad			
Employers Representative	Eng. Alaa Abd-Allatif	<i>Alaa Abd-Allatif</i>		AWC

\* Designer

\*\* Alignment/Bridges: Culvert only

15/01



Company : شركة دريم واى

**Project** : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (6)  
- Alamein to Foka  
**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 388+300 to 388+500  
**Test Date** : 12/01/2023  
**Report Date** : 14/01/2023  
**Type of Soil** : A-1-a  
**Type of soil** : Upper Embankment (Ferma).  
**Report No.** : 92:95



Dear Gentleman,

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

### Apparatus

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

### Test Procedure

1. Clean the ground on test area to the required level with undisturbed soil
2. Install loading plates 600 mm and 300 mm diameter, hydraulic jack and 3 dial gauges
3. Prior to starting the test applied preloading about 30 seconds.
4. The strain gauge and the dial gauge shall be set to zero
5. For a 600 mm loading plate, the limit values are 2.5 kg/cm<sup>2</sup>
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 (2<sup>nd</sup>) 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

Type of Soil : Upper Embankment (Ferma).  
Job Requirement :  $E_{v2} > 600 \text{ Kg/cm}^2$  (60 MPa).

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Partly Sunny
- Plate Diameter (mm)	600
- date of measurement	12/01/2023
- 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
	From	To	$E_{v1} (\text{kg/cm}^2)$	$E_{v2} (\text{kg/cm}^2)$	
1	388+300	388+350	1324	2250	1.7
2	388+350	388+400	1286	2250	1.8
3	388+400	388+450	1324	2143	1.6
4	388+450	388+500	1125	2045	1.8

Signature / 

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رقم التسجيل المميز : 537 - 991 - 219  
القاهرة - الجيزة - الزمالة





Company Name : dream Way Co.  
Project : Electric Express Train, from Berg Al Arab to Alamein.  
Test Date : 12/01/2023  
report date : 14/01/2023  
Location : Station 388+300 to 388+350  
Test No. : 1



**Nonrepetitive Static Plate Load Tests of Soils**  
**DIN 18134**

**Data sheet**

**Loading Stage (1)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.80	0.20	19.75	0.25	19.84	0.16	0.20
2	0.83	19.66	0.34	19.62	0.38	19.73	0.27	0.33
3	1.25	19.50	0.50	19.48	0.52	19.60	0.40	0.47
4	1.67	19.35	0.65	19.31	0.69	19.46	0.54	0.63
5	2.08	19.24	0.76	19.18	0.82	19.32	0.68	0.75
6	2.50	19.12	0.88	19.06	0.94	19.20	0.80	0.87

**Unloading Stage (1)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.12	0.88	19.06	0.94	19.20	0.80	0.87
2	1.25	19.15	0.85	19.11	0.89	19.24	0.76	0.83
3	0.625	19.19	0.81	19.16	0.84	19.29	0.71	0.79
4	0.01	19.52	0.48	19.38	0.62	19.62	0.38	0.49

**Loading Stage (2)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.46	0.54	19.31	0.69	19.52	0.48	0.57
1	0.83	19.38	0.62	19.25	0.75	19.44	0.56	0.64
2	1.25	19.30	0.70	19.19	0.81	19.35	0.65	0.72
3	1.67	19.22	0.78	19.12	0.88	19.26	0.74	0.80
4	2.08	19.13	0.87	19.04	0.96	19.18	0.82	0.88
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature



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Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 12/01/2023  
report date : 14/01/2023  
Location : Station 388+300 to 388+350  
Test No. : 1

تم إجراء اختبار الضغط على التربة  
في محطة 388+300 إلى 388+350  
في 12/01/2023  
بواسطة المهندس / محمد عبد الله

#### 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	0.20	0.33	0.47	0.63	0.75	0.87

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)	0.87	0.83	0.79	0.49

D (mm) =	600	S1 (mm) =	0.30	S2 (mm) =	0.64	ΔS =	0.34
Ev1 (kg/cm2) =	$(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$		1324				

$$Ev2/Ev1 = 1.7$$

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)	0.49	0.57	0.64	0.72	0.80	0.88

D (mm) =	600	S1 (mm) =	0.62	S2 (mm) =	0.82	ΔS =	0.20
Ev2 (kg/cm2) =	$(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$		2250				

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Δσ = The difference between 0.3 and 0.7 from the maximum loading (smax) (kg/cm<sup>2</sup>)

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

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البريد الإلكتروني: info@cel-egypt.com



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Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 12/01/2023  
report date : 14/01/2023  
Location : Station 388+350 to 388+400  
Test No. : 2

**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	19.83	0.17	19.78	0.22	19.81	0.19	0.19
2	0.83	19.70	0.30	19.63	0.37	19.70	0.30	0.32
3	1.25	19.54	0.46	19.50	0.50	19.52	0.48	0.48
4	1.67	19.37	0.63	19.41	0.59	19.35	0.65	0.62
5	2.08	19.25	0.75	19.28	0.72	19.20	0.80	0.76
6	2.50	19.14	0.86	19.18	0.82	19.07	0.93	0.87

**Unloading Stage (1)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.14	0.86	19.18	0.82	19.07	0.93	0.87
2	1.25	19.17	0.83	19.22	0.78	19.11	0.89	0.83
3	0.625	19.21	0.79	19.26	0.74	19.15	0.85	0.79
4	0.01	19.54	0.46	19.58	0.42	19.42	0.58	0.49

**Loading Stage (2)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.46	0.54	19.50	0.50	19.34	0.66	0.57
1	0.83	19.40	0.60	19.41	0.59	19.22	0.78	0.66
2	1.25	19.34	0.66	19.32	0.68	19.14	0.86	0.73
3	1.67	19.23	0.77	19.23	0.77	19.03	0.97	0.84
4	2.08	19.12	0.88	19.10	0.90	19.00	1.00	0.93
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

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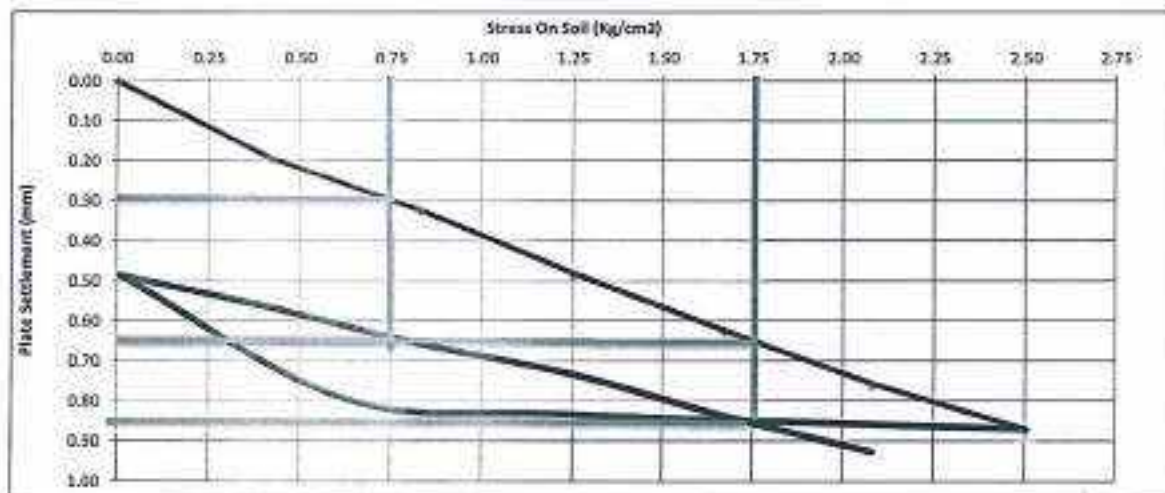
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Company Name : dream Way Co.  
Project : Electric Express Train, from Borg El Arab to Alamein.  
Test Date : 12/01/2023  
report date : 14/01/2023  
Location : Station 388+350 to 388+400  
Test No. : 2

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الاستشارات الهندسية  
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2023-01-14

**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	0.19	0.32	0.48	0.62	0.76	0.87

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1788	0
Stress (Kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	0.87	0.83	0.79	0.49

D (mm) =	600	S1 (mm)=	0.30	S2(mm)=	0.65	ΔS =	0.35
Ev1 (kg/cm²) =	(0.75*D*Δσ)/ΔS		1286				

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)	0.49	0.57	0.66	0.73	0.84	0.93

Ev2/Ev1 = 1.8

D (mm) =	600	S1 (mm)=	0.65	S2(mm)=	0.85	ΔS =	0.20
Ev2 (kg/cm²) =	(0.75*D*Δσ)/ΔS		2250				

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)







Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 12/01/2023  
report date : 14/01/2023  
Location : Station 388+400 to 388+450  
Test No. : 3

**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	19.92	0.08	19.80	0.20	19.73	0.27	0.18
2	0.83	19.82	0.18	19.68	0.32	19.56	0.44	0.31
3	1.25	19.70	0.30	19.53	0.47	19.42	0.58	0.45
4	1.67	19.53	0.47	19.40	0.60	19.30	0.70	0.59
5	2.08	19.36	0.64	19.27	0.73	19.17	0.83	0.73
6	2.50	19.23	0.77	19.16	0.84	19.05	0.95	0.85

**Unloading Stage (1)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.23	0.77	19.16	0.84	19.05	0.95	0.85
2	1.25	19.26	0.74	19.19	0.81	19.09	0.91	0.82
3	0.825	19.32	0.68	19.24	0.76	19.13	0.87	0.77
4	0.01	19.63	0.37	19.50	0.50	19.39	0.61	0.49

**Loading Stage (2)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.54	0.46	19.42	0.58	19.30	0.70	0.58
1	0.83	19.42	0.58	19.33	0.67	19.23	0.77	0.67
2	1.25	19.33	0.71	19.26	0.74	19.14	0.86	0.76
3	1.67	19.25	0.75	19.18	0.82	19.06	0.94	0.84
4	2.08	19.17	0.83	19.10	0.90	18.98	1.02	0.92
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature







Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 12/01/2023  
report date : 14/01/2023  
Location : Station 388+450 to 388+500  
Test No. : 4

**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	19.73	0.27	19.83	0.17	19.76	0.24	0.23
2	0.83	19.60	0.40	19.71	0.29	19.52	0.48	0.39
3	1.25	19.46	0.54	19.54	0.46	19.30	0.70	0.57
4	1.67	19.31	0.69	19.34	0.66	19.18	0.82	0.72
5	2.08	19.17	0.83	19.22	0.78	19.08	0.92	0.84
6	2.50	19.06	0.94	19.10	0.90	18.95	1.05	0.96

**Unloading Stage (1)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.06	0.94	19.10	0.90	18.95	1.05	0.96
2	1.25	19.10	0.90	19.15	0.85	18.98	1.02	0.92
3	0.625	19.14	0.86	19.21	0.79	19.04	0.96	0.87
4	0.01	19.38	0.62	19.47	0.53	19.34	0.66	0.60

**Loading Stage (2)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.31	0.69	19.40	0.60	19.28	0.72	0.67
1	0.83	19.23	0.77	19.32	0.68	19.21	0.79	0.75
2	1.25	19.14	0.86	19.23	0.77	19.10	0.90	0.84
3	1.67	19.08	0.92	19.12	0.88	19.01	0.99	0.93
4	2.08	19.00	1.00	19.03	0.97	18.93	1.07	1.01
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature

مكتب معامل الاستشارات الهندسية  
الاستشارات الهندسية  
رقم التسجيل المميز : 537 - 219/991  
1 شارع ستيفانوس - الجيزة





Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 12/01/2023  
report date : 14/01/2023  
Location : Station 388+450 to 388+500  
Test No. : 4

د. محمد داني القضاة  
المهندس الاستشاري  
م. محمد داني القضاة  
278-001-537

**Nonrepetitive Static Plate Load Tests of Soils  
DIN 18134**



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	0.23	0.39	0.57	0.72	0.84	0.96

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)	0.96	0.92	0.87	0.60

D (mm) =	600	S1 (mm)=	0.35	S2(mm)=	0.75	ΔS =	0.40
Ev1 (kg/cm2) =	(0.75*D*Δσ)/ΔS						1125

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)	0.60	0.67	0.75	0.84	0.93	1.01

Ev2/Ev1 = 1.8

D (mm) =	600	S1 (mm)=	0.72	S2(mm)=	0.94	ΔS =	0.22
Ev2 (kg/cm2) =	(0.75*D*Δσ)/ΔS						2045



Ev1 = Modulus of deformation during the loading stage.  
Ev2 = Modulus of deformation during the Reloading stage.  
D = Plate diameter (mm)  
Ds = The difference between 0.3 and 0.7 from the maximum loading (σmax) (kg/cm<sup>2</sup>)  
ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)



Contractor Company	Dream Way	Designer Company	SPECTRUM ENGINEER CONSULTING OFFICE																
Issued by Contractor	Name: Eng. SAEED MOHAMMED	Date/Serial Number	Time																
	Sign: 	13/12/2022 (SS-B-DW) (P.L.T.04)	10:00 AM																
Received by GARB CONSULTANT	Eng. MAZEN ESSAMY	MIR	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>CS</td> <td>CS</td> <td>CS</td> <td>DO</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>388</td> <td>EW</td> <td>CS</td> <td>14</td> <td>12</td> <td>2022</td> <td>10</td> <td>0</td> </tr> </table>	CS	CS	CS	DO	MM	YY	HH	MM	388	EW	CS	14	12	2022	10	0
CS	CS	CS	DO	MM	YY	HH	MM												
388	EW	CS	14	12	2022	10	0												

CODE 1	S3 to S23	D1 to S5	Kp XXX Note
	Station Reference	Depot Reference	For Kilometer point only Start Km is used
CODE 2	Work Activity		
CODE 3	Sub Element of Activity		

Description of Materials	FERMA			
Location to be Used	REV.29	388+500	TO	388+700
	REV.35	388+683.86		388+883.86
Supplier Name	مهاجر السوي - العامين			
Test Requirement	P.L.T (DIN 18134)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY OVECON GROUP	
Reference Photos	No/Yes	Other	S5-B-DW-IR-S(41,42) QT(18-1)	
Item	Description	Unit	Quantity	Arrival Date
1	PLATE LOAD TEST	NUMBER	4	15/12/2022
2				
3				
4				
Comments by: Eng. MAZEN ESSAMY (spectrum)		Comments by: Eng. Alaa Abd-Allatif (ER)		
1-The Plate Load Test Result p.L.T. (DIN 18134) is Approved.		1-P.L.T was carried- out by third party lab (CEL) . 2-Results report attached and acceptable with project specifications.		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. SAEED MOHAMMED			A
QA/QC *	Eng. MAZEN ESSAMY			
GARB**	Eng. Margret magdy			
Employers Representative	Eng. Alaa Abd-Allatif			A

\* Designer

\*\* Alignment/Bridges: Civil only





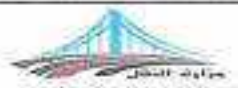
Electrical Express Train From Berg Alarab to  
Alamein  
From Station 388+000 To Station 389+000



Serial No.  
PLT  
( 4 )



مكتب أ.إ.د. عماد نجيل



Date  
15/12/2022

### Material Inspection Request

We request your attendance to inspect the following works :

Discipline :	<input checked="" type="checkbox"/> Material submittal	<input type="checkbox"/> FIELD DENSITY TEST	<input type="checkbox"/> PLATE LOAD TEST
Location :	Zone Dream way	From Station 388+500	To Station 388+700
References	LEVEL FERMA		
Purpose of the inspection	Specification: EET L1.1 Earthworks Specifications and Testing Report		

#### Purpose of the inspection

##### 1. Earthworks

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

#### Attachments

1- Plate load test Report

3-

5-

7-

Works To be Inspected

Plate load test by consulting Engineering Bureau & Laboratories FOR FERMA FROM 388+500 TO 388+700

Submitted by: Dream way

Signature:

Date of Inspection:-

#### GARP Consultant Engineer's Comments :

the plate load test result for top of upper embankment is OK

The works are :

☒ Approved (A)

☐ Approved as Noted (B)

☐ Revised Request (C)

☐ Rejected (D)

Name: Haren Esamy

Signature:

Date:-

#### General Consultant's Comments:

- (1) 4 points of PLT was carried out by (Cub) on ferma level
- (2) Results attached and found acceptable and compliant for specs
- (3) final approval is subject to above mentioned comments

The works are

☒ Approved (A)

☐ Approved as Noted (B)

☐ Revised Request (C)

☐ Rejected (D)

Name:

Signature:

Date:-

#### GARP Engineer's Comments:

Name:

Signature:

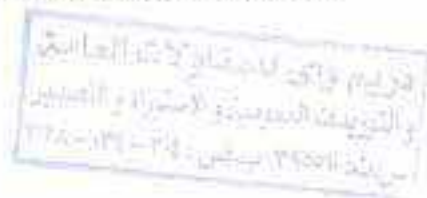
General Consultant Eng.

GARP Eng.



Company : شركة دريم واى

**Project** : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (6)  
- Alamein to Foka  
**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 388+500 to 388+700.  
**Test Date** : 15/12/2022  
**Report Date** : 15/12/2022  
**Type of Soil** : A-1-a  
**Type of soil** : Upper Embankment (Ferma).  
**Report No.** : 63:66



Dear Gentleman,

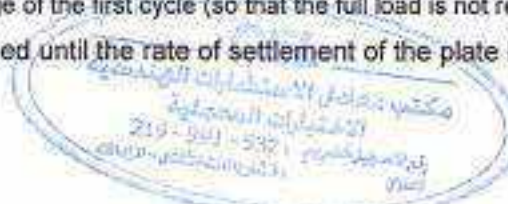
According to the above mentioned subject the test performed as follows:-

### 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 95 ton
8. Calibration certificates are attached

### Test Procedure

1. Clean the ground on test area to the required level with undisturbed soil
2. Install loading plates 600 mm and 300 mm diameter, hydraulic jack and 3 dial gauges
3. Prior to starting the test applied preloading about 30 seconds.
4. The strain gauge and the dial gauge shall be set to zero
5. For a 600 mm loading plate, the limit values are 2.5 kg/cm<sup>2</sup>
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 (2<sup>nd</sup>) 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





- 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

- Job Requirement :  $E_{v2} > 600 \text{ Kg/cm}^2$  (60 MPa).

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Sunny
- Plate Diameter (mm)	600
- date of measurement	15/12/2022
- Unusual observation made during test	NO
- Description of the soil conditions below the plate after testing	No deformation

Test No.	Station		First Cycle	Second Cycle	$E_{v2}/E_v$ Ratio
	From	To	$E_{v1}$ (kg/cm <sup>2</sup> )	$E_{v2}$ (kg/cm <sup>2</sup> )	
1	388+500	388+550	1000	1731	1.7
2	388+550	388+600	1098	2143	2.0
3	388+600	388+650	1071	2250	2.1
4	388+650	388+700	652	1957	3.0



دورم واي انجنيئر لايت العاصم  
بالتربية والتعليم والاسكان والتخطيط  
سنة ٢٠٢٢ - ٢٠٢٣

Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 15/12/2022  
report date : 15/12/2022  
Location : Station 388+500 to 388+550  
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	19.88	0.12	19.83	0.17	19.84	0.16	0.15
2	0.83	19.77	0.23	19.67	0.33	19.70	0.30	0.29
3	1.25	19.65	0.35	19.48	0.52	19.48	0.52	0.46
4	1.67	19.42	0.58	19.32	0.68	19.27	0.73	0.66
5	2.08	19.20	0.80	19.17	0.83	19.08	0.92	0.85
6	2.50	18.96	1.04	19.00	1.00	18.86	1.14	1.06

**Unloading Stage (1)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	18.96	1.04	19.00	1.00	18.86	1.14	1.06
2	1.25	18.99	1.01	19.07	0.93	18.99	1.01	0.98
3	0.625	19.20	0.80	19.23	0.77	19.19	0.81	0.79
4	0.01	19.50	0.50	19.52	0.48	19.51	0.49	0.49

**Loading Stage (2)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.46	0.54	19.46	0.54	19.41	0.59	0.56
1	0.83	19.35	0.65	19.31	0.69	19.26	0.74	0.69
2	1.25	19.24	0.76	19.18	0.82	19.14	0.86	0.81
3	1.67	19.14	0.86	19.09	0.91	19.01	0.99	0.92
4	2.08	19.04	0.96	19.00	1.00	18.90	1.10	1.02
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature

مكتب معامل الإستشارات الهندسية  
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 Name : dream Way Co.  
 Project : Electric Express Train, from Borg Al Arab to Alamein.  
 Test Date : 15/12/2022  
 report date : 15/12/2022  
 Location : Station 388+550 to 388+600  
 Test No. : 02

**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	19.89	0.11	19.85	0.15	19.85	0.15	0.14
2	0.83	19.79	0.21	19.64	0.36	19.71	0.29	0.29
3	1.25	19.64	0.36	19.40	0.60	19.53	0.47	0.48
4	1.67	19.51	0.49	19.21	0.79	19.36	0.64	0.64
5	2.08	19.39	0.61	19.04	0.96	19.21	0.79	0.79
6	2.50	19.24	0.76	18.87	1.13	19.05	0.95	0.95

**Unloading Stage (1)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.24	0.76	18.87	1.13	19.05	0.95	0.95
2	1.25	19.29	0.71	18.94	1.06	19.12	0.88	0.88
3	0.625	19.41	0.59	19.09	0.91	19.32	0.68	0.73
4	0.01	19.64	0.36	19.37	0.63	19.60	0.40	0.46

**Loading Stage (2)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.58	0.42	19.30	0.70	19.52	0.48	0.53
1	0.83	19.49	0.51	19.19	0.81	19.42	0.58	0.63
2	1.25	19.41	0.59	19.08	0.92	19.30	0.70	0.74
3	1.67	19.35	0.65	19.00	1.00	19.19	0.81	0.82
4	2.08	19.28	0.72	18.91	1.09	19.10	0.90	0.90
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature \

مكتب معامل الاستشارات الهندسية  
 الإشراف  
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 213-2111-2137

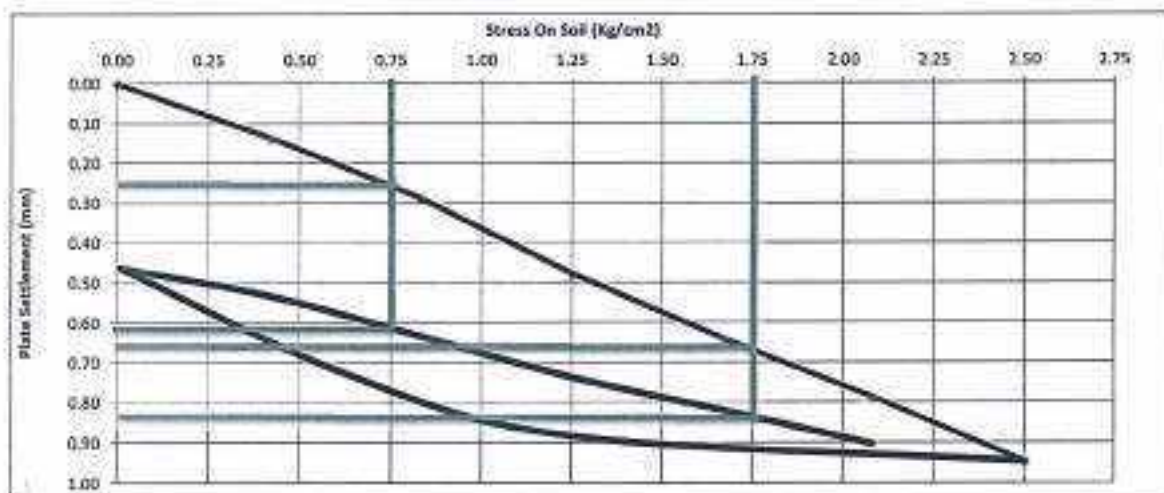




Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 15/12/2022  
report date : 15/12/2022  
Location : Station 388+550 to 388+600  
Test No. : 02

تم إجراء الاختبار في  
مكتب معامل الإستشارات الهندسية  
في 15/12/2022  
في محطة 388+550 إلى 388+600

