

المشروع القومي

القطار الكهربائي السريع (أكتوبر/أسوان)

الهيئة العامة للطرق والكباري

المنطقة السادسة - بني سويف

بخصوص : أعمال الجسر الثرابي والأعمال
الصناعية لمشروع القطار الكهربائي السريع (أكتوبر-
ابوسمبل) (القطاع الأول) في المسافة من كم
١٢١٠٠ الى كم ١٢٤٠٠ وبطول ٣ كم (اتجاه الفيوم)
تنفيذ : شركة المهندسون المتحدون للمقاولات
العامة والتوريدات
عقد رقم: ١٣٠٢ لسنة ٢٠٢٢/٢٠٢٣

السيد المهندس /رئيس قطاع التنفيذ والمناطق

تحية طيبة .. وبعد

نتشرف ان نرفق طيه المستخلص رقم (٣) جاري عن العمل ومرفقاته

برجاء التكرم بالإحاطة والتفضل بالتوجيه باللائم

وتفضلوا بقبول فائق الاحترام,,,

مرفقات

رئيس الادارة المركزية

المنطقة السادسة (بني سويف)

طارق يوسف الجزار



سليم

(١) استمارة ٥٠ ح.ح

(٢) أصل المستخلص

(٣) بيان الأعمال

(٤) محضر الأعمال

(٥) صورة التوكيدات

(٦) صورة نتائج الاختبارات المعملية

(٧) محضر مسكدة المقل

وزارة النقل

الهيئة العامة للطرق والكبارى

المنطقة السادسة - بني سويف

السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة وبعد

بالاحالة الى مشروع اسناد اعمال الجسر الترابي والاعمال الصناعية للخط الثاني من مشروع
القطار الكهربائي السريع (الفيوم/بني سويف/الاقصر/اسوان/ابو سمبل) القطاع الأول في
المسافة من الكم (١٢١+٠٠٠ الي الكم ١٢٤+٠٠٠) بطول ٣,٠٠ كم إتجاه الفيوم
رقم العقد (٢٠٢٣/٢٠٢٢/١٣٠٢) بتاريخ ٢٥/٠١/٢٠٢٣
تنفيذ شركة/ شركة المهندسون المتحدون للمقاولات والتوريدات
نتشرف ان نحيط علم سيادتكم بأن التجهيزات الموقعية الخاصة بالمكاتب والكرفان المتحرك
موجوده بالموقع.
الرجاء التكرم بالعلم والتوجيه باتخاذ اللازم .

وتفضلوا بقبول فائق الاحترام

رئيس الادارة المركزية

السادسة ببني سويف

مهندس / يوسف الجزار



مهندس

مهندس



المشروع القومي

القطار الكهربائي السريع (أكتوبر / أبو سمبل)

الهيئة العامة للطرق والكباري
المنطقة السادسة - بني سويف

بخصوص : أعمال الجسر الترابي والاعمال
الصناعية لمشروع القطر الكهربائي السريع (أكتوبر /
أبو سمبل) (القطاع الاول) في المسافة من كم
١٢١,٠٠ الي كم ١٢٤,٠٠ بطول ٣ كم (اتجاه الفيوم)

السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة .. وبعد

بالإشارة الي المشروع عاليه تنفيذ شركة المهندسون المتحدون للمقاولات العامة والتوريدات عقد

رقم ١٣٠٢ لسنة ٢٠٢٢/٢٠٢٣

نتشرف بالإحاطة بالاتي :-

- المشروع عليه محملات (سيارة) وهي متواجدة من يوم ٢٠٢٣/٢/١٩
- المشروع ليس عليه عمالة محملة
- يوجد بند اترية في هذا المستخلص تم الحصول عليها طبقا للبرتوكول مع الشركة المصرية للتعدين

برجاء التكرم بالإحاطة والتفضل بالتوجيه باللازم
وتفضلوا بقبول فائق الاحترام ،،،

تحريرا في : ٢٠٢٤ / ١ / ١

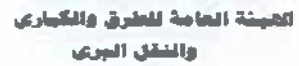
رئيس الإدارة المركزية

المنطقة السادسة (بني سويف)

طارق يوسف الجزار



Handwritten signature in blue ink.



التاريخ : ٢٦ - ٠٩ - ٢٠٢٢

م	من المعطاة رقم	الى المعطاة رقم	التصنيف	الكمية	ملاحظات
١	١٢٣+١٢٠	١٢٣+١٦٠	اعمال التكسير والازالة	٢م ٢٨	
٢	١٢٣+١٨٠	١٢٣+١٤٠	اعمال التكسير والازالة	٢م ٤٥	
٣	١٢٢+٦٠٠	١٢٢+٩٠٠	اعمال التطهير	٢م ١٨١٧٢.٥	
٤	١٢٣+١٠٠	١٢٤+٠٠٠	اعمال التطهير	٢م ٤١٨٣٦.٥	
٥	١٢٢+٠٠٠	١٢٣+٣٤٠	اعمال الردم	٣م ١٧٧٣٤٠.٦٩	
٦	١٢٣+٣٤٠	١٢٣+٦٢٠	اعمال ردم	٣م ٧٣١٤٦.٧٣	
٧	١٢٢+٠٠٠	١٢٣+٦٢٠	اجمالى اعمال الردم	٣م ١٩٦٤٨٧.٤٢	

ملاحظات :-

الكمية المدرجة بالمستخلص الاعمال حتى تاريخه.

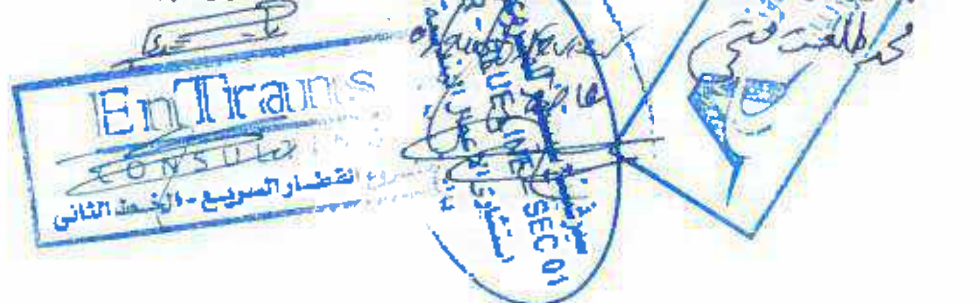
سنة ٩

مهندس الهيئة

استشارى الهيئة

استشاري المحاسبة

مهندسين الشركة المتفردة



التاريخ : ٢٠٢٣-٩-٢٠

اسم المشروع : مشروع القطار الكهربائي السريع قطاع (اكتوبر / بني مزار)

الموضوع : اعتماد الهيئة العامة للطرق والكباري لطلبات استلام الاعمال الخاصة بالمشروع

الشركة المنفذه : المهندسون المتحدون للمقاولات العامة والتوريدات في المسافة من ١٢١+٠٠٠ الى ١٢٤+٠٠٠ بطول ٣ كم
(اتجاه القيوم)

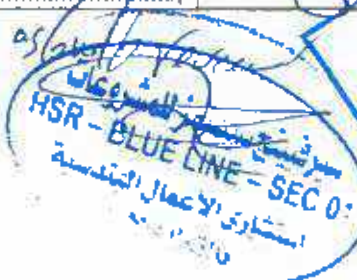
عقد رقم : (٢٠٢٣ / ٢٠٢٢ / ١٣٠٢) في ٢٥ / ١ / ٢٠٢٣

تم الاطلاع على طلبات الفحص الخاصة بالمشروع المذكور عاليه والمرفقة بمستخلص جاري
رقم (٣) لعدد ١٠ طلب فحص واعتمادها.

مهندس الهيئة العامة للطرق والكباري



مشروع القطار الكهربائي السريع استكمال جسر أصيل للجسر القوي والأصل الصناعية بقطاعات مشروع إنشاء القطار الكهربائي السريع (أنقرة - بني مزار) تأليف شركة المهندسين المتحدون للمقاولات والتوريدات مستخلص (٣) جاري			الهيئة العامة للغمرات	
بند رقم (١-٣) : أعمال تحميل وتوريد ونقل أتربة مطابقة للمواصفات وتدخلها باستخدام آلات للتسوية بسمك لا يزيد عن ٥٠ سم حتى مسسوب (2- متر) أسفل مسسوب للفرم ب سمك لا يزيد عن ٢٥ سم اعلى من مسسوب (2- متر) من مسسوب الفرمة الخ				
Station	Total FILL Area (m2)	Cum. FILL Vol (m3)	As Built vol FILL	
			Qty(m3)	Total Qty
122+000.00	40.25	0.00	0.00	142374.51
122+020.00	112.48	1527.34	1527.34	
122+040.00	144.98	4101.95	2574.62	
122+060.00	157.16	7123.34	3021.39	
122+080.00	171.35	10408.43	3285.09	
122+100.00	181.43	13936.25	3527.82	
122+120.00	185.99	17810.45	3674.20	
122+140.00	192.92	21399.46	3789.02	
122+160.00	207.85	25407.10	4007.84	
122+180.00	209.66	29582.13	4175.03	
122+200.00	199.16	33670.33	4088.20	
122+220.00	199.60	37658.01	3987.68	
122+240.00	201.94	41673.42	4015.41	
122+260.00	193.84	45831.22	3857.80	
122+280.00	186.70	49436.54	3805.42	
122+300.00	172.21	53025.72	3589.08	
122+320.00	154.28	56290.58	3284.84	
122+340.00	150.58	59338.87	3048.31	
122+360.00	148.74	62331.84	2892.87	
122+380.00	150.55	65324.71	2892.87	
122+400.00	152.13	68351.48	3026.77	
122+420.00	153.89	71411.88	3060.20	
122+440.00	144.63	74398.82	2985.14	
122+460.00	146.11	77304.14	2907.32	
122+480.00	144.46	80208.75	2905.61	
122+500.00	158.05	83214.81	3005.08	
122+520.00	184.66	86421.97	3207.15	
122+540.00	185.17	89720.35	3298.39	
122+560.00	180.56	93177.91	3457.56	
122+580.00	171.11	96894.79	3518.88	
122+600.00	182.51	100230.95	3536.16	
122+620.00	170.31	103759.18	3528.23	
122+640.00	166.48	107127.08	3387.81	
122+660.00	168.30	110474.85	3347.78	
122+680.00	161.40	113771.84	3296.89	
122+700.00	166.79	117053.70	3281.86	
122+720.00	144.85	120188.11	3114.40	
122+740.00	133.32	122947.84	2779.73	
122+760.00	120.81	125489.11	2541.27	
122+780.00	116.16	127658.74	2389.63	
122+800.00	104.25	130082.83	2204.09	
122+820.00	121.67	132322.02	2259.19	
122+840.00	124.47	134783.41	2461.39	
122+860.00	129.15	137319.60	2536.19	
122+880.00	128.67	139887.61	2578.21	
122+900.00	119.00	142374.51	2478.70	
عن الاستشاري لفرانس		عن استشاري مسرفوج مرسكمز	عن الشركة	



122+920.00	115.72	144,721.69	2,347.18
122+940.00	115.54	147,034.36	2,312.67
122+960.00	114.00	149,329.80	2,295.44
122+980.00	120.62	151,876.00	2,346.20
123+000.00	105.57	153,947.88	2,271.89
123+020.00	98.84	156,001.97	2,054.09
123+040.00	96.36	157,953.95	1,951.96
123+060.00	90.32	159,820.66	1,866.73
123+080.00	87.47	161,598.50	1,777.83
123+100.00	83.41	163,307.23	1,708.72
123+120.00	79.98	164,941.04	1,633.81
123+140.00	73.67	166,477.49	1,536.45
123+160.00	71.94	167,933.61	1,456.12
123+180.00	58.30	169,236.05	1,302.44
123+200.00	57.66	170,395.63	1,159.59
123+220.00	54.88	171,521.03	1,125.40
123+240.00	46.61	172,535.93	1,014.89
123+260.00	54.27	173,544.73	1,008.80
123+280.00	49.19	174,579.36	1,034.63
123+300.00	45.90	175,530.24	950.88
123+320.00	45.57	176,444.90	914.66
123+340.00	44.01	177,340.69	895.79
123+360.00	47.14	178,252.22	911.53
123+380.00	47.21	179,195.79	943.54
123+400.00	78.01	180,447.97	1,252.22
123+420.00	75.61	181,986.14	1,538.17
123+440.00	70.12	183,445.43	1,459.29
123+460.00	65.14	184,798.02	1,352.59
123+480.00	63.93	186,088.70	1,290.68
123+500.00	67.82	187,406.15	1,317.45
123+520.00	77.67	188,960.98	1,454.83
123+540.00	74.42	190,381.84	1,520.87
123+560.00	76.47	191,890.76	1,508.91
123+580.00	82.84	193,483.90	1,593.14
123+600.00	80.45	195,116.82	1,632.82
123+620.00	56.61	196,487.42	1,370.56

عن الاستشاري انترافس

عن الشريعة

ENTRANS
CONSULTING

OR - BLUE LINE - SEC

من الشقة ٤٥
١٠ طلع فني
الطريق العام
الطريق العام

محضر معاينة مسافات نقل

انه في يوم الأربعاء الموافق 2023/9/20 تم المرور على مشروع القطار السريع (المرحلة الاولى) في المسافة من 121+000 الى 124+000 ، تنفيذ شركة المهندسون المتحدون

بحضور كلا من

- | | |
|-----------------------|--------------------------------------|
| 1- م / محمد طلعت فتحى | (مهندس الشركة) |
| 2- م / عاطف محمد كمال | (مهندس استشارى مكتب سيرفينج سيستم) |
| 3- م / شعبان سعيد | (مهندس استشارى مكتب انترانس) |

وبالاشارة الى قطاع شركة المهندسون المتحدون من 121+000 الى 124+000 وطبقا للبروتوكول الموقع من الشركة الوطنية للتعيين وعليه فقد تم قياس المسافة من المحجر المرخص من قبل الشركة وحتى المحطة 123+000 وهى منتصف منطقة العمل من 122+000 الى 124+000 وتبين ان المسافة هى 2.450 كم وعليه فقد تم اعتماد هذه المسافة كمسافة نقل من المحجر الخاص بالشركة الى مقر موقع شركة المهندسون المتحدون .

م. مكتب انترانس

يعتمد،،

م. الهيئة

م. مكتب سيرفينج سيستم





مذكرة إيضاحية

للعرض على السيد المهندس/ رئيس قطاع التنفيذ والمناطق

الموضوع : بخصوص مشروع "أعمال إنشاء الجسر الترابي والأعمال الصناعية للقطار السريع (أكتوبر/ أبوسمبل) القطاع الأول (أكتوبر/بني مزار) قطاع من كم ١٢١+٠٠٠ إلى كم ١٢٤+٠٠٠ بطول ٣ كم اتجاه الفيوم بالأمر المباشر.

- الشركة المنفذة :- شركة المهندسون المتحدون
- العقد رقم ١٣٠٢ / ٢٠٢٢ / ٢٠٢٣ بتاريخ ٢٥ / ١ / ٢٠٢٣
- تاريخ بدء العمل : ٢٠٢٣ / ٠٢ / ٠١
- تاريخ النهو المقرر: ٢٠٢٣ / ١٠ / ٣١
- قيمة العقد الأصلي : ٢٠٠٠٠٠٠٠٠ جنيه (عشرون مليون جنيه فقط لا غير)

مبررات المنطقة بتعديل مقايسة الأعمال

- ورد إلينا خطاب إستشاري القطاع الأول (مرفق) بخصوص المشروع عاليه موضح به أسباب إعداد المقايسة المعدله رقم "٣" بنفس قيمة أمر الإسناد وذلك لوجود إختلاف فى الكميات المنفذه على الطبيعة عن الكميات المدرجة بالمقايسة الاصلية للعقد وإختلاف مسافات النقل.

الرأى

ترى المنطقة الموافقة على تعديل المقايسة طبقا لما ورد من استشاري المشروع.
برجاء التكرم بالطم والإحاطة .

والأمر مفوض لسيادتكم.

وتفضلوا بقبول فائق الاحترام ،،،،



مختص

تحريراً فى : ٠٢ / ١٠ / ٢٠٢٤

مرفقات:

خطاب الاستشاري

- ملحقه معدة

- محضر مسلك تل

التاريخ: ٢٠٢٤/١/٢

المشروع/مشروع القطار السريع (أكتوبر-بني مزار)-القطاع الأول

المحطة من (١٢١+٠٠٠) الى (١٢٤+٠٠٠) بطول ٣ كم اتجاه الفيوم

الموضوع : مقايضة مجددة (٣) تنفيذ شركة المهندسون المتحدون للعقد رقم (٢٠٢٣/٢٠٢٢/١٣٠٢)

المالك : الهيئة القومية للاتفاق

المالك بالإتابة : الهيئة العامة للطرق والكباري

السادة/ الهيئة العامة للطرق والكباري

الموقرين

الموقر

عناية السيد المهندس/ طارق الجزار-رئيس الادارة المركزية للمنطقة السالمة

تحية طيبة..وبعد،،،

اشارة الى الموضوع اعلاه مرفق لسيادتكم بطيه المقايضة المجددة رقم (٣) للعقد رقم

(٢٠٢٣/٢٠٢٢/١٣٠٢) تنفيذ شركة المهندسون المتحدون قطاع (من المحطة ١٢١+٠٠٠ الى المحطة

(١٢٤+٠٠٠) وذلك لوجود اختلاف بين الكميات المنفذة على الطبيعة والكميات المدرجة بالمقايضة المجددة

(٢) واختلاف مسافات النقل وذلك حتى يتسنى لنا تختيم العقد والبدأ في العقد الجديد

مع تحياتي،،،

مدير المشروع الاستشاري

م/شعبان سعيد



تتبع **بيريكا** / **المهندسون المتحدون**

أعمال إنشاء الجسر القنابي للقطار الكهربائي السريع (أكتوبر / أوتومبر)

القطاع الأول (أكتوبر / نوفمبر) من محطة ١٢١+٠٠٠ حتى محطة ١٢٢+٠٠٠ بطول ٢.٠٠٠ كم (اتجاه القنابل)

