

محضر استلام موقع

مشروع: أعمال الجسر الترابي لمشروع القطار الكهربائي السريع قطاع فوكه
- مطروح في المسافة من كم 514+000 الى كم 518+500 بطول 4.5 كم
بالاتجاهين .

تنفيذ: شركة يوسف نجيدة للمقاولات

إشراف : المنطقة الخامسة - منطقة غرب الدلتا

طبقاً للعقد رقم (2024/2023/312) بتاريخ : 2023/09/4

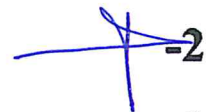
إنه في يوم الاثنين الموافق 2023/09/4 اجتمع كل من:-

- 1- السيد المهندس /محمد حسني فياض مدير عام المشروعات - الهيئة العامة للطرق والكباري
- 2- السيد المهندس /إبراهيم عبد الله الحناوي مهندس العملية - الهيئة العامة للطرق والكباري
- 3- السيد المهندس / زياد علي عبد الحليم مدير مشروع - شركة يوسف نجيدة للمقاولات

وذلك للمرور على مسار العملية المذكورة عاليه لاستلام الموقع :-
وقد تبين أن الموقع خالياً من العوائق الظاهرية ويسمح بالبدء في التنفيذ وبناء عليه يعتبر
تاريخ 2023/09/4 هو تاريخ استلام الموقع وبدء الأعمال بالعملية.
واقفل المحضر على ذلك ووقع الحضور

التوقيعات

3- زياد علي عبد الحليم

2- 

1- 

رئيس الإدارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عميد . مهندس /

هاني محمد محمود طه

٢٠٢٣
١٠/١١

السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة.. وبعد،،

بالإحالة إلى مشروع القطار السريع (العين السخنة – العاصمة الإدارية - برج العرب -

مرسى مطروح)

نتشرف بأن نرفق لسيادتكم طيه المقاييس المعدلة للقطاعات الآتية:

أولا : القطاع السابع (فوكة/مطروح) :

م	المسافة		الطول (كم)	الشركة	التكلفة (مليون)	الاتجاه
	من	الى				
1	514+000	518+500	4.5	يوسف نجيدة للمقاولات	154.761	الاتجاهين

برجاء من سيادتكم التفضل بالاحاطه والتوجيه بالازم

وتفضلوا بقبول فائق الاحترام والتقدير،،

رئيس الإدارة المركزية

المنطقة الخامسة - غرب الدلتا

عميد مهندس/

"هاني محمد محمود طه"



12/11

Plate Load Test Results

Layer:
Station:
Date:

Replacement of bed		
515+960	TO	516+040
08-08-23		

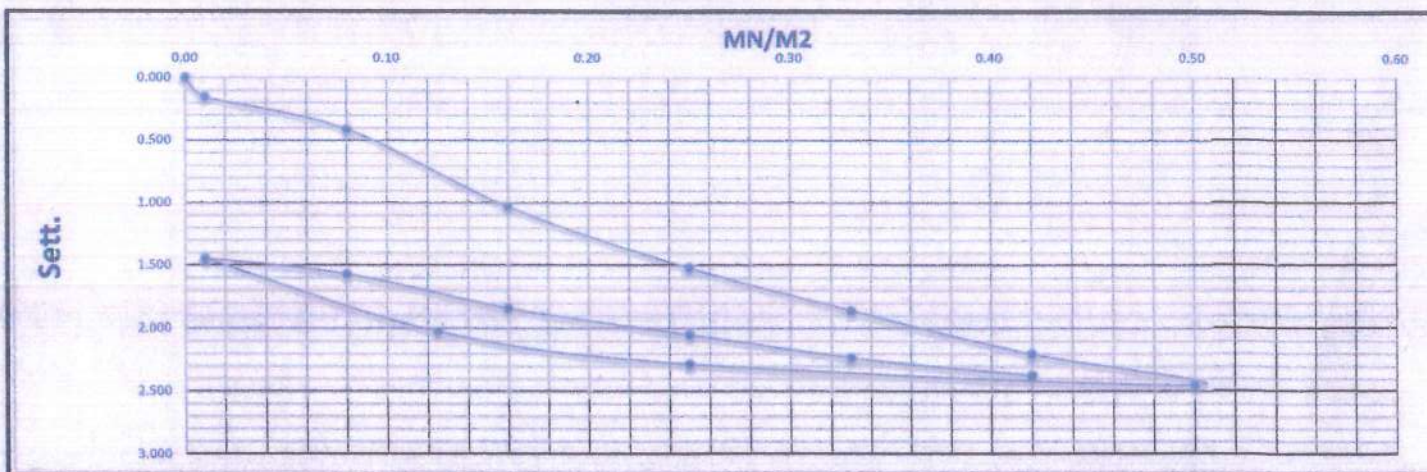
COMPANY	YUSEF NEGI
Location	516+000

Landing	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	5.45	5.90		0.000	0.000		0.000
1.000	1.0	0.707	0.01	5.31	5.73		0.140	0.170		0.155
2.000	7.9	5.652	0.08	5.06	5.46		0.390	0.440		0.415
0.080	15.8	11.304	0.16	4.46	4.82		0.990	1.080		1.035
4.000	24.7	17.663	0.25	4.00	4.30		1.450	1.600		1.525
5.000	32.6	23.315	0.33	3.67	3.95		1.780	1.950		1.865
6.000	41.5	29.673	0.42	3.28	3.65		2.170	2.250		2.210
7.000	49.4	35.325	0.50	2.99	3.45		2.460	2.450		2.455
8.000	24.7	17.663	0.25	3.20	3.57		2.250	2.330		2.290
9.000	12.4	8.831	0.12	3.54	3.75		1.910	2.150		2.030
9.000	1.0	0.707	0.01	4.15	4.30		1.300	1.600		1.450
10.000	1.0	0.707	0.01	4.15	4.30		1.300	1.600		1.450
11.000	7.9	5.652	0.08	4.00	4.20		1.450	1.700		1.575
12.000	15.8	11.304	0.16	3.68	3.98		1.770	1.920		1.845
13.000	24.7	17.663	0.25	3.43	3.81		2.020	2.090		2.055
14.000	32.6	23.315	0.33	3.20	3.67		2.250	2.230		2.240
15.000	41.5	29.673	0.42	3.05	3.54		2.400	2.360		2.380

		s	AS	Δs
0.7 σ ₁	0.35	1.9956	1.03813	0.7
0.3 σ ₁	0.15	0.9575		
0.7 σ ₂	0.35	2.2711	0.5711	0.7
0.3 σ ₂	0.15	1.7		
D (mm)	300			
Ev ₁	43.35			
Ev ₂	78.80			
Area (Sq.m)	0.07065			

Ev2/Ev1	1.82		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :

Plate Load Test Results

Layer:
Station:
Date:

embankment

-1.5

515+260	TO	515+280
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10-08-23

COMPANY

YOUSEF NEGI

Location

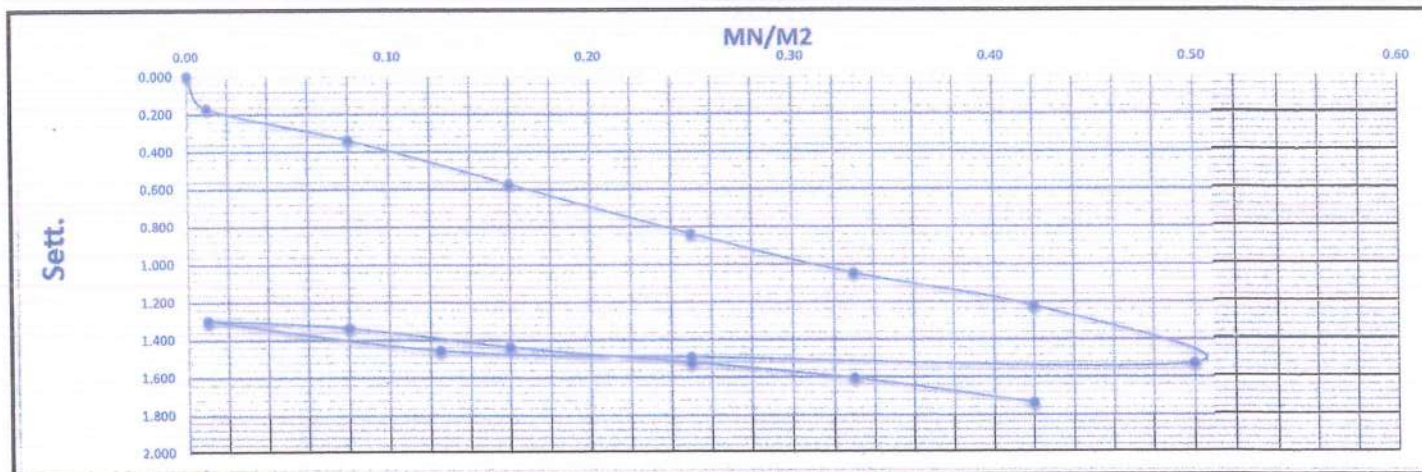
515+270

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.15	7.33		0.000	0.000		0.000
1.000	1.0	0.707	0.01	6.98	7.16		0.170	0.170		0.170
2.000	7.9	5.652	0.08	6.80	7.00		0.350	0.330		0.340
0.080	15.8	11.304	0.16	6.58	6.75		0.570	0.580		0.575
4.000	24.7	17.663	0.25	6.30	6.50		0.850	0.830		0.840
5.000	32.6	23.315	0.33	6.14	6.24		1.010	1.090		1.050
6.000	41.5	29.673	0.42	5.83	6.20		1.320	1.130		1.225
7.000	49.4	35.325	0.50	5.54	5.88		1.610	1.450		1.530
8.000	24.7	17.663	0.25	5.56	5.93		1.590	1.400		1.495
9.000	12.4	8.831	0.12	5.55	6.01		1.600	1.320		1.460
9.000	1.0	0.707	0.01	5.88	6.00		1.270	1.330		1.300
10.000	1.0	0.707	0.01	5.88	6.00		1.270	1.330		1.300
11.000	7.9	5.652	0.08	5.84	5.96		1.310	1.370		1.340
12.000	15.8	11.304	0.16	5.74	5.86		1.410	1.470		1.440
13.000	24.7	17.663	0.25	5.65	5.78		1.500	1.550		1.525
14.000	32.6	23.315	0.33	5.57	5.69		1.580	1.640		1.610
15.000	41.5	29.673	0.42	5.45	5.55		1.700	1.780		1.740

		s	AS	Ac
0.7 σ_1	0.35	0.9581	0.4125	0.1
0.3 σ_1	0.15	0.5456		
0.7 σ_2	0.35	1.6389	0.25888	0.1
0.3 σ_2	0.15	1.38		
D (mm)	300			
Ev ₁	109.09			
Ev ₂	173.82			
Area (Sq.m)	0.07065			

Ev2/Ev1	1.59		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Mohamed Hamed
مهندس محمد حميد الهادي
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

Consultant Engineer

Name :

Sign :

Abdullah

Plate Load Test Results

Layer:
Station:
Date:

embankment

-1.5

515+840

TO

515+900

10-08-23

COMPANY

YOUSEF NE

Location

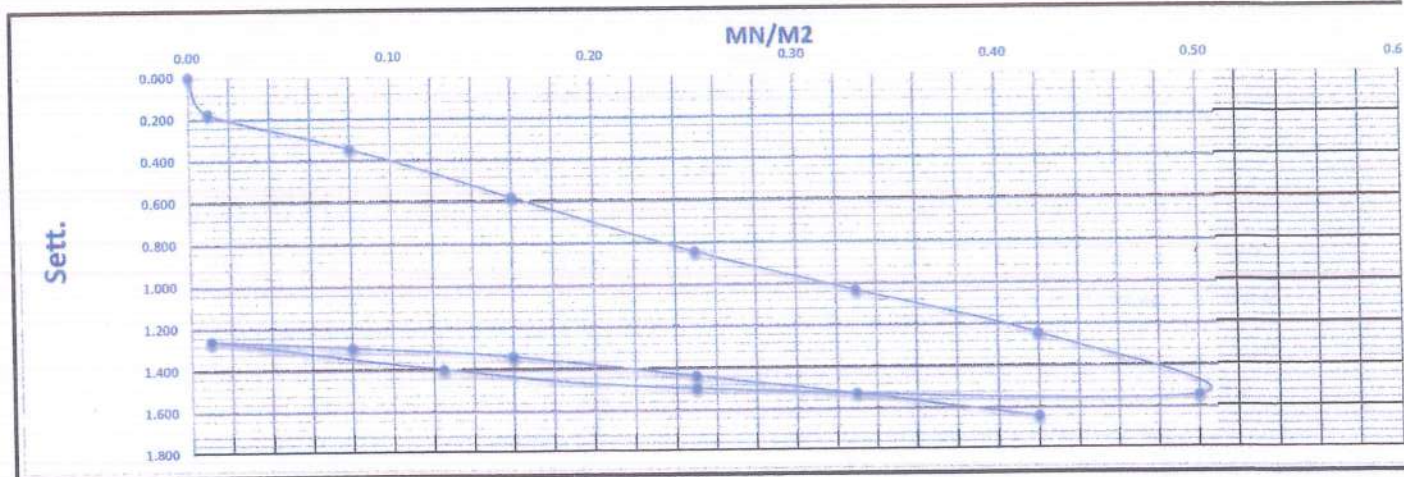
515+88

Landing	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	5.51	5.68		0.000	0.000		0.000
1.000	1.0	0.707	0.01	5.33	5.51		0.180	0.170		0.175
2.000	7.9	5.652	0.08	5.15	5.35		0.360	0.330		0.345
0.080	15.8	11.304	0.16	4.93	5.10		0.580	0.580		0.580
4.000	24.7	17.663	0.25	4.65	4.85		0.860	0.830		0.845
5.000	32.6	23.315	0.33	4.43	4.69		1.080	0.990		1.035
6.000	41.5	29.673	0.42	4.21	4.49		1.300	1.190		1.245
7.000	49.4	35.325	0.50	3.87	4.23		1.640	1.450		1.545
8.000	24.7	17.663	0.25	3.91	4.28		1.600	1.400		1.500
9.000	12.4	8.831	0.12	4.03	4.36		1.480	1.320		1.400
9.000	1.0	0.707	0.01	4.22	4.45		1.290	1.230		1.260
10.000	1.0	0.707	0.01	4.22	4.45		1.290	1.230		1.260
11.000	7.9	5.652	0.08	4.16	4.44		1.350	1.240		1.295
12.000	15.8	11.304	0.16	4.09	4.42		1.420	1.260		1.340
13.000	24.7	17.663	0.25	3.98	4.33		1.530	1.350		1.440
14.000	32.6	23.315	0.33	3.86	4.27		1.650	1.410		1.530
15.000	41.5	29.673	0.42	3.75	4.15		1.760	1.530		1.645

		S	ΔS
0.7 σ_1	0.35	0.9825	0.43188
0.3 σ_1	0.15	0.5506	
0.7 σ_2	0.35	1.5556	0.22555
0.3 σ_2	0.15	1.33	
D (mm)	300		
E_{v1}	104.20		
E_{v2}	199.51		
Area (Sq.m)	0.07065		

E_{v2}/E_{v1}	1.91		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Mohamed Hamed
Sign : *[Signature]*