#### 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/cm <sup>2</sup> )	0.00	0.42	0.83	1.25	1.67	2.08	2.50
Settlement (mm)	0.00	0.14	0.29	0.48	0.64	0.79	0.95

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm <sup>2</sup> )	2.50	1.25	0.625	0.01
Settlement (mm)	0.95	0.88	0.73	0.46

D (mm) = 600	S1 (mm) = 0.25	S2(mm) = 0.65	ΔS = 0.41
Ev1 (kg/cm <sup>2</sup> ) = (0.75*D*Δσ)/ΔS	1098		

Loading (2)	0	1	2	3	4	5
Stage(Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (Kg/cm <sup>2</sup> )	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.46	0.53	0.63	0.74	0.82	0.90

Ev2/Ev1 = 2.0

D (mm) = 600	S1 (mm) = 0.82	S2(mm) = 0.83	ΔS = 0.21
Ev2 (kg/cm <sup>2</sup> ) = (0.75*D*Δσ)/ΔS	2143		

Ev1 = Modulus of deformation during the loading stage.  
Ev2 = Modulus of deformation during the Reloading stage.  
D = Plate diameter (mm)  
Ds = The difference between 0.3 and 0.7 from the maximum loading (smax) (kg/cm<sup>2</sup>)  
ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)



Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 15/12/2022  
report date : 15/12/2022  
Location : Station 388+600 to 388+650  
Test No. : 03

### Data sheet

Loading	Stress	Dial 1	Settlement	Dial 2	Settlement	Dial 3	Settlement	Average
	Kg/cm2		mm		mm		mm	
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.91	0.09	19.80	0.20	19.90	0.10	0.13
2	0.83	19.82	0.18	19.58	0.42	19.74	0.26	0.29
3	1.25	19.72	0.28	19.42	0.58	19.58	0.42	0.43
4	1.67	19.50	0.50	19.20	0.80	19.40	0.60	0.63
5	2.08	19.31	0.69	19.05	0.95	19.23	0.77	0.80
6	2.50	19.11	0.89	18.85	1.15	19.00	1.00	1.01

Loading	Stress	Dial 1	Settlement	Dial 2	Settlement	Dial 3	Settlement	Average
	Kg/cm2		mm		mm		mm	
1	2.50	19.11	0.89	18.85	1.15	19.00	1.00	1.01
2	1.25	19.17	0.83	18.88	1.12	19.10	0.90	0.95
3	0.625	19.32	0.68	19.05	0.95	19.27	0.73	0.79
4	0.01	19.54	0.46	19.35	0.65	19.52	0.48	0.53

[illegible]

Signature 1





Company Name : dream Way Co.  
 Project : Electric Express Train, from Borg El Arab to Alamein.  
 Test Date : 15/12/2022  
 report date : 15/12/2022  
 Location : Station 388+600 to 388+650  
 Test No. : 03

مركز موالى للمقاولات العامة  
 ش.م.ك. - القاهرة  
 ٢٧٣٦٣ - ٢٧٣٦٣  
 ٢٧٣٦٣ - ٢٧٣٦٣

## 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	0.13	0.29	0.43	0.63	0.80	1.01

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)	1.01	0.95	0.79	0.53

D (mm) =	600	S1 (mm)=	0.25	S2(mm)=	0.67	ΔS =	0.42
v1 (kg/cm2) = (0.75*D*Δσ)/ΔS		1071					

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)	0.53	0.58	0.69	0.79	0.87	0.96

Ev2/Ev1 = 2.1

D (mm) =	600	S1 (mm)=	0.68	S2(mm)=	0.88	ΔS =	0.20
Ev2 (kg/cm2) = (0.75*D*Δσ)/ΔS		2250					

Signature : 

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/cm<sup>2</sup>)  
 ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

د. محمد جويلى  
مدير عام  
مكتب معمل الإستشارات الهندسية  
٢٧٣٦٣٠٩٣ - ٢٧٣٦٧٢٣١

Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 15/12/2022  
report date : 15/12/2022  
Location : Station 388+650 to 388+700  
Test No. : 04

**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	19.82	0.18	19.81	0.19	19.84	0.16	0.18
2	0.83	19.74	0.26	19.65	0.35	19.66	0.34	0.32
3	1.25	19.53	0.47	19.30	0.70	19.20	0.80	0.66
4	1.67	19.25	0.75	19.00	1.00	18.93	1.07	0.94
5	2.08	19.09	0.91	18.83	1.17	18.74	1.26	1.11
6	2.50	18.95	1.05	18.67	1.33	18.58	1.42	1.27

**Unloading Stage (1)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	18.95	1.05	18.67	1.33	18.58	1.42	1.27
2	1.25	19.02	0.98	18.76	1.24	18.63	1.37	1.20
3	0.625	19.18	0.82	18.91	1.09	18.77	1.23	1.05
4	0.01	19.62	0.38	19.28	0.72	19.08	0.92	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	19.40	0.60	19.10	0.90	18.95	1.05	0.85
1	0.83	19.25	0.75	18.95	1.05	18.81	1.19	1.00
2	1.25	19.15	0.85	18.85	1.15	18.70	1.30	1.10
3	1.67	19.08	0.92	18.77	1.23	18.63	1.37	1.17
4	2.08	19.00	1.00	18.70	1.30	18.55	1.45	1.25
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature

مكتب معمل الإستشارات الهندسية  
٢٧٣٦٣٠٩٣ - ٢٧٣٦٧٢٣١  
مكتب معمل الإستشارات الهندسية





Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 15/12/2022  
report date : 15/12/2022  
Location : Station 388+650 to 388+700  
Test No. : 04

# Nonrepetitive Static Plate Load Tests of Soils

## DIN 18134



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	0.18	0.32	0.66	0.94	1.11	1.27

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm <sup>2</sup> )	2.50	1.25	0.625	0.01
Settlement (mm)	1.27	1.20	1.05	0.67

D (mm) =	600	$\delta_1$ (mm) =	0.28	$\delta_2$ (mm) =	0.97	$\Delta S =$	0.69
$v_1$ (kg/cm <sup>2</sup> ) = $(0.75^* D^2 \Delta \sigma) / \Delta S$			652				

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)	0.67	0.85	1.00	1.10	1.17	1.25

D (mm) =	600	S1 (mm)=	0.97	S2(mm)=	1.20	$\Delta S =$	0.23
$E_v$ (kg/cm <sup>2</sup> ) =	$(0.75 \cdot D^2 \cdot \Delta \sigma) / \Delta S$		1957				

$$E_{v2}/E_{v1} = 3.0$$

Ev1 = Modulus of deformation during the loading stage.

Ev2 = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

$D_2$  = The difference between 0.3 and 0.7 from the maximum loading ( $s_{max}$ ) ( $\text{kg}/\text{cm}^2$ )

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





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														
Dream way Company														
Designer Company														
(SPECTRUM) Engineering Consulting Office														
Issued by Contractor														
Name														
Eng. Abdelrahman atef														
Signature														
Date/Serial Number														
30/01/2023														
(M.P.R. 054) rev01														
Time														
3:00 PM														
Received by GARB														
Eng. Mazen Essam														
MIR														
300														
EW														
CS														
31														
01														
2023														
12														
00														
MM														
HH														
YY														
For Kilo meter point only Start Km is used														
D1 to D3 Depot Reference														
Work Activity														
Sub Element of Activity														
Description of material														
Fill layer at forma level														
Location to be used														
From														
388+000														
TO														
388+200														
MARKS/IR APPROVAL NO														
U/R-S-54														
M.A.R.(13-2)														
ELSEWY, Dream way														
F.D.(TASTM D 1556)														
No/Yes														
Other														
Specification														
EARTHWORK SPECIFICATIONS & TESTING REPORT (C02-I-1 2N/VERSION) BY CIVILCON GROUP														
Reference photos														
Description														
SAND CONE TEST														
NUMBER														
4														
Quantity														
Arrival Date														
Note														
Item														
1														
2														
Comments by: Eng. Mazen Essam (SPECTRUM)														
1-F.D.T was carried -out by third party lab (combibasi)														
2-Result report attached and acceptable with project specifications.														
3-Final approval is subject to above mentioned comments.														
APPROVAL STATUS														
Name														
Eng. Abdelrahman atef														
QA/QC*														
Eng. Mazen Essam														
GARB**														
Eng. Mohammed Fayad														
Employers Representative														
Eng. Alaa Abd-Allatif														
Designer														
File Name : MS-F-1002														
Page 1 of 1														

22/02



By third party lab (combibasi) is Approved.



# COMIBASSAL International Controllers

(الهيئة العامة للغذاء والدواء المصرية - الهيئة العامة للغذاء والدواء المصرية - الهيئة العامة للغذاء والدواء المصرية)

ISO 9001:2015 معتمدة على شهادة الأيزو 9001:2015

Accredited by:

Egyptian General Authority for Petroleum Under No. 34/29.11.2011

الهيئة العامة للغذاء والدواء المصرية

قطاع النفط والغاز والعلما

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

Report NO. : 447/1/center  
Date : 22/2/2023

## Field Det. Of Density Of Soil In Place Report

ASTM - D 1556

General consultant : SYSTEMA

Consultant : SPECTRUM

Contractor : شركة مصرى للتقويات

Project : Electric express train

Sample : Fenna

Date of test : 1 - 2 - 2023

Results :

Points NO.	Description	Initial wt. (gm)	Wt. after filling the cone and the hole (gm)	Wt. of wet Sample (gm)	Wt. of sand filling hole (gm)	Wt. of sand filling cone (gm)	Density of standard sand (Gs) (gm/cc)	Volume of hole (cm <sup>3</sup> )	Wt. of wet Sample (gm)	Wt. of sample after drying (gm)	Wet Density (Y <sub>wet</sub> ) (gm/cc)	Moisture ratio (%)	Dry Density (Y <sub>dry</sub> ) (gm/cc)	(Y <sub>max</sub> , dry) (gm/cc)	Compaction Ratio (%)
1	St ( 388 + 050 )	10350	7450	2320	1560	1400	1.44	1069.44	1151.11	1160	1125.0	2.10	2.045	2.004	97
2	St ( 388 + 100 )	7390	4390	2370	1600	1400	1.44	1151.11	1160	1160	1125.0	2.10	2.045	2.004	95
3	St ( 388 + 150 )	8320	5250	2650	1670	1400	1.44	1160	1160	1160	1125.0	2.10	2.045	2.004	95
4	St ( 388 + 200 )	10200	7180	2670	1620	1400	1.44	1125.0	1160	1160	1125.0	2.10	2.045	2.004	99









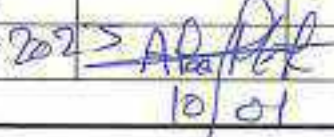
Civil, Eng Department  
Eng : Eman E. Kandil

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

40 Safa Zaghloul st., P.O. Box 157 Alex, Egypt  
Tel: 4870573 - Fax + Tel: 4869798 - 4870665





MATERIAL INSPECTION REQUEST		   																		
Contractor Company	Dream Way Company		Designer Company	(SPECTRUM) Consulting Office																
Issued by Contractor	Name Eng. Abdelrhman Atef	Sign 	Date / Serial Number 8/1/2023 MIR 048	Time 10:00 AM																
Received by GARIB CONSULTANT	Eng. Sayed Seif	Sign 	MIR	<table border="1"> <tr> <td>ST</td> <td>CI</td> <td>CS</td> <td>CO</td> <td>MM</td> <td>PI</td> <td>HT</td> <td>APM</td> </tr> <tr> <td>388</td> <td>EW</td> <td>CS</td> <td>9</td> <td>1</td> <td>23</td> <td>10</td> <td>0</td> </tr> </table>	ST	CI	CS	CO	MM	PI	HT	APM	388	EW	CS	9	1	23	10	0
ST	CI	CS	CO	MM	PI	HT	APM													
388	EW	CS	9	1	23	10	0													
COORD-1	SL to SS	OL to SS	Kp 1000 Note																	
COORD-2	Station Reference	Depot Reference	For Kilometer point only Start Km is used																	
COORD-3	Work Activity																			
	Sub Element of Activity																			
Description of Materials	FERMA																			
Location to be Used	From	388+300	TO	388+500																
MAR & UIR Approval No	UIR IR-S(48)	Date	8/1/2023																	
	M.A.R (12-2)		20/12/2022																	
Supplier Name																				
Test Requirement	F.D.T (ASTM D 1556)	Specification	DASHA/DRA SPECIFICATIONS & TESTING REPORT (2021-15-2) VERSION 2 BY CANCON GROUP																	
Reference Photos	No/Yes	Other																		
Item	Description	Unit	Quantity	Arrival Date																
1	SAND CONE TEST	NUMBER	4	8/1/2023																
2																				
3																				
4																				
Comments by Eng. Sayed Seif		Comments by Eng. Alaa Abd-Allah (ER)																		
1-The Compaction Test Result F.D.T. (ASTM D 1556) is Approved.		1-F.D.T was carried- out by Third party lab (Combassil) 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. Abdelrhman Atef		8/1/2023	A																
QA/QC *	Eng. Sayed Seif			A																
GARB **	Eng. Mohamed fyad																			
Employers Representative	Eng. Alaa Abd-Allah			AWC																

\* Designer  
\*\* Signed UIR only

10/01





# COMIBASSAL International Controllers

## Internal inspection and laboratories sector

Accredited by : Egypton General Authority for Petroleum under No. 34/29-11-2011



Report NO. : 163/01/center ( بدل فاكس )  
Date : 18/1/2023

### Field Detr. Of Density Of Soil In Place Report ASTM - D 1556

General consultant :  
Consultant :  
Contractor :  
Project :  
Sample :  
Date of test :

SYSTRA  
SPECTRUM  
شركة تريم واي  
Electric express train  
Ferna  
9 - 1 - 2023










#### Results :

Points NO.	1	2	3	4	5	6
Description	St ( 388+250 )	St ( 388+300 )	St ( 388+350 )	St ( 388+400 )	St ( 388+450 )	St ( 388+500 )
Initial wt. (gm)	8100	10310	7350	7268	10440	7390
Wt. after filling the cone and the hole (gm)	5000	7150	4200	4150	7300	4300
Wt. of wet Sample (gm)	2425	2460	2490	2400	2470	2410
Wt. of sand filling hole (gm)	1582	1632	1632	1587	1622	1572
Wt. of sand filling cone (gm)	1518	1518	1518	1518	1518	1518
Density of standard sand (Ys) (gm/cm <sup>3</sup> )	1.44					
Volume of hole (cm <sup>3</sup> )	1098.61	1133.33	1133	1102.1	1126.4	1091.7
Wt. of wet Sample (gm)	200					
Wt. of sample after drying (gm)	186.6	184	187	184.4	185.1	186.3
Wet Density (Ywet) (gm/cm <sup>3</sup> )	2.207	2.171	2.197	2.178	2.193	2.208
Moisture ratio (%)	7.2	8.7	8.9	8.6	8.0	7.4
Dry Density (Ydry) (gm/cm <sup>3</sup> )	2.059	1.997	2.065	2.008	2.029	2.088
(Ymax.dry) (gm/cm <sup>3</sup> )	2.05					
Compaction Ratio (%)	100	97	100	98	99	

Civil. Eng Department

Eng : Eman. E. Kandil



MATERIAL INSPECTION REQUEST		    									
Contractor Company	Dream Way Company		Designer Company	(SPECTRUM) Consulting Office							
Issued by Contractor	Name	Eng. Elspeed Mohamed	Sign	Date/Serial Number		Time					
				15/01/2023 (SS-B-DW) FDT(52)		10:00 AM					
Received by GARB CONSULTANT	Eng. Mazen Esamy	Sign	MIR	388	EW	CS	16	1	2023	10	0
CODE - 2	S1 to S2L		D8 to S5		By MIR Note						
	Station Reference		Dipart Reference		For Kilometer point only, start km is used						
CODE - 3	Work Activity										
	Sub Element of Activity										
Description of Materials	Perma										
Location to be Used	From	388+200		TO	388+300						
		388+383.86			388+483.86						
MAR & MIR Approval No	(SS-B-DW-IR-S(52)		Date	15/1/2023							
	M.A.R.(SS-B-DW-QT(19-1)			20/12/2022							
Supplier Name	ELSEWY, DREAM WAY										
Test Requirement	F.D.T (ASTM D 1556)		Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-IL2) VERSION 2 BY CH2MHILL GROUP							
Reference Photos	No/Yes		Other								
Item	Description	Unit	Quantity	Arrival Date	Note						
1	SAND CONE TEST	NUMBER	2	17/1/2023							
2											
3											
4											
Comments by: Eng. Mazen Esamy (Spectrum)			Comments by: Eng. Alex Abd-Allatif (ER)								
 <p>1-The Compaction Test Result F.D.T (ASTM D 1556) is Approved.</p>			<p>1-F.D.T was carried- out by material engineer for both contractor and GARB consultant</p> <p>2-Results report attached and acceptable with project specifications.</p>								
APPROVAL STATUS											
Organisation	Name	Sign	Date	A-AWC-R							
Contractor	Eng. Elspeed Mohamed			A							
QA/QC *	Eng. Mazen Esamy			A							
GARB **	Eng. Margret										
Employers Representative	Eng. Alex Abd-Allatif			A							
<p>* Designer</p> <p>** Approver/Inspector/Contractor only</p>											



# MATERIAL INSPECTION REQUEST



الهيئة العامة  
للمطرق والكباري  
(GARB)



## RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company	Dream way Company		Designer Company*	(SPECTRUM) Engineering Consulting Office																
Issued by Contractor	Name Eng. Abdelrahman atef	Sign 	Date/Serial Number 15/01/2023 (M.I.R.052)	Time 3:00 PM																
Received by GARB CONSULTANT	Eng. SAIED SAIF	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>388</td> <td>EW</td> <td>CS</td> <td>16</td> <td>01</td> <td>2023</td> <td>12</td> <td>00</td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	388	EW	CS	16	01	2023	12	00	
C1	C2	C3	DD	MM	YY	HH	MM													
388	EW	CS	16	01	2023	12	00													

CODE-1	STATION REFERENCE	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
CODE-2	Work Activity		
CODE-3	Sub Element of Activity		





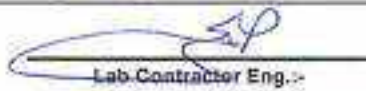
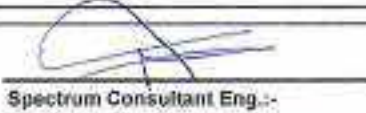
Description of material	fill layer at ferma level				
Location to be used	from	388+200	TO	388+300	
MAR&UIR APPROVAL NO	UIR-S-52 M.A.R(11-2)	Date	15/01/2023 20/12/2022		
SUPPLIER NAME	ELSEWY, Dream way				
Test Requirement	F.D.T ASTM D 1556	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION2 BY CIVECON GROUP.		
Reference photos	No/Yes	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1			2		
2					

Comments by: Eng. Mazen Essamiy (SPECTRUM)

<p>The conaction test result F.D.T (ASTM D 1556) is Approved.</p>	<p>1-F.D.T was carried -out by material engineer for both contractor and GARB consultant</p> <p>2-Result report attached and acceptable with project specifications.</p> <p>3-Final approval is subject to above mentioned comments.</p>
---	--

APPROVAL STATUS				A-AWC-R
Organisation	Name	Sign	Date	
Contractor	Eng. Abdelrahman atef			A
XYZ Survey	Eng. Mohamed Khalil			
QA/QC*	Eng. Saied saif			A
GARB**	Eng. Mohammed Fayad			
Employers Representative	Eng. Alaa Abd-Allatif			Awe

دریم وائی للبتاؤلات العامة  
والقوى المدنية والاستيراد والتصدير  
ب.ض: ٣٩٥٥١٠ - ٣٩٥٥١٠ - ٣٩٥٥١٠

   			
<b>Electrical express train from borg al-arab to alamein</b>			
Activity : Earth Work	lab testing Results	Date	17/1/2023
Density and Unit Weight of Soil in Place by the Sand-Cone Method – ASTM D 1556			
Company:	Dream Way	Layer NO:	ferma
Description :	IR-5(52)	Layer Thickness:	FDT52
Station Represented :	388+200 TO 388+300 ferma	Sample Date :	16/1/2023
Modified Proctor Testing Results			
Max. Dry Density, gm/cm <sup>3</sup>	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm <sup>3</sup>
2.05	8.4	95%	1.430
Compaction Testing Results & Calculations			
Hole No.	1	2	
Stations	388+250	388+300	
Wt. of Sand before Test, gm	8614	8537	
Wt. of Sand After Test, gm	8874	8887	
Wt. of Sand in Cone + hole, gm	3940	3650	
Wt. of Sand in Cone	1482	1482	
Wt. of Sand at hole, gm	2458	2168	
Volume of the Hole, cm <sup>3</sup>	1719	1518	
Wt. of Soil from Hole, gm	3674	3246	
Bulk Density of Soil, gm/cm <sup>3</sup>	2.137	2.106	
Moisture Content, %	0.0	5	
Dry Density, gm/cm <sup>3</sup>	2.016	2.006	
Compaction, (%)	98.3%	97.8%	
Acceptance Criteria: Comply <input type="checkbox"/> Not Comply <input type="checkbox"/>			
CONSULTANT COMMENTS			
 Lab Contractor Eng.->		 Spectrum Consultant Eng.->	



# MATERIAL INSPECTION REQUEST



WAY

المشروعات  
للمواصلات  
(GARB)



المشروعات للمواصلات العامة



Contractor Company	Dream Way Company	Designer Company	(SPECTRUM) Consulting Office
Issued by Contractor	Name Eng. Elsayed Mohamed	Date/Serial Number 07/01/2023 (S5-B-DW) FDT(47)	Time 10:00 AM
Received by GARB CONSULTANT	Eng. Mazen Esamy	MIR	388 EW CS 07 01 23 10 00

Code-1	S1 to S21	D1 to S3	Kp XXX Note
Code-2	Station Reference	Depot Reference	Per Kilometer point only Start Km is used
Code-3	Work Activity		
Code-4	Sub Element of Activity		

Description of Materials	FILL LAYER(-0.50)		
Location to be Used	From	388+200 388+383.86	TO 388+300 388+483.86
MAR & UIR Approval No	S5-B-DW-IR-S(47) M.A.R.(S5-B-DW-Q.T.-19-01)	Date	07/01/2023 20/12/2022
Supplier Name	ELSEWY, DREAM WAY		
Test Requirement	F.D.T (ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CS21-41.2) VERSION 2 BY CIVECON GROUP
Reference Photos	No/Yes	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	SAND CONE TEST	NUMBER	4	08/01/2023	
2					
3					
4					

Comments by: Eng. Mazen Esamy (Spectrum)	Comments by: Eng. Alaa Abd-Allatif (ER)
1-The Compaction Test Result F.D.T (ASTM D 1556) is Approved.	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.



APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Elsayed Mohamed		08/01/2023	A
QA/QC *	Eng. Mazen Esamy			A
GARB**	Eng. Margret			
Employers Representative	Eng. Alaa Abd-Allatif			A

\* Designer  
\*\* Alignment/Grades, Calved only

# MATERIAL INSPECTION REQUEST



الهيئة العامة  
للمطرق والكباري  
(GARB)



## RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company	Dream way Company		Designer Company*	(SPECTRUM) Engineering Consulting Office																
Issued by Contractor	Name Eng. Abdelrahman atef	Sign 	Date/Serial Number 07/01/2023 (M.I.R.047)	Time 3:00 PM																
Received by GARB CONSULTANT	Eng. SAIED SAIF	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>388</td> <td>EW</td> <td>CS</td> <td>08</td> <td>01</td> <td>2023</td> <td>12</td> <td>00</td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	388	EW	CS	08	01	2023	12	00	
C1	C2	C3	DD	MM	YY	HH	MM													
388	EW	CS	08	01	2023	12	00													

CODE-1	STATION REFERENCE	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
CODE-2	Work Activity		
CODE-3	Sub Element of Activity		

Description of material	fill layer at -0.50 from ferma level		
Location to be used	from	388+200	TO 388+300
MAR&UIR APPROVAL NO	UIR-S-47 M.A.R(11-2)	Date	7/1/2023 5/12/2022
SUPPLIER NAME	ELSEWY, Dream way		
Test Requirement	F.D.T (ASTM D 1556)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG11-41,2/VERSION2 BY CIVICOM GROUP.
Refrence photos	No/Yes	Other	
Item	Description	Unit	Quantity
1			4
2			

Comments by: Eng.Mazen Essamy (SPECTRUM)	
The comaction test result F.D.T (ASTM D 1556) is Approved.	<p>1-F.D.T was earned out by material engineer for both contractor and GARB consultant.</p> <p>2-Result report attached and acceptable with project specifications.</p> <p>3-Final approval is subject to above mentioned comments.</p>

APPROVAL STATUS				A-AWC-R
Organisation	Name	Sign	Date	
Contractor	Eng. Abdelrahman atef			A
XYZ Survey	Eng. Mohamed Khalil			
QA/QC*	Eng. Saied saif			A
GARB**	Eng. Mohammed Fayad			
Employers Representative	Eng. Alaa Abd-Allatif			AWC





### Electrical express train from borg al-arab to alamein

Activity : Earth Work

lab testing Results

Date

10/1/2023

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

Company:	Dream Way	Layer NO:	m-0.50
Description :	IR-S(47)	Layer Thickness:	FD147
Station Represented :	388+200 TO 388+300 m-0.50	Sample Date :	8/1/2023

### Modified Proctor Testing Results

Max. Dry Density, gm/cm <sup>3</sup>	Optimum Moisture Content, %	Degree of Compaction Required, %	Bulk Density of Specified Sand, gm/cm <sup>3</sup>
2.10	8.6	95%	1.430

### Compaction Testing Results & Calculations

Hole No	1	2						
Stations	388+250	388+300						
Wt. of Sand before Test, gm	9568	9218						
Wt. of Sand After Test, gm	5889	5627						
Wt. of Sand in Cone + hole, gm	3679	3591						
Wt. of Sand in Cone	1482	1482						
Wt. of Sand at hole, gm	2197	2109						
Volume of the Hole, cm <sup>3</sup>	1536	1475						
Wt. of Soil from Hole, gm	3500	3391						
Bulk Density of Soil, gm/cm <sup>3</sup>	2.136	2.146						
Moisture Content, %	6.0	6						
Dry Density, gm/cm <sup>3</sup>	2.015	2.024						
Compaction, (%)	96.0%	96.4%						

Acceptance Criteria

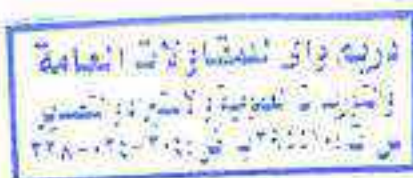
Comply

Not Comply

CONSULTANT COMMENTS

Lab Contractor Eng.:-

Spectrum Consultant Eng.:-



# UNIVERSAL INSPECTION REQUEST



WAV

المواصلات  
النقل والاقتصاد  
(GARB)



مجلس الوزراء  
Ministry of Planning  
(MOP)



مجلس الوزراء  
Ministry of Planning  
(MOP)



مجلس الوزراء  
Ministry of Planning  
(MOP)

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

Contractor Company	Dream Way COMPANY شركة دريم واي ٣٩٥٥١٠ ب.د. - ٢٠٤ - ٣٢٨		Designer Company*	(SPECTRUM) Engineering Consulting Office
Issued by Contractor	Name	Sign	Date/Serial Number	Time
	Eng. Elsaed Mohamed		18/12/2022 S5-B-DW-IR-S(46)	01:00
Received by GARB CONSULTANT	Eng. Mazen Esamy	Sign	UIR	

CODE-1	S1 to S21 Station Reference	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
CODE-2	Work Activity		
CODE-3	Sub Element of Activity		

EXPLANATION OF WORK TO BE INSPECTED					Element	Item
Description	From St.	To St.	REV			
	388+000	388+200	REV 29	Fill layer ( -1.00 )	upper embankment	
	388+183.86	388+303.86	REV 35			

INSPECTION DETAILS The following will be ready at the Planned Inspection Time:
Planned Inspection Date
Planned Inspection Time








COMPLIANCE EVIDENCE Must be included as appropriate			
Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	References	MS References	
PLAN AND PROFILE (REV.35) POINT OF SHEET ON PLAN MASTER SHEET FOR CUT AND FILL APPROVED BY (SPECTRUM)CONSULTING	MAR ( S5-B-DW- QT-19-01) MIR ( S5-B-DW- FDT-40 )	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed KHALIL (XYZ)	
1- Attached Master Sheet approved by SPECTRUM. 2-As Built (-1.00) fill layer coordinates , Elevations , Width	

Comments by: Eng. Mostafa reyad (SPECTRUM)	Comments by: Eng. Alaa Abd-Allatif (ER)
1- تم استلام القوائم الخاصة بملء التربة 2- تم مراجعة شيفت المناسبات	1-coordinates & levels and width checked by GARB consultant

INSPECTION RESULT					Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Date	Time	A-AWC-R	
Contractor	Eng. Elsaed Mohamed				A	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
ARB**	Eng. Margret magdy					
Employers Representative	Eng. Alaa Abd-Allatif				A	



Contractor	 	<b>Electrical Express Train From Borg El Arab to Alamein</b> From Station 388+000 To Station 389+000		Serial No. <b>IR-S (46)</b>
		مكتب أ.د. محمد خليل		Date <b>19/12/2022</b>
	<b>Works Inspection Request</b>			
	We request your attendance to inspect the following works :			
Discipline : <input type="checkbox"/> Daylight Projection <input checked="" type="checkbox"/> Structure <input type="checkbox"/> Drainage <input type="checkbox"/> Survey				
Location :	Zone	From Station	To Station	Level
	DREAM WAY	388+000	388+200	(DL-0.90)-1
References		Drawing: EET-BORG EL ARAB REV 30 Plan Profile Specification: EET L3.1, Earthworks Specifications and Testing Report		
Purpose of the inspection				
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> <input checked="" type="checkbox"/> Surveying  <input type="checkbox"/> Setting out  <input type="checkbox"/> Levels  <input type="checkbox"/> Visibility         </div> <div style="border: 1px solid blue; padding: 5px; color: blue;">           دراسة ذاتي للمقاولات العامة            في مشروع إنشاء خط السكك الحديدية            من محطة 388+000 إلى محطة 388+200         </div> </div>				
Attachments				
1- MASTER SHEET FOR FILL ACCORDING TO REV 25		2-DAYLIGHT COORDINATES		
3-LEVELS OF LAYER		4-PREVIOUS IR-S(40)		
Works To be Inspected <b>SOIL LAYCH AT 1.00 FROM FERMA LEVEL FROM 388+000 TO 388+200</b>				
 				
Submitted by:		DREAM WAY	Name: _____ Signature: _____	
<b>Surveying Consultant Engineer's Comments :</b>				
levels matching the attached master sheet which APPROVED by Spectrum.				
The works are : <input checked="" type="checkbox"/> Approval (A) <input type="checkbox"/> Approved as noted (B) <input type="checkbox"/> Revision Required (C) <input type="checkbox"/> Rejected (D)				
Name: <b>محمد جلال</b>		Signature: _____		
<b>GARP Consultant Engineer's Comments :</b>				
Date of Inspection: / /				
<b>Consultants</b>				
The works are : <input checked="" type="checkbox"/> Approval (A) <input type="checkbox"/> Approved as noted (B) <input type="checkbox"/> Revision Required (C) <input type="checkbox"/> Rejected (D)				
Name: <b>محمد جلال</b>		Signature: _____		
<b>General Consultant's Comments :</b>				
1- coordinates and levels and width checked by GARP consultant but assec hram should approved from SYSTRA - 2- final approval in subject to above mentioned comment.				
The works are : <input checked="" type="checkbox"/> Approval (A) <input type="checkbox"/> Approved as noted (B) <input type="checkbox"/> Revision Required (C) <input type="checkbox"/> Rejected (D)				
Name: <b>Alaa Abdelhatef</b>		Signature: _____		
<b>GARP Engineer's Comments :</b>				
Date: <b>19/12</b>				
Name: _____		Signature: _____		
General Consultant Eng.		GARP Eng.		



Levels Of Layer (-1) From F.L. (from 388+000 to 388+200)														
Station	Left Side					CL	Right Side					SLOPE %	SLOPE	SLOPE %
	14.94	12	8	4	4		4	8	11.44	8.265	4%			
388+000	8.125	8.243	8.403	8.563	8.723	8.723	8.563	8.403	8.265	4%				
فرجة العامة														
الفرق	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
388+020	8.074	8.192	8.352	8.512	8.672	8.672	8.512	8.352	8.214	4%				
فرجة العامة														
الفرق	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
388+040	8.023	8.141	8.301	8.461	8.621	8.621	8.461	8.301	8.163	4%				
فرجة العامة														
الفرق	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
388+060	7.971	8.089	8.249	8.409	8.569	8.569	8.409	8.249	8.111	4%				
فرجة العامة														
الفرق	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
388+080	7.920	8.038	8.198	8.358	8.518	8.518	8.358	8.198	8.060	4%				
فرجة العامة														
الفرق	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
388+100	7.869	7.987	8.147	8.307	8.467	8.467	8.307	8.147	8.009	4%				
فرجة العامة														
الفرق	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
388+120	7.818	7.936	8.096	8.256	8.416	8.416	8.256	8.096	7.958	4%				
فرجة العامة														
الفرق	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
388+140	7.766	7.884	8.044	8.204	8.364	8.364	8.204	8.044	7.906	4%				
فرجة العامة														
الفرق	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
388+160	7.715	7.833	7.993	8.153	8.313	8.313	8.153	7.993	7.855	4%				
فرجة العامة														
الفرق	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
388+180	7.664	7.782	7.942	8.102	8.262	8.262	8.102	7.942	7.804	4%				
فرجة العامة														
الفرق	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
388+200	7.613	7.731	7.891	8.051	8.211	8.211	8.051	7.891	7.753	4%				
فرجة العامة														
الفرق	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2

ملاحظة: إن جميع القراءات مأخوذة من مستوى القاع  
في حالة عدم وجود قاع في بعض الأماكن  
فإن القراءات مأخوذة من مستوى الأرض

مشروع القطار السريع غرب النيل

سجل القياسات  
SPEKTRUM  
CONSULTING  
ENGINEERING  
والتقانة  
والتقانة

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STATION	LEFT OFFSET (-1)			CL			RIGHT OFFSET (-1)			TOTAL WIDTH
	N	E	Z	N	E	Z	N	E	Z	
388+000.00	899821.704	428045.969	8.1254	899.835.6364m	428.051.3614m	8.723	899845.305	428055.491	8.2654	26.38
388+020.00	899828.923	428027.317	8.0744	899.842.8554m	428.032.7097m	8.672	899853.524	428036.839	8.2144	26.38
388+040.00	899836.141	428008.665	8.0234	899.850.0743m	428.014.0579m	8.621	899860.743	428018.187	8.1634	26.38
388+060.00	899843.36	427990.014	7.9714	899.857.2932m	427.995.4062m	8.569	899867.962	427999.535	8.1114	26.38
388+080.00	899850.579	427971.362	7.9204	899.864.5122m	427.976.7545m	8.518	899875.181	427980.884	8.0604	26.38
388+100.00	899857.798	427952.71	7.8694	899.871.7311m	427.958.1027m	8.467	899882.4	427962.232	8.0094	26.38
388+120.00	899865.017	427934.058	7.8184	899.878.9500m	427.939.4510m	8.416	899889.619	427943.58	7.9584	26.38
388+140.00	899872.236	427915.407	7.7664	899.886.1690m	427.920.7993m	8.364	899896.838	427924.929	7.9064	26.38
388+160.00	899879.455	427896.755	7.7154	899.893.3879m	427.902.1475m	8.313	899904.057	427906.277	7.8554	26.38
388+180.00	899886.674	427878.103	7.6644	899.900.6068m	427.883.4958m	8.262	899911.276	427887.625	7.8044	26.38
388+200.00	899893.893	427859.452	7.6134	899.907.8258m	427.864.8441m	8.211	899918.495	427868.973	7.7534	26.38

مديرية الطرق والمواصلات العامة  
إدارة مشاريع الطرق والمواصلات العامة  
الشارقة - ٢٢٨٠٠٢٤

مشروع القطار السريع لحلب التيل  
EX-12





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


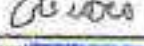


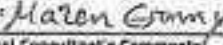

دریما وای للتحاولات العامة  
والطرق و البنية التحتية  
والمرور  
مصر - القاهرة - ٢٠٢٨

مشروع القطار السريع غرب النيل  
مكة



0	7.223	7.723	7.973	8.223	8.473	8.723	8.973	9.223	9.473	9.723	7.00	389+000
1	7.172	7.672	7.922	8.172	8.422	8.672	8.922	9.172	9.422	9.672	7.00	388+020
2	7.121	7.621	7.871	8.121	8.371	8.621	8.871	9.121	9.371	9.621	7.00	388+040
3	7.069	7.569	7.819	8.069	8.319	8.569	8.819	9.069	9.319	9.569	7.00	388+060
4	7.018	7.518	7.768	8.018	8.268	8.518	8.768	9.018	9.268	9.518	7.00	388+080
5	7.067	7.567	7.817	8.067	8.317	8.567	8.817	9.067	9.317	9.567	7.00	388+100
6	7.116	7.616	7.866	8.116	8.366	8.616	8.866	9.116	9.366	9.616	7.00	388+120
7	7.165	7.665	7.915	8.165	8.415	8.665	8.915	9.165	9.415	9.665	7.00	388+140
8	7.214	7.714	7.964	8.214	8.464	8.714	8.964	9.214	9.464	9.714	7.00	388+160
9	7.262	7.762	8.012	8.262	8.512	8.762	9.012	9.262	9.512	9.762	7.00	388+180
10	7.311	7.811	8.061	8.311	8.561	8.811	9.061	9.311	9.561	9.811	7.00	388+200
11	7.359	7.859	8.109	8.359	8.609	8.859	9.109	9.359	9.609	9.859	7.00	388+220
12	7.408	7.908	8.158	8.408	8.658	8.908	9.158	9.408	9.658	9.908	7.00	388+240
13	7.457	7.957	8.207	8.457	8.707	8.957	9.207	9.457	9.707	9.957	7.00	388+260
14	7.506	8.006	8.256	8.506	8.756	9.006	9.256	9.506	9.756	10.006	7.00	388+280
15	7.554	8.054	8.304	8.554	8.804	9.054	9.304	9.554	9.804	10.054	7.00	388+300
16	7.603	8.103	8.353	8.603	8.853	9.103	9.353	9.603	9.853	10.103	7.00	388+320
17	7.651	8.151	8.401	8.651	8.901	9.151	9.401	9.651	9.901	10.151	7.00	388+340
18	7.700	8.200	8.450	8.700	8.950	9.200	9.450	9.700	9.950	10.200	7.00	388+360
19	7.748	8.248	8.498	8.748	8.998	9.248	9.498	9.748	9.998	10.248	7.00	388+380
20	7.797	8.297	8.547	8.797	9.047	9.297	9.547	9.797	10.047	10.297	7.00	388+400
21	7.846	8.346	8.596	8.846	9.096	9.346	9.596	9.846	10.096	10.346	7.00	388+420
22	7.894	8.394	8.644	8.894	9.144	9.394	9.644	9.894	10.144	10.394	7.00	388+440
23	7.943	8.443	8.693	8.943	9.193	9.443	9.693	9.943	10.193	10.443	7.00	388+460
24	7.991	8.491	8.741	8.991	9.241	9.491	9.741	9.991	10.241	10.491	7.00	388+480
25	8.040	8.540	8.790	9.040	9.290	9.540	9.790	10.040	10.290	10.540	7.00	388+500
26	8.088	8.588	8.838	9.088	9.338	9.588	9.838	10.088	10.338	10.588	7.00	388+520
27	8.137	8.637	8.887	9.137	9.387	9.637	9.887	10.137	10.387	10.637	7.00	388+540
28	8.185	8.685	8.935	9.185	9.435	9.685	9.935	10.185	10.435	10.685	7.00	388+560
29	8.234	8.734	8.984	9.234	9.484	9.734	9.984	10.234	10.484	10.734	7.00	388+580
30	8.282	8.782	9.032	9.282	9.532	9.782	10.032	10.282	10.532	10.782	7.00	388+600
31	8.331	8.831	9.081	9.331	9.581	9.831	10.081	10.331	10.581	10.831	7.00	388+620
32	8.379	8.879	9.129	9.379	9.629	9.879	10.129	10.379	10.629	10.879	7.00	388+640
33	8.428	8.928	9.178	9.428	9.678	9.928	10.178	10.428	10.678	10.928	7.00	388+660
34	8.476	8.976	9.226	9.476	9.726	9.976	10.226	10.476	10.726	10.976	7.00	388+680
35	8.525	9.025	9.275	9.525	9.775	10.025	10.275	10.525	10.775	11.025	7.00	388+700
36	8.573	9.073	9.323	9.573	9.823	10.073	10.323	10.573	10.823	11.073	7.00	388+720
37	8.622	9.122	9.372	9.622	9.872	10.122	10.372	10.622	10.872	11.122	7.00	388+740
38	8.670	9.170	9.420	9.670	9.920	10.170	10.420	10.670	10.920	11.170	7.00	388+760
39	8.719	9.219	9.469	9.719	9.969	10.219	10.469	10.719	10.969	11.219	7.00	388+780
40	8.767	9.267	9.517	9.767	10.017	10.267	10.517	10.767	11.017	11.267	7.00	388+800
41	8.816	9.316	9.566	9.816	10.066	10.316	10.566	10.816	11.066	11.316	7.00	388+820
42	8.864	9.364	9.614	9.864	10.114	10.364	10.614	10.864	11.114	11.364	7.00	388+840
43	8.913	9.413	9.663	9.913	10.163	10.413	10.663	10.913	11.163	11.413	7.00	388+860
44	8.961	9.461	9.711	9.961	10.211	10.461	10.711	10.961	11.211	11.461	7.00	388+880
45	9.010	9.510	9.760	10.010	10.260	10.510	10.760	11.010	11.260	11.510	7.00	388+900
46	9.058	9.558	9.808	10.058	10.308	10.558	10.808	11.058	11.308	11.558	7.00	388+920
47	9.107	9.607	9.857	10.107	10.357	10.607	10.857	11.107	11.357	11.607	7.00	388+940
48	9.155	9.655	9.905	10.155	10.405	10.655	10.905	11.155	11.405	11.655	7.00	388+960
49	9.204	9.704	9.954	10.204	10.454	10.704	10.954	11.204	11.454	11.704	7.00	388+980
50	9.252	9.752	10.002	10.252	10.502	10.752	11.002	11.252	11.502	11.752	7.00	389+000
51	9.301	9.801	10.051	10.301	10.551	10.801	11.051	11.301	11.551	11.801	7.00	389+020
52	9.349	9.849	10.099	10.349	10.599	10.849	11.099	11.349	11.599	11.849	7.00	389+040
53	9.398	9.898	10.148	10.398	10.648	10.898	11.148	11.398	11.648	11.898	7.00	389+060
54	9.446	9.946	10.196	10.446	10.696	10.946	11.196	11.446	11.696	11.946	7.00	389+080
55	9.495	9.995	10.245	10.495	10.745	10.995	11.245	11.495	11.745	11.995	7.00	389+100
56	9.543	10.043	10.293	10.543	10.793	11.043	11.293	11.543	11.793	12.043	7.00	389+120
57	9.592	10.092	10.342	10.592	10.842	11.092	11.342	11.592	11.842	12.092	7.00	389+140
58	9.640	10.140	10.390	10.640	10.890	11.140	11.390	11.640	11.890	12.140	7.00	389+160
59	9.689	10.189	10.439	10.689	10.939	11.189	11.439	11.689	11.939	12.189	7.00	389+180
60	9.737	10.237	10.487	10.737	10.987	11.237	11.487	11.737	11.987	12.237	7.00	389+200
61	9.786	10.286	10.536	10.786	11.036	11.286	11.536	11.786	12.036	12.286	7.00	389+220
62	9.834	10.334	10.584	10.834	11.084	11.334	11.584	11.834	12.084	12.334	7.00	389+240
63	9.883	10.383	10.633	10.883	11.133	11.383	11.633	11.883	12.133	12.383	7.00	389+260
64	9.931	10.431	10.681	10.931	11.181	11.431	11.681	11.931	12.181	12.431	7.00	389+280
65	9.980	10.480	10.730	10.980	11.230	11.480	11.730	11.980	12.230	12.480	7.00	389+300
66	10.028	10.528	10.778	11.028	11.278	11.528	11.778	12.028	12.278	12.528	7.00	389+320
67	10.077	10.577	10.827	11.077	11.327	11.577	11.827	12.077	12.327	12.577	7.00	389+340
68	10.125	10.625	10.875	11.125	11.375	11.625	11.875	12.125	12.375	12.625	7.00	389+360
69	10.174	10.674	10.924	11.174	11.424	11.674	11.924	12.174	12.424	12.674	7.00	389+380
70	10.222	10.722	10.972	11.222	11.472	11.722	11.972	12.222	12.472	12.722	7.00	389+400
71	10.271	10.771	11.021	11.271	11.521	11.771	12.021	12.271	12.521	12.771	7.00	389+420
72	10.319	10.819	11.069	11.319	11.569	11.819	12.069	12.319	12.569	12.819	7.00	389+440
73	10.368	10.868	11.118	11.368	11.618	11.868	12.118	12.368	12.618	12.868	7.00	389+460
74	10.416	10.916	11.166	11.416	11.666	11.916	12.166	12.416	12.666	12.916	7.00	389+480
75	10.465	10.965	11.215	11.465	11.715	11.965	12.215	12.465	12.715	12.965	7.00	389+500
76	10.513	11.013	11.263	11.513	11.763	12.013	12.263	12.513	12.763	13.013	7.00	389+520
77	10.562	11.062	11.312	11.562	11.812	12.062	12.312	12.562	12.812	13.062	7.00	389+540
78	10.610	11.110	11.360	11.610	11.860	12.110	12.360	12.610	12.860	13.110	7.00	389+560
79	10.659	11.159	11.409	11.659	11.909	12.159	12.409	12.659	12.909	13.159	7.00	389+580
80	10.707	11.207	11.457	11.707	11.957	12.207	12.457	12.707	12.957	13.207	7.00	389+600
81	10.756	11.256	11.506	11.756	12.006	12.256	12.506	12.756	13.006	13.256	7.00	389+620
82	10.804	11.304	11.554	11.804	12.054	12.304	12.554	12.804	13.054	13.304	7.00	389+640
83	10.853	11.353	11.603	11.853	12.103	12.353	12.603	12.853	13.103	13.353	7.00	389+660
84	10.901	11.401	11.651	11.901	12.151	12.401	12.651	12.901	13.151	13.401	7.00	389+680
85	10.950	11.450	11.700	11.950	12.200	12.450	12.700	12.950	13.200	13.450	7.00	389+700
86	11.000	11.500	11.750	12.000	12.250	12.500	12.750	13.000	13.250	13.500	7.00	389+720
87	11.048	11.548	11.798	12.048	12.298	12.548	12.79					



  	<b>Electrical Express Train From Borg Al Arab to Alameda</b> From Station 388+000 To Station 389+000			الهيئة العامة للمواصلات العامة	Serial No. IR-8 (40)
	مكتب إدارة هندسة النيل				Date 13/12/2022
<b>Works Inspection Request</b>					
We request your attendance to inspect the following work:					
Discipline : <input type="checkbox"/> Civil/Structural <input type="checkbox"/> Structure <input type="checkbox"/> Drainage <input type="checkbox"/> Survey					
Location :	Zone	From Station	To Station	Level	
	DREAM WAY	388+000	389+200	(DL-0.90)-1.25	
Reference	Drawing: EET-BORG EL ARAB RAY 29 Plan Profile		Specification: EET L.S. Substructure Specifications and Testing Report		
Purpose of the Inspection					
Surveying					
<input type="checkbox"/> Taking net <input type="checkbox"/> Levels <input type="checkbox"/> Verticality					
Attachments					
1- MASTER SHEET FOR FILL ACCORDING TO REV29			2-DAYLIGHT COORDINATES		
3-LEVELS OF LAYER			4-PREVIOUS IR-8(34)		
Works To be Inspected	SOIL LAYER AT -1.25 FROM PERM 388+000 TO 389+200				
Submitted by:		DREAM WAY	Name:	Signature: 	
Surveying Consultant Engineer's Comments:			Date of Inspection: / /		
levels matching the attached master sheet which approved by spectrum.					
The works are : <input type="checkbox"/> Approved (G) <input type="checkbox"/> Approved in kind (G) <input type="checkbox"/> Rejected (R) <input type="checkbox"/> Rejected (R)					
Name: 			Signature: 		
GARP Consultant Engineer's Comments:			Date of Inspection: / /		
					
The works are : <input type="checkbox"/> Approved (G) <input type="checkbox"/> Approved in kind (G) <input type="checkbox"/> Rejected (R) <input type="checkbox"/> Rejected (R)					
Name: 			Signature: 		
General Consultant's Comments:			Date: / /		
The works are : <input type="checkbox"/> Approved (G) <input type="checkbox"/> Approved in kind (G) <input type="checkbox"/> Rejected (R) <input type="checkbox"/> Rejected (R)					
Name:			Signature:		
GARP Engineer's Comments:			Date: / /		
Name:			Signature:		
General Consultant Eng.			GARP Eng.		