تنفيذ شبكة / المهتمون المتحدون

رقم البند	بيان الأعمال	الوحدة	الكمية	سعر الوحدة	الإجمالي
3	إعمال الجسر Enbridge				
3-1	أعمال تحميل وتوريد ونقل أنوية مطابقة للمواصفات وتجهيزها باستخدام آلات مناسبة بسك ٤ يزيد - ٥٠ سم حتى منصوب (٢ متر) وبمسك يزيد عن ٥٠ سم لاستكمال المنسوب للتأسيس للجسر والأنفاق (نسبة تحمل القنابل ١٢١٠٠ من ١٠٠) ورشها بالسد الأسفلتي للوصول إلى نسبة الطبقة المنسوبة وكانت الجدران والقنوات الوصول إلى أقصى عمالة (٩٠ ٪ من الطاقة الحالية القنابل) ويتم تنفيذ طبقا للمنتجيب المنسوبة والطاغات المعروضة للمنسوبة والمنسوبة المتعددة والمتعددة طبقا لوصول الصناعة ومواصفات الطبقة العامة للطرق والقنابل وتجهيز المهتمين المتحدون. - إلى حالة طالب جهال الإكثاف زيادة نسبة السك من ٩٠ ٪ ب زيادة ١ جنيه على زيادة نسبة السك لكل ١ ٪. - مسافة النقل حتى ٢ كم ويتم لتسليم عمالة ١.٤ جنيه لكل كم بالزيادة أو النقصان يتصلح ١.٥ جنيه لكل كم زيادة من ٢.٠٢/٥/١. - السك يشمل عمل تشوينات و نظيف و الحفريات و نقل اموال العمل حتى مسافة ٢ كم - عمالة زيادة القنابل ١,٩ جنيه / م. - السك لا يشمل قيمة المادة المعجوبة.		١٢٧,٢٠٥,٠٠٠	٦٠,٠٠٠	٧,٦٢٢,٢٠٠
3-2	عمالة مسافة لكل قبل ٢.٠٢/٥/١ مسافة ١ كم	م	١٤٨,٥٩٠,٠٠٠	٢,٨٠	٤١٨,٠٥٩,٠٠٠
3-3	عمالة مسافة لكل بعد ٢.٠٢/٥/١ مسافة ١ كم	م	٣,٦٤٥,٠٠٠	٣,٠٠	١٠,٩٣٥,٠٠٠
3-4	عمالة مسافة لكل بعد ٢.٠٢/٥/١ مسافة ٣ كم	م	٢٤,٩٢٠,٠٠٠	١,٥٠	٣٧,٣٨٠,٠٠٠
3-5	عمالة زيادة القنابل	م	٢٨,٩١٤,٠٠٠	١,٦٠	٤٥,٧٨٢,٠٠٠
3-6	عمالة توريد القنابل	م	٥٤,٠٠٠,٠٠٠	١٢,٠٠	٦٤٨,٠٠٠,٠٠٠
3-7	قيمة المواد المعجوبة للأقنية بالقيمة التي نسبة السك ٩٠ ٪ + ١٠ ٪ استقطاعات	م	٩٧٤,٠٠٠,٠٠٠	٤٤,٨٠	٧,٧٩٥,٢٠٠
	الإجمالي (عشرون مليون جنيه) فقط لا غير				
					٢٠,٠٠٠,٠٠٠,٠٠٠

وتم صرف الكلفة في حالة تقديم مبالغ طبقا للقيمة المعجوبة ٢٠٢٢ على أن يتم كسبها بمعجوبة الشركة

عمالة على الجسر وارتفاع الرام ٦ جنيه / م (٢ م) وذلك بعد ٨ م رأس من منسوب الأرض الطبيعية في نهاية الجسر والرسم يتناسب عمالة ١,٥ جنيه / م وذلك بعد ٢٠ متر حتى ٥٠ متر من منسوب الأرض الطبيعية

تم تحويل الإحار مع مراعاة القنابل لتشكيل القنابل وتجهيز مواقع المشروع

تم مراعاة (توريد السك الاستمارة ٩٠٠٠ جنيه / م) وأسعار الاستمالات (التيير) سكا (الموسم) في تاريخ المقاد عند (ديسمبر ٢٠٢٢) وتوزيع سكا في (٢٠٢٣/٥/١) وتوزيع التبريد (٢٠٢٣/٥/١) في بند الصناعات والمعدات رقم (١٦-١٧) والتجهيزات يتلقى سب بند ١٠٢٢

تم لتسليم التجهيزات لجميع البند طبقا لنسب المتعدد من سجل الوزيرة وذلك لشهر يناير ٢٠٢٣ وذلك نظرا ل إتباع سكر طبع القنابل

سعر بنود الأقنية والانس غير شامل المادة المعجوبة

سعر البند (١١-١٢-١٣-١٤) الأقنية والانس يشمل توريد الأقنية في مشد و نظيف لم إعادة التحميل ونقل القنابل ثم لتسليم البند لمسافة لكل البند ١٠ كم

لا يتم لتسليمه على بند (١٢) قنابل الأرض الطبيعية إلا في حالة المعجوبة - توصيل البند طبقا لفرق المنسوب التصميمي لطريقه سكر والرسم عن الأرض الطبيعية وتغير متعدد المسافات حتى ينطبق عليها توصيل

التيه مساهمة الاستثمار والمساهمة الاستثمار (للقيمة)

في حالة تقديم مبالغ يبلغ رسوم للمواد المعجوبة يتم صرف طبقا للتوزيع

مهندس الهيئة
الاسم / محمد عيسى
التوقيع /
مدير عام مشروعات
الاسم / مصطفى شحات
التوقيع /
رئيس الإدارة المركزية للمنطقة المسماة (بني سويف)
الاسم / السيد المهندس طارق الجزار
التوقيع /

مهندس شركة المهندس
الاسم / محمد طالع
التوقيع /
مهندس شركة المهندس
الاسم / محمد طالع
التوقيع /
مهندس شركة المهندس
الاسم / محمد طالع
التوقيع /
مهندس شركة المهندس
الاسم / محمد طالع
التوقيع /

 Employer Consultant	Electric Express Train - HSR	 GARB Consultant	Request No. L-163
	From October to Aswan		Date 23/8/2023
 Contractor: المهندسون المحضرون للمقاولات	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)		
	Contractor Zone From station 121+000 To station 124+000		

Request for Inspection

We request your attendance to inspect the following works:

Discipline: ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time: _____ Date: ____/____/____

Location: Contractor Zone From Station 122+820 To Station 123+000

References: _____ Specification: _____

Inspection: ☐ First ☒ Second ☐ Third

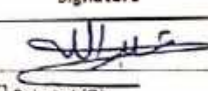
Purpose of the inspection:

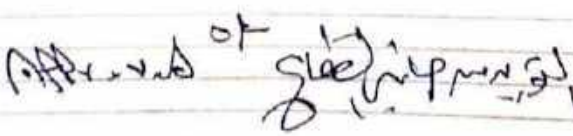
1. Earthworks ☐ Striping ☐ Natural Sub Grade ☐ Upper Embankment excavation ☐ Sub Grade ☐ Sub Ballast ☐ Ballast ☐ Embankment	2. Civil Work ☐ Open Channels ☐ Box Culvert ☐ Pipe Culvert ☐ Slope protection ☐ Gabion ☐ Side Ditches ☐ Other	3. Drainage ☐ Formation ☐ Sides of Excavation ☐ Backfilling Layers ☐ Slope protection 3. Structure ☐ Formwork ☐ Reinforcement ☐ Concreteing ☐ Paving	4. Surveying ☒ Setting out ☒ Levels ☐ Verticality ☐ NGL
--	--	---	--

Others (specify): _____

Particular Details: Layer (-4.25) BackFill

Submitted by: م. محمد طه / م. Signature: _____

Inspection Report:	Surveying systems	Signature
Surveyor:	تم الاستلام طبقاً للرقائق	
The work have found to be:	☒ Approved (A) ☒ Approved as Noted (B) ☐ Revised Resubmit (C) ☐ Rejected (D)	

Inspection Report:	EnTrans Consulting	Signature
Structural Eng.	 23/8/2023	 2023
Civil Eng.		
E/M Eng.		
Arch. Eng.		
Resident Engineer		

The work have found to be: ☐ Approved (A) ☒ Approved as Noted (B) ☐ Revised Resubmit (C) ☐ Rejected (D)

Signature: _____ Date: ____/____/____

Engineer's Representative "SYSTRA" comments:

Signature: _____ Date: ____/____/____

Attach all relevant particular test forms

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents

يسلم الأصل للهيئة العامة للطرق والكباري ونسخه للجهات الاستشارية والشركة المنفذة

 Employer Consultant	Electric Express Train - HSR From October to Aswan	 GARB Consultant	Request No. L-163
 Contractor	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR) Contractor Zone From station 121+000 To station 124+000	 Trans	Date 22/8/2023

Request for Inspection

We request your attendance to inspect the following works:

Discipline: ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection Time: _____ Date: ____/____/____

Location: **Contractor Zone** From Station: **122+820** To Station: **123+000**

References: _____ Specification: _____

Inspection: ☒ First ☐ Second ☐ Third

Purpose of the inspection:

1. Earthworks

☐ Graveling

☐ Natural Sub Grade

☐ Slope Embankment

☐ Excavation

☐ Sub Grade

☐ Soil Collect

☐ Surface

☐ Embankment

2. Civil Works

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gabion

☐ Side Ditches

☐ Other: _____

3. Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling Layers

☐ Slope protection

4. Surveying

☒ Setting out

☒ Levels

☐ Verticality

☐ NGL

Others (specify): _____

Particular Details: **Layer (-4.25) BackFill**

Submitted by: _____ / محمد طالت Signature: _____

Inspection Report:	Surveying systems	Signature
Surveyor:	_____	_____
The work have found to be:	☒ Approved (A) ☒ Approved as Noted (B) ☐ Revised & Resubmit (C) ☐ Rejected (D)	

Inspection Report:	EnTrans Consulting	Signature
Structural Eng.	Rejected تم رفض العمل بالاحكام المتفق عليه 22/8/2023	22/8/2023
Civil Eng.		
E/M Eng.		
Arch. Eng.		
Resident Engineer		

The work have found to be: ☐ Approved (A) ☐ Approved as Noted (B) ☐ Revised & Resubmit (C) ☐ Rejected (D)

Signature: _____ Date: ____/____/____

Engineer's Representative "SYSTRA" comments: _____

Signature: _____ Date: ____/____/____

Attach all relevant particular test forms

Approved by: _____ Contractor of his liability under the Contract or constitute authorization of any change to Contract Documents.

يسلم الأصل للمهنة العامة للطرق والكباري ونسخه للجهات الاستشارية والشركة المنقذه

OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)

شركة المهندسين المتخصصين للمقاولات العامة والتوريدات

Data Surveying

Request Number L-163

Station	Elevation Design	Slope	عرض الحافة اليمنى	16	12	8	4	center	4	8	12	ارتفاع عمود الردم
122+820	65.43	0.00%	60.284	60.284	60.284	60.284	60.284	60.284	60.284	60.284	60.284	15.715
ACT READ												عرض الطبقة بين
DEF.			+3	+2	-2	+3	+2	-2	+3	+2	-2	+3
122+840	65.23	0.00%	60.075	60.075	60.075	60.075	60.075	60.075	60.075	60.075	60.075	
ACT READ												
DEF.			-2	+3	+2	-1	+2	+3	+2	-1	+2	+3
122+860	65.02	0.00%	59.866	59.866	59.866	59.866	59.866	59.866	59.866	59.866	59.866	
ACT READ												
DEF.			-2	+3	+2	-1	+2	+3	+2	-1	+2	-2
122+880	64.81	0.00%	59.657	59.657	59.657	59.657	59.657	59.657	59.657	59.657	59.657	
ACT READ												
DEF.			+3	+2	-1	+2	+3	+2	-1	+2	+3	+2
122+900	64.60	0.00%	59.449	59.449	59.449	59.449	59.449	59.449	59.449	59.449	59.449	
ACT READ												
DEF.			-1	+2	+3	+2	-1	+3	+2	-3	-4	+3
122+920	64.39	0.00%	59.240	59.240	59.240	59.240	59.240	59.240	59.240	59.240	59.240	
ACT READ												
DEF.			-2	+2	+2	-1	+2	-1	+3	+2	-1	+3
122+940	64.18	0.00%	59.031	59.031	59.031	59.031	59.031	59.031	59.031	59.031	59.031	
ACT READ												
DEF.			-2	+3	+2	-1	+2	+3	-2	+3	-2	+3
122+960	63.97	0.00%	58.822	58.822	58.822	58.822	58.822	58.822	58.822	58.822	58.822	
ACT READ												
DEF.			-2	+3	+2	-2	+3	-2	-3	-1	+2	-3
122+980	63.76	0.00%	58.613	58.613	58.613	58.613	58.613	58.613	58.613	58.613	58.613	
ACT READ												
DEF.			+2	-1	+2	+3	+3	+2	-3	+2	-2	+3
122+000	63.56	0.00%	58.405	58.405	58.405	58.405	58.405	58.405	58.405	58.405	58.405	
ACT READ												
DEF.			+2	-2	+3	+2	-1	+2	-2	+3	+2	-2

استشاري المساحة

الاسم /

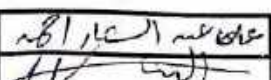
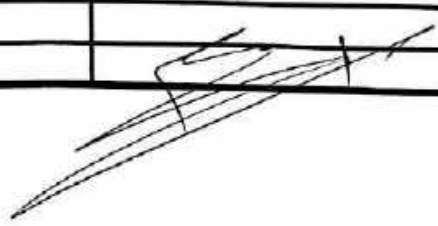
التوقيع /

المهندس المحض من الشركة

الاسم /

التوقيع /

	Electric Express Train - HSR																																																																																																	
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Material :		soil																																																																																																
Location :		122+820 TO 123+000																																																																																																
Layer Thickness :		50		Level layer		4.25-																																																																																												
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Max dry density	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08																																																																																										
Compaction ratio %	91.7	94.9	92.6	87.7	90.8	91.1	91.8	93.5																																																																																										
Observations																																																																																																		
Lab Engineer :		Consultant Eng. :																																																																																																
Sign :		Sign :																																																																																																

	Electric Express Train - HSR					الهيئة القومية للإنفاق المشروعات العامة طرق و الكباري و النقل البري (GARBLT) 																																																																																												
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Station	shallow	shallow	shallow	shallow	deeb	deeb	deeb	deeb																																																																																										
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 Employer Consultant	Electric Express Train - HSR		 		Request No.
	From October to Aswan				L- 164
 Contractor: المهندسون المتخصصون للتقنيات	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)		 		Date 21/8/2023
	Contractor Zone From station 121+000 To station 124+000		GARB Consultant		

Request for Inspection

We request your attendance to inspect the following works :

Discipline : ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time : _____ Date : ____/____/____

Location	Contractor Zone	From Station	122+660	To Station	122+820
----------	-----------------	--------------	---------	------------	---------

References : _____ Specification: _____

Inspection : ☒ First ☐ Second ☐ Third

Purpose of the inspection :

1. Earthwork

☐ Sloping

☐ Natural Sub Grade

☐ Upper Embankment

☐ Excavation

☐ Sub Grade

☐ Subsoil

☐ Bulfill

☐ Embankment

2. Civil Work

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gabion

☐ Side Ditches

☐ Other

3. Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling Layers

☐ Slope protection

4. Surveying

☒ Setting out

☒ Levels

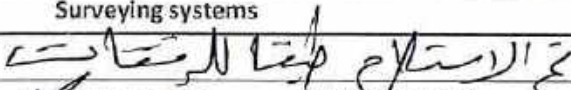
☐ Verticality

☐ NGL

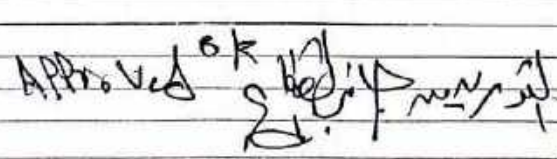
Others (Specify) : _____

Particular Details : _____

Submitted by : _____ / محمد طالت Signature : _____

Inspection Report :	Surveying systems	Signature
Surveyor		

The work have fount to be : ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revised & Resubmit (C) ☐ Rejected (D)

Inspection Report :	EnTrans Consulting	Signature
Structural Eng.		
Civil Eng.		
E/M Eng.		
Arch. Eng.		
Resident Engineer		

The work have fount to be : ☐ Approved (A) ☐ Approved as Noted (B) ☐ Revised & Resubmit (C) ☐ Rejected (D)

Signature : _____ Date : ____/____/____

Engineer's Representative " SYSTRA " comments : _____

Signature : _____ Date : ____/____/____

Attach all relevant particular test forms

Approved that we release Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

يسلم الأصل للهيئة العامة للطرق والكباري وتسخره للجهات الاستشارية والشركة المنقذة

OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)
 شركة المهندسين المتخصصين للمقاولات العامة والتوريدات

Data Surveying

Request Number L-164

Station	Elevation Design	Slope	عرض المنطقة بـ متر	16	12	8	4	0	center	4	8	12	ارتفاع عمود الروم	عرض المنطقة بـ متر
122+660	67.10	0.00%	19.005	61.954	61.954	61.954	61.954	61.954	61.954	61.954	61.954	61.954	61.954	15.715
ACT. READ			+3	+2	-1	+2	-2	+3	+2	+2	-1	+3	-2	
DEF.			61.746	61.746	61.746	61.746	61.746	61.746	61.746	61.746	61.746	61.746	61.746	
122+680	66.90	0.00%												
ACT. READ			-2	-1	+3	+2	-1	+2	-1	+3	+2	+2	-1	
DEF.			61.537	61.537	61.537	61.537	61.537	61.537	61.537	61.537	61.537	61.537	61.537	
122+700	66.69	0.00%												
ACT. READ			+3	+2	-2	+3	-2	-1	+2	+3	+2	-1	+2	
DEF.			61.328	61.328	61.328	61.328	61.328	61.328	61.328	61.328	61.328	61.328	61.328	
122+720	66.48	0.00%												
ACT. READ			-2	+3	+2	-1	+3	+2	+2	+2	-1	+3	-2	
DEF.			61.119	61.119	61.119	61.119	61.119	61.119	61.119	61.119	61.119	61.119	61.119	
122+740	66.27	0.00%												
ACT. READ			-2	+3	+2	-1	+2	+2	+2	-1	+2	+3	-2	
DEF.			60.910	60.910	60.910	60.910	60.910	60.910	60.910	60.910	60.910	60.910	60.910	
122+760	66.06	0.00%												
ACT. READ			+3	+2	-1	+2	-1	+2	+2	+4	+2	-2	+3	
DEF.			60.702	60.702	60.702	60.702	60.702	60.702	60.702	60.702	60.702	60.702	60.702	
122+780	65.85	0.00%												
ACT. READ			-2	+2	+2	-1	+2	+3	+3	+4	+2	-2	+3	
DEF.			60.493	60.493	60.493	60.493	60.493	60.493	60.493	60.493	60.493	60.493	60.493	
122+800	65.64	0.00%												
ACT. READ			-1	+2	+3	+2	-1	+3	+3	+4	+2	-1	+2	
DEF.			60.284	60.284	60.284	60.284	60.284	60.284	60.284	60.284	60.284	60.284	60.284	
122+820	65.43	0.00%												
ACT. READ			+2	+3	+2	-1	+2	+3	+3	+2	-1	+2	-2	
DEF.			60.284	60.284	60.284	60.284	60.284	60.284	60.284	60.284	60.284	60.284	60.284	

استشاري المساحة

الاسم /

التوقيع /

المهندس المفوض من الشركة

الاسم /

التوقيع /

 Rail Consultancy	Electric Express Train (150) Contractor to be aware	 Rail Consultancy	Date 20/11/2023
	SECTION ONE (1000m) - Underfoot Contractor Zone From station 122+000 to station 122+800		

Request for inspection			
Contractor to inspect the following:			
Contractor Zone	From Station	122+000	To Station
			122+800