# UNIVERSAL INSPECTION REQUEST



WAY

المشروع  
لشركة  
(GATE)



مجموعة الشركة  
(GATE)



## RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24-Hours

The Work described below will be completed by the inspection at planned time shown

Contractor Company	Dream Way COMPANY. س.ب. ٣٩٥٥١٠			Designer Company*				(SPECTRUM) Engineering Consulting Office			
Issued by Contractor	Name	Sign		Date/Serial Number				Time			
	Eng. Elsaied Mohamed			03/04/2023 S5-B-DW-IR-S(47)				01:00			
Received by GARB CONSULTANT	Eng. Mazen Esamy		UIR	C2	C3	DO	MM	YY	HH	MM	
				388	EW	CS	04	01	23	01	00

CODE - 2	S1 to S21 Station Reference	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
CODE - 3	Work Activity		
	Sub Element of Activity		

## EXPLANATION OF WORK TO BE INSPECTED

Description				Element	Item
From St.	388+200	To St.	388+300	REV 29	upper embankment
From St.	388+383.86	To St.	388+483.86	REV 35	
				Fill layer ( -0.50 )	

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

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

## COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	References	MS References	
PLAN AND PROFILE (REV.35) POINT OF SHEET ON PLAN MASTER SHEET FOR CUT AND FILL APPROVED BY (SPECTRUM) CONSULTING	MAR (S5-B-DW- QT-19-01) MIR (S5-B-DW- FDT-44)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP	

Comments by: Eng. Mohamed KHALIL (XYZ)

- 1- Attached Master Sheet approved by SPECTRUM .
- 2- As Built (-0.50) fill layer coordinates , Elevations , Width



Comments by: Eng. Mostafa royad (SPECTRUM)

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

1- coordinates & levels and width checked by GARB consultant	2- مراجعة شيت الهندسية
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## INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsaied Mohamed				A-AWC-R	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
GARB**	Eng. Margret magdy					
Employers Representative	Eng. Alaa Abd-Allatif					



UNIVERSAL INSPECTION REQUEST		DREAM WAY		SPECTRUM		مكتب الكباري والكباري (GARBS)		SYSTRA		CIVIL ENGINEERING		SYSTRA	
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		Dream way Company				Designer Company*		(SPECTRUM) Engineering Consulting Office					
Issued by Contractor		Name		Sign		Date/Serial Number		Time					
		Eng. Abdelrahman atef		Abdelrahman		03/01/2023 IR-S (47)		12:00 PM					
Received by GARBS CONSULTANT		Eng.SAIED SAIF		UIR		C1 C2 C3 DD		MM		YY		HH MM	
						388+300 EW CS		04		01		2023 12 00	
CODE 1		STATION REFERENCE				D1 to D3 Depot Reference				Kp XXX Note For Kilo meter point only Start Km is used			
CODE 2		Work Activity											
CODE 3		Sub Element of Activity											
EXPLANATION OF WORK TO BE INSPECTED													
Description				Element				Item					
From St. 388+200 To St. 388+300				At level(-0.50)m with slope				Soil Replacement					
INSPECTION DETAILS The Following will be ready at the Planned Inspection Time													
Planned Inspection Date						Planned Inspection Time							
COMPLIANCE EVIDENCE Must be Included as appropriate													
Checklist Attached				Test Results Attached				Calibration Attached				Other as Indicated	
Drawing Reference				I.T.P. References				MS Reference					
PLAN AND PROFILE REV.30				MAR(11-2) MIR(44)				-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-12.1) VERSION 1 BY CIVECON GROUP					
Comments by: Eng. Mohamed Mansour (XYZ)				I- Attached Master Sheet approved by SPECTRUM.				1- coordinates & levels and width checked by GARBS consultant 2- (REV. 30 & X-sec./20m) Should Approved from SYSTRA, 3-Final approval is subject to above mentioned comments.					
Comments by: Eng. Saied Saif (SPECTRUM)				Comments by: Eng. Alaa Abd-Allatif (ER)									
1- تم استلام القطاع فحص بصري 2- تم مراجعة شيت المتناسيب													
INSPECTION RESULT													
Organisation		Name		Sign		Date		Time		Approval Status		Please Tick if Not Attend	
Contractor		Eng. Abdelrahman atef		Abdelrahman						A-AWC-R			
XYZ Survey		Eng. Mohamed Khalil								AWC			
QA/QC*		Eng. Saied saif								A			
GARBS**		Eng. Mohammed Fayad											
Employers Representative		Eng. Alaa Abd-Allatif								AWC			
* Designer File Name : MS-FL032 04/01													
Page 1 of 1													







Levels Of Layer (-0.5) From F.L. (from 388+200 to 388+300)												
Station	Left Side					CL	Right Side					SLOPE%
	SLOPE %	14.19	12	8	4		4	8	10.69			
388+200	4%	8.143	8.231	8.391	8.551	8.711	8.551	8.391	8.283	4%		
قراءة العامة												
الفرق		+2	✓	+2	-1	✓	+1	✓	+2			
388+220	4%	8.091	8.179	8.339	8.499	8.659	8.499	8.339	8.231	4%		
قراءة العامة												
الفرق		-2	+1	+1	✓	+1	-1	+2	+1			
388+240	4%	8.040	8.128	8.288	8.448	8.608	8.448	8.288	8.180	4%		
قراءة العامة												
الفرق		+1	✓	✓	-1	✓	-2	✓	✓			
388+260	4%	7.989	8.077	8.237	8.397	8.557	8.397	8.237	8.129	4%		
قراءة العامة												
الفرق		+1	✓	+2	✓	+2	-1	+2	✓			
388+280	4%	7.938	8.026	8.186	8.346	8.506	8.346	8.186	8.078	4%		
قراءة العامة												
الفرق		✓	✓	+1	✓	+1,5	✓	✓	+1			
388+300	4%	7.886	7.974	8.134	8.294	8.454	8.294	8.134	8.026	4%		
قراءة العامة												
الفرق		✓	-2	-1	+1	✓	✓	-2	✓			



أولم وأني للمقاولات العامة  
والتي هي من المقاولات العامة  
والتي هي من المقاولات العامة  
والتي هي من المقاولات العامة

3/4/2017

مشروع الطريق السريع غرب النيل  
مستشارات الطيف






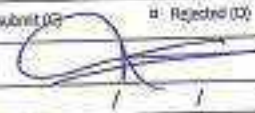
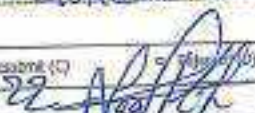
STATION	WIDTH AT (-0.5)												TOTAL WIDTH
	LEFT OFFSET (-0.5)						RIGHT OFFSET (-0.5)						
	CL			CL			RIGHT OFFSET (-0.5)			RIGHT OFFSET (-0.5)			
	N	E	Z	LEFT WIDTH	N	E	Z	N	E	Z	RIGHT WIDTH		
388+200.00	899894.59	427859.72	8.1434	14.19	899,907.8258m	427,854.8441m	8.711	899917.8	427868.7	8.2834	10.69	24.88	
388+220.00	899901.81	427841.07	8.0914	14.19	899,915.0447m	427,846.1924m	8.659	899925.01	427850.05	8.2314	10.69	24.88	
388+240.00	899909.03	427822.42	8.0404	14.19	899,922.2636m	427,827.5406m	8.608	899932.23	427831.4	8.1804	10.69	24.88	
388+260.00	899916.25	427803.77	7.9894	14.19	899,929.4826m	427,808.8889m	8.557	899939.45	427812.75	8.1294	10.69	24.88	
388+280.00	899923.47	427785.12	7.9384	14.19	899,936.7015m	427,790.2372m	8.506	899946.67	427794.1	8.0784	10.69	24.88	
388+300.00	899930.69	427766.46	7.8864	14.19	899,943.9204m	427,771.5854m	8.454	899953.89	427775.44	8.0264	10.69	24.88	

Handwritten signature/initials.



درجہ وائی للمقاولات العامة  
و تقاربت لدرجہ وائی للمقاولات العامة  
٢٢٨-١٤٤٠-٢٠٢٠



		Serial No. 907 (44)
	مكتب أ.د. صادق Electrical Express Train From Bang Alamy to Alnahr From Station 388+000 To Station 389+000	Date 17/12/2022
<b>Material Inspection Request</b>		
We request your attendance to inspect the following works :		
Discipline :	<input checked="" type="checkbox"/> Material submittal <input type="checkbox"/> Field Density Test <input type="checkbox"/> Field Void Test	
Location :	Zone Dream way	From Station 388+200 To Station 388+300 Level (DL-0.90)-0.75
References	IR- Survey No(44)	Specification: EET 1.1.1 Earthworks Specifications and Testing Report
Purpose of the inspection		
1. Earthwork		
<input checked="" type="checkbox"/> Natural Sub Grade <input type="checkbox"/> Sub Ballot <input type="checkbox"/> Upper Embankment <input type="checkbox"/> Ballot <input type="checkbox"/> L / H Embankment <input type="checkbox"/> isolation		
Attachments		
1- F.D.T result ASTM D 1556		2-Master Sheet
3- Previous Surveying IR (38)		4-Previous F.D.T. No. (38)
Works To be Inspected	Compaction test result (388+200 to 388+300) Layer (-0.75)	
		
Submitted by:	Dream way	Name: _____ Signature: 
SARP Consultant Engineer's Comments :		Date of Inspection: / /
The compaction test result (F.D.T) is OK		
The works are : <input checked="" type="checkbox"/> Approved (A) <input type="checkbox"/> Approved as noted (AS) <input type="checkbox"/> Revised Resubmit (R) <input type="checkbox"/> Rejected (R)		
Name: <u>Mazin Elamy</u>		Signature: 
General Consultant's Comments:		Date: / /
1- Two Sample was selected For (F.D.T)		
2- Sand cone test was carried out by contractor and GARB consultant		
3- Results attached and found acceptable and completely with project specs.		
4- Final approval is subject above mentioned comment		
The works are : <input checked="" type="checkbox"/> Approved (A) <input type="checkbox"/> Approved as noted (AS) <input type="checkbox"/> Revised Resubmit (R) <input type="checkbox"/> Rejected (R)		Signature: 
Name: <u>Ali Abdelhadi</u>		Date: 18/12/
GARB Engineer's Comments:		Signature: _____
Name: /		Signature: _____
General Consultant Eng.		GARB Eng.

Contractor

Consultants

 درجہ وائی لمقامات البعامة  
 والتربة من البعامة والاسفلت  
 من 388+200 إلى 388+300

مشروع القطار السريع شرق النيل



# UNIVERSAL INSPECTION REQUEST



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## RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be completed ready for inspection at planned time

Contractor Company	Dream Way COMPANY			Designer Company*	(SPECTRUM) Engineering Consulting Office
Issued by Contractor	Name	Sign	Date/Serial Number	Time	
	Eng. Elsayed Mohamed		09/01/2023 S5-B-DW-IR-S(50)	01:00	
Received by GARB CONSULTANT	Eng. Mazen Esamy	Sign	UIR		

CODE-1	S1 to S21 Station Reference	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used
CODE-2	Work Activity		
CODE-3	Sub Element of Activity		

## EXPLANATION OF WORK TO BE INSPECTED

Description				Element		Item
From St.	388+200	To St.	388+300	REV 29	Fill layer ( -0.25 )	upper embankment
From St.	388+383.86	To St.	388+483.86	REV 35		

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

Planned Inspection Date	Planned Inspection Time
-------------------------	-------------------------

## COMPLIANCE EVIDENCE - Must be included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	References	MS References	
PLAN AND PROFILE (REV.35) POINT OF SHEET ON PLAN MASTER SHEET FOR CUT AND FILL APPROVED BY (SPECTRUM) CONSULTING	MAR (S5-B-DW- QT-19-01) MIR ( S5-B-DW- FDT-47 )	- Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP. - TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	

Comments by: Eng. Mohamed KHALIL (XYZ)

1- Attached Master Sheet approved by SPECTRUM.  
As Built (-0.25) fill layer coordinates, Elevations, Width

2-

Comments by: Eng. Mostafa reyal (SPECTRUM)

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

1-coordinates & levels and width checked by GARB consultant

2- تم استلام القطاع فحسباً  
تم مراجعة شيفت المناهج

## INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Contractor	Eng. Elsayed Mohamed				A	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Mazen Esamy				A	
GARB**	Eng. Margret magdy					
Employers Representative	Eng. Alaa Abd-Allatif				A	



# UNIVERSAL INSPECTION REQUEST



الهيئة العامة  
للطرق والكباري  
(GARB)



## RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company		DREAM WAY		Designer Company*		(SPECTRUM) Engineering Consulting Office	
Issued by Contractor	Name	Sign	Date/Serial Number	Time			
	Eng. Abdelrahman atef	Abdelrahman Atef	10/01/2022 IR-S (50)	1:00 PM			
Received by GARB CONSULTANT	Eng. SAIED SAIF	UIR	C1	C2	C3	DD	MM
			388+200	EW	CS	10	01
CODE - 1	S1 to S21 Station Reference	D1 to D3 Depot Reference	Kp XXX Note For Kilo meter point only Start Km is used				
CODE - 2	Work Activity						
CODE - 3	Sub Element of Activity						

## EXPLANATION OF WORK TO BE INSPECTED

Description	Element	Item
From SL. 388+200 To SL. 388+300	FILL LAYER AT (-0.25) FROM FERMA	FILL LAYER

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

Planned Inspection Date	Planned Inspection Time

## COMPLIANCE EVIDENCE Must be Included as appropriate

Checklist Attached	Test Results Attached	Calibration Attached	Other as indicated
Drawing Reference	References	MS Reference	
Plan and Profile REV. 30	MAR(8-2) MIR(47)	-Specification: EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2)/VERSION2 BY CIVECON GROUP. -TECHNICAL REPORT (CG21-122.1) VERSION 1 BY CIVECON GROUP.	
Comments by: Eng. Mohamed Mansour (XYZ) 1- Attached Master Sheet approved by SPECTRUM.			
Comments by: Eng. Saled Saief (SPECTRUM) 1- تم استلام القطاع فحص بصري 2- تم مراجعة شيت المناسيب			
Comments by: Eng. Alaa Abd-Allatif (ER) 1-coordinates & levels and width checked by GARB consultant 2- (REV. 30 & X-sec./20m) Should Approved from SYSTRA. 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. M. Abugabal				A-AWC-R	
XYZ Survey	Eng. Mohamed Khalil				A	
QA/QC*	Eng. Saled Saief				AWC	
GARB**	Eng. Mohammed Fayad				A	
Employers Representative	Eng. Alaa Abd-Allatif				A	

\* Designer

File Name - MS-F.L032



Levels Of Layer (-0.25) From F.L. (from 388+200 to 388+300)													
Station	Left Side						C.L	Right Side					
	SLOPE %	13.82	12	8	4			4	8	10.32	SLOPE%		
388+200	4%	8.408	8.481	8.641	8.801		8.961	8.801	8.641	8.548	4%		
قراءة العامة													
الفرق			✓	✓	✓	✓	✓	+1	+1	✓			
388+220	4%	8.356	8.429	8.589	8.749		8.909	8.749	8.589	8.496	4%		
قراءة العامة													
الفرق			+1	✓	+1	✓	✓		-1	-1			
388+240	4%	8.305	8.378	8.538	8.698		8.858	8.698	8.538	8.445	4%		
قراءة العامة													
الفرق		✓	✓	-1	✓	✓	✓		✓	✓			
388+260	4%	8.254	8.327	8.487	8.647		8.807	8.647	8.487	8.394	4%		
قراءة العامة													
الفرق		-1	✓	+1	✓	✓	✓		✓	✓			
388+280	4%	8.203	8.276	8.436	8.596		8.756	8.596	8.436	8.343	4%		
قراءة العامة													
الفرق		✓	✓	✓	✓	✓	-1		✓	✓			
388+300	4%	8.151	8.224	8.384	8.544		8.704	8.544	8.384	8.291	4%		
قراءة العامة													
الفرق		✓	+1	+1	✓	✓	✓	✓	-1	+1			

م.شروع القطار السريع غرب النيل



م.شروع القطار السريع غرب النيل

Handwritten signature



STATION	WIDTH AT (-0.25)									
	LEFT OFFSET (-0.25)					RIGHT OFFSET (-0.25)				
	N	E	Z	WIDTH	CL	N	E	Z	WIDTH	TOTAL WIDTH
388+200.00	899894.942	427859.858	8.4084	13.815	427,864.8441m	899,907.8258m	427,864.8441m	8.961	10.315	24.13
388+220.00	899902.161	427841.206	8.3564	13.815	427,846.1924m	899,915.0447m	427,846.1924m	8.909	10.315	24.13
388+240.00	899909.38	427822.554	8.3054	13.815	427,827.5406m	899,922.2636m	427,827.5406m	8.858	10.315	24.13
388+260.00	899916.599	427803.902	8.2544	13.815	427,808.8389m	899,929.4826m	427,808.8389m	8.807	10.315	24.13
388+280.00	899923.818	427785.251	8.2034	13.815	427,790.2372m	899,936.7015m	427,790.2372m	8.756	10.315	24.13
388+300.00	899931.037	427766.599	8.1514	13.815	427,771.5854m	899,943.9204m	427,771.5854m	8.704	10.315	24.13

*[Signature]*

*am-A Dr E*







Master Sheet For Fill (From 388+000 To 389+000)(Dream way) Rev 29 (27-10-2022)									
station	388+000	388+010	388+020	388+030	388+040	388+050	388+060	388+070	388+080
subgrade-1	388+090	388+100	388+110	388+120	388+130	388+140	388+150	388+160	388+170
subgrade-2	388+180	388+190	388+200	388+210	388+220	388+230	388+240	388+250	388+260
subgrade-3	388+270	388+280	388+290	388+300	388+310	388+320	388+330	388+340	388+350
subgrade-4	388+360	388+370	388+380	388+390	388+400	388+410	388+420	388+430	388+440
subgrade-5	388+450	388+460	388+470	388+480	388+490	388+500	388+510	388+520	388+530
subgrade-6	388+540	388+550	388+560	388+570	388+580	388+590	388+600	388+610	388+620
subgrade-7	388+630	388+640	388+650	388+660	388+670	388+680	388+690	388+700	388+710
subgrade-8	388+720	388+730	388+740	388+750	388+760	388+770	388+780	388+790	388+800
subgrade-9	388+810	388+820	388+830	388+840	388+850	388+860	388+870	388+880	388+890
subgrade-10	388+900	388+910	388+920	388+930	388+940	388+950	388+960	388+970	388+980
subgrade-11	388+990	388+1000	388+1010	388+1020	388+1030	388+1040	388+1050	388+1060	388+1070
subgrade-12	388+1080	388+1090	388+1100	388+1110	388+1120	388+1130	388+1140	388+1150	388+1160
subgrade-13	388+1170	388+1180	388+1190	388+1200	388+1210	388+1220	388+1230	388+1240	388+1250
subgrade-14	388+1260	388+1270	388+1280	388+1290	388+1300	388+1310	388+1320	388+1330	388+1340
subgrade-15	388+1350	388+1360	388+1370	388+1380	388+1390	388+1400	388+1410	388+1420	388+1430
subgrade-16	388+1440	388+1450	388+1460	388+1470	388+1480	388+1490	388+1500	388+1510	388+1520
subgrade-17	388+1530	388+1540	388+1550	388+1560	388+1570	388+1580	388+1590	388+1600	388+1610
subgrade-18	388+1620	388+1630	388+1640	388+1650	388+1660	388+1670	388+1680	388+1690	388+1700
subgrade-19	388+1710	388+1720	388+1730	388+1740	388+1750	388+1760	388+1770	388+1780	388+1790
subgrade-20	388+1800	388+1810	388+1820	388+1830	388+1840	388+1850	388+1860	388+1870	388+1880
subgrade-21	388+1890	388+1900	388+1910	388+1920	388+1930	388+1940	388+1950	388+1960	388+1970
subgrade-22	388+1980	388+1990	388+2000	388+2010	388+2020	388+2030	388+2040	388+2050	388+2060
subgrade-23	388+2070	388+2080	388+2090	388+2100	388+2110	388+2120	388+2130	388+2140	388+2150
subgrade-24	388+2160	388+2170	388+2180	388+2190	388+2200	388+2210	388+2220	388+2230	388+2240
subgrade-25	388+2250	388+2260	388+2270	388+2280	388+2290	388+2300	388+2310	388+2320	388+2330
subgrade-26	388+2340	388+2350	388+2360	388+2370	388+2380	388+2390	388+2400	388+2410	388+2420
subgrade-27	388+2430	388+2440	388+2450	388+2460	388+2470	388+2480	388+2490	388+2500	388+2510
subgrade-28	388+2520	388+2530	388+2540	388+2550	388+2560	388+2570	388+2580	388+2590	388+2600
subgrade-29	388+2610	388+2620	388+2630	388+2640	388+2650	388+2660	388+2670	388+2680	388+2690
subgrade-30	388+2700	388+2710	388+2720	388+2730	388+2740	388+2750	388+2760	388+2770	388+2780
subgrade-31	388+2790	388+2800	388+2810	388+2820	388+2830	388+2840	388+2850	388+2860	388+2870
subgrade-32	388+2880	388+2890	388+2900	388+2910	388+2920	388+2930	388+2940	388+2950	388+2960
subgrade-33	388+2970	388+2980	388+2990	388+3000	388+3010	388+3020	388+3030	388+3040	388+3050
subgrade-34	388+3060	388+3070	388+3080	388+3090	388+3100	388+3110	388+3120	388+3130	388+3140
subgrade-35	388+3150	388+3160	388+3170	388+3180	388+3190	388+3200	388+3210	388+3220	388+3230
subgrade-36	388+3240	388+3250	388+3260	388+3270	388+3280	388+3290	388+3300	388+3310	388+3320
subgrade-37	388+3330	388+3340	388+3350	388+3360	388+3370	388+3380	388+3390	388+3400	388+3410
subgrade-38	388+3420	388+3430	388+3440	388+3450	388+3460	388+3470	388+3480	388+3490	388+3500
subgrade-39	388+3510	388+3520	388+3530	388+3540	388+3550	388+3560	388+3570	388+3580	388+3590
subgrade-40	388+3600	388+3610	388+3620	388+3630	388+3640	388+3650	388+3660	388+3670	388+3680
subgrade-41	388+3690	388+3700	388+3710	388+3720	388+3730	388+3740	388+3750	388+3760	388+3770
subgrade-42	388+3780	388+3790	388+3800	388+3810	388+3820	388+3830	388+3840	388+3850	388+3860
subgrade-43	388+3870	388+3880	388+3890	388+3900	388+3910	388+3920	388+3930	388+3940	388+3950
subgrade-44	388+3960	388+3970	388+3980	388+3990	388+4000	388+4010	388+4020	388+4030	388+4040
subgrade-45	388+4050	388+4060	388+4070	388+4080	388+4090	388+4100	388+4110	388+4120	388+4130
subgrade-46	388+4140	388+4150	388+4160	388+4170	388+4180	388+4190	388+4200	388+4210	388+4220
subgrade-47	388+4230	388+4240	388+4250	388+4260	388+4270	388+4280	388+4290	388+4300	388+4310
subgrade-48	388+4320	388+4330	388+4340	388+4350	388+4360	388+4370	388+4380	388+4390	388+4400
subgrade-49	388+4410	388+4420	388+4430	388+4440	388+4450	388+4460	388+4470	388+4480	388+4490
subgrade-50	388+4500	388+4510	388+4520	388+4530	388+4540	388+4550	388+4560	388+4570	388+4580
subgrade-51	388+4590	388+4600	388+4610	388+4620	388+4630	388+4640	388+4650	388+4660	388+4670
subgrade-52	388+4680	388+4690	388+4700	388+4710	388+4720	388+4730	388+4740	388+4750	388+4760
subgrade-53	388+4770	388+4780	388+4790	388+4800	388+4810	388+4820	388+4830	388+4840	388+4850
subgrade-54	388+4860	388+4870	388+4880	388+4890	388+4900	388+4910	388+4920	388+4930	388+4940
subgrade-55	388+4950	388+4960	388+4970	388+4980	388+4990	388+5000	388+5010	388+5020	388+5030
subgrade-56	388+5040	388+5050	388+5060	388+5070	388+5080	388+5090	388+5100	388+5110	388+5120
subgrade-57	388+5130	388+5140	388+5150	388+5160	388+5170	388+5180	388+5190	388+5200	388+5210
subgrade-58	388+5220	388+5230	388+5240	388+5250	388+5260	388+5270	388+5280	388+5290	388+5300
subgrade-59	388+5310	388+5320	388+5330	388+5340	388+5350	388+5360	388+5370	388+5380	388+5390
subgrade-60	388+5400	388+5410	388+5420	388+5430	388+5440	388+5450	388+5460	388+5470	388+5480
subgrade-61	388+5490	388+5500	388+5510	388+5520	388+5530	388+5540	388+5550	388+5560	388+5570
subgrade-62	388+5580	388+5590	388+5600	388+5610	388+5620	388+5630	388+5640	388+5650	388+5660
subgrade-63	388+5670	388+5680	388+5690	388+5700	388+5710	388+5720	388+5730	388+5740	388+5750
subgrade-64	388+5760	388+5770	388+5780	388+5790	388+5800	388+5810	388+5820	388+5830	388+5840
subgrade-65	388+5850	388+5860	388+5870	388+5880	388+5890	388+5900	388+5910	388+5920	388+5930
subgrade-66	388+5940	388+5950	388+5960	388+5970	388+5980	388+5990	388+6000	388+6010	388+6020
subgrade-67	388+6030	388+6040	388+6050	388+6060	388+6070	388+6080	388+6090	388+6100	388+6110
subgrade-68	388+6120	388+6130	388+6140	388+6150	388+6160	388+6170	388+6180	388+6190	388+6200
subgrade-69	388+6210	388+6220	388+6230	388+6240	388+6250	388+6260	388+6270	388+6280	388+6290
subgrade-70	388+6300	388+6310	388+6320	388+6330	388+6340	388+6350	388+6360	388+6370	388+6380
subgrade-71	388+6390	388+6400	388+6410	388+6420	388+6430	388+6440	388+6450	388+6460	388+6470
subgrade-72	388+6480	388+6490	388+6500	388+6510	388+6520	388+6530	388+6540	388+6550	388+6560
subgrade-73	388+6570	388+6580	388+6590	388+6600	388+6610	388+6620	388+6630	388+6640	388+6650
subgrade-74	388+6660	388+6670	388+6680	388+6690	388+6700	388+6710	388+6720	388+6730	388+6740
subgrade-75	388+6750	388+6760	388+6770	388+6780	388+6790	388+6800	388+6810	388+6820	388+6830
subgrade-76	388+6840	388+6850	388+6860	388+6870	388+6880	388+6890	388+6900	388+6910	388+6920
subgrade-77	388+6930	388+6940	388+6950	388+6960	388+6970	388+6980	388+6990	388+7000	388+7010
subgrade-78									



# MATERIAL INSPECTION REQUEST



إدارة المراقبة  
والضمان  
(GARB)



## RECEIPT of NOTIFICATION-Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned date shown

Contractor Company	Dream way Company		Designer Company*	(SPECTRUM) Engineering Consulting Office	
Issued by Contractor	Name	Sign	Date/Serial Number	Time	
	Eng. Abdelrahman atef	<i>Abdelrahman atef</i>	07/01/2023 (M.I.R.047)	3:00 PM	
Received by GARB CONSULTANT	Eng. SAIED SAIF	<i>SAIED SAIF</i>	MIR	C1 388	C2 EW
				C3 CS	DD 08
				MM 01	YY 2023
				HH 12	MM 00

CODE-1

STATION REFERENCE

D1 to D3 Depot Reference

Kp XXX Note  
For Kilo meter point only Start Km is used

CODE-2

Work Activity

CODE-3

Sub Element of Activity

Description of material	fill layer at -0.50 from forma level				
Location to be used	from	388+300	TO	388+500	
MAR&UIR APPROVAL NO	UIR-S-47	Date	7/1/2023		
	M.A.R(11-2)		5/12/2022		
SUPPLIER NAME	ELSEWY, Dream way				
Test Requirement	F.D.T/ASTM D 1556	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION2 BY CIVECON GROUP.		
Reference photos	No/Yes	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1			4		
2					

Comments by: Eng. Mazen Essamy (SPECTRUM)

The compaction test result F.D.T (ASTM D 1556) is Approved.

- 1-F.D.T was carried-out by material engineer for both contractor and GARB consultant
- 2-Result report attached and acceptable with project specifications.
- 3-Final approval is subject to above mentioned comments.

إدارة المراقبة والضمان  
العامة  
التوقيع: *SAIED SAIF*  
التاريخ: 07/01/2023

## APPROVAL STATUS

Organisation	Name	Sign	Date	
Contractor	Eng. Abdelrahman atef	<i>Abdelrahman atef</i>		A
XYZ Survey	Eng. Mohamed Khalil			
QA/QC*	Eng. Saied saif	<i>SAIED SAIF</i>		A
GARB**	Eng. Mohammed Fayad			A
Employers Representative	Eng. Alsa Abd-Allah	<i>Alsa Abd-Allah</i>		AWC

\* Designer


File Name : MS-F-1032



Contractor Company	Dream Way		Designer Company	SPECTRUM ENGINEER CONSULTING OFFICE				
Issued by Contractor	Name	Sign	Date/Serial Number	Time				
	Eng.SAEED MOHAMMED		16/1/2023 (S5-B-DW) (P.L.T.07)	10:00 AM				
Received by GARB CONSULTANT	Eng.MAZEN ESSAMY		MIR	11	12	13	14	15
				388	EW	CS	17	1

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

Description of Materials	FERMA			
Location to be Used	REV.29	388+200	TO	388+300
	REV.35	388+383.86		388+483.86
Supplier Name	محاجر السيوي - العلمين			
Test Requirement	P.L.T (DIN 18134)	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP	
Reference Photos	No/Yes	Other	S5-B-DW-IR-S(52) S5-B-DW-QT(19-1)	
Item	Description	Unit	Quantity	Arrival Date
1	PLATE LOAD TEST	NUMBER	4	18/1/2023
2				
3				
4				

Comments by: Eng.MAZEN ESSAMY(spectrum)	Comments by: Eng. Alaa Abd-Allatif (ER)
 <p>1-The Plate Load Test Result P.L.T. (DIN 18134) is Approved.</p>	<p>1-P.L.T was carried- out by third party lab (CEL) :-</p> <p>2-Results report attached and acceptable with project specifications.</p>

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng.SAEED MOHAMMED			A
QA/QC*	Eng.MAZEN ESSAMY			A
GARB**	Eng. Margret magdy			
Employers Representative	Eng. Alaa Abd-Allatif			A

\* Designer

\*\* Alignment/Bridges: Culvert only


دريم واى للمقاولات العامة  
 لمقاولات الباطنية والاسطوانات والتضاريس  
 من ٢٠١٢ إلى ٢٠٢٣



Contractor Company	DREAM WAY		Designer Company	(SPECTRUM) Engineering Consulting Office			
Issued by Contractor	Name	Eng. Abdelrahman Atef	Sign	Date/Serial Number		Time	
				17/1/2023 PLT(08)		3:00 PM	
Received by GARB CONSULTANT	Eng. Mazen Essamy	MIR		CL	CS	CS	DO
				388	EW	CS	18
				MM	YY	HH	MM

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

Location to be Used	From	388+200	TO	388+300
MAR	QT(12-2)	Date	20/12/2022	
Supplier Name	ELSEWY , Dream way			
Test Requirement	PLATE LOAD TEST ON FERMA	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21 41.2) VERSION 2 BY DIVECON GROUP	
Reference Photos	No/Yes	Other	UIR -S-4B	
Item	Description	Unit	Quantity	Arrival Date
1	PLT BY CONSULTING ENGINEERING BUREAU & LABORATORIES	NUMBER	2	
2				
3				
4				

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allatif (ER)
 <p>1-The plate load test result by third party is approval</p>	<p>1-2 points of plt. was carried- out by (CEL) on ferma layer</p> <p>2-Results report attached and acceptable with project specifications.</p> <p>3-Final approval is subject to above mentioned comments.</p>


APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Abd el rahman atef	Abdelrahman Atef		A
QA/QC *	Eng. Mazen Essamy			A
GARB**	Eng. Mohammed Fayad			
Employers Representative	Eng. Alaa Abd-Allatif	Alaa Abd-Allatif	19/1/2023	AWC

\* Designer

\*\* Alignment/Bridges: Culvert only

Contractor Company	AlMotahada 2 CO. for Contracting and Paving Roads			Designer Company	(SPECTRUM) Engineering Consulting Office						
Issued by Contractor	Name	Sign	Date/Serial Number	Time							
	Eng. Abdelrahman Atef		17/1/2023 PLT[08]								
Received by GARB CONSULTANT	Eng. Mazen Essamy		MIR	C1	C2	C3	DD	MM	YY	HH	MM
				388	EW	CS	18	1	23	3	0

LINE 1	S1 to S23	D1 to S3	Kp XXX Note
LINE 2	Station Reference	Depot Reference	For Kilometer point only Start km is used
LINE 3	Work Activity		
	Sub Element of Activity		

Location to be Used	From	388+200	TO	388+300
MAR		Date	15/1/2023	
Supplier Name	ELSEWY, Dream way			
Test Requirement	PLATE LOAD TEST	Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (G21-41.2) VERSION 2 BY CIVECON GROUP	
Reference Photos	No/Yes	Other	uik—	

Item	Description	Unit	Quantity	Arrival Date	Note
1	PLT BY CONSULTING ENGINEERING BUREAU & LABORATORIES	NUMBER	2		
2					
3					
4					

Comments by: Eng. Mazen Essamy (SPECTRUM)	Comments by: Eng. Alaa Abd-Allatif (ER)
 <p>1-The plate load test result by third party is approval</p>	<p>1-2 points of plt was carried- out by (CEL) on ferma layer</p> <p>2-Results report attached and acceptable with project specifications.</p> <p>3-Final approval is subject to above mentioned comments.</p>

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

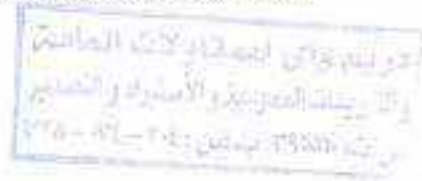
\* Designer

\*\* Alignment/Bridges/Culvert only



Company : شركة دريم واى

**Project** : Electric Express Train, Al Ain Sokhna to Marsa Matrouh Priority Sector (6)  
- Borg ALarab to Foka  
**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 388+200 to 388+300  
**Test Date** : 17/01/2023  
**Report Date** : 18/01/2023  
**Type of Soil** : A-1-a  
**Type of soil** : Upper Embankment (Ferma).  
**Report No.** : 96:97



Dear Gentleman,

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

### Apparatus

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

### Test Procedure

1. Clean the ground on test area to the required level with undisturbed soil
2. Install loading plates 600 mm and 300 mm diameter, hydraulic jack and 3 dial gauges
3. Prior to starting the test applied preloading about 30 seconds.
4. The strain gauge and the dial gauge shall be set to zero
5. For a 600 mm loading plate, the limit values are 2.5 kg/cm<sup>2</sup>
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 (2<sup>nd</sup>) 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

Type of Soil : Upper Embankment (Ferma).  
Job Requirement :  $E_{v2} > 600 \text{ Kg/cm}^2$  (60 MPa).

Item	Descriptions
- Type of bedding material below the plate	Natural Soil
- Weather condition	Partly Sunny
- Plate Diameter (mm)	600
- date of measurement	17/01/2023
- 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
	From	To	$E_{v1} \text{ (kg/cm}^2\text{)}$	$E_{v2} \text{ (kg/cm}^2\text{)}$	
1	388+200	388+250	1607	1607	1.0
2	388+250	388+300	1286	2045	1.6

Signature /

مكتب معامل الاستشارات الهندسية  
تدقيق المهندس / محمد عبد الحليم / القاهرة







Company Name : dream Way Co.  
 Project : Electric Express Train, from Borg Al Arab to Alamein.  
 Test Date : 17/01/2023  
 report date : 18/01/2023  
 Location : Station 388+200 to 388+250  
 Test No. : 1

**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	19.84	0.16	19.83	0.17	19.90	0.10	0.14
2	0.83	19.71	0.29	19.70	0.30	19.78	0.22	0.27
3	1.25	19.60	0.40	19.58	0.42	19.65	0.35	0.39
4	1.67	19.48	0.52	19.46	0.54	19.55	0.45	0.50
5	2.08	19.36	0.64	19.34	0.66	19.46	0.54	0.61
6	2.50	19.26	0.74	19.24	0.76	19.37	0.63	0.71

**Unloading Stage (1)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.26	0.74	19.24	0.76	19.37	0.63	0.71
2	1.25	19.30	0.70	19.30	0.70	19.40	0.60	0.67
3	0.625	19.46	0.54	19.48	0.52	19.56	0.44	0.50
4	0.01	19.74	0.26	19.78	0.22	19.82	0.18	0.22

**Loading Stage (2)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.67	0.33	19.58	0.32	19.78	0.22	0.29
1	0.83	19.56	0.44	19.54	0.46	19.66	0.34	0.41
2	1.25	19.45	0.55	19.42	0.58	19.54	0.46	0.53
3	1.67	19.35	0.65	19.32	0.68	19.44	0.56	0.63
4	2.08	19.25	0.75	19.22	0.78	19.36	0.64	0.72
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature

*[Signature]*  
 مكتب معامل الاستشارات الهندسية  
 3 شارع الملك الأفضل - الزمالك - القاهرة



Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 17/01/2023  
report date : 18/01/2023  
Location : Station 388+200 to 388+250  
Test No. : 1

مريم ودي لا محاربات الخاصة  
مكتب معمل الإستشارات الهندسية  
17-01-2023

#### 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	0.14	0.27	0.39	0.50	0.61	0.71

UnLoading (1)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm2)	2.50	1.25	0.825	0.01
Settlement (mm)	0.71	0.67	0.50	0.22

D (mm) =	600	S1 (mm)=	0.24	S2(mm)=	0.52	ΔS =	0.28
Ev1 (kg/cm2) =	(0.75*D*Δσ)/ΔS						1607

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)	0.22	0.28	0.41	0.53	0.63	0.72

Ev2/Ev1 = 1.0

D (mm) =	600	S1 (mm)=	0.38	S2(mm)=	0.66	ΔS =	0.28
Ev2 (kg/cm2) =	(0.75*D*Δσ)/ΔS						1607

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/cm<sup>2</sup>)  
ΔS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)

Signature:   
مكتب معمل الإستشارات الهندسية  
17-01-2023





دروس والى للمقاولات الخاصة  
وتدريب المهندسين والاشهاد والتدريب  
بمبنى ٢٩٥٥٠٠٠٠ بومدين ٢٠١٨-٢٠١٩

Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 17/01/2023  
report date : 18/01/2023  
Location : Station 388+250 to 388+300  
Test No. : 2

**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	19.82	0.18	19.83	0.17	19.83	0.17	0.17
2	0.83	19.70	0.30	19.71	0.29	19.71	0.29	0.29
3	1.25	19.58	0.42	19.51	0.49	19.57	0.43	0.45
4	1.67	19.37	0.63	19.41	0.59	19.43	0.57	0.60
5	2.08	19.25	0.75	19.28	0.72	19.32	0.68	0.72
6	2.50	19.14	0.86	19.18	0.82	19.21	0.79	0.82

**Unloading Stage (1)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
1	2.50	19.14	0.86	19.18	0.82	19.21	0.79	0.82
2	1.25	19.17	0.83	19.22	0.78	19.26	0.74	0.78
3	0.625	19.21	0.79	19.26	0.74	19.41	0.59	0.71
4	0.01	19.54	0.46	19.58	0.42	19.81	0.19	0.36

**Loading Stage (2)**

Loading	Stress Kg/cm2	Dial 1	Settlement mm	Dial 2	Settlement mm	Dial 3	Settlement mm	Average
0	0.42	19.46	0.54	19.50	0.50	19.65	0.35	0.46
1	0.83	19.40	0.60	19.41	0.59	19.51	0.49	0.56
2	1.25	19.34	0.66	19.32	0.68	19.37	0.63	0.66
3	1.67	19.23	0.77	19.23	0.77	19.31	0.69	0.74
4	2.08	19.12	0.88	19.10	0.90	19.26	0.74	0.84
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#REF!

Signature 1

مكتب معامل الإستشارات الهندسية  
بمبنى ٢٩٥٥٠٠٠٠ بومدين ٢٠١٨-٢٠١٩



Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 17/01/2023  
report date : 18/01/2023  
Location : Station 388+250 to 388+300  
Test No. : 2

## Nonrepetitive Static Plate Load Tests of Soils



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	0.17	0.29	0.45	0.60	0.72	0.82

UnLoading (t)	1	2	3	4
Stage(Kg)	7065	3533	1768	0
Stress (Kg/cm2)	2.60	1.25	0.625	0.01
Settlement (mm)	0.82	0.76	0.71	0.36

D (mm) = 600	S1 (mm) = 0.27	S2 (mm) = 0.62	$\Delta S = 0.35$
$\rho_{v1} \text{ (kg/cm}^2\text{)} = (0.75^\circ D^2 \Delta \sigma) / \Delta S$	1286		

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)	0.36	0.46	0.56	0.66	0.74	0.84

D (mm) =	600	S1 (mm) =	0.54	S2 (mm) =	0.76	ΔS =	0.22
Ev2 (kg/cm <sup>2</sup> ) =	(0.75*D*Δσ)/ΔS		2045				

$$E_{v2}/E_{v1} = 1.6$$

Ev1 = Modulus of deformation during the loading stage.

$E_{v2}$  = Modulus of deformation during the Reloading stage.

D = Plate diameter (mm)

Dc = The difference between 0.3 and 0.7 from the maximum loading ( $s_{max}$ ) ( $\text{kg}/\text{cm}^2$ )

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

Signature

مكتبة محمد بن عبد الله بن عبد الوهاب  
الرياض - 35000

74

CONSULTING

10/11/2019

93

100

2000

RECEIVED



المجلس الأعلى

Figure 1

---

ش. الملك الأفضل

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

لرمائك - الماهرة

کیشون : فاکس : ۲۷۳۶۷۲۳۱ - ۲۷۳۶۳۰۹۳

يكون

[www.cel-egypt.com](http://www.cel-egypt.com)







Contractor Company	Dream Way	Designer Company	SPECTRUM ENGINEER CONSULTING	Name	Eng. SAIED MOHAMMED	Issued by Contractor	Eng. MAZEN ESSAMY	Received by GARB CONSULTANT	Eng. MAZEN ESSAMY
	Sign		Date/Serial Number		30/03/2023		(SS-B-DW) (P.L.T.10)		Time

ST to ST1	ST to ST1	ST to ST1
ST to ST1	ST to ST1	ST to ST1
ST to ST1	ST to ST1	ST to ST1

Description of Materials	Location to be Used		Supplier Name	Test Requirement	Reference Photos	Description	Unit	Quantity	Arrival Date	Note
	REV. 29	REV. 35								
FERMA		388+400	TO	388+383.86	388+200	388+383.86	PL.T (DIN 18134)	Specification	Other	55-B-DW-IR-S(54) 55-B-DW-QT(20-1)
Comments by: Eng. MAZEN ESSAMY (Spectrum)		Comments by: Eng. Alaa Abd-Allatif (ER)								
1-The Plate Load Test Result per (DIN 18134) is approved		1-P.L.T was carried-out by third party lab (CEL) .								
2-Results report attached and acceptable with project specifications.										

APPROVAL STATUS										
Organisation	Name	Sign	Date	A-AWC-R						
Contractor	Eng. SAIED MOHAMMED			A						
QA/QC	Eng. MAZEN ESSAMY			A						
GARB	Eng. Margaret magdy									
Employers Representative	Eng. Alaa Abd-Allatif			A						

Designer  
 \*\* Engineer/Designer/Consultant only

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		Designer Company		(SPECTRUM) Engineering Consulting Office		Name		Sign	
Dream way Company		Designer Company		(SPECTRUM) Engineering Consulting Office		Eng. Abdelrahman atef		Abdelrahman atef	
Issued by Contractor		Date/Serial Number		Time		Received by GARB		Eng. mazen essayy	
Name		30/01/2023		3:00 PM		C1		MIR	
Sign		PLT(10)				C2		EW	
		DD		MM		YY		HH	
		01		2023		12		00	
STATION REFERENCE		D1 to D3 Depot Reference		Kp XXX Note		For Kilo meter point only Start Km is used			
CODE - 1		CODE - 2		CODE - 3		Sub Element of Activity			
Description of material		PLATE LOAD TEST ON FERMA							
Location to be used		368+000		TO		368+200			
MAR		QT(13-2)		Date		29/12/2022			
SUPPLIER NAME		ELSEWY, Dream way		Specification		EARTHWORK SPECIFICATIONS & TESTING REPORT (OG21-41) VERSION2 BY CIVILCON GROUP.		Other	
Test Requirement		PLATE LOAD TEST ON FERMA		Reference photos		No/Yes		UIR-S(54)	
Item		Description		Unit		Quantity		Arrival Date	
1		pit by consulting engineering				4			
2		bureaus/operatives							
Comments by: Eng. Mazen Essayy (SPECTRUM)									
<p>The plate load test results by third party is approval</p> <p>1-4 points of pit was carried-out by (cel) on ferma layer.</p> <p>2- Result report attached and acceptable with project specifications.</p> <p>3-Final approval is subject to above mentioned comment.</p>									
APPROVAL STATUS									
Organisation		Name		Sign		Date		A-AWC-R	
Contractor		Eng. Abdelrahman atef		Abdelrahman atef				A	
QA/QC		Eng. Mazen essayy		Eng. Mohammed Fayad				A	
GARB**		Eng. Mazen essayy		Eng. Mazen essayy				A	
Employers Representative		Eng. Alaa Abd-Allatif		Eng. Alaa Abd-Allatif				A	
Designer		Fte Name: MS-F.L032		c1/02				A	



تمت المراجعة  
المهندس / محمد عبد الله  
17/01/2023

Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 31/01/2023  
report date : 01/02/2023  
Location : Station 388+000 to 388+050  
Test No. : 05

**Nonrepetitive Static Plate Load Tests of Soils**  
**DIN 18134**

Data sheet

**Loading Stage (1)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	20.00	0.00
1	0.42	19.89	0.11	19.68	0.32	19.81	0.19	19.81	0.21
2	0.83	19.75	0.25	19.54	0.46	19.64	0.36	19.64	0.36
3	1.25	19.62	0.38	19.40	0.60	19.48	0.52	19.48	0.50
4	1.67	19.48	0.52	19.24	0.76	19.34	0.66	19.34	0.66
5	2.08	19.35	0.65	19.12	0.88	19.19	0.81	19.19	0.78
6	2.50	19.15	0.85	18.92	1.08	19.00	1.00	19.00	0.98

**Unloading Stage (1)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	19.15	0.85	18.92	1.08	19.00	1.00	19.00	0.98
2	1.25	19.24	0.76	19.01	0.99	19.08	0.92	19.08	0.89
3	0.625	19.42	0.58	19.20	0.80	19.26	0.74	19.26	0.71
4	0.01	19.72	0.28	19.53	0.47	19.59	0.41	19.59	0.39

**Loading Stage (2)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	19.64	0.36	19.41	0.59	19.47	0.53	19.47	0.49
1	0.83	19.52	0.48	19.29	0.71	19.34	0.66	19.34	0.62
2	1.25	19.40	0.60	19.17	0.83	19.21	0.79	19.21	0.74
3	1.67	19.37	0.63	19.07	0.93	19.10	0.90	19.10	0.82
4	2.08	19.27	0.73	18.92	1.08	19.02	0.98	19.02	0.93



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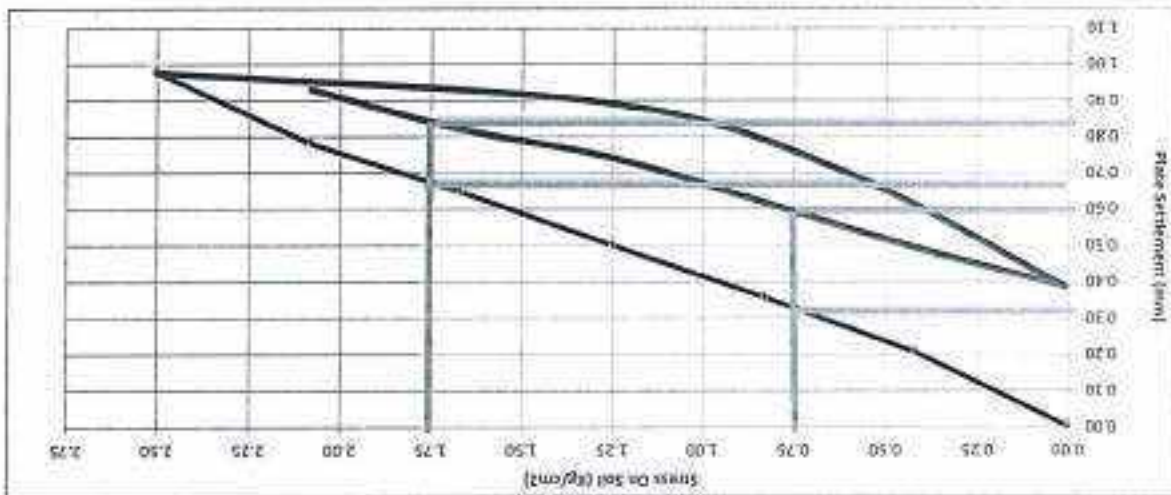
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البريد الإلكتروني : info@cel-egypt.com

Company Name  
Project  
Test Date  
Report date  
Location  
Test No.