Inspection	By	When	Where
☐ Visual ☐ Audio ☐ Video ☐ Other	☐ Self ☐ Other	☐ Daily ☐ Weekly ☐ Monthly ☐ Other	☐ On site ☐ Off site ☐ Other

Inspector: [Signature]

Date: 20/11/2023

Page: 1

Surveying systems [Signature] 20/11/2023	Signature [Signature]
--	--------------------------

Eutrans Consulting [Signature] 20/11/2023	Signature [Signature]
---	--------------------------

[Signature] 20/11/2023	Signature [Signature]
---------------------------	--------------------------

Representative system commands [Signature] 20/11/2023	Signature [Signature]
---	--------------------------

[Signature] 20/11/2023	Signature [Signature]
---------------------------	--------------------------

ميول وعروض طبقات الردم _ (34 م ردم)

في حالة طريق الخدمة في الجهة اليسرى وبدون قناة جانبية

Typical Fill 1

رقم الطبقة	انخفاض الطبقة عن منسوب التسوية _ TOE	ميول الطبقة في الجانبين	العرض في الجانب الايمن	العرض في الجانب الايسر
1	0	4%	9.936	-13.436
2	0.25	4%	10.335	-13.835
3	0.5	4%	10.734	-14.234
4	0.75	4%	11.133	-14.633
5	1	4%	11.532	-15.032
6	1.25	3%	11.743	-15.188
7	1.5	2%	11.948	-15.340
8	1.75	1%	12.147	-15.487
9	2	0%	12.340	-15.630
10	2.25	0%	12.715	-16.005
11	2.5	0%	13.090	-16.380
12	2.75	0%	13.465	-16.755
13	3	0%	13.840	-17.130
14	3.25	0%	14.215	-17.505
15	3.5	0%	14.590	-17.880
16	3.75	0%	14.965	-18.255
17	4	0%	15.340	-18.630
18	4.25	0%	15.715	-19.005
19	4.5	0%	16.090	-19.380
20	4.75	0%	16.465	-19.755
21	5	0%	16.840	-20.130
22	5.25	0%	17.215	-20.505
23	5.5	0%	19.590	-20.880
24	5.75	0%	19.965	-23.255
25	6	0%	20.340	-23.630
26	6.25	0%	20.715	-24.005
27	6.5	0%	21.090	-24.380
28	6.75	0%	21.465	-24.755

مدير المشروع

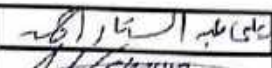
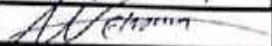
م شعبان سعيد

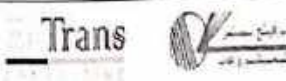
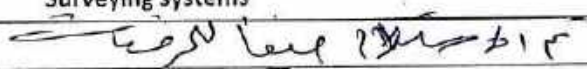
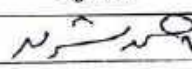
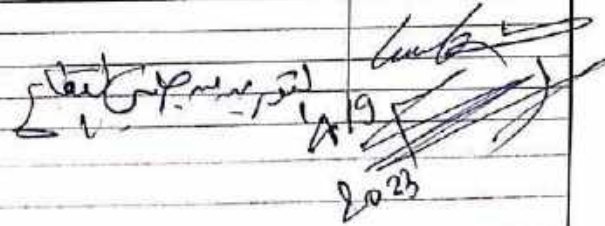
الخبركة بهل خرب نه لمريل

مدير المكتب الفني

م عمر مصطفى مهدي

٢٠٢٣-١-٩

	Electric Express Train - HSR																																																																											
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Bulk density of soil	2.15	2.11	2.11	2.17	2.11	2.13																																																																						
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 15%;">O.W.C</td> <td colspan="6">7.8</td> </tr> <tr> <td>verage water content</td> <td>6.2</td> <td>6</td> <td>6.5</td> <td>6</td> <td>5.9</td> <td>6</td> </tr> <tr> <td>Dry density</td> <td>2.03</td> <td>1.99</td> <td>1.98</td> <td>2.05</td> <td>1.99</td> <td>2.01</td> </tr> <tr> <td>Max dry density</td> <td>2.08</td> <td>2.08</td> <td>2.08</td> <td>2.08</td> <td>2.08</td> <td>2.08</td> </tr> <tr> <td>Compaction ratio %</td> <td>97.5</td> <td>95.8</td> <td>95.4</td> <td>98.5</td> <td>95.9</td> <td>96.8</td> </tr> <tr> <td>Observations</td> <td colspan="6"></td> </tr> </table>							O.W.C	7.8						verage water content	6.2	6	6.5	6	5.9	6	Dry density	2.03	1.99	1.98	2.05	1.99	2.01	Max dry density	2.08	2.08	2.08	2.08	2.08	2.08	Compaction ratio %	97.5	95.8	95.4	98.5	95.9	96.8	Observations																																		
O.W.C	7.8																																																																											
verage water content	6.2	6	6.5	6	5.9	6																																																																						
Dry density	2.03	1.99	1.98	2.05	1.99	2.01																																																																						
Max dry density	2.08	2.08	2.08	2.08	2.08	2.08																																																																						
Compaction ratio %	97.5	95.8	95.4	98.5	95.9	96.8																																																																						
Observations																																																																												
Lab Engineer :				Consultant Eng. :																																																																								
Sign :				Sign :																																																																								

 Employer Consultant	Electric Express Train - HSR		 Trans		Request No. L- 165
	From october to Aswan		 GARB Consultant		Date 4/19/2023
 Contractor: المهندسون المتحدون للمقاولات	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)		Request for Inspection		
	Contractor Zone From station 121+000 To station 124+000				
We request your attendance to inspect the following works :					
Discipline : ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey					
Inspection time :		Date : / /			
Location :		Contractor Zone		From Station	To Station
		123+180		123+380	
References		Specification:			
Inspection : ☐ First ☒ Second ☐ Third					
Purpose of the inspection :					
1. Earthworks ☐ Stripping ☐ Natural Sub Grade ☐ Upper Embankment ☐ excavation ☐ Sub Grade ☐ Sub Ballast ☐ Ballast ☐ Embankment		2. Civil Work ☐ Open Channels ☐ Box Culvert ☐ Pipe Culvert ☐ Slope protection ☐ Gabion ☐ Side Ditches ☐ Other		3-Drainage ☐ Formation ☐ Sides of Excavation ☐ Backfilling Layers ☐ Slope protection 4. Surveying ☒ Setting out ☒ Levels ☐ Verticality ☐ NGL	
5. Structure ☐ Formwork ☐ Reinforcement ☐ Concreteing ☐ Earthing					
Others (specify)					
Particular Details					
Layer (-4.00) BackFill					
Submitted by :		Signature :			
Inspection Report :		Surveying systems		Signature	
Surveyor:					
The work have fount to be : ☒ Approved (A) ☒ Approved as Noted (B) ☐ Revised & Resubmit (C) ☐ Rejected (D)					
Inspection Report :		EnTrans Consulting		Signature	
Structural Eng.		APPROVED Approved			
Civil Eng.					
E/M Eng.					
Arch. Eng.					
Resident Engineer					
The work have fount to be : ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revised & Resubmit (C) ☐ Rejected (D)					
Signature		Date : / /			
Engineer's Representative " SYSTRA " comments :					
Signature :					
Date : / /					
Attach all relevant particular test forms Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.					
يسلم الأصل للهيئة العامة للطرق والكباري وتسخره للجهات الاستشارية والشركة المتفقد					

 Employer Consultant	Electric Express Train - HSR From october to Aswan		 Contractor		Request No. L- 165
	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)		 Trans Consulting		Date 30/18/2023
Contractor Zone From station 121+000 To station 124+000		GARB Consultant			

Request for Inspection

We request your attendance to inspect the following works :

Discipline : ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time : _____ Date : ____/____/____

Location : **Contractor Zone** From Station **123+180** To Station **123+380**

References : _____ Specification : _____

Inspection : ☒ First ☐ Second ☐ Third

Purpose of the inspection :

1. Earthworks

☐ Stripping

☐ Natural Sub Grade

☐ Upper Embankment

☐ excavation

☐ Sub Grade

☐ Sub Ballast

☐ Ballast

☐ Embankment

2. Civil Work

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gabion

☐ Side Ditches

☐ Other

3. Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling Layers

☐ Slope protection

4. Surveying

☒ Setting out

☐ Levels

☐ Verticality

☐ NGL

5. Structure

☐ Formwork

☐ Reinforcement

☐ Concreteing

☐ Earthing

Others (specify) : _____

Particular Details : **Layer (-4.00) BackFill**

Submitted by : **محمد طلعت** Signature : _____

Inspection Report : **Surveying systems**

Surveyor : _____

The work have found to be : ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D)

Inspection Report : **EnTrans Consulting** Signature : _____

Structural Eng. : _____

Civil Eng. : _____

E/M Eng. : _____

Arch. Eng. : _____

Resident Engineer : _____

The work have found to be : ☐ Approved (A) ☐ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D)

Signature : _____ Date : ____/____/____

Engineer's Representative " SYSTRA " comments : _____

Signature : _____ Date : ____/____/____

Attach all relevant particular test forms

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

بسم الأصيل للهيئة العامة للطرق والكباري ونسخه
للجهات الاستشارية والشركة المتفلة

OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)

شركة المهندسين المتحدون للمقاولات العامة والتوريدات

Data Surveying

Request Number L-165

Station	Elevation Design	Slope	عرض القطعة سمار	16	12	8	4	0	4	8	12	ارتفاع عمود الزوم
123+180	61.675	0.00%	56.775	56.775	56.775	56.775	56.775	56.775	56.775	56.775	56.775	15.340
ACT.READ												56.775
DEF.			+4	+2	+3	+2	-3	+4	+2	-3	+2	+3
123+200	61.466	0.00%	56.566	56.566	56.566	56.566	56.566	56.566	56.566	56.566	56.566	56.566
ACT.READ												56.566
DEF.			-3	+2	+1	-3	-1	+2	+5	+3	-3	+2
123+220	61.257	0.00%	56.357	56.357	56.357	56.357	56.357	56.357	56.357	56.357	56.357	56.357
ACT.READ												56.357
DEF.			+4	+3	-3	+1	+2	-3	+4	+2	-2	+4
123+240	61.049	0.00%	56.149	56.149	56.149	56.149	56.149	56.149	56.149	56.149	56.149	56.149
ACT.READ												56.149
DEF.			-3	+2	+1	-2	+3	+2	+5	+2	+1	-3
123+260	60.94	0.00%	55.940	55.940	55.940	55.940	55.940	55.940	55.940	55.940	55.940	55.940
ACT.READ												55.940
DEF.			+2	+3	+2	+2	-3	+4	+2	-3	+1	+2
123+280	60.631	0.00%	55.731	55.731	55.731	55.731	55.731	55.731	55.731	55.731	55.731	55.731
ACT.READ												55.731
DEF.			+1	-2	+4	-3	+3	+5	+2	+1	-3	-2
123+300	60.422	0.00%	55.522	55.522	55.522	55.522	55.522	55.522	55.522	55.522	55.522	55.522
ACT.READ												55.522
DEF.			-3	+1	+2	+2	-3	-3	+4	+3	-2	+1
123+320	60.213	0.00%	55.313	55.313	55.313	55.313	55.313	55.313	55.313	55.313	55.313	55.313
ACT.READ												55.313
DEF.			-2	+1	+4	-3	+3	+2	+1	+4	-2	+1
123+340	60.005	0.00%	55.105	55.105	55.105	55.105	55.105	55.105	55.105	55.105	55.105	55.105
ACT.READ												55.105
DEF.			+1	-3	+4	+2	-3	+1	+5	-2	+3	-2
123+360	59.796	0.00%	54.896	54.896	54.896	54.896	54.896	54.896	54.896	54.896	54.896	54.896
ACT.READ												54.896
DEF.			-3	+1	+2	+4	-3	+2	+4	-3	+2	+5
123+380	59.59	0.00%	54.687	54.687	54.687	54.687	54.687	54.687	54.687	54.687	54.687	54.687
ACT.READ												54.687
DEF.			+5	-3	+1	+3	-2	+4	+5	+2	-3	+4

استمارة المساحة
الاسم /
التوقيع /

المهندس المسؤول عن الشركة
الاسم /
التوقيع /

[Handwritten signature]

 Employer Consultant	Electric Express Train - HSR From October to Aswan	 Trans	Request No. L-156
 Contractor	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR) Contractor Zone From station 121+000 To station 124+000	GARB Consultant	Date 1/8/2023
Request for Inspection			
We request your attendance to inspect the following works:			
Discipline: ☐ Civil/Slope Protection		Structure ☐ Drawings ☒ Survey	
Inspection Time: _____ Date: ____/____/____			
Location: Contractor Zone		From Station: 123+180 To Station: 123+380	
Reference: _____		Specification: _____	
Inspection: ☒ First ☐ Second ☐ Third			
Purpose of the inspection:			
1. Earthworks ☐ Striping ☐ Natural Sub Grade ☐ Upper Embankment ☐ Restoration ☐ Sub Grade ☐ Sub Filling ☐ Road ☐ Drainage	2. Civil Work ☐ Open Channels ☐ Box Culvert ☐ Pipe Culvert ☐ Slope protection ☐ Sewer ☐ Side Ditches ☐ Other	3. Drainage ☐ Formation ☐ Sides of Excavation ☐ Backfilling Layers ☐ Slope protection 4. Surveying ☒ Setting out ☐ Levels ☐ Verticality ☐ NGI	5. Structures ☐ Formwork ☐ Reinforcement ☐ Concrete ☐ Earthing
Other inspection: _____			
Particular Action: Layer (-4.5) Backfill			
Submitted by: محمد طاهر		Signature: _____	
Inspection Report:		Surveying systems	
Surveyor: _____		Signature: _____	
The work is found to be: ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revise & Resubmit (C) ☐ Rejected (D)			
Inspection Report:		EnTrans Consulting	
Structural Eng. _____ Civil Eng. _____ EIM Eng. _____ Arch. Eng. _____ Resident Engineer		Signature: _____	
The work is found to be: ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revise & Resubmit (C) ☐ Rejected (D)		Date: ____/____/____	
Engineer's Representative "SYSTRA" comments: _____			
Signature: _____ Date: ____/____/____			
Attach all relevant particular test forms Address all issues/Concurrence of his liabilities under the Contract or constitute authorization of any change to Contract documents			

ميول وعروض طبقات الردم _ (34 م ردم)

في حالة طريق الخدمة في الجهة اليسرى وبدون قناة جانبية

Typical Fill 1

رقم الطبقة	انخفاض الطبقة عن منسوب التسوية _ TOE	ميلول الطبقة في الجانبين	العرض في الجانب الايمن	العرض في الجانب الايسر
1	0	4%	9.936	-13.436
2	0.25	4%	10.335	-13.835
3	0.5	4%	10.734	-14.234
4	0.75	4%	11.133	-14.633
5	1	4%	11.532	-15.032
6	1.25	3%	11.743	-15.188
7	1.5	2%	11.948	-15.340
8	1.75	1%	12.147	-15.487
9	2	0%	12.340	-15.630
10	2.25	0%	12.715	-16.005
11	2.5	0%	13.090	-16.380
12	2.75	0%	13.465	-16.755
13	3	0%	13.840	-17.130
14	3.25	0%	14.215	-17.505
15	3.5	0%	14.590	-17.880
16	3.75	0%	14.965	-18.255
17	4	0%	15.340	-18.630
18	4.25	0%	15.715	-19.005
19	4.5	0%	16.090	-19.380
20	4.75	0%	16.465	-19.755
21	5	0%	16.840	-20.130
22	5.25	0%	17.215	-20.505
23	5.5	0%	19.590	-20.880
24	5.75	0%	19.965	-23.255
25	6	0%	20.340	-23.630
26	6.25	0%	20.715	-24.005
27	6.5	0%	21.090	-24.380
28	6.75	0%	21.465	-24.755

مدير المشروع

م شعبان

الغريب في كل حرف له

مدير المكتب الفني

م عمر مصطفى مهدي

1085-1-9



Electric Express Train - HSR

October Aswan Electric Express Train

Section -1 (October -Bani Mazar)

From Station 121+000

To Station 124+000

الهيئة القومية للإنفاق

الهيئة العامة
للمطرق والكبارى والنقل النهري
(GARBLT)



المهندسون المتحدون

Testing Date :

30/8/2023

Company :

Material :

soil

Location :

123+180 TO 123+380

Layer Thickness :

50

Level layer

4.00-

Qt-7

Station	shallow	shallow	shallow	shallow				
Hole no	1	2	3	4				
Bulk density specifid sand	1.48	1.48	1.48	1.48				
wt .of sand befor test	8575	8652	9325	9214				
WT .of sand after test	3655	3766	4860	4390				
WT . Of sand fill cone	1511	1511	1511	1511				
WT . Of sand in hole	3409	3375	2954	3313				
Volume of hole	2297	2274	1991	2232				
WT . Of sample from hole	4311	4522	3925	4522				
Bulk density of soil	1.88	1.99	1.97	2.03				
O.W.C	7.45							
Average water content %	7.3	6.6	7	6.5				
(gm/cm3)Dry density	1.75	1.87	1.84	1.90				
(gm/cm3)Max dry density	2.03	2.03	2.03	2.03				
Compaction ratio %	86.2	91.9	90.8	93.7				
Observations								
Lab Engineer :	[Signature]			Consultant Eng. :	[Signature]			
Sign :	[Signature]			Sign :	[Signature]			



Electric Express Train - HSR

October Aswan Electric Express Train

Section -1 (October -Bani Mazar)

From Station 121+000

To Station 124+000

الهيئة القومية للإنفاق

المهندسون المتحدون



Testing Date :

4/9/2023

Company :

المهندسون المتحدون

Material :

soil

Location :

123+180 TO 123+380

Qt-7

Layer Thickness :

50

Level layer

4.00-

Station	shallow	shallow	shallow	shallow	deeb	deeb	deeb	deeb
Hole no	1	2	3	4	5	6	7	8
(gm/cm3)Bulk density specifid sand	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
wt .of sand befor test	9130	8935	10050	8926	9235	10205	8935	9306
WT .of sand after test	4533	4135	4860	4390	4235	5170	4135	4579
WT . Of sand fill cone	1511	1511	1511	1511	1511	1511	1511	1511
WT . Of sand in hole	3086	3289	3679	3025	3489	3524	3289	3216
Volume of hole	2080	2216	2479	2038	2351	2375	2216	2167
WT . Of sample from hõle (gm)	4410	4690	5280	4240	4890	4980	4690	4610
(gm/cm3)Bulk density of soil	2.12	2.12	2.13	2.08	2.08	2.10	2.12	2.13

O.W.C	7.45							
Average water content %	7.3	6.6	7	6.5	7.1	6.7	6.9	7.2
(gm/cm3)Dry density	1.98	1.99	1.99	1.95	1.94	1.97	1.98	1.98
(gm/cm3)Max dry density	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03
Compaction ratio %	97.4	97.8	98.1	96.2	95.7	96.8	97.5	97.8
Observations								