: dream Way Co.  
: Electric Express Train, from Borg Al Arab to Alamein.  
: 31/01/2023  
: 01/02/2023  
: Station 388+000 to 388+050  
: 05

**Nonrepertive Static Load Tests of Soils**

DIN 18134



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	0.21	0.36	0.50	0.65	0.78	0.98

D (mm) =	600
S1 (mm) =	0.32
S2 (mm) =	0.66
ΔS =	0.36

$$E_v (\text{kg/cm}^2) = (0.75 \cdot D \cdot \Delta S) / \Delta S$$

1250

Loading (t)	0	1	2	3	4	5
Stage (kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.08
Settlement (mm)	0.39	0.49	0.62	0.74	0.82	0.93

D (mm) =	600
S1 (mm) =	0.60
S2 (mm) =	0.92
ΔS =	0.22

$$E_v (\text{kg/cm}^2) = (0.75 \cdot D \cdot \Delta S) / \Delta S$$

2045

E<sub>v</sub> = Modulus of deformation during the loading stage

E<sub>v</sub> = Modulus of deformation during the Reloading stage

D = Plate diameter (mm)

ΔS = Five difference between 0.5 and 0.7 from the maximum loading (mm)  
DS = Difference in settlement corresponding to 0.3 and 0.7 from the maximum loading (mm)



$$E_v / E_v = 1.5$$

Unloading (t)	1	2	3	4
Stage (kg)	7065	3633	1768	0
Stress (kg/cm²)	2.50	1.25	0.625	0.01
Settlement (mm)	0.98	0.89	0.71	0.39





(Loading)	Stress	Kg/cm <sup>2</sup>	Dial 1	mm	Settlement	Dial 2	mm	Settlement	Dial 3	mm	Settlement	Average
0	0.42	19.50	0.50	19.48	0.52	19.50	0.50	0.51				
1	0.83	19.38	0.62	19.30	0.70	19.36	0.64	0.65				
2	1.25	19.25	0.75	19.13	0.87	19.21	0.79	0.80				
3	1.67	19.13	0.87	19.02	0.98	19.11	0.89	0.91				
4	2.08	19.00	1.00	18.93	1.07	19.00	1.00	1.02				

Loading Stage (2)

Loading	Stress	Dial 1	mm	Dial 2	mm	Dial 3	mm	Average
	Kg/cm <sup>2</sup>		Settlement		Settlement		Settlement	
1	2.50	18.90	1.10	19.02	0.98	18.91	1.09	1.06
2	1.25	19.00	1.00	19.10	0.90	19.03	0.97	0.96
3	0.625	19.28	0.72	19.31	0.69	19.19	0.81	0.74
4	0.01	19.60	0.40	19.60	0.40	19.58	0.42	0.41

Unloading Stage (1)

Loading	Stress Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
		Settlement mm	mm	Settlement mm	mm	Settlement mm	mm	
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.78	0.22	19.84	0.16	19.69	0.31	0.23
2	0.83	19.60	0.40	19.71	0.29	19.50	0.50	0.40
3	1.25	19.38	0.62	19.57	0.43	19.35	0.65	0.57
4	1.67	19.20	0.80	19.40	0.60	19.21	0.79	0.73
5	2.08	19.04	0.96	19.22	0.78	19.04	0.96	0.90
6	2.50	18.90	1.10	19.02	0.98	18.91	1.09	1.06

Loading Stage (1)

Nonrepulsive Static Plate Load Tests of Soils  
DIN 18134

DIN 18134

Data sheet

Company Name	Project	Test Date	report date	Location	Test No.
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dream Way Co.  
Electric Express Train, from Borg Al Arab to Alamein.  
31/01/2023  
01/02/2023  
Station 368+050 to 368+100  
06

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 3.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

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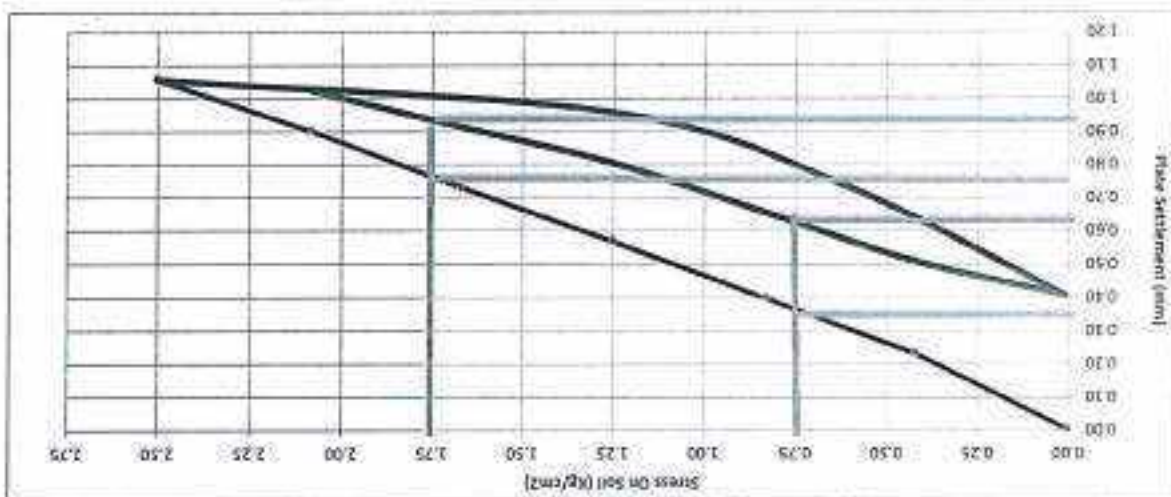
ॐ नमो भगवते वासुदेवाय ।

**CEL**

Company Name  
Project  
Test Date  
Report date  
Location  
Test No.

dream Way Co.  
Electric Express Train, from Borg Al Arab to Alamein.  
31/01/2023  
01/02/2023  
Station 388+050 to 388+100  
06

**Nonrepetitive Static Plate Load Tests of Soils  
DIN 18134**



Loading (t)	Stage(Kg)	Stress (Kg/cm²)	Settlement (mm)
0	1186.92	0.00	0.00
1	2345.6	0.42	0.23
2	3532.5	0.83	0.40
3	4719.4	1.25	0.57
4	5878.1	1.67	0.73
5	7065	2.08	0.90
6	7065	2.50	1.06

$D (mm) = 600$	$S1 (mm) = 0.35$	$S2(mm) = 0.75$	$\Delta S = 0.40$
----------------	------------------	-----------------	-------------------

$$E_{v1} (kg/cm^2) = (0.75 \cdot D^2 \cdot \Delta S) / \Delta S$$

Loading (t)	Stage(Kg)	Stress (Kg/cm²)	Settlement (mm)
0	1186.92	0.00	0.00
1	2345.6	0.42	0.01
2	3532.5	0.83	0.01
3	4719.4	1.25	0.42
4	5878.1	1.67	0.51
5	7065	2.08	0.65
6	7065	2.50	0.80

$D (mm) = 600$	$S1 (mm) = 0.62$	$S2(mm) = 0.92$	$\Delta S = 0.30$
----------------	------------------	-----------------	-------------------

$$E_{v2} (kg/cm^2) = (0.75 \cdot D^2 \cdot \Delta S) / \Delta S$$

E<sub>v1</sub> = Modulus of deformation during the loading stage.  
E<sub>v2</sub> = Modulus of deformation during the reloading stage.  
D = plate diameter (mm)  
ΔS = Difference between S<sub>1</sub> and S<sub>2</sub> from the maximum loading (mm)  
S<sub>1</sub> = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)



$$E_{v2}/E_{v1} = 1.3$$

Unloading (t)	Stage(Kg)	Stress (Kg/cm²)	Settlement (mm)
1	7065	2.50	1.06
2	3533	1.25	0.96
3	1768	0.625	0.74
4	0	0.01	0.41



Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein,  
Test Date : 31/01/2023  
report date : 01/02/2023  
Location : Station 388+100 to 388+150  
Test No. : 07

**Nonrepetitive Static Plate Load Tests of Soils**  
**DIN 18134**

Data sheet

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	20.00	0.00	20.00	0.00	20.00	0.00	20.00	0.00
1	0.42	19.88	0.12	19.82	0.18	19.79	0.21	19.79	0.17
2	0.83	19.75	0.25	19.70	0.30	19.65	0.35	19.65	0.30
3	1.25	19.64	0.36	19.69	0.31	19.53	0.47	19.53	0.38
4	1.67	19.51	0.49	19.58	0.42	19.40	0.60	19.40	0.50
5	2.08	19.40	0.60	19.44	0.56	19.29	0.71	19.29	0.62
6	2.50	19.28	0.72	19.25	0.75	19.10	0.90	19.10	0.79

**Unloading Stage (1)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	19.28	0.72	19.25	0.75	19.10	0.90	19.10	0.79
2	1.25	19.35	0.65	19.36	0.64	19.16	0.84	19.16	0.71
3	0.625	19.50	0.50	19.47	0.53	19.33	0.67	19.33	0.57
4	0.01	19.80	0.20	19.70	0.30	19.65	0.35	19.65	0.28

**Loading Stage (2)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	19.74	0.26	19.61	0.39	19.60	0.40	19.60	0.35
1	0.83	19.61	0.39	19.49	0.51	19.51	0.49	19.51	0.46
2	1.25	19.50	0.50	19.38	0.62	19.43	0.57	19.43	0.56
3	1.67	19.39	0.61	19.25	0.75	19.30	0.70	19.30	0.69
4	2.08	19.28	0.72	19.14	0.86	19.19	0.81	19.19	0.80



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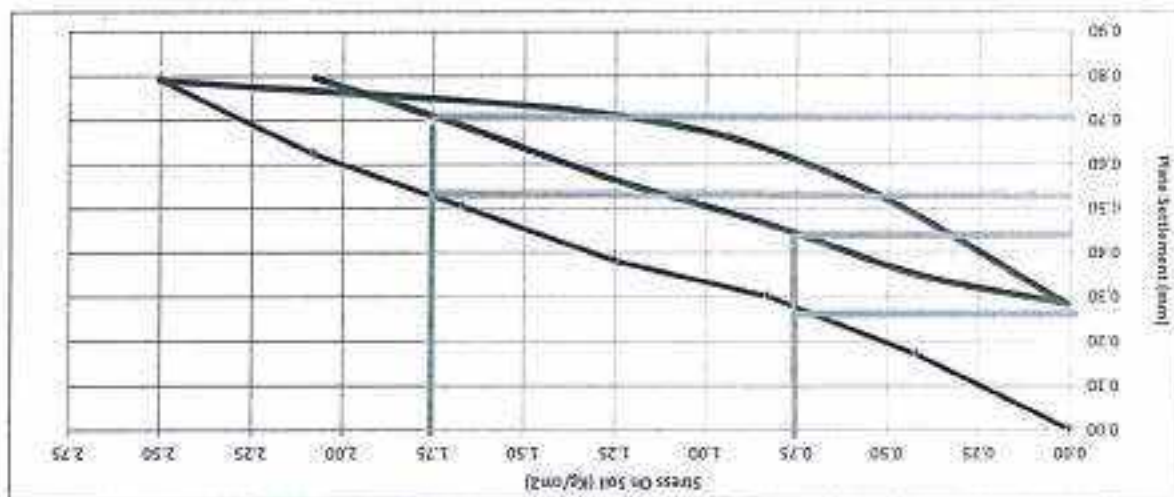
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Company Name  
Project  
Test Date  
Report date  
Location  
Test No.

: dream Way Co.  
: Electric Express Train, from Borg Al Arab to Alamein.  
: 31/01/2023  
: 01/02/2023  
: Station 388+100 to 388+150  
: 07

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388+100 to 388+150  
07

**Nonrepelitive Static Load Tests of Soils  
DIN 18134**



Loading (t)	Stage(Kg)	Stress (kg/cm²)	Settlement (mm)
0	0	1186.92	0.00
1	1186.92	2345.6	0.17
2	2345.6	3532.5	0.30
3	3532.5	4719.4	0.38
4	4719.4	5878.1	0.50
5	5878.1	7065	0.62
6	7065	8252	0.79

Loading (t)	Stage(Kg)	Stress (kg/cm²)	Settlement (mm)
0	0	1186.92	0.01
1	1186.92	2345.6	0.28
2	2345.6	3532.5	0.42
3	3532.5	4719.4	0.83
4	4719.4	5878.1	1.25
5	5878.1	7065	1.67
6	7065	8252	2.08

Unloading (t)	Stage(Kg)	Stress (kg/cm²)	Settlement (mm)
1	7065	3533	0.79
2	3533	1768	0.71
3	1768	884	0.625
4	884	442	0.57
5	442	221	0.28

E<sub>v2</sub>/E<sub>v1</sub> = 1.0



E<sub>v1</sub> = modulus of deformation during the loading stage.  
E<sub>v2</sub> = modulus of deformation during the reloading stage.  
D = Plate diameter (mm)  
D<sub>0</sub> = The difference between d<sub>1</sub> and d<sub>2</sub> from the maximum loading (mm)  
D<sub>0</sub> = Difference in settlements corresponding to d<sub>1</sub> and d<sub>2</sub> from the maximum loading (mm)

D (mm) = 600	S <sub>1</sub> (mm) = 0.44	S <sub>2</sub> (mm) = 0.70	ΔS = 0.26
E <sub>v2</sub> (kg/cm²) = (0.75·D·Δs)/ΔS	1731		

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Company Name : dream Way Co.  
Project : Electric Express Train, from Borg Al Arab to Alamein.  
Test Date : 31/01/2023  
Report date : 01/02/2023  
Location : Station 388+150 to 388+200  
Test No. : 08

**Nonrepetitive Static Plate Load Tests of Soils**  
**DIN 18134**

Data sheet

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.00	0.00	20.00	0.00	20.00	0.00	20.00	0.00	0.00
1	0.42	19.84	19.76	0.16	19.76	0.22	19.80	0.20	0.19
2	0.83	19.70	19.63	0.30	19.63	0.37	19.66	0.34	0.34
3	1.25	19.63	19.52	0.37	19.52	0.48	19.56	0.44	0.43
4	1.67	19.51	19.40	0.49	19.40	0.60	19.45	0.55	0.55
5	2.08	19.40	19.31	0.60	19.31	0.69	19.34	0.66	0.66
6	2.50	19.28	19.12	0.72	19.12	0.88	19.15	0.85	0.82

**Unloading Stage (1)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
1	2.50	19.28	0.72	19.12	0.88	19.15	0.85	0.82	0.82
2	1.25	19.32	0.68	19.18	0.82	19.20	0.80	0.77	0.77
3	0.625	19.44	0.56	19.29	0.71	19.38	0.62	0.63	0.63
4	0.01	19.75	0.25	19.60	0.40	19.71	0.29	0.31	0.31

**Loading Stage (2)**

Loading	Stress	Kg/cm <sup>2</sup>	Dial 1		Dial 2		Dial 3		Average
			Settlement	mm	Settlement	mm	Settlement	mm	
0	0.42	19.70	0.30	19.49	0.51	19.60	0.40	0.40	0.40
1	0.83	19.52	0.48	19.37	0.63	19.49	0.51	0.54	0.54
2	1.25	19.40	0.60	19.28	0.72	19.37	0.63	0.65	0.65
3	1.67	19.28	0.72	19.19	0.81	19.28	0.72	0.75	0.75
4	2.08	19.19	0.81	19.08	0.92	19.17	0.83	0.85	0.85



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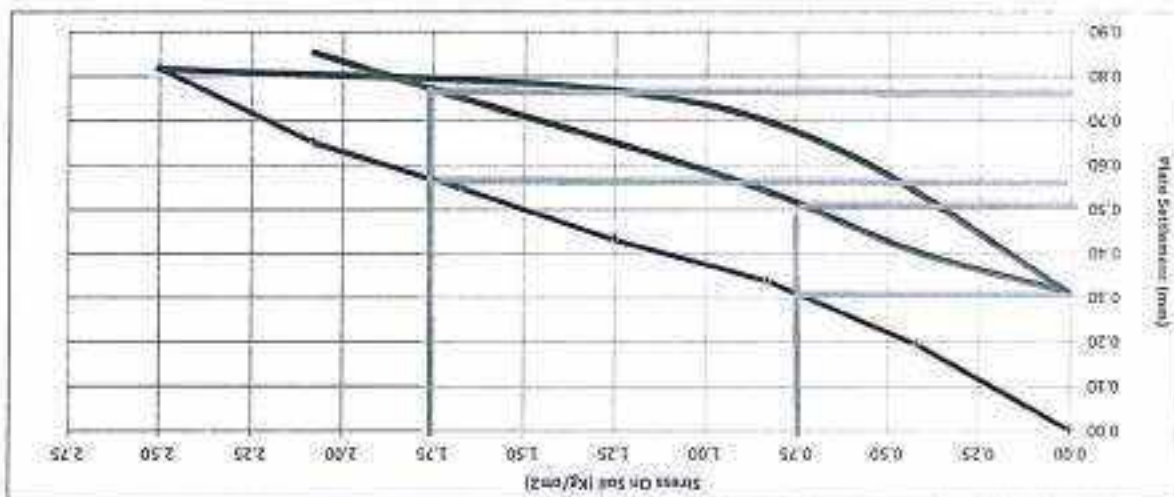
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Project  
Test Date  
Report date  
Location  
Test No.

: dream Way Co.  
: Electric Express Train, from Borg Al Arab to Alamein.  
: 31/01/2023  
: 01/02/2023  
: Station 388+150 to 388+200  
: 08

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**Nonrepetitive Static Load Tests of Soils  
DIN 18134**



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	0.19	0.34	0.43	0.55	0.65	0.82

Loading (t)	0	1	2	3	4	5
Stage (Kg)	0	1186.92	2345.6	3532.5	4719.4	5878.1
Stress (kg/cm²)	0.01	0.42	0.83	1.25	1.67	2.09
Settlement (mm)	0.31	0.40	0.54	0.65	0.75	0.85

EV2/EV1 = 1.0

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)	0.82	0.77	0.63	0.31

EV1 = modulus of deformation during the loading stage.  
EV2 = modulus of deformation during the reloading stage.  
D = Plate diameter (mm)  
Ds = The difference between 0.3 and 0.7 from the maximum loading (mm)  
OS = Difference in settlements corresponding to 0.3 and 0.7 from the maximum loading (mm)









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MATERIAL APPROVAL REQUEST		DREAM WAY		الهيئة العامة للطرق والكباري (GARB)		الهيئة العامة للطرق والكباري		الهيئة العامة للطرق والكباري		الهيئة العامة للطرق والكباري		
Contractor Company	Dream way	<div style="border: 2px solid blue; padding: 5px; transform: rotate(-5deg);"> <b>مادة وافق لمشاريع العامة</b>  <b>مادة وافق لمشاريع العامة</b>  <b>مادة وافق لمشاريع العامة</b> </div>				Designer Company		(SPECTRM) Engineering Consulting Office				
Issued by Contractor	Name	Eng.Saeed Mohamed	Sign					Date/Serial Number		Time		
	16/10/2022		(S5-B-DW) (Q.T-12-02)		1:00							
Received by GARB CONSULTANT	Eng. Mazen Esamy			MAR	CL	CE	CS	CD	MM	YY	HH	MM
		388	EW	CS	17	10	2022	1	0			
S1 to S21		D1 to S3		Kp XXX Note								
Station Reference		Depot Reference		For Kilometer point only Start Km is used								
Work Activity		Sub Element of Activity										
Description of Materials		Embankment										
Location to be Used		المشور										
Sample only	yes	Materials Type		Replacement								
Supplier Name	EL-SEEWEY	Data Sheet provided										
Reference in BoQ		Specification		EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP								
Prequalification reference		Test Samples Results										
Reference Photos	No	Other										
Comments by: Eng. Mazen Esamy (SPECTRM) 1-Quality test Result By Site laboratory IS THIS SAMPLE REPRESENTATIVE (5000) M <sup>3</sup> ONLY 		Comments by: Eng. Alaa Abd-Allatif (ER) 1-All tests were carried-out by Site laboratory 2-Results report attached and acceptable with the project specifications.										
<b>APPROVAL STATUS</b>												
Organisation	Name	Sign	Date	A-AWC-R								
Contractor	Eng.Saeed Mohamed		17/10/2022	A								
QA/QC *	Eng. Mazen Esamy			A								
GARB**	Eng. Margret											
Employers Representative	Eng. Alaa Abd-Allatif			A								

\* Designer  
\*\* Alignment/Bridges: Culvert only



Electrical Express Train From Borg Al Arab to  
Alamein  
From Station 388+000 To Station 389+000



Serial No.  
QT  
( 1-2 )



مكتب أ/د. صلاح خليل



Date  
17/ 10 /2022

### Material Inspection Request

We request your attendance to inspect the following works :

Discipline :

☐ Civil/Slope Protection

☐ Structure

☐ Drainage

☐ Survey

Location :

Zone

DREAM WAY

VOLUME

5000 M3

References

Drawing: EET-BORG EL ARAB REV20 Plan Profile

Specification: EET LL.1 Earthworks Specifications and Testing Report

Purpose of the inspection

1. Earthworks

☐ Natural Sub Grade

☐ Sub Filling

☐ Upper Embankment

☐ Subcut

☒ L / M Embankment

☐ Excavation

Attachments

1- Quality test report soil Material

Materials to be Inspected

Quality Test For Soil by site laboratory



Submitted by:

DREAM WAY

Signature:

*[Signature]*

Date of Inspection:-

1 / 1

GARP Consultant Engineer's Comments :

The quality test result by site laboratory is ok  
This sample representative 5000m<sup>3</sup> only.  
The contractor must send another sample to third party laboratory.