Lab Engineer :

Sign :

Consultant Eng. :

Sign :

 Employer Consultant	Electric Express Train - HSR		 Request No.	
	From October to Aswan		L- 166	
 Contractor: المهندس المتحكون للملاوبات	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR) Contractor Zone From station 121+000 To station 124+000		 GARB Consultant	
	Date 5/9/2023			

Request for Inspection

We request your attendance to inspect the following works :

Discipline : ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time : _____ Date : ____/____/____

Location :	Contractor Zone	From Station	123+380	To Station	123+480
------------	-----------------	--------------	---------	------------	---------

References : _____ Specification : _____

Inspection : ☒ First ☐ Second ☐ Third

Purpose of the inspection :

1. Earthworks

☐ Stripping

☐ Natural Sub Grade

☐ Upper Embankment

☐ excavation

☐ Sub Grade

☐ Sub Ballast

☐ Ballast

☐ Embankment

2. Civil Work

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gabion

☐ Side Ditches

☐ Other

3-Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling Layers

☐ Slope protection

4. Surveying

☒ Setting out

☒ Levels

☐ Verticality

☐ NGL

5. Structure

☐ Formwork

☐ Reinforcement

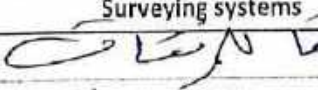
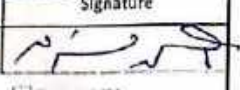
☐ Concreting

☐ Earthing

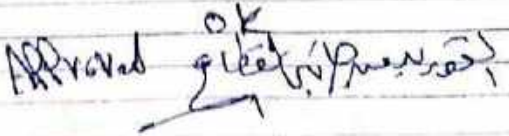
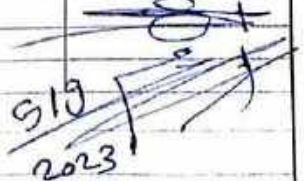
Others (specify) : _____

Particular Details : _____

Submitted by : _____ / محمد طالت _____ Signature : _____

Inspection Report :	Surveying systems	Signature
Surveyor		

The work have found to be : ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revise & Resubmit (C) ☐ Rejected (D)

Inspection Report :	EnTrans Consulting	Signature
Structural Eng.		
Civil Eng.		
E/M Eng.		
Arch. Eng.		
Resident Engineer		

The work have found to be : ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revise & Resubmit (C) ☐ Rejected (D)

Signature : _____ Date : ____/____/____

Engineer's Representative " SYSTRA " comments : _____

Signature : _____ Date : ____/____/____

Attach all relevant particular test forms

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

يسلم الأصل للهيئة العامة للطرق والكباري ونسخه
للجهات الإستشارية والشركة المنفذة

OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL)SECTION ONE (OCTOBER - BANI MAZAR)

Date: SURVEYING

شركة الهندسة المعمول للمقاولات العامة والتوريدات
Request Number L-166

Station	Elevation Design	Slope	عرض المنطقة ليدار	16	12	8	4	0	center	4	8	12	3.50	ارتفاع عمود الردم	عرض المنطقة بين
123+380	59.587	0.00%	55.187	55.187	55.187	55.187	55.187	55.187	55.187	55.187	55.187	55.187	14.590	55.187	
ACT RIAD															
DEF.			54.978	54.978	54.978	54.978	54.978	54.978	54.978	54.978	54.978	54.978		54.978	
123+400	59.378	0.00%	54.978	54.978	54.978	54.978	54.978	54.978	54.978	54.978	54.978	54.978		54.978	
ACT RIAD															
DEF.			54.769	54.769	54.769	54.769	54.769	54.769	54.769	54.769	54.769	54.769		54.769	
123+420	59.169	0.00%	54.769	54.769	54.769	54.769	54.769	54.769	54.769	54.769	54.769	54.769		54.769	
ACT RIAD															
DEF.			54.560	54.560	54.560	54.560	54.560	54.560	54.560	54.560	54.560	54.560		54.560	
123+440	58.960	0.00%	54.560	54.560	54.560	54.560	54.560	54.560	54.560	54.560	54.560	54.560		54.560	
ACT RIAD															
DEF.			54.352	54.352	54.352	54.352	54.352	54.352	54.352	54.352	54.352	54.352		54.352	
123+460	58.752	0.00%	54.352	54.352	54.352	54.352	54.352	54.352	54.352	54.352	54.352	54.352		54.352	
ACT RIAD															
DEF.			54.143	54.143	54.143	54.143	54.143	54.143	54.143	54.143	54.143	54.143		54.143	
123+480	58.543	0.00%	54.143	54.143	54.143	54.143	54.143	54.143	54.143	54.143	54.143	54.143		54.143	
ACT RIAD															
DEF.			54.143	54.143	54.143	54.143	54.143	54.143	54.143	54.143	54.143	54.143		54.143	

استشاري المساحة
الاسم /
التوقيع /

المهندس المسؤول عن الشركة
الاسم /
التوقيع /

5.9.2023

 Employer Consultant	Electric Express Train (EET) From station 121+000 to station 124+000 OCTOBER 2014 STATION 121+000 to station 124+000 Contractor Zone From station 121+000 to station 124+000	Request for inspection Date: 8/8/2014
Disruption: ☐ ☒	Request for inspection	
Inspection time: _____	Date: _____	
Location: _____	Contractor Zone	From Station: 123+380 To Station: 123+480
References: _____	per fixation: _____	
Purpose of the inspection:		
Earthwork ☐ Grading ☐ Retention ☐ Slope Reinforcement ☐ Excavation ☐ Backfill ☐ Trench ☒ Other	Structure ☐ Foundation ☐ Superstructure ☐ Bridge ☐ Tunnel ☐ Other	Other ☐ Other ☐ Other ☐ Other ☐ Other
Date of report: _____		
Particular details: _____		
Submitted by: _____		
Layer: 1-4 Backfill		
Inspection Report:		
Surveyor: _____	Surveying systems: (-4.00)	Signature: _____
The work have found to be: _____		
Inspection Report:		
Structuring: _____ Civil Eng: _____ EIM Eng: _____ Arch. Eng: _____ Resident Engineer: _____	EnTrans Consulting: _____ Approved: _____ Date: 8/8/2014	Signature: _____
The work have found to be: _____		
Signature: _____		
Engineer's Representative "SYSTHA" comments: _____		
Signature: _____		
Attach all relevant public test forms: _____		
Approved for the work: _____		

ميول وعروض طبقات الردم _ (34 م ردم)

في حالة طريق الخدمة في الجهة اليسرى وبدون قناة جانبية

Typical Fill 1

رقم الطبقة	انخفاض الطبقة عن منسوب التسوية _ TOE	ميول الطبقة في الجانبين	العرض في الجانب الايمن	العرض في الجانب اليسر
1	0	4%	9.936	-13.436
2	0.25	4%	10.335	-13.835
3	0.5	4%	10.734	-14.234
4	0.75	4%	11.133	-14.633
5	1	4%	11.532	-15.032
6	1.25	3%	11.743	-15.188
7	1.5	2%	11.948	-15.340
8	1.75	1%	12.147	-15.487
9	2	0%	12.340	-15.630
10	2.25	0%	12.715	-16.005
11	2.5	0%	13.090	-16.380
12	2.75	0%	13.465	-16.755
13	3	0%	13.840	-17.130
14	3.25	0%	14.215	-17.505
15	3.5	0%	14.590	-17.880
16	3.75	0%	14.965	-18.255
17	4	0%	15.340	-18.630
18	4.25	0%	15.715	-19.005
19	4.5	0%	16.090	-19.380
20	4.75	0%	16.465	-19.755
21	5	0%	16.840	-20.130
22	5.25	0%	17.215	-20.505
23	5.5	0%	19.590	-20.880
24	5.75	0%	19.965	-23.255
25	6	0%	20.340	-23.630
26	6.25	0%	20.715	-24.005
27	6.5	0%	21.090	-24.380
28	6.75	0%	21.465	-24.755

مدير المشروع

م. شعبان

المرحبا بتهل خرسا نه ليرول

مدير المكتب الفني

م. عمر مصطفى مهدي

٢٠٢٣-١-٩



Electric Express Train - HSR

October Aswan Electric Express Train

Section -1 (October -Bani Mazar)

From Station 121+000

To Station 124+000

المهندسة القومية للتدريب

المهندسة القومية للتدريب
المهندسة القومية للتدريب
(GARB)

Testing Date :

5/9/2023

Company :

المهندسون المتحدون

Material :

soil

request no

L-166

Location :

123+380

123+480

CODE

Layer Thickness :

50

Level layer

3.50-

Station	123+420	123+460	DEEP	DEEP		
Hole no	1	2	3	4		
Bulk density specifid sand (gm/cm3)	1.453	1.453	1.453	1.453		
wt .of sand befor test	7966	8920	8390	8600		
WT .of sand after test	3365	3825	3775	3760		
WT . Of sand fill cone	1435	1415	1435	1415		
WT . Of sand in hole	3166	3680	3180	3425		
Volume of hole	2179	2533	2189	2357		
WT . Of sample from hole (gm)	4497	5267	4510	4883		
Bulk density of soil (gm/cm3)	2.06	2.08	2.06	2.07		

Average water content %	6.2	6	6.1	6.3		
Dry density (gm/cm3)	1.94	1.96	1.94	1.95		
Max dry density (gm/cm3)	2.04	2.04	2.04	2.04		
Compaction ratio %	95.3	96.2	95.2	95.5		

Observations

Lab Engineer :

محمد دويحي

Consultant Eng. :

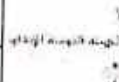
[Signature]



Employer Consultant

Electric Express Train - HSR

From October to Aswan



Request No.

L-167



OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL)

SECTION ONE (OCTOBER - BANI MAZAR)

Contractor Zone

From station 121+000 To station 124+000

Trans



GARB Consultant

Date
4/19/2023

Contractor: المهندسون المتحدون للمقاولات

Request for Inspection

We request your attendance to inspect the following works :

Discipline ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time

Date :

/ /

Location :

Contractor Zone

From Station

123+480

To Station

123+620

References

Specification:

Inspection : ☒ First ☐ Second ☐ Third

Purpose of the inspection :

1. Earthworks

- ☐ Stripping
- ☐ Natural Sub Grade
- ☐ Upper Embankment
- ☐ excavation
- ☐ Sub Grade
- ☐ Sub Ballast
- ☐ Ballast
- ☐ Embankment

2. Civil Work

- ☐ Open Channels
- ☐ Box Culvert
- ☐ Pipe Culvert
- ☐ Slope protection
- ☐ Gabion
- ☐ Side Ditches
- ☐ Other

3. Drainage

- ☐ Formation
- ☐ Sides of Excavation
- ☐ Backfilling Layers
- ☐ Slope protection

5. Structure

- ☐ Formwork
- ☐ Reinforcement
- ☐ Concreteing
- ☐ Earthing

4. Surveying

- ☒ Setting out
- ☒ Levels
- ☐ Verticality
- ☐ NGL

Others (specify):

Particular Details

Layer (-3.25) BackFill

Submitted by:

م. محمد طالت

Signature:

Inspection Report :

Surveying systems

Signature

Surveyor

The work have found to be :

☒ Approved (A)

☒ Approved as noted (B)

☐ Revised/Resubmit (C)

☐ Rejected (D)

Inspection Report :

EnTrans Consulting

Signature

Structural Eng.

Civil Eng.

E/M Eng.

Arch. Eng.

Resident Engineer

The work have found to be :

☒ Approved (A)

☒ Approved as noted (B)

☐ Revised/Resubmit (C)

☐ Rejected (D)

Signature

Date : / /

Engineer's Representative " SYSTRA " comments :

Signature :

Date : / /

Attach all relevant particular test forms

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract documents

بسم الأهل للهيئة العامة للطرق والكباري ونسج
للجهات الإستشارية والشركة المنفذة

شركة المهندسون المتحدون للمقاولات العامة والتوريدات

Data Surveying

Request Number L-167

Data Surveying			Request Number L-167										
Station	Elevation Design	Slope	عرض الطبقة يسار	16	12	8	4	center	4	8	12	عرض الطبقة يمين	ارتفاع عمود الردم
123+480	58.54	0.00%	17.505	54.393	54.393	54.393	54.393	0	54.393	54.393	12	14.215	
ACT READ			54.393								54.393	54.393	
DEF.			2	1-5	2	2	1-5	2			2	3	
123+500	58.33	0.00%	54.184	54.184	54.184	54.184	54.184	54.184	54.184	54.184	54.184	54.184	
ACT READ			54.184								54.184	54.184	
DEF.			2	1-1	2	3	3	2			2		
123+520	58.13	0.00%	53.975	53.975	53.975	53.975	53.975	53.975	53.975	53.975	53.975	53.975	
ACT READ			53.975								53.975	53.975	
DEF.			2	1-1	2	2	1-1	1-1			2-1	1-1	
123+540	57.92	0.00%	53.766	53.766	53.766	53.766	53.766	53.766	53.766	53.766	53.766	53.766	
ACT READ			53.766								53.766	53.766	
DEF.			1-5	1-1	2	2	2	1-5			1-1	1-1	
123+560	57.71	0.00%	53.558	53.558	53.558	53.558	53.558	53.558	53.558	53.558	53.558	53.558	
ACT READ			53.558								53.558	53.558	
DEF.			2	2	1-1	2	2	1-1			1-1	1-1	
123+580	57.50	0.00%	53.349	53.349	53.349	53.349	53.349	53.349	53.349	53.349	53.349	53.349	
ACT READ			53.349								53.349	53.349	
DEF.			2-1	1-1	2-1	2-1	1-1	2-1			2-1	1-1	
123+600	57.29	0.00%	53.140	53.140	53.140	53.140	53.140	53.140	53.140	53.140	53.140	53.140	
ACT READ			53.140								53.140	53.140	
DEF.			2	2	2	2	1-1	2			1-1	1-1	
123+620	57.08	0.00%	52.931	52.931	52.931	52.931	52.931	52.931	52.931	52.931	52.931	52.931	
ACT READ			52.931								52.931	52.931	
DEF.			1-1	1-1	2	1-1	2	3			2-1	2-1	

استشاري المساحة

التوقيع /
الاسم /
استشاري المساحة

المهندس المفوض من الشركة
الاسم /
التوقيع /

2023-09-09

 Employer Consultant	Electric Express Train - HSR From October to Aswan	 Trans	Request No. L-158
 Contractor: المقاولات المتكاملة والتكاملية	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - HANI MAZAR) Contractor Zone From station 123+000 To station 124+000	GARB Consultant	Date 9/8/2023

Request for Inspection

We request your attendance to inspect the following works:

Discipline: ☒ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time: _____ Date: ____/____/____

Location: Contractor Zone From Station 123+480 To Station 123+620

References: _____ Specification: _____

Inspection: ☒ First ☐ Second ☐ Third

Purpose of the inspection:

1. Earthwork

☐ Slope

☐ Natural Sub Grade

☐ Upper Embankment excavation

☐ Sub Grade

☐ Sub Base

☐ Filling

☐ Compaction

2. Civil Work

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gabion

☐ Side Drains

☐ Other

3. Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling Layers

☐ Slope protection

4. Surveying

☒ Setting out

☒ Levels

☐ Verticality

☐ NGI

5. Structure

☐ Formwork

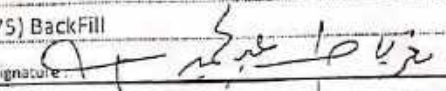
☐ Reinforcement

☐ Concreting

☐ Latching

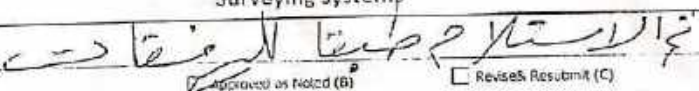
Others (specify): _____

Particular Details: Layer (-3.75) Backfill

Submitted by: م. مرقس طه Signature: 

Inspection Report:

Surveying systems

Surveyor: 

The work have found to be: ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)

Signature: _____

Inspection Report:

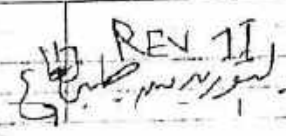
EnTrans Consulting

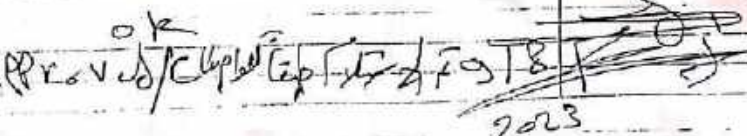
Structural Eng. _____

Civil Eng. _____

ENV Eng. _____

Arch. Eng. _____

Resident Engineer: 

Signature: 

2023

The work have found to be: ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)

Signature: _____ Date: ____/____/____

Engineer's Representative "SYSTRA" comments:

Signature: _____ Date: ____/____/____

Attach all relevant particular test forms

Approved by the contractor of his authority under the Contract or previously authorized by the contractor's authority.



Trains

Electric Express Train - HSR

October Aswan Electric Express Train

Section -1 (October -Bani Mazar)

From Station 121+000
To Station 124+000

المهندسون المتحدون

المهندسون المتحدون
للمشروعات الهندسية
(م.م.م.م.م.)

Testing Date :

5/9/2023

Company :

المهندسون المتحدون

Material :

soil

request no

L-167

Location :

123+480

123+620

CODE

Layer Thickness :

50

Level layer

3.25-

Station

123+530

123+580

123+620

DEEP

DEEP

DEEP

Hole no

1

2

3

4

5

6

Bulk density specifid sand
(gm/cm³)

1.453

1.453

1.453

1.453

1.453

1.453

wt .of sand befor test

8055

9060

9120

8745

9552

9365

WT .of sand after test

3712

4742

5122

4165

5185

4968

WT . Of sand fill cone

1435

1415

1435

1415

1415

1415

WT . Of sand in hole

2908

2903

2563

3165

2952

2982

Volume of hole

2001

1998

1764

2178

2032

2052

WT . Of sample from hole
(gm)

4238

4114

3687

4612

4211

4325

Bulk density of soil (gm/cm³)

2.12

2.06

2.09

2.12

2.07

2.11

Average water content %

6.7

6.3

6.5

6.8

6.5

6.7

Dry density (gm/cm³)

1.98

1.94

1.96

1.98

1.95

1.98

Max dry density (gm/cm³)

2.04

2.04

2.04

2.04

2.04

2.04

Compaction ratio %

97.3

95.0

96.2

97.2

95.4

96.8

Observations

Lab Engineer :

Consultant Eng. :

ميول وعروض طبقات الردم _ (34 م ردم)

في حالة طريق الخدمة في الجهة اليسرى وبدون قناة جانبية

Typical Fill 1

رقم الطبقة	انخفاض الطبقة عن منسوب التسوية _ TOE	ميل الطبقة في الجانبين	العرض في الجانب الايمن	العرض في الجانب الايسر
1	0	4%	9.936	-13.436
2	0.25	4%	10.335	-13.835
3	0.5	4%	10.734	-14.234
4	0.75	4%	11.133	-14.633
5	1	4%	11.532	-15.032
6	1.25	3%	11.743	-15.188
7	1.5	2%	11.948	-15.340
8	1.75	1%	12.147	-15.487
9	2	0%	12.340	-15.630
10	2.25	0%	12.715	-16.005
11	2.5	0%	13.090	-16.380
12	2.75	0%	13.465	-16.755
13	3	0%	13.840	-17.130
14	3.25	0%	14.215	-17.505
15	3.5	0%	14.590	-17.880
16	3.75	0%	14.965	-18.255
17	4	0%	15.340	-18.630
18	4.25	0%	15.715	-19.005
19	4.5	0%	16.090	-19.380
20	4.75	0%	16.465	-19.755
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24	5.75	0%	19.965	-23.255
25	6	0%	20.340	-23.630
26	6.25	0%	20.715	-24.005
27	6.5	0%	21.090	-24.380
28	6.75	0%	21.465	-24.755

مدير المشروع

م شعبان ۱۴۲۸ھ

الغريه به هل خبره نه خبره

مدير المكتب الفني

م عمر مصطفى إلهدي

208P-1-2

 Employer Consultant	Electric Express Train - HSR		 GARB Consultant		Request No. L- 168
	From october to Aswan				
 المهندسون المتحدون للمقاولات	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)		 Trans		Date 11 / 19 / 2023
	Contractor Zone From station 121+000 To station 124+000				

Request for Inspection

We request your attendance to inspect the following works:

Discipline : ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time : _____ Date : ____/____/____

Location :	Contractor Zone	From Station	122+800	To Station	123+000
------------	-----------------	--------------	---------	------------	---------

References : _____ Specification: _____

Inspection : ☐ First ☒ Second ☐ Third

Purpose of the inspection :

1. Earthworks

☐ Stripping

☐ Natural Sub Grade

☐ Upper Embankment

☐ excavation

☐ Sub Grade

☐ Sub Ballast

☐ Ballast

☐ Embankment

2. Civil Work

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gabion

☐ Side Ditches

☐ Other

3-Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling Layers

☐ Slope protection

4. Surveying

☒ Setting out

☒ Levels

☐ Verticality

☐ NGL

5. Structure

☐ Formwork

☐ Reinforcement

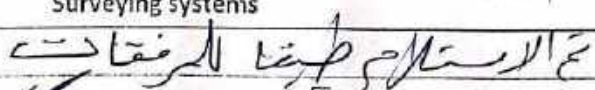
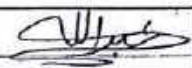
☐ Concreting

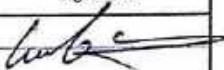
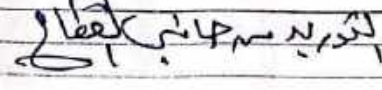
☐ Earthing

Others (specify) : _____

Particular Details : _____ Layer (-3.75) BackFill

Submitted by : د / محمد طلعت Signature : 

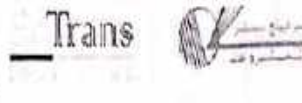
Inspection Report :	Surveying systems	Signature
Surveyor		
The work have fount to be :	☒ Approved (A) ☒ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D)	

Inspection Report :	EnTrans Consulting	Signature
Structural Eng.	Approved Approved	  11/9/23 2023
Civil Eng.		
E/M Eng.		
Arch. Eng.		
Resident Engineer		
The work have fount to be : ☐ Approved (A) ☐ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D) Signature : _____ Date : ____/____/____		
Engineer's Representative " SYSTRA " comments : _____ Signature : _____ Date : ____/____/____		

Attach all relevant particular test forms

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

بسم الأصل للهيئة العامة للطرق والكباري ونسخه
للجهات الاستشارية والشركة المنقذه

 Employer Consultant	Electric Express Train - HSR		 الهيئة العامة للنقل		Request No.
	From October to Aswan				L- 168
 المهندس المتحدون للمقاولات	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)		 GARB Consultant		Date 10/19/2023
	Contractor Zone From station 121+000 To station 124+000				

Request for Inspection

We request your attendance to inspect the following works :

Discipline :					
☐ Civil/Slope Protection		☐ Structure		☐ Drainage	
☒ Survey					
Inspection time :		Date : / /			
Location :		Contractor Zone		From Station	122+800
				To Station	123+000
References		Specification:			
Inspection : ☒ First ☐ Second ☐ Third					

Purpose of the inspection :

1. Earthworks

☐ Stripping

☐ Natural Sub Grade

☐ Upper Embankment

☐ excavation

☐ Sub Grade

☐ Sub Ballast

☐ Ballast

☐ Embankment

2. Civil Work

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gabion

☐ Side Ditches

☐ Other

3-Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling Layers

☐ Slope protection

4. Surveying

☒ Setting out

☒ Levels

☐ Verbalicity

☐ NGL

5. Structure

☐ Formwork

☐ Reinforcement

☐ Concreteing

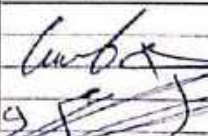
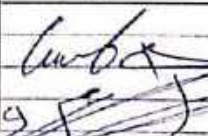
☐ Earthing

Others (specify) _____

Particular Details _____

Submitted by : محمد طلعت / م Signature : 

Inspection Report :		Surveying systems		Signature	
Surveyor		عبد السلام عبد الحفيظ			
The work have fount to be :		☒ Approved (A) ☒ Approved as Noted (B) ☐ Revised & Resubmit (C) ☐ Rejected (D)			

Inspection Report :		EnTrans Consulting		Signature	
Structural Eng.		APPROVED Rejected  10/19/2023		 10/19/2023	
Civil Eng.					
E/M Eng.					
Arch. Eng.					
Resident Engineer					
The work have fount to be :		☐ Approved (A) ☐ Approved as Noted (B) ☐ Revised & Resubmit (C) ☐ Rejected (D)			
Signature _____				Date : / /	

Engineer's Representative " SYSTRA " comments : _____

Signature : _____ Date : / /

Attach all relevant particular test forms

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

يسلم الأصل للمهنية العامة للطرق والكباري ونسخه للجهات الإستشارية والشركة المتفدله

OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)

شركة المهندسون المتحدون للتعاولات العامة والتوريدات

Request Number L- 168

Data Surveying

Station	Elevation Design	Slope	عرض الطبقة لبار	center	ارتفاع عمود الزد	عرض الطبقة لبار
122+800	65.643	0.00%	18.255	0	12	14.865
ACT.READ			60.993	60.993	60.993	60.993
DEF.						
122+820	65.434	0.00%				
ACT.READ			60.784	60.784	60.784	60.784
DEF.						
122+840	65.225	0.00%				
ACT.READ			60.575	60.575	60.575	60.575
DEF.						
122+860	65.016	0.00%				
ACT.READ			60.366	60.366	60.366	60.366
DEF.						
122+880	64.807	0.00%				
ACT.READ			60.157	60.157	60.157	60.157
DEF.						
122+900	64.599	0.00%				
ACT.READ			59.949	59.949	59.949	59.949
DEF.						
122+920	64.390	0.00%				
ACT.READ			59.740	59.740	59.740	59.740
DEF.						
122+940	64.181	0.00%				
ACT.READ			59.531	59.531	59.531	59.531
DEF.						
122+960	63.972	0.00%				
ACT.READ			59.322	59.322	59.322	59.322
DEF.						
122+980	63.763	0.00%				
ACT.READ			59.113	59.113	59.113	59.113
DEF.						
123+000	63.555	0.00%				
ACT.READ			58.905	58.905	58.905	58.905
DEF.						
123+020						
ACT.READ						
DEF.						

استشاري المساحة

الاسم /
التوقيع

المهندس المصور للشركة

الاسم /
التوقيع

 Employer Consultant	Electric Express Train - HSR From October to Aswan	 Request No. L-163
 Contractor	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE OCTOBER - BANI MAZAR Contractor Zone From station 121+000 To station 124+000	Trans GARB Consultant Date 23/8/2023

Request for Inspection

We request your attendance to inspect the following works:

Discipline: ☐ Civil/Structure Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time: _____ Date: ____/____/____

Location: Contractor Zone From Station 122+820 To Station 123+000

References: _____ Specification: _____

Inspection: ☐ First ☒ Second ☐ Third

Purpose of the inspection:

1. Earthworks

☐ Stripping

☐ Natural Sub Grade

☐ Upper Embankment

☐ Excavation

☐ Sub Grade

☐ Sub Ballast

☐ Ballast

☐ Embankment

2. Civil Work

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gation

☐ Side Ditches

☐ Other

3. Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling layers

☐ Slope protection

4. Structure

☐ Formwork

☐ Reinforcement

☐ Concrete

☐ Earthing

4. Surveying

☒ Setting out

☒ Levels

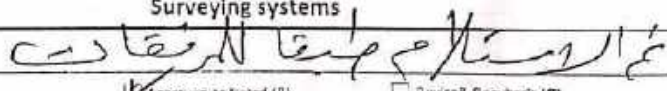
☐ Verticality

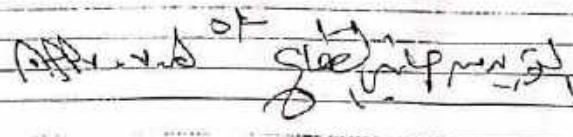
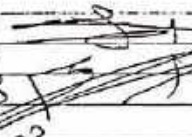
☐ NGL

Others (specify): _____

Particular Details: Layer (-4.25) BackFill

Submitted by: _____ Signature: _____

Inspection Report:	Surveying systems	Signature
Surveyor		
The work have found to be:	☒ Approved (A) ☒ Approved as Noted (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)	

Inspection Report:	EnTrans Consulting	Signature
Structural Eng.		
Civil Eng.		
E/M Eng.		
Arch. Eng.		
Resident Engineer		

The work have found to be: ☒ Approved (A) ☐ Approved as Noted (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)

Signature: _____ Date: ____/____/____

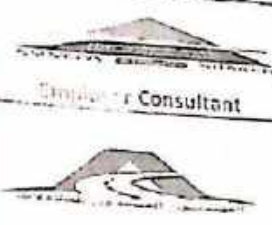
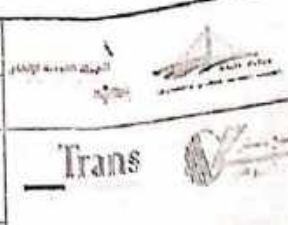
Engineer's Representative "SYSTRA" comments: _____

Signature: _____ Date: ____/____/____

Attach all relevant particular test forms

يتم الأمل لبيئة العامة للطرق والكباري ونسخه
للجهات الإستشارية والتركيب المنفذ

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents

 Consultant	Electric Express Train - HSR From October to Aswan	 Trans GARB Consultant	Request No. L- 164
	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BAHIG MAZAB) Contractor Zone From station 121+000 To station 124+000		Date 21/8/2023

Request for inspection

☐ Survey ☐ Structure ☐ Drainage ☒ Survey

Location	Contractor Zone	From Station	122+660	To Station	122+820
Item		Specification			

☒ First ☐ Second ☐ Third

1. Inspection

- ☐ 1.1
- ☐ 1.2
- ☐ 1.3
- ☐ 1.4
- ☐ 1.5
- ☐ 1.6
- ☐ 1.7
- ☐ 1.8

2. Open Channels

- ☐ Open Channels
- ☐ Box Culvert
- ☐ Pipe Culvert
- ☐ Slope protection
- ☐ Gabion
- ☐ Side Ditches
- ☐ Other

3. Retention

- ☐ Retention
- ☐ Sides of Excavation
- ☐ Retaining Walls
- ☐ Slope protection

4. Surveying

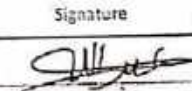
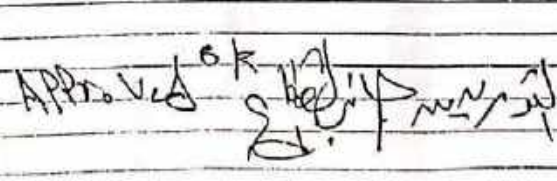
- ☒ Setting out
- ☒ Levels
- ☐ Verticality
- ☐ HGL

5. Structure

- ☐ Formwork
- ☐ Reinforcement
- ☐ Concrete
- ☐ Earthing

Layer (-4.25) Backfill

Signature: 

Inspection Report:	Surveying systems	Signature
Surveyed	تم الاستلام طبقاً للمواصفات	
The work is found to be: ☒ Approved (A) ☐ Approved as noted (B) ☐ Revised/Resubmit (C) ☐ Rejected		
Inspector	EnTrans Consulting	Signature
Structure	APPROVED  21/8/2023	 21/8/2023
Civil Eng.		
Electrical		
Arch. Eng.		
Resident Engineer		
The work is found to be: ☐ Approved (A) ☐ Approved as noted (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)		
Engineer's representative "SYSTRA" comments:		
Date: / /		

يسلم الأصل للهيئة العامة للطرق والكباري وللمحكمة
 للجهات الاستشارية والشركة المتقضة

ميول وعروض طبقات الردم _ (34 م ردم)

في حالة طريق الخدمة في الجهة اليسرى وبدون قناة جانبية

Typical Fill 1

رقم الطبقة	انخفاض الطبقة عن منسوب التسوية _ TOE	ميول الطبقة في الجانبين	العرض في الجانب الايمن	العرض في الجانب الايسر
1	0	4%	9.936	-13.436
2	0.25	4%	10.335	-13.835
3	0.5	4%	10.734	-14.234
4	0.75	4%	11.133	-14.633
5	1	4%	11.532	-15.032
6	1.25	3%	11.743	-15.188
7	1.5	2%	11.948	-15.340
8	1.75	1%	12.147	-15.487
9	2	0%	12.340	-15.630
10	2.25	0%	12.715	-16.005
11	2.5	0%	13.090	-16.380
12	2.75	0%	13.465	-16.755
13	3	0%	13.840	-17.130
14	3.25	0%	14.215	-17.505
15	3.5	0%	14.590	-17.880
16	3.75	0%	14.965	-18.255
17	4	0%	15.340	-18.630
18	4.25	0%	15.715	-19.005
19	4.5	0%	16.090	-19.380
20	4.75	0%	16.465	-19.755
21	5	0%	16.840	-20.130
22	5.25	0%	17.215	-20.505
23	5.5	0%	19.590	-20.880
24	5.75	0%	19.965	-23.255
25	6	0%	20.340	-23.630
26	6.25	0%	20.715	-24.005
27	6.5	0%	21.090	-24.380
28	6.75	0%	21.465	-24.755

مدير المشروع

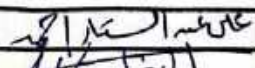
م. شعبان سعيد

العمدة محمد بن عبد الله

مدير المكتب الفني

م. عمر مصطفى امهدي

٢٠١٣-١-٩

 Trans	Electric Express Train - HSR					الهيئة القومية للإنفاق  لقطاع الطرق والكبارى و النقل النهري (GARBLT)																																																																																												
	October Aswan Electric Express Train																																																																																																	
	Section -1 (October -Bani Mazar)																																																																																																	
	From Station 121+000 To Station 124+000																																																																																																	
Testing Date :	10/9/2023		Company :		المهندسون المتحدون																																																																																													
Material :	soil																																																																																																	
Location :	122+800 TO 123+000																																																																																																	
Layer Thickness :	50		Level layer		3.75-																																																																																													
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 15%;">Station</td> <td>shallow</td> <td>shallow</td> <td>shallow</td> <td>shallow</td> <td>deeb</td> <td>deeb</td> <td>deeb</td> <td>deeb</td> </tr> <tr> <td>Hole no</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> </tr> <tr> <td>Bulk density specifid</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> </tr> <tr> <td>wt .of sand befor test</td> <td>8610</td> <td>8743</td> <td>8152</td> <td>9160</td> <td>8510</td> <td>9156</td> <td>8543</td> <td>8326</td> </tr> <tr> <td>WT .of sand after test</td> <td>4120</td> <td>4349</td> <td>4154</td> <td>4621</td> <td>4390</td> <td>4414</td> <td>4394</td> <td>4285</td> </tr> <tr> <td>WT . Of sand fill cone</td> <td>1511</td> <td>1511</td> <td>1511</td> <td>1511</td> <td>1511</td> <td>1511</td> <td>1511</td> <td>1511</td> </tr> <tr> <td>WT . Of sand in hole</td> <td>2979</td> <td>2883</td> <td>2487</td> <td>3028</td> <td>2609</td> <td>3231</td> <td>2638</td> <td>2530</td> </tr> <tr> <td>Volume of hole</td> <td>2007</td> <td>1943</td> <td>1676</td> <td>2040</td> <td>1758</td> <td>2177</td> <td>1778</td> <td>1705</td> </tr> <tr> <td>WT . Of sample from</td> <td>3990</td> <td>3910</td> <td>3410</td> <td>4121</td> <td>3480</td> <td>4350</td> <td>3620</td> <td>3510</td> </tr> <tr> <td>Bulk density of soil</td> <td>1.99</td> <td>2.01</td> <td>2.03</td> <td>2.02</td> <td>1.98</td> <td>2.00</td> <td>2.04</td> <td>2.06</td> </tr> </table>									Station	shallow	shallow	shallow	shallow	deeb	deeb	deeb	deeb	Hole no	1	2	3	4	5	6	7	8	Bulk density specifid	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	wt .of sand befor test	8610	8743	8152	9160	8510	9156	8543	8326	WT .of sand after test	4120	4349	4154	4621	4390	4414	4394	4285	WT . Of sand fill cone	1511	1511	1511	1511	1511	1511	1511	1511	WT . Of sand in hole	2979	2883	2487	3028	2609	3231	2638	2530	Volume of hole	2007	1943	1676	2040	1758	2177	1778	1705	WT . Of sample from	3990	3910	3410	4121	3480	4350	3620	3510	Bulk density of soil	1.99	2.01	2.03	2.02	1.98	2.00	2.04	2.06
Station	shallow	shallow	shallow	shallow	deeb	deeb	deeb	deeb																																																																																										
Hole no	1	2	3	4	5	6	7	8																																																																																										
Bulk density specifid	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48																																																																																										
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WT .of sand after test	4120	4349	4154	4621	4390	4414	4394	4285																																																																																										
WT . Of sand fill cone	1511	1511	1511	1511	1511	1511	1511	1511																																																																																										
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WT . Of sample from	3990	3910	3410	4121	3480	4350	3620	3510																																																																																										
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<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 15%;">O.W.C</td> <td colspan="8">7.7</td> </tr> <tr> <td>verage water content</td> <td>6.2</td> <td>6.6</td> <td>7</td> <td>6.5</td> <td>7.1</td> <td>6.7</td> <td>6.9</td> <td>7.2</td> </tr> <tr> <td>(gm/cm3)Dry density</td> <td>1.87</td> <td>1.89</td> <td>1.90</td> <td>1.90</td> <td>1.85</td> <td>1.87</td> <td>1.90</td> <td>1.92</td> </tr> <tr> <td>Max dry density</td> <td>2.04</td> <td>2.04</td> <td>2.04</td> <td>2.04</td> <td>2.04</td> <td>2.04</td> <td>2.04</td> <td>2.04</td> </tr> <tr> <td>Compaction ratio %</td> <td>91.7</td> <td>92.6</td> <td>93.2</td> <td>93.0</td> <td>90.6</td> <td>91.8</td> <td>93.4</td> <td>94.1</td> </tr> <tr> <td>Observations</td> <td colspan="8"></td> </tr> </table>									O.W.C	7.7								verage water content	6.2	6.6	7	6.5	7.1	6.7	6.9	7.2	(gm/cm3)Dry density	1.87	1.89	1.90	1.90	1.85	1.87	1.90	1.92	Max dry density	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	Compaction ratio %	91.7	92.6	93.2	93.0	90.6	91.8	93.4	94.1	Observations																																												
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Max dry density	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04																																																																																										
Compaction ratio %	91.7	92.6	93.2	93.0	90.6	91.8	93.4	94.1																																																																																										
Observations																																																																																																		
Lab Engineer :			Consultant Eng. :																																																																																															
Sign :			Sign :																																																																																															