The works are :

☒ Approved (A)

☐ Approved as Noted (R)

☐ Revised Approval (C)

☐ Rejected (R)

Name:

Mazen Esawy

Signature:

*[Signature]*

Date:-

1 / 1

General Consultant's Comments:

for information only  
one sample was selected for Quality Test and carried out by Contractor and GARP Consultants. Results attached found is ok.  
final approval is subjected to above mentioned comment.

The works are :

☒ Approved (A)

☐ Approved as Noted (R)

☐ Revised Approval (C)

☐ Rejected (R)

Name:

Alan Abdellatif

Signature:

*[Signature]*

Date:-

21 / 10 /

GARP Engineer's Comments:

Name:

General Consultant Eng.

Signature:

GARP Eng.





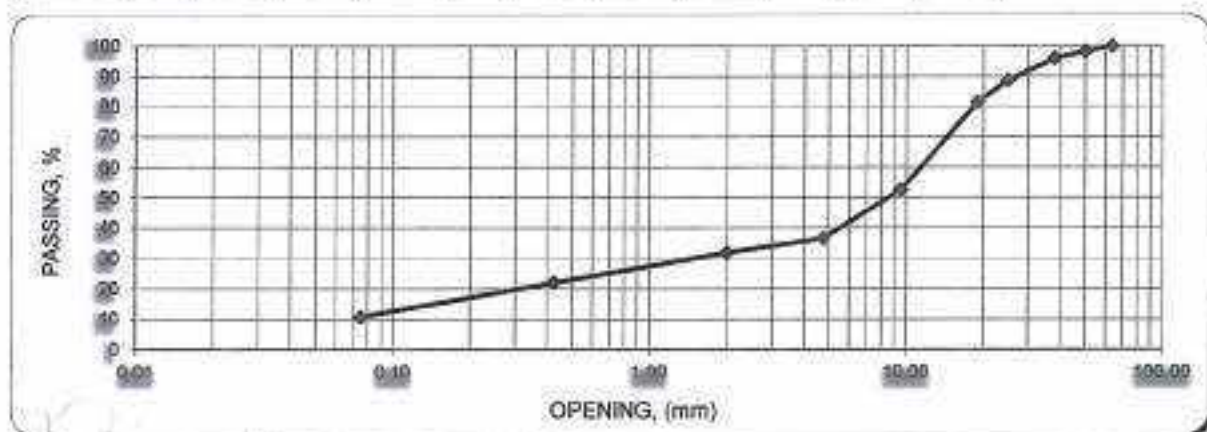
## Electrical Express Train From Borg Al arab to Alamein

Company:	Dream Way	Sample No:	1
description:		Sample Date :	17/10/2022
Station Represented :	توريدات المحجر	Report Date:	17/10/2022

### SOIL CLASSIFICATION / ATTERBERGS LIMITS

(ASTM:D-424 / AASHTO :T-90-80)

Source of Tested Material										
sieve No.	2.5 in.	2.0 in.	1.5 in.	1.0 in.	3/4 in.	3/8 in.	No.4	No.10	No.40	No.200
Opening (mm)	63.50	50.00	38.00	25.00	19.00	9.50	4.75	2.00	0.425	0.075
Passing, %	100.0	98.2	95.9	88.7	81.5	52.7	36.6	31.9	22.0	10.8



Atterberg Limits	L.L.	0.0	Max. 15	P.L.	0	P.L.	0.0	(Max. 6)
------------------	------	-----	---------	------	---	------	-----	----------

SOIL CLASSIFICATION :	A-1-A	عديمه اللونه
-----------------------	-------	--------------

GARP Consultant Engineer's Comments :

Lab Contractor Eng.:-

*[Signature]*

Spectrum Consultant Eng.:-

*[Signature]*



## Electrical Express Train From BORG ALARP City to EL ALAMEIN

### Laboratory Compaction Characteristics (Proctor) of Soil Sample

ASTM D 1557 - Method "C" 6 in. mold, 5 equal layers, each compacted by 56 blows  
Using 10 lbf. rammer dropped from 18 in. high, Producing a compactive effort of 56000 ft-lbf/ft<sup>3</sup>

Sampling Date : 16-10-2022

Testing Date :

16/10/2022

Source of Soil

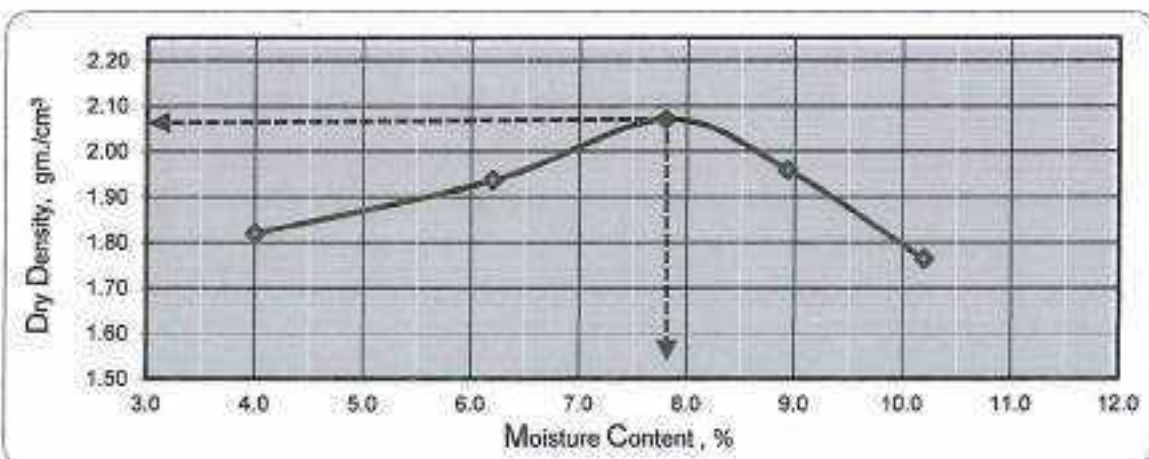
توريدات المحجر

Classification, according to AASHTO M145

A-1-a

Weight of PROCTOR Mould, gm	6365	Volume of PROCTOR Mould, cm <sup>3</sup>	2225
-----------------------------	------	--	------

Point No.	1	2	3	4	5
Weight of Soil + Mould, gm	10,576	10,941	11,332	11,113	10,589
Wet Density, gm/cm <sup>3</sup>	1.893	2.057	2.232	2.134	1.945
Weight of Wet Soil Portion, gm	150.0	150.0	150.0	150.0	150.0
Weight after Drying, gm	144.0	140.7	138.3	136.6	134.7
Moisture Content, %	4.0	6.2	7.8	8.9	10.2
Dry Density, gm/cm <sup>3</sup>	1.820	1.937	2.071	1.959	1.763



Max. Dry Density =

2.071 gm/cm<sup>3</sup>

Optimum Moisture Content = 7.8%

CONSULTANT COMMENTS

A.C Lab. contractor Eng.:-

Name :-

Signature :-

spectrum Q.C Consultant Eng.:-

Name :-

Signature :-



Electrical Express Train from BORG ALARP city to EL ALAMIN

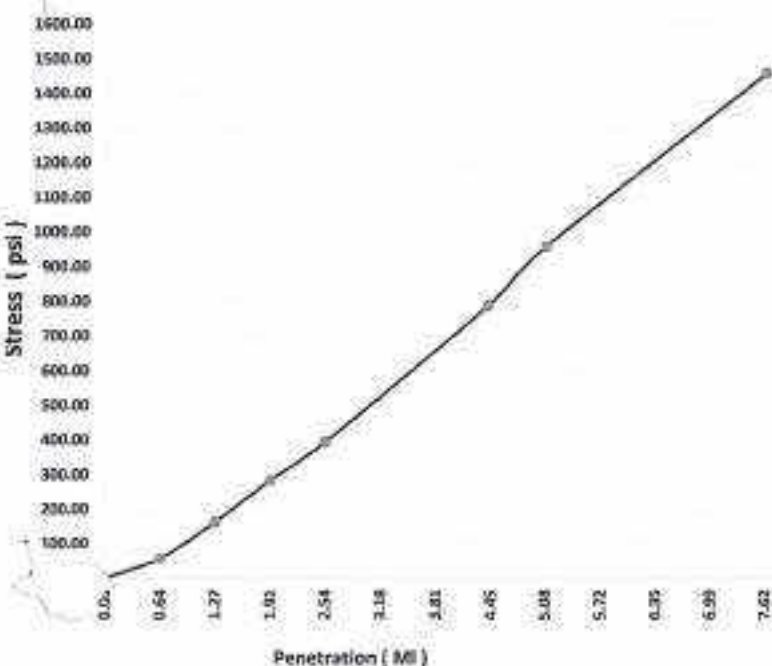
**CBR (CALIFORNIA BEARING RATIO) of LABORATORY-COMPACTED SOILS**  
Ref. : ASTM D 1883 & D 1557 — AASHTO T-193 (Method D) & AASHTO T-193

SAMPLING DATE : 17/8/2022 TEST DATE : 20/10/2022 STATION : دريم واي

DENSITY DETERMINATION		MOISTURE CONTENT		Swell	
Proctor Density	2.071	Moisture Content %	7.8	Swell Percent %	0.7

**Results of ( 65 ) Blows after Soaking for 4 days**

PENETRATION vs. UNIT Load (STRESS ) CURVE (65 blows)



Penetration (in.)	Penetration (mm)	Reading (0.01 in.)	Stress (psi)
0.000	0.000	0	0.00
0.025	0.640	25	57.46
0.050	1.270	50	162.77
0.075	1.910	75	283.28
0.100	2.540	100	394.38
0.125	4.400	125	786.55
0.200	5.080	150	958.08
0.300	7.620	175	1458.08

CBR , % at 0.1 in. Penetration	29.00	CBR , % at 0.2 in. Penetration	47.00
Corrected CBR , % at 0.1 in. Penetration		Corrected CBR , % at 0.2 in. Penetration	

Lab contractor Eng. :-

Name :-

Signature :-






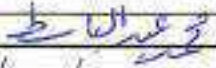


SGAC Q.C Consultant Eng. :-

Name :-

Signature :-

MATERIAL APPROVAL REQUEST		DREAM WAY		الهيئة العامة للطرق والكباري (GARB)		الهيئة العامة للطرق والكباري (GARB)		الهيئة العامة للطرق والكباري (GARB)		الهيئة العامة للطرق والكباري (GARB)			
Contractor Company	Dream way			Designer Company	(SPECTRUM) Engineering Consulting Office								
Issued by Contractor	Name	Eng. Saeed Mohamed			Date/Serial Number	16/11/2022 (S5-B-DW) (Q.T-15-01)							
	Sign				Time	1:00							
Received by GARB CONSULTANT	Eng. Mazen Esamy				MAR	388	EW	CS	17	11	2022	1	0
BOOK-1	S1 to S21			D1 to D3			Rp XXX Note						
BOOK-2	Station Reference			Depot Reference			For Kilometer point only Start Km is used						
BOOK-3	Work Activity												
Sub Element of Activity													
Description of Materials	Embankment												
Location to be Used	المشون												
Sample only	yes			Materials Type	Replacement								
Supplier Name	EL-SEEWY			Data Sheet provided									
Reference in BoQ				Specification	EARTHWORK SPECIFICATIONS & TESTING REPORT (CG21-41.2) VERSION 2 BY CIVECON GROUP								
Prequalification reference				Test Samples Results									
Reference Photos	No			Other									
Comments by: Eng. Mazen Esamy (SPECTRUM)				Comments by: Eng. Alaa Abd-Allatif (ER)									
1-Quality test Result By THIRD PARTY LABORATORY IS				1-All tests were carried-out by Third party Laboratory (COMIBASSAL)									
THIS SAMPLE REPRESENTATIVE (5000) M <sup>3</sup> ONLY				2-Results report attached and acceptable with the project specifications.									
APPROVAL STATUS													
Organisation	Name	Sign	Date	A-AWC-R									
Contractor	Eng. Saeed Mohamed		17/11/2022	A									
QA/QC *	Eng. Mazen Esamy			P									
GARB**	Eng. Margret												
Employers Representative	Eng. Alaa Abd-Allatif			A									
* Designer													
** Alignment/Bridges/Covert only													



Contractor		<b>Electrical Express Train From Borg Alarab to Alamein</b> From Station 388+000 To Station 389+000	الهيئة العامة للإقنات 	Serial No. <b>QT (7-2)</b>
		مكتب اءء / حءاء ثءءء		Date <b>17/11/2022</b>
	<b>Material Inspection Request</b>			
	We request your attendance to inspect the following works :			
Discipline : <input type="checkbox"/> Civil/Scope Protection <input type="checkbox"/> Structure <input type="checkbox"/> Drainage <input type="checkbox"/> Survey				
Location :		Zone <b>DREAM WAY</b>	Volume <b>20000 m3</b>	
References		Drawing: EET-BORG EL ARAB REV29 Plan Profile		Specification: EET L1.1.Earthworks Specifications and Testing Report
Purpose of the inspection 1- Earthworks: <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Natural Sub Grade  <input type="checkbox"/> Upper Embankment  <input checked="" type="checkbox"/> L / H Embankment         </div> <div> <input type="checkbox"/> Sub Base  <input type="checkbox"/> Ballast  <input type="checkbox"/> Excavation         </div> </div>				
Attachments 1-quality test report soil material				
				
Materials to be Inspected <b>Quality Test For Soil by comibassal</b>				
Submitted by:		<b>DREAM WAY</b>	Signature: 	
GARP Consultant Engineer's Comments:		Date of Inspection: -		
The Quality Test Results by Third Party Lab Comibassal is ok. This sample Represents 5000 m <sup>3</sup> only.				
The works are : <input type="checkbox"/> Approved (A) <input type="checkbox"/> Approved as Noted (B) <input type="checkbox"/> Revised (Resubmit) <input type="checkbox"/> Rejected (R)				
Name: <b>Maren Emery</b>		Signature: 		
General Consultant's Comments:		Date: -		
1- one sample was selected for Quality Test. 2- Quality Test was carried out by Third Party Comibassal. 3- Results attached found acceptable and completely with project. 4- final approval is subjected to above mentioned comment.				
The works are :		<input type="checkbox"/> Approved (A) <input type="checkbox"/> Approved as Noted (B) <input type="checkbox"/> Revised (Resubmit) <input type="checkbox"/> Rejected (R)		
Name: <b>Alaa Abdelkhalaf</b>		Signature: 		
GARP Engineer's Comments:		Date: <b>27/11</b>		
Name:		Signature:		
General Consultant Eng.		GARP Eng.		

Consultants





# COMIBASSAL International Controllers

الجمعية العامة للتحكم في الجودة الدولية والبيئة (COMIBASSAL)

ISO 9001:2015 حاصلة على شهادة الأيزو

Accredited by:

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

قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للبترول  
تحت رقم ٢٩/١١-٢٠١١

## PARTICLE SIZE DISTRIBUTION ANALYSIS

ASTM C136 & AASHTO T27- (Drying Samples)

PROJECT:

Electric Express Train

DATE: 17/11/2022

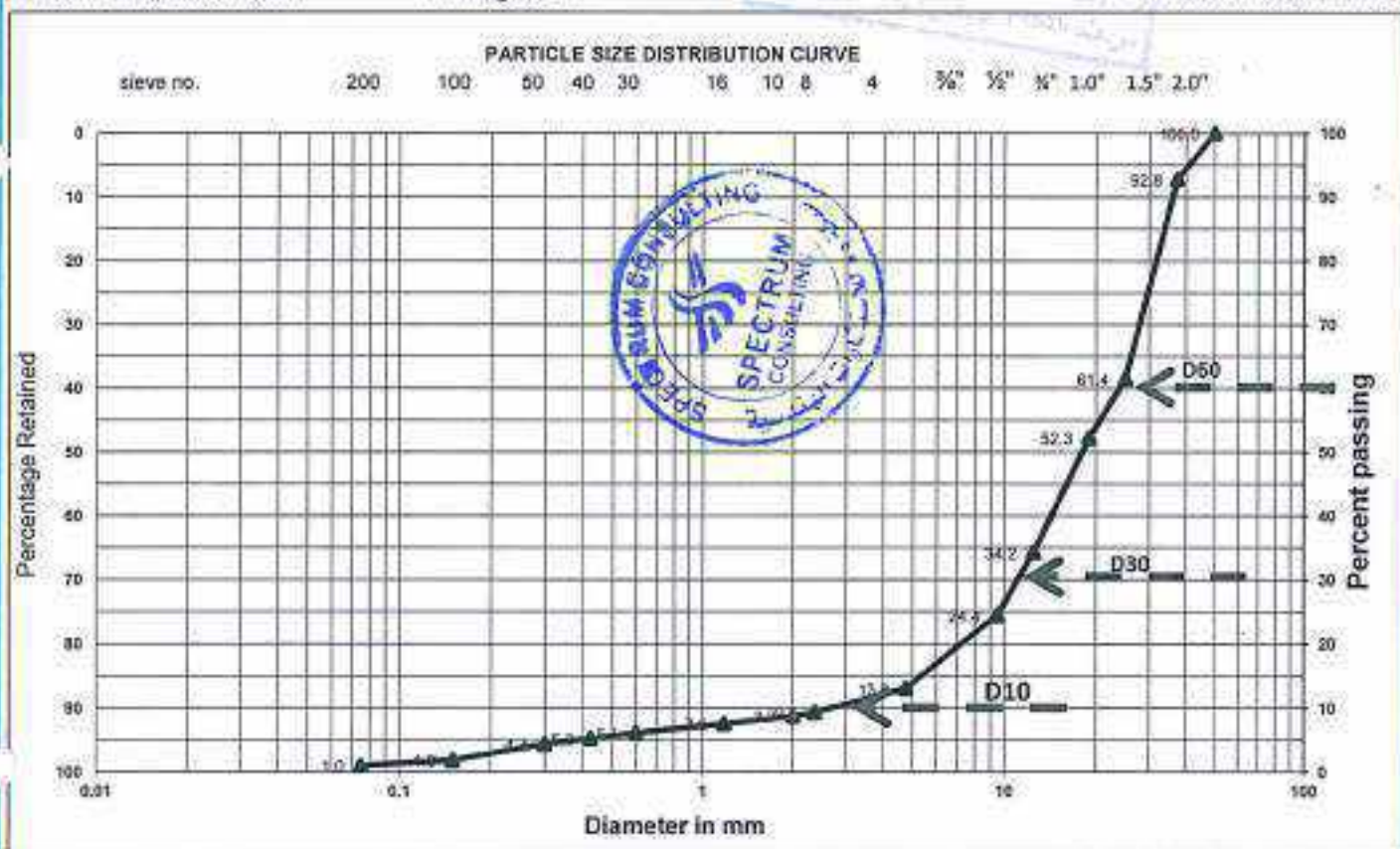
General Consultant :- SYSTRA

Consultant :- SPECTRUM

CONTRACTOR: شركة دريم واي

Material / Source of Soil :- Filling Soil.

LAB. REF. Q.C. 1728/1



CLAY and SILT (Fines)		SAND			GRAVEL	COBBLES
1.0		12.0			87.0	
SAMPLE No.	DEPTH (m)	MOISTURE (%)	LL (%)	PI (%)	CLASS	SOIL DESCRIPTION
Filling Soil.			26.0	1.8	A-1-a (0)	Well graded Gravel (GW)
D10= 2.80	D30= 12.0 D60= 23.0	Cu = D60/D10= 8.21 Cc = (D30)^2/(D10*D60)= 2.24				
Remarks: Soil Classification:	AASHTO (T87) SOIL CALSSIFICATION SYSTEM - A-1-a (0) Stone Fragments, Gravel and Sand. ASTM (D421) SOIL CALSSIFICATION SYSTEM - Well graded Gravel (GW)					

Tested By : Mostfa

Checked By : Eng. Eman E. Kandil

*Eman*







# COMIBASSAL International Controllers

الجمعية التعاونية للاعمال الدولية والمراجعة والخبرة الدولية (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2008  
Accredited by:  
Egyptian General Authority for Petroleum  
Under No.: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

معتمد لدى الهيئة المصرية العامة للبترول  
تحت رقم ٢٤ / ٢٩ / ١١ / ٢٠١١

Report : 1728/2/Center  
Date : 27/11/2022

## Report Of Liquid limit and Plastic Limit Test ASTM- D 4318

General Consultant :

Consultant :

Contractor :

Project :

Sample :

Date of Test :

SYSTRA

SPECTRUM

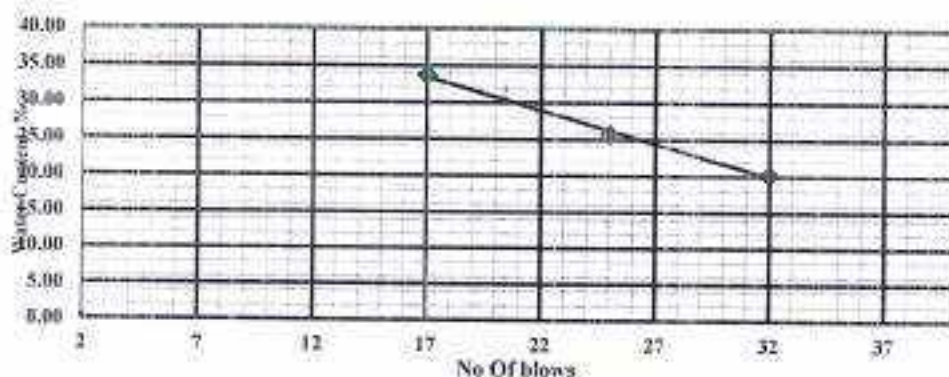
شركة اريم واى

Electric express train

Filling Soil

17/11/2022

### Results



No. of blows	32	25	17
Wt. before drying	44.7	45.9	44
Wt. after drying	37.2	36.5	32.9
Water Content %	20.2	25.8	33.7
(A) . L.L at blow no.25 =	26.0%		

Wt. before drying	5.7	5.3	5.9
Wt. after drying	4.6	4.3	4.7
Water Content %	23.9	23.3	25.5
(B) . P.L =	24.2%		

PI = (A-B) =	1.8%
--------------	------



Civil. Eng Department

Eng. Eman. E. Kandil

الإدارة: ١٥٧ ش. صفية زغلول - الاسكندرية - مصر

ت: ٤٨٧٠٥٧٢ - ف: ٤٨٧٩٧٩٨ - ٤٨٧٠٦٦٥

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



القطاع: ٤٩ طريق الحرية - الاسكندرية - مصر

ت: ٣٩٢٠١٧٩ - ٣٩٢١٤٨٢ - ف: ٣٩٠٠٤٧٦

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



## COMIBASSAL International Controllers

الجمعية التعاونية لأعمال التوثيق والمراجعة الدولية (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2008

Accredited by:

Egyptian General Authority for Petroleum  
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

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

Report No. : 1728 - 3 - center

Date : 27/11/2022

### Proctor Test Report

#### ASTM - D 698

General consultant :

Consultant :

Contractor :

Project :

Sample :

Date of Test :