Electric Express Train - HSR

October Aswan Electric Express Train

Section -1 (October -Bani Mazar)

From Station 121+000

To Station 124+000

الهيئة العامة للإسكان

المشروع : الطرق و البنى التحتية
(DARBY)



Testing Date :

11/9/2023

Company :

المهندسون المتحدون

Material :

soil

Location :

122+800 TO 123+000

Layer Thickness :

50

Level layer

3.75-

Station	shallow	shallow	shallow	shallow	deeb	deeb	deeb	deeb
Hole no	1	2	3	4	5	6	7	8
Bulk density specifid	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
wt .of sand befor test	10050	9570	8150	8326	9235	8751	8935	9306
WT .of sand after test	4770	4621	4295	4285	4235	4190	4135	4521
WT . Of sand fill cone	1511	1511	1511	1511	1511	1511	1511	1511
WT . Of sand in hole	3769	3438	2344	2530	3489	3050	3289	3274
Volume of hole	2540	2317	1580	1705	2351	2055	2216	2206
WT . Of sample from	5280	4960	3320	3540	4890	4280	4690	4610
Bulk density of soil	2.08	2.14	2.10	2.08	2.08	2.08	2.12	2.09

O.W.C	7.7							
verage water content	6.2	6.6	7	6.5	7.1	6.7	6.9	7.2
(gm/cm3)Dry density	1.96	2.01	1.96	1.95	1.94	1.95	1.98	1.95
Max dry density	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04
Compaction ratio %	96.0	98.5	96.3	95.6	95.2	95.7	97.0	95.6

Observations

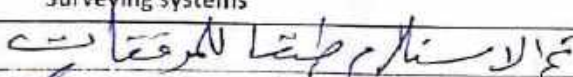
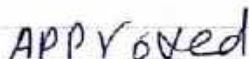
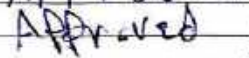
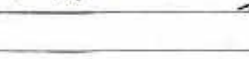
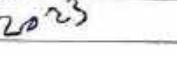
Lab Engineer :

عبدالله بن احمد

Consultant Eng. :

Sign :

Sign :

 Employer Consultant	Electric Express Train - HSR	 Request No.	L- 159
	From October to Aswan		
 Contractor: المكتب الهندسي للمقاولات	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL)	 GARB Consultant	Date 11/9/2023
	SECTION ONE (OCTOBER - BANI MAZAR)		
Contractor Zone	From station 121+000 To station 124+000		
Request for Inspection			
We request your attendance to inspect the following works:			
Discipline:	☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey		
Inspection time:	Date:		
Location:	Contractor Zone	From Station	To Station
References		122+620	122+800
Inspection:	☒ First ☐ Second ☐ Third		
Purpose of the inspection:			
1. Earthworks ☐ Stripping ☐ Natural Sub Grade ☐ Upper Embankment ☐ Excavation ☐ Sub Grade ☐ Sub Ballast ☐ Ballast ☐ Embankment	2. Civil Work ☐ Open Channels ☐ Box Culvert ☐ Pipe Culvert ☐ Slope protection ☐ Gabion ☐ Side Ditches ☐ Other	3. Drainage ☐ Formation ☐ Sides of Excavation ☐ Backfilling Layers ☐ Slope protection 5. Structure ☐ Formwork ☐ Reinforcement ☐ Concreting ☐ Earthing	4. Surveying ☒ Setting out ☒ Levels ☐ Verticality ☐ NGL
Others (specify)			
Particular Details:	Layer	(-3.75)	BackFill
Submitted by:	Signature:		
Inspection Report:	Surveying systems		Signature
Surveyor			
The work have fount to be:	☒ Approved (A) ☐ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D)		
Inspection Report:	EnTrans Consulting		Signature
Structural Eng.			
Civil Eng.			
E/M Eng.			
Arch. Eng.			
Resident Engineer			
The work have fount to be:	☐ Approved (A) ☐ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D)		
Signature	Date: / /		
Engineer's Representative " SYSTRA " comments :			
Signature :			
Date: / /			
Attach all relevant particular test forms. Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.			

Data Surveying

Station	Elevation Design	Slope	عرض الطبقة يسار	16	12	8	4	0	center	4	8	12	ارتفاع عمود الردم	عرض الطبقة يمين
122+620	67.52	0.00%	62.872	62.872	62.872	62.872	62.872	62.872	62.872	62.872	62.872	62.872	14.965	62.872
ACT.READ														
DEF.			+3	+2	-2	-2	+3	-2		-3	+2	+3		+2
122+640	67.31	0.00%	62.663	62.663	62.663	62.663	62.663	62.663	62.663	62.663	62.663	62.663		62.663
ACT.READ														
DEF.			+3	+2	-1	+2	-1	+2		+3	+2	-2		+3
122+660	67.10	0.00%	62.454	62.454	62.454	62.454	62.454	62.454	62.454	62.454	62.454	62.454		62.454
ACT.READ														
DEF.			+3	+2	-1	+3	-2	+3		+2	-2	+3		+2
122+680	66.90	0.00%	62.246	62.246	62.246	62.246	62.246	62.246	62.246	62.246	62.246	62.246		62.246
ACT.READ														
DEF.			+3	+2	-2	+3	+2	-1		+2	+3	+2		-2
122+700	66.69	0.00%	62.037	62.037	62.037	62.037	62.037	62.037	62.037	62.037	62.037	62.037		62.037
ACT.READ														
DEF.			+2	+3	+3	+2	-1	+2		+3	+2	-1		+2
122+720	66.48	0.00%	61.828	61.828	61.828	61.828	61.828	61.828	61.828	61.828	61.828	61.828		61.828
ACT.READ														
DEF.			+3	3	+2	-2	+3	+2		+3	+2	-1		+2
122+740	66.27	0.00%	61.619	61.619	61.619	61.619	61.619	61.619	61.619	61.619	61.619	61.619		61.619
ACT.READ														
DEF.			+3	+2	-1	+2	+3	+2		-1	+3	+2		-1
122+760	66.06	0.00%	61.410	61.410	61.410	61.410	61.410	61.410	61.410	61.410	61.410	61.410		61.410
ACT.READ														
DEF.			+3	+2	-1	+2	+3	+2		-2	+3	+2		-1
122+780	65.85	0.00%	61.202	61.202	61.202	61.202	61.202	61.202	61.202	61.202	61.202	61.202		61.202
ACT.READ														
DEF.			+3	+2	-2	+3	+2	-1		+2	+3	+2		-2
122+800	65.64	0.00%	60.993	60.993	60.993	60.993	60.993	60.993	60.993	60.993	60.993	60.993		60.993
ACT.READ														
DEF.														

استشاري المساحة

الاسم /

التوقيع /



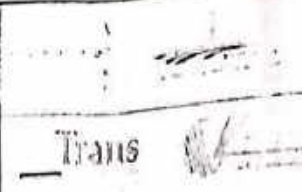
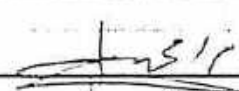
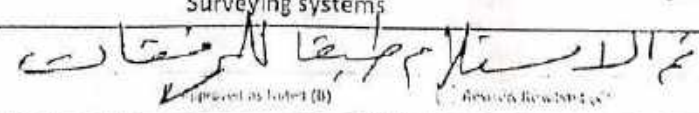
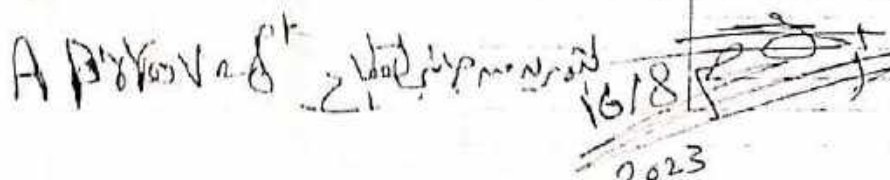
المهندس المسؤول عن المشروع

الاسم /

التوقيع /



 Consultant	Electric Express Train - MSR From October to Aswan	 Trans GAB Consultant	Request No. L 164
	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN HIGHSPEED PART 1 SECTION ONE (OCTOBER - RANI MAHMOUD) Contractor Zone From station 121+000 to station 124+000		Date 21/8/2023
	Request for inspection		
Description: ☐ Construction ☐ Structure ☐ Equipment ☒ Safety			
Location: Contractor Zone From Station 122+000 To Station 122+020		Date: / /	
Inspection: ☒ Visual ☐ Instrument ☐ Test			
Purpose: ☐ Acceptance ☐ Compliance ☐ Other			
Details: ☐ Open Channels ☐ Box Culvert ☐ Pipe Culvert ☐ Slope protection ☐ Gabion ☐ Stone Slopes ☐ Other ☐ Retention ☐ Walls of Excavation ☐ Trenchless Cavity ☐ Slope protection ☐ Bridge ☐ Roadway ☐ Roadway ☐ Culvert ☐ Building ☐ Setting out ☐ Level ☐ Verticality ☐ HGA			
Layer (-4.25) Backfill			
Inspection Report:		Surveying systems	
Signature:		Signature:	
The responsible team to be: ☒ Accepted (A)		Approved as follows (B) ☐ Revised Assessment (C) ☐ Rejected (D)	
Inspection Report:		EnTrans Consulting	
Signature:		Signature:	
Resident Engineer		Approved by:	
The work is found to be: ☐ Accepted (A) ☐ Rejected (B) ☐ Revised Assessment (C) ☐ Rejected (D)		Date: / /	
Engineer's representative "SYSTRA" comments:			
Signature:			
Date: / /			

 Employer Consultant	Electric Express Train - HSR From October to Aswan		 GARB Consultant		Request No.
					L- 159
 Contractor: المهندس المتخصص بالمقاولات	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - HANI MAZARI) Contractor Zone From Station 121+000 To station 121+000		Date 18 / 8 / 2023		
Request for Inspection					
We request your attention regarding the following works					
Discipline: ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey					
Inspection time		Date: / /			
Location:		Contractor Zone		From Station	122+460 To Station 122+660
References		Specifications:			
Inspection: ☐ First ☐ Second ☒ Third					
Purpose of the inspection:					
1. Earthwork ☐ Slope ☐ Nature Cut/Grass ☐ Upper Engineering excavation ☐ Sub-Grass ☐ Sub-Surface ☐ Sub-Grass ☐ Sub-Surface 2. Civil Work ☐ Open Channels ☐ Box Culvert ☐ Pipe Culvert ☐ Slope protection ☐ Gabion ☐ Side Ditches ☐ Other 3. Drainage ☐ Formation ☐ Sides of Excavation ☐ Backfilling Layers ☐ Slope protection 4. Surveying ☐ Setting out ☐ Levels ☐ Verticality ☐ NGL 5. Structure ☐ Reinforcement ☐ Reinforcement ☐ Concreting ☐ Earning					
Station: / Particular Details: Layer (-4.25) Backfill					
Submitted by: /		Signature: 			
Inspection Report:		Surveying systems		Signature	
Surveyed:		 Approved as noted (B)		 Approved as noted (B)	
The work have found to be:		Approved (A) ☐ Approved as noted (B) ☐ Revised & Resubmit (C) ☐ Rejected (D) ☐			
Inspection Report:		EnTrans Consulting		Signature	
Structural Eng Civil Eng Inst. Eng Arch. Eng Resident Engineer		 Approved as noted (B)			
The work have found to be:		Approved (A) ☐ Approved as noted (B) ☐ Revised & Resubmit (C) ☐ Rejected (D) ☐			
Signature:		Date: / /			
Engineer's Representative "SYSTRA" comments:					
Signature: _____ Date: / /					
Attach all relevant particular test forms Approved as noted (B)					

تمت الاصل للهيئة العامة للطرق والكباري وشركة
 الهندسة والاستشارات وشركة الهندسة

ميول وعروض طبقات الردم _ (34 م ردم)

في حالة طريق الخدمة في الجهة اليسرى وبدون قناة جانبية

Typical Fill 1

رقم الطبقة	انخفاض الطبقة عن منسوب التسوية _ TOE	ميول الطبقة في الجانبين	العرض في الجانب الايمن	العرض في الجانب الايسر
1	0	4%	9.936	-13.436
2	0.25	4%	10.335	-13.835
3	0.5	4%	10.734	-14.234
4	0.75	4%	11.133	-14.633
5	1	4%	11.532	-15.032
6	1.25	3%	11.743	-15.188
7	1.5	2%	11.948	-15.340
8	1.75	1%	12.147	-15.487
9	2	0%	12.340	-15.630
10	2.25	0%	12.715	-16.005
11	2.5	0%	13.090	-16.380
12	2.75	0%	13.465	-16.755
13	3	0%	13.840	-17.130
14	3.25	0%	14.215	-17.505
15	3.5	0%	14.590	-17.880
16	3.75	0%	14.965	-18.255
17	4	0%	15.340	-18.630
18	4.25	0%	15.715	-19.005
19	4.5	0%	16.090	-19.380
20	4.75	0%	16.465	-19.755
21	5	0%	16.840	-20.130
22	5.25	0%	17.215	-20.505
23	5.5	0%	19.590	-20.880
24	5.75	0%	19.965	-23.255
25	6	0%	20.340	-23.630
26	6.25	0%	20.715	-24.005
27	6.5	0%	21.090	-24.380
28	6.75	0%	21.465	-24.755

مدير المشروع

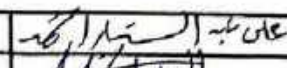
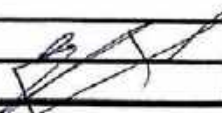
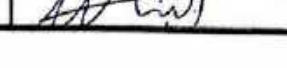
م شعبان سعيد

الحرمة بهل حرمه لغيره

مدير المكتب الفني

م عمر مصطفى مهدي

٢٠١٩-١-٩

 Trains	Electric Express Train - HSR				الهيئة القومية للإنفاذ 																																																																								
	October Aswan Electric Express Train																																																																												
	Section -1 (October -Bani Mazar)																																																																												
	From Station 121+000 To Station 124+000																																																																												
Testing Date :		12/9/2023		Company :		المهندسون المتحدون																																																																							
Material :		soil																																																																											
Location :		122+620 TO 122+800																																																																											
Layer Thickness :		50		Level layer		3.75-																																																																							
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 15%;">Station</td> <td style="width: 10%;">shallow</td> <td style="width: 10%;">shallow</td> <td style="width: 10%;">shallow</td> <td style="width: 10%;">deeb</td> <td style="width: 10%;">deeb</td> <td style="width: 10%;">deeb</td> </tr> <tr> <td>Hole no</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td>Bulk density specifid</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> </tr> <tr> <td>wt .of sand befor test</td> <td>7991</td> <td>8430</td> <td>10065</td> <td>9432</td> <td>8431</td> <td>8436</td> </tr> <tr> <td>WT .of sand after test</td> <td>4190</td> <td>4271</td> <td>5395</td> <td>5094</td> <td>4231</td> <td>4456</td> </tr> <tr> <td>WT . Of sand fill cone</td> <td>1363</td> <td>1370</td> <td>1363</td> <td>1370</td> <td>1363</td> <td>1370</td> </tr> <tr> <td>WT . Of sand in hole</td> <td>2438</td> <td>2789</td> <td>3307</td> <td>2968</td> <td>2837</td> <td>2610</td> </tr> <tr> <td>Volume of hole</td> <td>1643</td> <td>1879</td> <td>2228</td> <td>2000</td> <td>1912</td> <td>1759</td> </tr> <tr> <td>WT . Of sample from</td> <td>3406</td> <td>4007</td> <td>4670</td> <td>4178</td> <td>3974</td> <td>3705</td> </tr> <tr> <td>Bulk density of soil</td> <td>2.07</td> <td>2.13</td> <td>2.10</td> <td>2.09</td> <td>2.08</td> <td>2.11</td> </tr> </table>								Station	shallow	shallow	shallow	deeb	deeb	deeb	Hole no	1	2	3	4	5	6	Bulk density specifid	1.48	1.48	1.48	1.48	1.48	1.48	wt .of sand befor test	7991	8430	10065	9432	8431	8436	WT .of sand after test	4190	4271	5395	5094	4231	4456	WT . Of sand fill cone	1363	1370	1363	1370	1363	1370	WT . Of sand in hole	2438	2789	3307	2968	2837	2610	Volume of hole	1643	1879	2228	2000	1912	1759	WT . Of sample from	3406	4007	4670	4178	3974	3705	Bulk density of soil	2.07	2.13	2.10	2.09	2.08	2.11
Station	shallow	shallow	shallow	deeb	deeb	deeb																																																																							
Hole no	1	2	3	4	5	6																																																																							
Bulk density specifid	1.48	1.48	1.48	1.48	1.48	1.48																																																																							
wt .of sand befor test	7991	8430	10065	9432	8431	8436																																																																							
WT .of sand after test	4190	4271	5395	5094	4231	4456																																																																							
WT . Of sand fill cone	1363	1370	1363	1370	1363	1370																																																																							
WT . Of sand in hole	2438	2789	3307	2968	2837	2610																																																																							
Volume of hole	1643	1879	2228	2000	1912	1759																																																																							
WT . Of sample from	3406	4007	4670	4178	3974	3705																																																																							
Bulk density of soil	2.07	2.13	2.10	2.09	2.08	2.11																																																																							
O.W.C		7.7																																																																											
verage water content		6.2	6	6.5	6	5.9	6																																																																						
Dry density		1.95	2.01	1.97	1.97	1.96	1.99																																																																						
Max dry density		2.04	2.04	2.04	2.04	2.04	2.04																																																																						
Compaction ratio %		95.7	98.6	96.5	96.6	96.2	97.4																																																																						
Observations																																																																													
Lab Engineer :				Consultant Eng. :																																																																									
Sign :				Sign :																																																																									

 Employer Consultant	Electric Express Train - HSR From october to Aswan		 الهيئة العامة للنقل		Request No. L- 170
	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR) Contractor Zone From station 121+000 To station 124+000		 Trans		Date 12 / 9 / 2023
GARB Consultant					

Request for Inspection

We request your attendance to inspect the following works :

Discipline : ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time : _____ Date : ____/____/____

Location : Contractor Zone From Station 122+460 To Station 122+620

References _____ Specification: _____

Inspection : ☒ First ☐ Second ☐ Third

Purpose of the inspection :

1. Earthworks

☐ Stripping

☐ Natural Sub Grade

☐ Upper Embankment

☐ excavation

☐ Sub Grade

☐ Sub Ballast

☐ Ballast

☐ Embankment

2. Civil Work

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gabion

☐ Side Ditches

☐ Other

3-Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling Layers

☐ Slope protection

4. Surveying

☒ Setting out

☒ Levels

☐ Verticality

☐ NGL

5. Structure

☐ Formwork

☐ Reinforcement

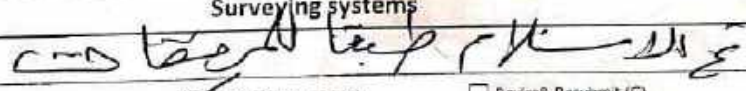
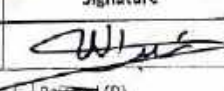
☐ Concreteing

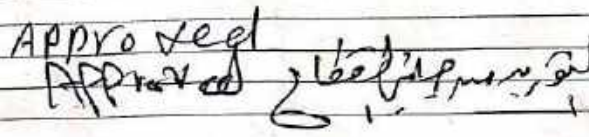
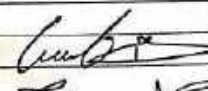
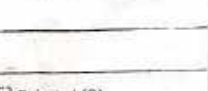
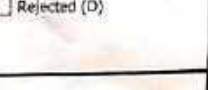
☐ Earthing

Others (specify) _____

Particular Details Layer (-3.75) BackFill

Submitted by : / محمد طالت Signature: 

Inspection Report :		Surveying systems	Signature
Surveyor			
The work have found to be :	☒ Approved (A) ☒ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D)		

Inspection Report :		EnTrans Consulting	Signature
Structural Eng.	Approved  18/9/2023		
Civil Eng.			
E/M Eng.			
Arch. Eng.			
Resident Engineer			
The work have found to be :		☐ Approved (A) ☐ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D)	
Signature _____		Date : ____/____/____	
Engineer's Representative " SYSTRA " comments : _____			
Signature : _____		Date : ____/____/____	

Attach all relevant particular test forms

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

يُسلم الأصل للهيئة العامة للطرق والكباري ونسخه للجهات الاستشارية والشركة المنفذة

Data Surveying

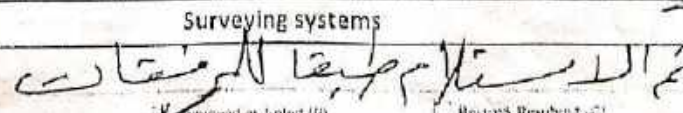
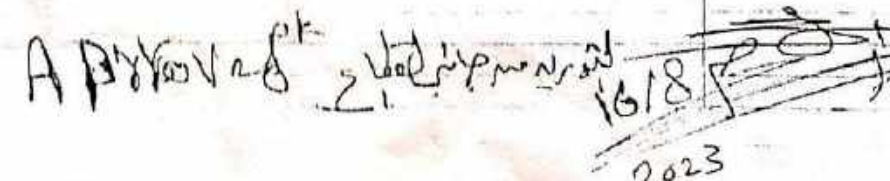
شركة المهندسون المتحدون للمقاولات العامة والتوريدات

Request Number L-170

Station			Elevation Design	Slope	عرض الطبقة بشار										center		ارتفاع عمود الردم				عرض الطبقة بيتن	
					18.255	16	12	8	4	0	4	8	12	14.965								
122+460			69.19	0.00%	64.543	64.543	64.543	64.543	64.543	64.543	64.543	64.543	64.543	64.543	64.543							
ACT.READ																						
DEF.					+3	+2	-1	+2	-1	+2	-1	+2	-2	+2								
122+480			68.98	0.00%	64.334	64.334	64.334	64.334	64.334	64.334	64.334	64.334	64.334	64.334	64.334							
ACT.READ																						
DEF.					+3	-2	-2	+3	+2	-1	+2	-1	+2	-1								
122+500			68.78	0.00%	64.125	64.125	64.125	64.125	64.125	64.125	64.125	64.125	64.125	64.125	64.125							
ACT.READ																						
DEF.					+3	+3	+2	-1	+2	-1	+2	-1	+2	+3								
122+520			68.57	0.00%	63.916	63.916	63.916	63.916	63.916	63.916	63.916	63.916	63.916	63.916	63.916							
ACT.READ																						
DEF.					+3	+2	-1	+2	-1	+2	+3	+2	-1	+2								
122+540			68.36	0.00%	63.707	63.707	63.707	63.707	63.707	63.707	63.707	63.707	63.707	63.707	63.707							
ACT.READ																						
DEF.					-2	-1	+2	+3	+2	-1	+2	+3	+2	-1								
122+560			68.15	0.00%	63.499	63.499	63.499	63.499	63.499	63.499	63.499	63.499	63.499	63.499	63.499							
ACT.READ																						
DEF.					+2	+3	+2	-1	+2	-2	+3	+2	-1	+2								
122+580			67.94	0.00%	63.290	63.290	63.290	63.290	63.290	63.290	63.290	63.290	63.290	63.290	63.290							
ACT.READ																						
DEF.					-2	+3	+2	-1	+2	+3	+2	-1	+2	+3								
122+600			67.73	0.00%	63.081	63.081	63.081	63.081	63.081	63.081	63.081	63.081	63.081	63.081	63.081							
ACT.READ																						
DEF.					+3	+2	-1	+2	+3	+2	-1	+2	-2	+3								
122+620			67.52	0.00%	62.872	62.872	62.872	62.872	62.872	62.872	62.872	62.872	62.872	62.872	62.872							
ACT.READ																						
DEF.																						

استشاري المساحة
الاسم / الموقع
التوقيع

المهندس المفوض من الشركة
الاسم / الموقع
التوقيع

 Employer Consultant	Electric Express Train - HSR From October to Aswan		 GARB Consultant		Request No. L- 159
	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR) Contractor Zone From station 121+000 To station 124+000				Date 16 / 8 / 2023
Request for Inspection					
We request your attendance to inspect the following works:					
Discipline: ☐ Civil/Steps Protection ☐ Structure ☐ Drainage ☒ Surveying					
Inspection time:		Date: / /			
Location:		Contractor Zone		From Station	To Station
				122+460	122+660
References:		Specification:			
Inspection: ☒ First ☐ Second ☐ Third					
Purpose of the inspection:					
1. Earthworks ☐ Striping ☐ Natural Sub-Grade ☐ Upper Embankment ☐ Excavation ☐ Sub-Grade ☐ Sub-Bottom ☐ Ballast ☐ Embankment		2. Civil Work ☐ Open Channels ☐ Box Culvert ☐ Pipe Culvert ☐ Slope protection ☐ Gabion ☐ Side Ditches ☐ Other		3. Drainage ☐ Formation ☐ Sides of Excavation ☐ Backfilling Layers ☐ Slope protection 5. Structure ☐ Formwork ☐ Reinforcement ☐ Concreting ☐ Easement	
		4. Surveying ☐ Setting out ☐ Levels ☐ Verticality ☐ NGL			
Details:					
Particular Details: Layer (-4.25) BackFill					
Submitted by:		Signature:			
Inspection Report:		Surveying systems		Signature	
Surveyed by:					
The work have found to be:		☒ Approved as noted (A) ☐ Revised/Resubmit (C) ☐ Rejected (D)			
Inspection Report:		EnTrans Consulting		Signature	
Structural Eng Civil Eng T & E Eng Arch. Eng Resident Engineer					
The work have found to be:		☒ Approved as noted (A) ☐ Approved for noted (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)			
Signature:		Date: / /			
Engineer's Representative "SYSTRA" comments:					
Signature:					
Date: / /					
Attach all relevant particular test forms.					
Approve and release Contractor of his works under the contract or instruct to start work until completion to Contract Documents.					

بسم الله الرحمن الرحيم
 عملنا الاصل للهيئة العامة للطرق والكباري ولقائه
 المهندس الاستشاري والشركة المتقدمة

ميول وعروض طبقات الردم _ (34 م ردم)

Typical Fill 1

في حالة طريق الخدمة في الجهة اليسرى وبدون قناة جانبية

رقم الطبقة	انخفاض الطبقة عن منسوب التسوية _ TOE	ميول الطبقة في الجانبين	العرض في الجانب الايمن	العرض في الجانب الايسر
1	0	4%	9.936	-13.436
2	0.25	4%	10.335	-13.835
3	0.5	4%	10.734	-14.234
4	0.75	4%	11.133	-14.633
5	1	4%	11.532	-15.032
6	1.25	3%	11.743	-15.188
7	1.5	2%	11.948	-15.340
8	1.75	1%	12.147	-15.487
9	2	0%	12.340	-15.630
10	2.25	0%	12.715	-16.005
11	2.5	0%	13.090	-16.380
12	2.75	0%	13.465	-16.755
13	3	0%	13.840	-17.130
14	3.25	0%	14.215	-17.505
15	3.5	0%	14.590	-17.880
16	3.75	0%	14.965	-18.255
17	4	0%	15.340	-18.630
18	4.25	0%	15.715	-19.005
19	4.5	0%	16.090	-19.380
20	4.75	0%	16.465	-19.755
21	5	0%	16.840	-20.130
22	5.25	0%	17.215	-20.505
23	5.5	0%	19.590	-20.880
24	5.75	0%	19.965	-23.255
25	6	0%	20.340	-23.630
26	6.25	0%	20.715	-24.005
27	6.5	0%	21.090	-24.380
28	6.75	0%	21.465	-24.755

مدير المشروع

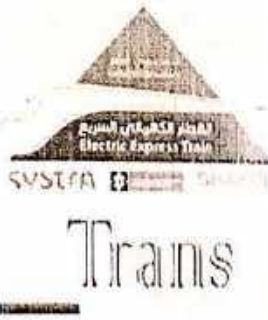
م شعبان سعيد

الحرر بنهول عرض نه لصيل

مدير المكتب الفني

م عمر مصطفى امهدي

١٤٤٣-١-٦



Electric Express Train - HSR

October Aswan Electric Express Train

Section -1 (October -Bani Mazar)

From Station 121+000

To Station 124+000

المهندسون المتحدون

المهندسون المتحدون

Testing Date :

18/9/2023

Company :

المهندسون المتحدون

Material :

soil

QT-9

Location :

122+460 TO 122+620

Layer Thickness :

50

Level layer

3.75-

Station	shallow	shallow	shallow	deeb	deeb	deeb
Hole no	1	2	3	4	5	6
Bulk density specific	1.48	1.48	1.48	1.48	1.48	1.48
wt .of sand befor test	8610	9530	9395	10070	9950	9030
WT .of sand after test	3610	4851	4345	5370	5007	4630
WT . Of sand fill cone	1511	1511	1511	1511	1511	1511
WT . Of sand in hole	3489	3168	3539	3189	3432	2889
Volume of hole	2351	2135	2385	2149	2313	1947
WT . Of sample from	4920	4410	4970	4390	4810	4010
Bulk density of soil	2.09	2.07	2.08	2.04	2.08	2.06

O.W.C	7.1					
verage water content	6.2	6	6.5	6	5.9	6
Dry density	1.97	1.95	1.96	1.93	1.96	1.94
Max dry density	2.01	2.01	2.01	2.01	2.01	2.01
Compaction ratio %	98.0	97.0	97.4	95.9	97.7	96.7

Observations

Lab Engineer :

Sign :

Consultant Eng. :

Sign :

 Employer Consultant	Electric Express Train - HSR				Request No. L- 171
	From October to Aswan				
 Contractor: المهندسون المتحدون للمقاولات	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)				Date 18/9/2023
	Contractor Zone From station 121+000 To station 124+000		GARB Consultant		

Request for Inspection

We request your attendance to inspect the following works:

Discipline : ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time : _____ Date : ____/____/____

Location : **Contractor Zone** From Station **122+340** To Station **122+400**

References : _____ Specifications: _____

Inspection : ☒ First ☐ Second ☐ Third

Purpose of the inspection :

1. Earthworks

☐ Stripping

☐ Natural Sub Grade

☐ Upper Embankment

☐ excavation

☐ Sub Grade

☐ Sub Ballast

☐ Ballast

☐ Embankment

2. Civil Work

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gabion

☐ Side Ditches

☐ Other

3-Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling Layers

☐ Slope protection

5. Structure

☐ Formwork

☐ Reinforcement

☐ Concreteing

☐ Earthing

4. Surveying

☒ Setting out

☒ Levels

☐ Verticality

☐ NGL

Others (specify) _____

Particular Details _____

Submitted by : محمد طلعت Signature : [Signature]

Inspection Report :		Surveying systems	Signature
Surveyor	<u>نور الدين حبيب</u> <u>نور الدين حبيب</u>		<u>[Signature]</u>
The work have found to be :	☒ Approved (A) ☒ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D)		

Inspection Report :		EnTrans Consulting	Signature
Structural Eng.	<u>Approved</u> <u>Approved</u>		<u>[Signature]</u>
Civil Eng.			
E/M Eng.			
Arch. Eng.			
Resident Engineer			<u>2023</u>

The work have found to be : ☐ Approved (A) ☐ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D)

Signature : _____ Date : ____/____/____

Engineer's Representative " SYSTRA " comments : _____

Signature : _____ Date : ____/____/____

Attach all relevant particular test forms

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

بسم الأصل للهيئة العامة للطرق والكباري ونسخه
للجهات الإستشارية والشركة المنفذة

شركة المهندسون المتحدون للمقاولات العامة والتوريدات

Data Surveying

Request Number L-171

Data Surveying			Request Number L-171										3.50		ارتفاع عود الازم		ارتفاع الطبقة يمين	
Station	Elevation Design	Slope	عرض الطبقة يسار										center					
122+340	70.45	0.00%	17.880	16	12	8	4	0	4	8	12	14.590						
ACT.READ			66.046	66.046	66.046	66.046	66.046	66.046	66.046	66.046	66.046	66.046	66.046	66.046	66.046	66.046		
DEF.			+3	+2	-1	+2	-1	+2	+3	+2	-2	+2						
122+360	70.24	0.00%	65.837	65.837	65.837	65.837	65.837	65.837	65.837	65.837	65.837	65.837	65.837	65.837	65.837	65.837		
ACT.READ																		
DEF.			-1	+2	-1	+2	+2	+2	-2	+2	-1	+2	-1	+2	-1			
122+380	70.03	0.00%	65.628	65.628	65.628	65.628	65.628	65.628	65.628	65.628	65.628	65.628	65.628	65.628	65.628	65.628		
ACT.READ																		
DEF.			-1	+2	-2	+3	+2	-1	+2	-1	+2	-1	+2	-2	-2			
122+400	69.82	0.00%	65.419	65.419	65.419	65.419	65.419	65.419	65.419	65.419	65.419	65.419	65.419	65.419	65.419	65.419		
ACT.READ																		
DEF.			-3	+2	-1	+2	-2	+3	+4	+2	-2	+3						
122+420	69.61	0.00%	65.210	65.210	65.210	65.210	65.210	65.210	65.210	65.210	65.210	65.210	65.210	65.210	65.210	65.210		
ACT.READ																		
DEF.			+3	+2	-1	+2	+3	+2	+3	+2	+3	+2	-1	+2	+2			
122+440	69.40	0.00%	65.002	65.002	65.002	65.002	65.002	65.002	65.002	65.002	65.002	65.002	65.002	65.002	65.002	65.002		
ACT.READ																		
DEF.			+3	+2	-1	+2	+3	+2	-2	+4	+2	-2						
122+460	69.19	0.00%	64.043	64.043	64.043	64.043	64.043	64.043	64.043	64.043	64.043	64.043	64.043	64.043	64.043	64.043		
ACT.READ																		
DEF.			+3	+2	-1	+2	+3	+2	-1	+2	+3	+2	-2	+2				

استشاري المساحة

الاسم /

التوقيع /



المهندس المفوض من الشركة

الاسم /

التوقيع /



 Employer Consultant	Electric Express Train - HSR From october to Aswan	 Trans	Request No. L- 160
 Contractor: المهندس المتحدون للمقاولات	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR) Contractor Zone From station 121+000 To station 124+000	GARB Consultant	Date 15/10/2023

Request for Inspection

We request your attendance to inspect the following works:

Discipline: ☒ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time: _____ Date: ____/____/____

Location:	Contractor Zone	From Station	122+340	To Station	122+460
-----------	-----------------	--------------	---------	------------	---------

References: _____ Specification: _____

Inspection: ☒ First ☐ Second ☐ Third

Purpose of the Inspection:

1. Earthworks

☐ Stripping

☐ Natural Sub Grade

☐ Upper Embankment

☐ excavation

☐ Sub Grade

☐ Sub Ballast

☐ Ballast

☒ Embankment

2. Civil Work

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gabion

☐ Side Ditches

☐ Other

3. Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling Layers

☐ Slope protection

5. Structure

☐ Formwork

☐ Reinforcement

☐ Concreteing

☐ Earthing

4. Surveying

☒ Setting out

☒ Levels

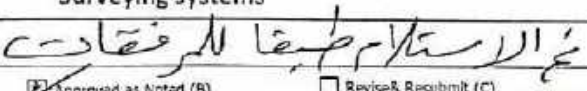
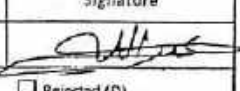
☐ Verticality

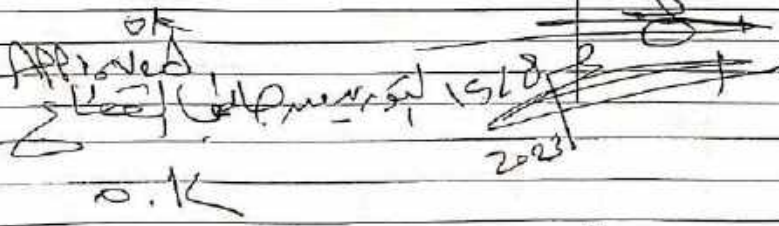
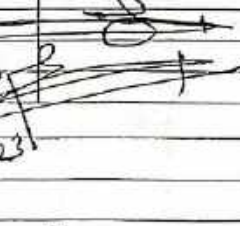
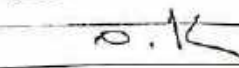
☐ NGL

Others (specify) _____

Particular Details _____

Submitted by: محمد طالت Signature: _____

Inspection Report:	Surveying systems	Signature
Surveyor	 محمد طالت	
The work have fount to be:	☒ Approved (A) ☒ Approved as Noted (B) ☐ Revise & Resubmit (C) ☐ Rejected (D)	

Inspection Report:	EnTrans Consulting	Signature
Structural Eng.	 Approved 15/10/2023	
Civil Eng.		
E/M Eng.		
Arch. Eng.		
Resident Engineer		

The work have fount to be: ☐ Approved (A) ☐ Approved as Noted (B) ☐ Revise & Resubmit (C) ☐ Rejected (D)

Signature: _____ Date: **16/10/2023**

Engineer's Representative " SYSTRA " comments: _____

Signature: _____ Date: ____/____/____

Attach all relevant particular test forms

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

يُسلم الأصل للهيئة العامة للطرق والكباري وتسخره للجهات الاستشارية والشركة المنفذة