SYSTRA

SPECTRUM

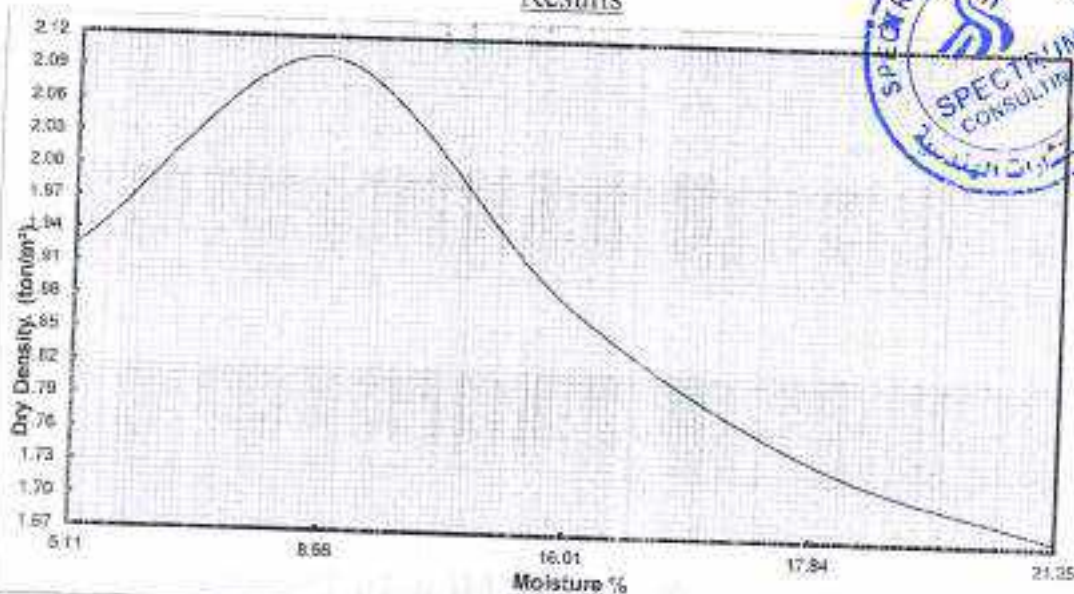
شركة دريم واى

Electric express train

Filling Soil

17/11/2022

#### Results



moisture content (%)	5.11	8.56	16.01	17.84	21.35
Dry Density (ton/m³)	1.92	2.10	1.88	1.74	1.67
Max. Dry Density (ton/m³)	2.10				
optimum moisture cont. (%)	8.56				

Civil. Eng Department

Eng : Eman. E. Kandil

الإدارة: ٤٠ ش صفيية زغلول - الإسكندرية ص ب ١٥٧

ت ٤٨٧٠٥٧٢ - ف ٤٨٦٩٧٩٨ - ٤٨٧٠٦٦٥

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

Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع خلف ٤٩ طريق الحرية - الإسكندرية - مصر

ت ٣٩٢٠١٧٦ - ٣٩٣١٤٨٢ - ف ٣٩٠٠٤٧٦

49 EL Horria Ave - Alex, Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail : internal - inspection@comibassal.com





## COMIBASSAL International Controllers

الجمعية التعاونية لأعمال الوزن والمراجعة والخبرة الدولية (كوميباسال)

حاصلة على شهادة الأيزو ISO 9001:2008

Accredited by:

Egyptian General Authority for Petroleum  
Under No: 34/29.11.2011

قطاع التفتيش الداخلي والمعامل

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

Report no : 1728 / 4 / center  
Date : 27 / 11 / 2022

### Report Of C.B.R TEST ASTM - D 1883

General Consultant :

Consultant :

Contractor :

Project :

Sample :

Date of Test :

SYSTRA

SPECTRUM

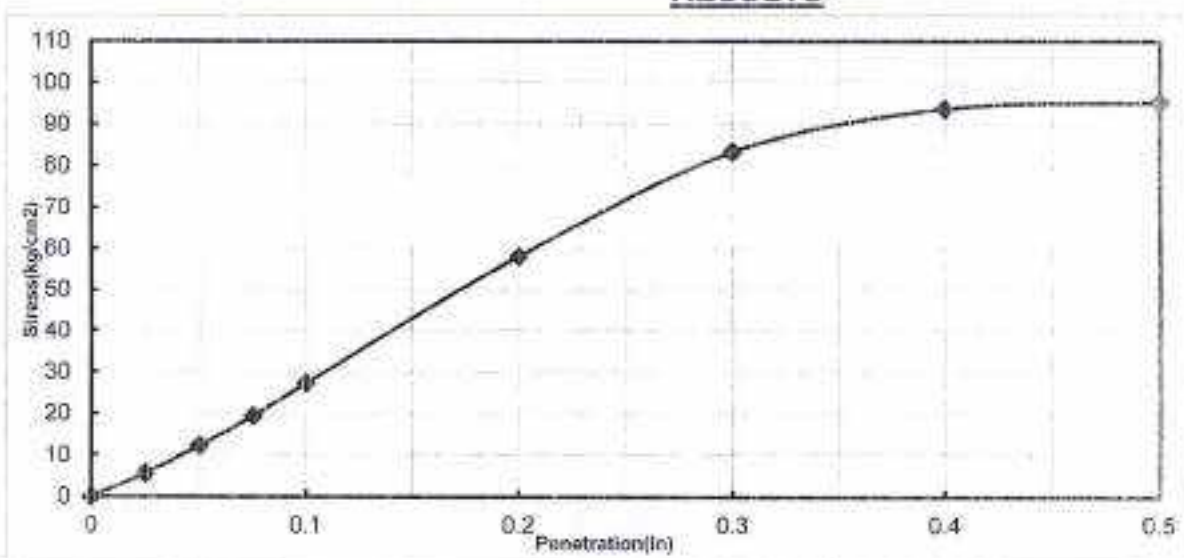
شركة سيم واي

Electric express train

Filling Soil

21/11/2022

### RESULTS



Penetration (Inch)	0	0.025	0.05	0.075	0.1	0.2	0.3	0.4
stress ( 1 st phase) (kg/cm²)	0	6.032	14.82	21.84	26.52	62	78.28	91.25
stress ( 2nd phase) (kg/cm²)	0	5.2	9.82	16.94	28.08	64.22	88.4	96.2
Average stress ( kg/cm² )	0	5.616	12.22	19.3862	27.3	58.11	83.33	93.73

C.B.R = 55.0 %



Civil Eng. Department.

*Eman*  
Eng : Eman E. Kandil

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

ت. ٤٨٧-٥٧٢ - ف. ٤٨٦٩٧٩٨ - ٤٨٧-٦٦٥

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Tel:4870573 - Fax + Tel : 4869798 - 4870665



القطاع: خلف ٩٩ طريق الحرية - الإسكندرية - مصر

ت. ٣٩٢٠١٧٦ - ٣٩٢١٤٨٢ - ف. ٣٩٠٠١٧٦

49 EL Horria Ave. - Alex; Egypt

Tel: 3920176 - 3931482 - Fax: 3900476

E-mail : internal - inspection@comibassal.com

Contractor Company  
**Dream way**

Issued by  
Contractor  
**Eng. Saeed Mohamed**

Received by GARB  
CONSULTANT  
**Eng. Mazen Esamy**

Design/Serial Number  
**18/11/2022**  
(S5-B-DW) (Q.T-16-01)

Date  
**11/11/2022**

Time  
**1:00**

Station Reference  
**52 to 523**

Sub Element of Activity  
**Work Activity**

For Kilometer point only Start Km is used  
**0**

Description of Materials  
**Embankment**

Location to be Used  
**الطريق**

Sample only  
**yes**

Materials Type  
**Replacement**

Supplier Name  
**EL-SEEWY**

Reference in BoQ

Prequalification reference

Test Samples Results

Other

Reference Photos

Comments by: Eng. Mazen Esamy (SPECTRUM)

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

1-All tests were carried-out by Third party Laboratory (COMIBASSAL)


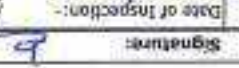
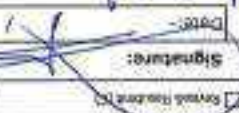

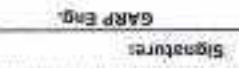
1-Quality test Result by THIRD PARTY LABORATORY/5

THIS SAMPLE REPRESENTATIVE (5000) M<sup>3</sup> ONLY

2-Results report attached and acceptable with the project specifications.

APPROVAL STATUS



<b>Serial No.</b> QT (8-2)	<div style="display: flex; justify-content: space-between;"> <div>  <p>From Station 388+000 To Station 389+000 Alameda Electrical Express Train from Borg Alarab to</p> </div> <div> <p>19/11/2022</p> </div> </div>
<b>Material Inspection Request</b>	
We request your attendance to inspect the following works :	
<b>Discipline :</b> <input type="checkbox"/> Slope Protection <input type="checkbox"/> Sewage <input type="checkbox"/> Outcrop <input type="checkbox"/> Survey	<b>Location :</b> DREAM WAY <b>Zone :</b> 25000 m3 Specification: EET LT.1 Earthworks Specifications and Testing Report
<b>References</b> Drawing: EET-BORG EL ARAB REV29 Plan Profile Purpose of the inspection 1. Earthworks <input type="checkbox"/> Natural Slo Grade <input type="checkbox"/> Upper Embankment <input checked="" type="checkbox"/> 1.1.1.1 Embankment <input type="checkbox"/> Sub Grade <input type="checkbox"/> Subsoil <input type="checkbox"/> Gravel	
<b>Attachments</b> 1-quality test report soil material 5- Quality Test For Soil by combassal	
Submitted by: DREAM WAY Signature: 	
GARP Consultant Engineer's Comments: The Quality Test Results is ok and was by third party lab (combassal). This sample Representative for only 5000m3.	
GARP Consultant's Comments: Name: <u>Narim Elmy</u> Signature:  Date: <u>22/11</u> The works are : <input type="checkbox"/> Approved (A) <input type="checkbox"/> Approved as Amend (B) <input type="checkbox"/> Rejected (C) <input type="checkbox"/> Rejected (D)	
GARP Engineer's Comments: Name: <u>Mr. Hossainy</u> Signature:  Date: <u>22/11</u> The works are : <input type="checkbox"/> Approved (A) <input type="checkbox"/> Approved as Amend (B) <input type="checkbox"/> Rejected (C) <input type="checkbox"/> Rejected (D)	
General Consultant Eng. Signature: 	

Contractor

Consultants

(4) final approval is subjected to above mentioned comment.  
 (3) Result attached found acceptable and comply with project.  
 (2) Quality Test was carried out by third party lab combassal.  
 (1) One sample was selected for Quality Test.





# COMIBASSAL International Controllers

ISO 9001:2015  
حاصلة على شهادة الأيزو 9001:2015  
Accredited by:  
Egyptian General Authority for Petroleum  
Under No. 34/29.11.2017

قطاع البترول والغاز الطبيعي  
مستند رقم 111/11049/21  
تحت إشراف

## PARTICLE SIZE DISTRIBUTION ANALYSIS ASTM C136 & AASHTO T27- (Drying Samples)

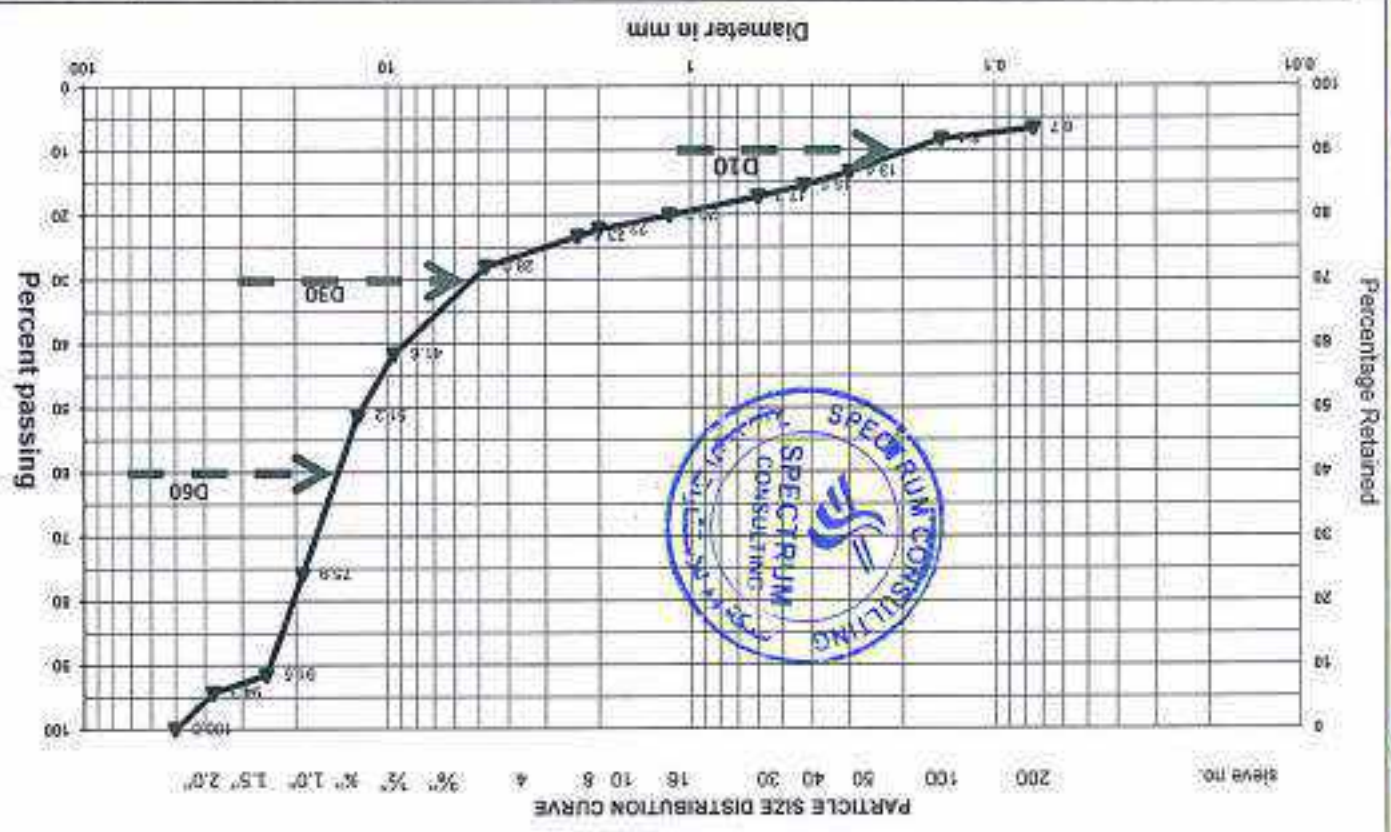
PROJECT: Electric Express Train

Consultant :- SPECTRUM

General Consultant :- SYSTRA  
CONTRACTOR: شركة تريم وايم

LAB. REF. Q.C. 1729/1

DATE: 19/11/2022



CLAY and SILT (Fines)		SAND		GRAVEL		COBBLES	
6.7		21.4		72.0			
DEPTH (m)		MOISTURE (%)		PI (%)		CLASS	
SAMPLE No.		27.0		2.2		A-1-a (0)	
Filling Soil.						Poorly graded GRAVEL with Sand (GP)	
D10=		D30= 5.2		D60= 15.0		C <sub>u</sub> = D <sub>60</sub> /D <sub>10</sub> = 78.95	
		C <sub>c</sub> = (D <sub>30</sub> ) <sup>2</sup> / (D <sub>10</sub> * D <sub>60</sub> ) = 9.49					
Remarks:		AASHTO (T87) SOIL CLASSIFICATION SYSTEM - A-1-a (0) Stone Fragments, Gravel and Sand		ASTM (D421) SOIL CLASSIFICATION SYSTEM - Poorly graded GRAVEL with Sand (GP)			
Soil Classification:							

Tested By : Mostafa  
Checked By : Eng. Eman E. Kandil



40 Safa Zaghoul st., P.O. Box 157 Alex, Egypt  
Tel: 4870573 - Fax + Tel: 4869798 - 4870665  
E-mail: internal-inspection@comibassal.com



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





# COMIBASSAL International Controllers

(الهيئة العامة للغذاء والدواء المصرية - الهيئة العامة للغذاء والدواء المصرية)

ISO 9001:2008 معتمدة على شهادة

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

قطاع البترول والغاز الطبيعي  
الهيئة العامة للغذاء والدواء المصرية  
رقم ٢٤ / ٢٩ / ٣٤ / ٢٠١١ / ٢٠١١

Report : 1779/2/Center  
Date : 27/11/2022

## Report Of Liquid limit and Plastic limit Test

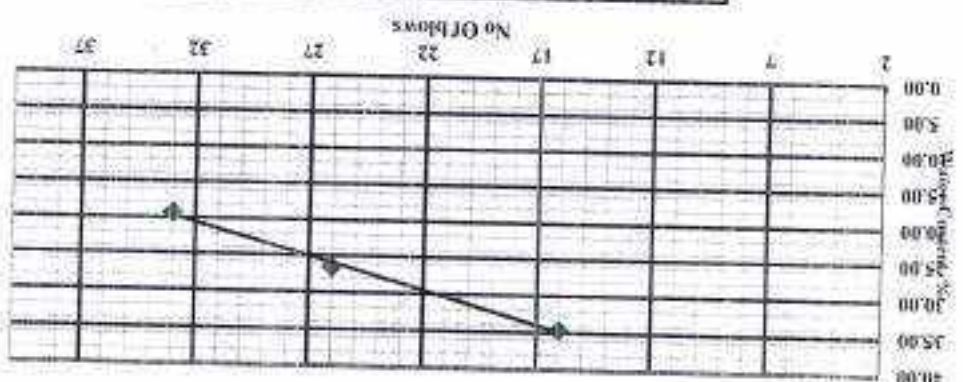
ASTM-D 4318

SYSTRA  
SPECTRUM  
مركز البترول والغاز الطبيعي

Electric express train  
Filling Soil  
19/11/2022

General Consultant :  
Consultant :  
Contractor :  
Project :  
Sample :  
Date of Test :

### Results



(A) - L.L at blow no.25 =		27.0%	
No. of blows	33	26	16
Wt. before drying	45.1	44.8	43.5
Wt. after drying	37.8	35.4	32.3
Water Content %	19.3	26.6	34.7

(B) - P.L =		24.8%	
Wt. before drying	5.8	5.9	5.4
Wt. after drying	4.7	4.7	4.3
Water Content %	23.4	25.5	25.6

$$P_I = (A-B) = 2.2\%$$



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١٥٧ ب.ص. ١٥٧ - ١٥٧ ب.ص. ١٥٧



ISO 9001:2008 على شهادة الأيزو  
 حاصل على شهادة الأيزو  
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 Under No: 34/29.11.2011

قسم إدارة الجودة  
 رقم ٢٠١١/١١٠٩/٢٤  
 تحت إشراف

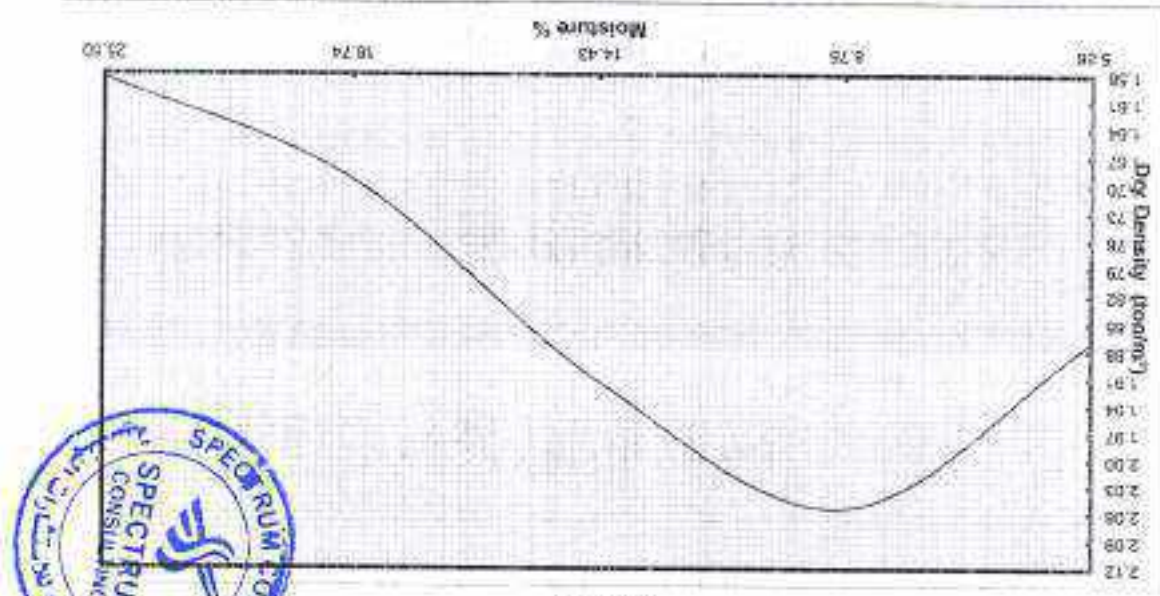
قطاع النفط والغاز والعلما

Report No. : 1729 - 3 - center  
 Date : 27/11/2022

**Proctor Test Report**  
**ASTM - D 698**

General consultant : SYSTRA  
 Consultant : SPECTRUM  
 Contractor : شركة نعيم وادي  
 Project : Electric express train  
 Sample : Filling Soil  
 Date of Test : 19/11/2022

**Results**



moisture content (%)	5.86	8.75	14.43	18.74	23.50
Dry Density (ton/m³)	1.87	2.05	1.91	1.69	1.58
Max. Dry Density (ton/m³)	2.05				
optimum moisture cont. (%)	8.75				

Civil Eng Department  
 Eng : Eman E. Kandil





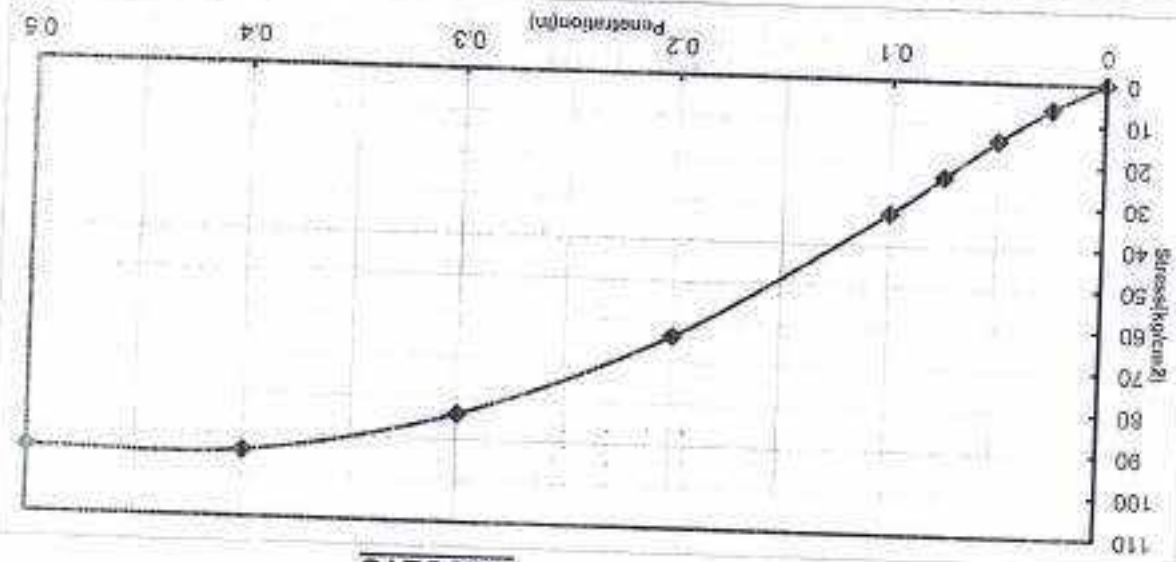
Report no : 1729 / 4 / center  
 Date : 27 / 11 / 2022

# Report Of C.B.R TEST ASTM - D 1883

General Consultant :  
 Consultant :  
 Contractor :  
 Project :  
 Sample :  
 Date of Test :

## RESULTS

SYSTRA  
 SPECTRUM  
 شركة سيم وال  
 Electric express train  
 Filling Soil  
 23/11/2022



Penetration (mm)	0	0.025	0.05	0.075	0.1	0.2	0.3	0.4
stress (1 st phase) (kg/cm²)	0	7.384	17.84	25.74	32.988	52	76.44	96.72
stress (2nd phase) (kg/cm²)	0	5.2	10.4	20.80	31.72	76.4	91.26	93.99
Average stress (kg/cm²)	0	6.282	14.17	23.27	32.344	63.7	83.86	93.99

C.B.R = 60.4 %



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