ميول وعروض طبقات الردم _ (34 م ردم)

Typical Fill 1

في حالة طريق الخدمة في الجهة اليسرى وبدون قناة جانبية

رقم الطبقة	انخفاض الطبقة عن منسوب التسوية _ TOE	ميول الطبقة في الجانبين	العرض في الجانب الايمن	العرض في الجانب الايسر
1	0	4%	9.936	-13.436
2	0.25	4%	10.335	-13.835
3	0.5	4%	10.734	-14.234
4	0.75	4%	11.133	-14.633
5	1	4%	11.532	-15.032
6	1.25	3%	11.743	-15.188
7	1.5	2%	11.948	-15.340
8	1.75	1%	12.147	-15.487
9	2	0%	12.340	-15.630
10	2.25	0%	12.715	-16.005
11	2.5	0%	13.090	-16.380
12	2.75	0%	13.465	-16.755
13	3	0%	13.840	-17.130
14	3.25	0%	14.215	-17.505
15	3.5	0%	14.590	-17.880
16	3.75	0%	14.965	-18.255
17	4	0%	15.340	-18.630
18	4.25	0%	15.715	-19.005
19	4.5	0%	16.090	-19.380
20	4.75	0%	16.465	-19.755
21	5	0%	16.840	-20.130
22	5.25	0%	17.215	-20.505
23	5.5	0%	19.590	-20.880
24	5.75	0%	19.965	-23.255
25	6	0%	20.340	-23.630
26	6.25	0%	20.715	-24.005
27	6.5	0%	21.090	-24.380
28	6.75	0%	21.465	-24.755

مدير المشروع

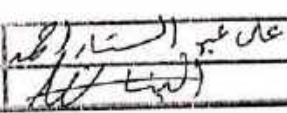
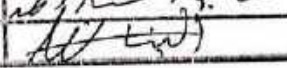
م شعبان سعيد

التمويل بهل خرمه كبريل

مدير المكتب الفني

م عمر مصطفى مهدي

٢٠١٣-١-٩

 Trans	Electric Express Train - HSR				الهيئة العامة للإسكان جمهورية مصر العربية وزارة النقل والبنية التحتية (CARILL)																																																																								
	October Aswan Electric Express Train																																																																												
	Section -1 (October -Bani Mazar)																																																																												
	From Station 121+000 To Station 124+000																																																																												
Testing Date :		18/9/2023		Company :		المهندسون المتحدون																																																																							
Material :		soil		QT-9																																																																									
Location :		122+340 TO 122+460																																																																											
Layer Thickness :		50		Level layer		3.50-																																																																							
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 15%;">Station</td> <td style="width: 15%;">shallow</td> <td style="width: 15%;">shallow</td> <td style="width: 15%;">deeb</td> <td style="width: 15%;">deeb</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td>Hole no</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td></td> <td></td> </tr> <tr> <td>Bulk density specifid</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td></td> <td></td> </tr> <tr> <td>wt .of sand befor test</td> <td>8610</td> <td>9530</td> <td>9445</td> <td>9920</td> <td></td> <td></td> </tr> <tr> <td>WT .of sand after test</td> <td>3610</td> <td>4791</td> <td>4345</td> <td>5260</td> <td></td> <td></td> </tr> <tr> <td>WT . Of sand fill cone</td> <td>1511</td> <td>1511</td> <td>1511</td> <td>1511</td> <td></td> <td></td> </tr> <tr> <td>WT . Of sand in hole</td> <td>3489</td> <td>3228</td> <td>3589</td> <td>3149</td> <td></td> <td></td> </tr> <tr> <td>Volume of hole</td> <td>2351</td> <td>2175</td> <td>2418</td> <td>2122</td> <td></td> <td></td> </tr> <tr> <td>WT . Of sample from</td> <td>4920</td> <td>4410</td> <td>4970</td> <td>4390</td> <td></td> <td></td> </tr> <tr> <td>Bulk density of soil</td> <td>2.09</td> <td>2.03</td> <td>2.06</td> <td>2.07</td> <td></td> <td></td> </tr> </table>								Station	shallow	shallow	deeb	deeb			Hole no	1	2	3	4			Bulk density specifid	1.48	1.48	1.48	1.48			wt .of sand befor test	8610	9530	9445	9920			WT .of sand after test	3610	4791	4345	5260			WT . Of sand fill cone	1511	1511	1511	1511			WT . Of sand in hole	3489	3228	3589	3149			Volume of hole	2351	2175	2418	2122			WT . Of sample from	4920	4410	4970	4390			Bulk density of soil	2.09	2.03	2.06	2.07		
Station	shallow	shallow	deeb	deeb																																																																									
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Sign :				Sign :																																																																									

 Employer Consultant	Electric Express Train - HSR From October to Aswan	 Trans	Request No. L-172
	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR) Contractor Zone From station 121+000 To station 124+000		Request for Inspection We request your attendance to inspect the following works: Discipline : ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey Inspection time : _____ Date : ____/____/____ Location : Contractor Zone From Station 122+180 To Station 122+340 References _____ Specification: _____ Inspection : ☐ First ☒ Second ☐ Third Purpose of the inspection : 1. Earthworks ☐ Stripping ☐ Natural Sub Grade ☐ Upper Embankment ☐ Excavation ☐ Sub Grade ☐ Sub Ballast ☐ Ballast ☐ Embankment 2. Civil Work ☐ Open Channels ☐ Box Culvert ☐ Pipe Culvert ☐ Slope protection ☐ Gabion ☐ Side Ditches ☐ Other: _____ 3. Drainage ☐ Formation ☐ Sides of Excavation ☐ Backfilling Layers ☐ Slope protection 4. Surveying ☒ Setting out ☒ Levels ☐ Verticality ☐ NGL 5. Structure ☐ Formwork ☐ Reinforcement ☐ Concreting ☐ Erection Others (specify) _____ Particular Details _____ Submitted by : _____ / محمد طالت _____ Signature : _____
Inspection Report : Surveyor : _____ Signature : _____ The work have found to be : ☐ Approved (A) ☐ Approved as Noted (B) ☐ Revised Resubmit (C) ☐ Rejected (D)			
Inspection Report : Structural Eng. _____ Civil Eng. _____ CVM Eng. _____ Arch. Eng. _____ Resident Engineer _____ The work have found to be : ☐ Approved (A) ☐ Approved as Noted (B) ☐ Revised Resubmit (C) ☐ Rejected (D) Signature : _____ Date : ____/____/____			
Engineer's Representative "SYSTRA" comments : _____ _____ _____ Signature : _____ Date : ____/____/____			
Attach all relevant particular test forms Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.			

بسم الأصل للهيئة العامة للطرق والكباري
ونسخه للجهات الاستشارية والشركة المنفذة

 Employer Consultant	Electric Express Train - HSR From october to Aswan	 Request No. L-172	
 Contractor: المهندسون المتحدون للمقاولات	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR) Contractor Zone From station 121+000 To station 124+000	 Trans Consulting GARB Consultant	Date 19/ 9 /2023

Request for Inspection

We request your attendance to inspect the following works :

Discipline : ☐ Civil/Slope Protection ☐ Structure ☐ Drainage ☒ Survey

Inspection time : _____ Date : ____/____/____

Location : **Contractor Zone** From Station **122+180** To Station **122+340**

References : _____ Specification : _____

Inspection : ☒ First ☐ Second ☐ Third

Purpose of the Inspection :

1. Earthwork

☐ Stripping

☐ Natural Sub Grade

☐ Upper Embankment

☐ excavation

☐ Sub Grade

☐ Sub Ballast

☐ Ballast

☐ Embankment

2. Civil Work

☐ Open Channels

☐ Box Culvert

☐ Pipe Culvert

☐ Slope protection

☐ Gabion

☐ Side Ditches

☐ Other

3. Drainage

☐ Formation

☐ Sides of Excavation

☐ Backfilling Layers

☐ Slope protection

5. Structure

☐ Formwork

☐ Reinforcement

☐ Concreteing

☐ Earthing

4. Surveying

☒ Setting out

☒ Levels

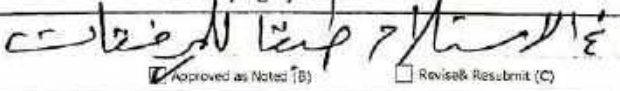
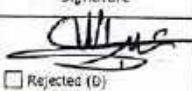
☐ Verticality

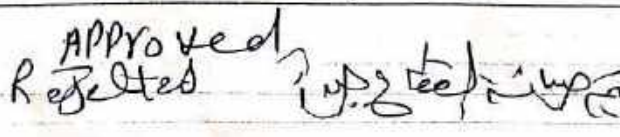
☐ NGL

Others (specify) _____

Particular Details _____ **Layer (-3.5) BackFill**

Submitted by : محمد طلعت Signature : _____

Inspection Report :	Surveying systems	Signature
Surveyor		
The work have fount to be :	☐ Approved (A) ☒ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D)	

Inspection Report :	EnTrans Consulting	Signature
Structural Eng. Civil Eng. E/M Eng. Arch. Eng. Resident Engineer		
The work have fount to be :	☐ Approved (A) ☐ Approved as Noted (B) ☐ Revise& Resubmit (C) ☐ Rejected (D)	
Signature _____	Date : ____/____/____	

Engineer's Representative " SYSTRA " comments :

Signature : _____ Date : ____/____/____

Attach all relevans particular test forms

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

يسلم الأصيل الهيئة العامة للطرق والكباري
ونسخه للجهات الإستشارية والشركة المنفذة

OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR)

شركة الهندسة المعمارية للتخطيط والبناء

Data Surveying

Request Number L-172

Station	Elevation	Slope	عرض الطريق	16	12	8	4	center	4	8	12	ارتفاع عمود الرفع
122+180	72.116	0.00%	67.716	67.716	67.716	67.716	67.716	67.716	67.716	67.716	67.716	14.590
ACT READ												
DEF.			+3	+2	-2	+3	+2	-1	+2	-1	+2	-2
122+200	71.907	0.00%	67.507	67.507	67.507	67.507	67.507	67.507	67.507	67.507	67.507	
ACT READ												
DEF.			-2	+3	+2	-1	+2	+3	+2	-1	+2	+3
122+220	71.699	0.00%	67.299	67.299	67.299	67.299	67.299	67.299	67.299	67.299	67.299	
ACT READ												
DEF.			-2	+3	+2	-1	+2	-2	+3	+2	-1	+2
122+240	71.490	0.00%	67.090	67.090	67.090	67.090	67.090	67.090	67.090	67.090	67.090	
ACT READ												
DEF.			-2	+2	-1	+2	+3	+2	-1	+2	-1	+2
122+260	71.281	0.00%	66.881	66.881	66.881	66.881	66.881	66.881	66.881	66.881	66.881	
ACT READ												
DEF.			-2	+3	+2	-1	+2	-1	+2	-1	+2	+3
122+280	71.072	0.00%	66.672	66.672	66.672	66.672	66.672	66.672	66.672	66.672	66.672	
ACT READ												
DEF.			-1	+2	-1	+2	+3	+2	-1	+2	-1	+2
122+300	70.863	0.00%	66.463	66.463	66.463	66.463	66.463	66.463	66.463	66.463	66.463	
ACT READ												
DEF.			+2	-1	+2	+3	+2	-1	+2	-1	+2	-1
122+320	70.654	0.00%	66.254	66.254	66.254	66.254	66.254	66.254	66.254	66.254	66.254	
ACT READ												
DEF.			-2	+3	+2	-1	+2	-1	+2	-1	+2	-1
122+340	70.446	0.00%	66.046	66.046	66.046	66.046	66.046	66.046	66.046	66.046	66.046	
ACT READ												
DEF.												

استشاري المساحة

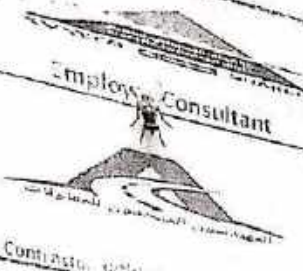
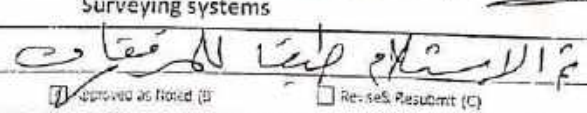
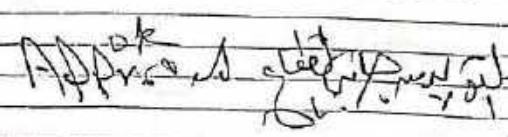
الاسم /

التوقيع /

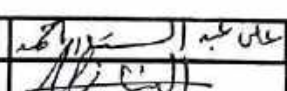
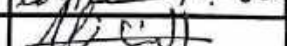
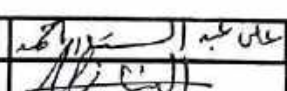
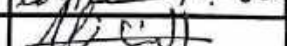
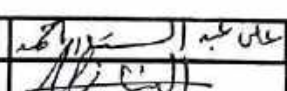
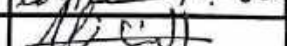
المهندس المعتمد من الشركة

الاسم /

التوقيع /

 Employer / Consultant	Electric Express Train - HSR From October to Aswan		Request No. L-161	
	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION ONE (OCTOBER - BANI MAZAR) Contractor Zone From station 121+000 To station 124+000		Trans GARB Consultant	
Date 21/8/2023				
Request for Inspection				
Discipline: ☐ Civil/Structure Protection ☐ Structure ☐ Drainage ☒ Survey				
Location	Contractor Zone	From Station	122+160	To Station 122+310
Inspection: ☒ First ☐ Second ☐ Third				
Purpose of the inspection: 1. General ☐ ... ☐ ... ☐ ... ☐ ... ☐ ... ☐ ... ☐ ... ☐ ... 2. Civil Work ☐ Open Channels ☐ Box Culvert ☐ Pipe Culvert ☐ Slope protection ☐ Gabion ☐ Side Ditches ☐ Other 3. Drainage ☐ Formation ☐ Slope of Excavation ☐ Backfilling Layers ☐ Slope protection 5. Structure ☐ Formwork ☐ Reinforcement ☐ Concreting ☐ ... 4. Surveying ☒ Setting out ☒ Levels ☐ Verticality ☐ NGL				
Others: Layer (-4) Backfill				
Signature		Signature		
Inspection Report:		Surveying systems		
Survey				
The work is to be:		☒ Approved (A) ☒ Approved as noted (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)		
Inspection Report:		EnTrans Consulting		
Structure		Signature		
Civil Eng.				
Arch. Eng.		21/8/2023		
Resident Engineer				
The work is to be: ☐ Approved (A) ☐ Approved as noted (B) ☐ Revised/Resubmit (C) ☐ Rejected (D)				
Signature				
Engineer's Representative "SYSTRA" comments:				
Signature: _____ Date: _____				
Attachments: _____				

بسم الأمانة العامة للمطرق والكباري ونسخة
 الجهات الإستشارية والشركاء المنفذة

 Electric Express Train - HSR	Electric Express Train - HSR		 الهيئة القومية للنيل																																																																									
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Testing Date :	20/9/2023	Company :	المهندسون المتحدون																																																																									
Material :	soil		QT-9																																																																									
Location :	122+180 TO 122+340																																																																											
Layer Thickness :	50	Level layer	-3.50																																																																									
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 	Electric Express Train - HSR		الهيئة القومية للإتفاق  الهيئة العامة لشؤون الكباري والنقل البري (GARBLT)																																																																																																																
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Station</th> <th style="width: 12.5%;">shallow</th> <th style="width: 12.5%;">shallow</th> <th style="width: 12.5%;">shallow</th> <th style="width: 12.5%;">deeb</th> <th style="width: 12.5%;">deeb</th> <th style="width: 12.5%;">deeb</th> </tr> <tr> <th>Hole no</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr> <td>Bulk density specifid sand</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> <td>1.48</td> </tr> <tr> <td>wt .of sand befor test</td> <td>8610</td> <td>9530</td> <td>9395</td> <td>10070</td> <td>9950</td> <td>9030</td> </tr> <tr> <td>WT .of sand after test</td> <td>3610</td> <td>4851</td> <td>4345</td> <td>5370</td> <td>5007</td> <td>4630</td> </tr> <tr> <td>WT . Of sand fill cone</td> <td>1511</td> <td>1511</td> <td>1511</td> <td>1511</td> <td>1511</td> <td>1511</td> </tr> <tr> <td>WT . Of sand in hole</td> <td>3489</td> <td>3168</td> <td>3539</td> <td>3189</td> <td>3432</td> <td>2889</td> </tr> <tr> <td>Volume of hole</td> <td>2351</td> <td>2135</td> <td>2385</td> <td>2149</td> <td>2313</td> <td>1947</td> </tr> <tr> <td>WT . Of sample from hole</td> <td>4920</td> <td>4410</td> <td>4970</td> <td>4390</td> <td>4810</td> <td>4010</td> </tr> <tr> <td>Bulk density of soil</td> <td>2.09</td> <td>2.07</td> <td>2.08</td> <td>2.04</td> <td>2.08</td> <td>2.06</td> </tr> <tr> <td>O.W.C</td> <td colspan="6" style="text-align: center;">7.1</td> </tr> <tr> <td>Average water % content</td> <td>6.2</td> <td>6</td> <td>6.5</td> <td>6</td> <td>5.9</td> <td>6</td> </tr> <tr> <td>(gm/cm3)Dry density</td> <td>1.97</td> <td>1.95</td> <td>1.96</td> <td>1.93</td> <td>1.96</td> <td>1.94</td> </tr> <tr> <td>Max dry density</td> <td>2.01</td> <td>2.01</td> <td>2.01</td> <td>2.01</td> <td>2.01</td> <td>2.01</td> </tr> <tr> <td>Compaction ratio %</td> <td>98.0</td> <td>97.0</td> <td>97.4</td> <td>95.9</td> <td>97.7</td> <td>96.7</td> </tr> <tr> <td>Observations</td> <td colspan="6"></td> </tr> </tbody> </table>				Station	shallow	shallow	shallow	deeb	deeb	deeb	Hole no	1	2	3	4	5	6	Bulk density specifid sand	1.48	1.48	1.48	1.48	1.48	1.48	wt .of sand befor test	8610	9530	9395	10070	9950	9030	WT .of sand after test	3610	4851	4345	5370	5007	4630	WT . Of sand fill cone	1511	1511	1511	1511	1511	1511	WT . Of sand in hole	3489	3168	3539	3189	3432	2889	Volume of hole	2351	2135	2385	2149	2313	1947	WT . Of sample from hole	4920	4410	4970	4390	4810	4010	Bulk density of soil	2.09	2.07	2.08	2.04	2.08	2.06	O.W.C	7.1						Average water % content	6.2	6	6.5	6	5.9	6	(gm/cm3)Dry density	1.97	1.95	1.96	1.93	1.96	1.94	Max dry density	2.01	2.01	2.01	2.01	2.01	2.01	Compaction ratio %	98.0	97.0	97.4	95.9	97.7	96.7	Observations						
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