Consultant Engineer

Name : *[Signature]*
Sign : *[Signature]*

Plate Load Test Results

Layer:	embankment		-1.5
Station:	515+900	TO	515+960
Date:	09-08-23		

COMPANY	YUSEF NEGI
Location	515+920

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	5.42	5.36		0.000	0.000		0.000
1.000	1.0	0.707	0.01	5.40	5.31		0.020	0.050		0.035
2.000	7.9	5.652	0.08	5.36	5.23		0.060	0.130		0.095
0.080	15.8	11.304	0.16	5.25	4.98		0.170	0.380		0.275
4.000	24.7	17.663	0.25	5.17	4.73		0.250	0.630		0.440
5.000	32.6	23.315	0.33	5.08	4.44		0.340	0.920		0.630
6.000	41.5	29.673	0.42	5.03	4.13		0.390	1.230		0.810
7.000	49.4	35.325	0.50	4.95	4.00		0.470	1.360		0.915
8.000	24.7	17.663	0.25	5.00	4.03		0.420	1.330		0.875
9.000	12.4	8.831	0.12	5.09	4.22		0.330	1.140		0.735
9.000	1.0	0.707	0.01	5.23	4.50		0.190	0.860		0.525
10.000	1.0	0.707	0.01	5.23	4.50		0.190	0.860		0.525
11.000	7.9	5.652	0.08	5.20	4.43		0.220	0.930		0.575
12.000	15.8	11.304	0.16	5.15	4.29		0.270	1.070		0.670
13.000	24.7	17.663	0.25	5.09	4.18		0.330	1.180		0.755
14.000	32.6	23.315	0.33	5.03	4.08		0.390	1.280		0.835
15.000	41.5	29.673	0.42	4.99	3.97		0.430	1.390		0.910

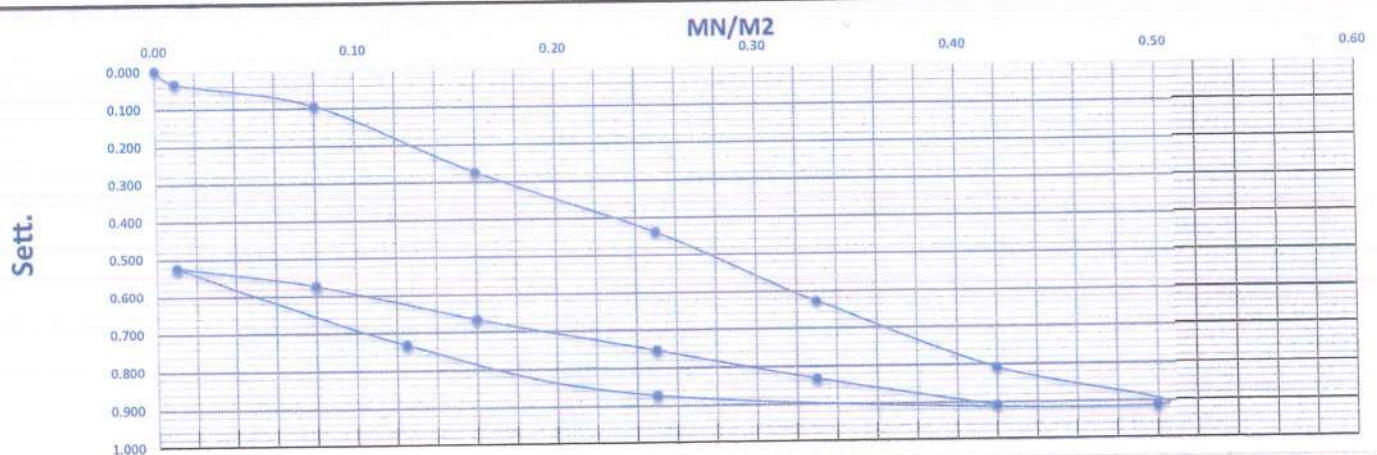
		s	ΔS	Δσ
0.7 σ ₁	0.35	0.7181	0.46563	0.5
0.3 σ ₁	0.15	0.2525		
0.7σ ₂	0.35	0.8517	0.22666	0.5
0.3σ ₂	0.15	0.625		
D (mm)	300			
Ev ₁	96.64			
Ev ₂	198.53			
Area (Sq.m)	0.07065			

Ev2/Ev1	2.05		
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LOAD

UN LOAD

RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Mohamed Hameel
Sign : شركة نجدة القويلاط
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

Consultant Engineer

Name : Abdo esmer
Sign : Abdo esmer

Plate Load Test Results

Layer: embankment -1.5
 Station: 516+040 TO 516+160
 Date: 10-08-23

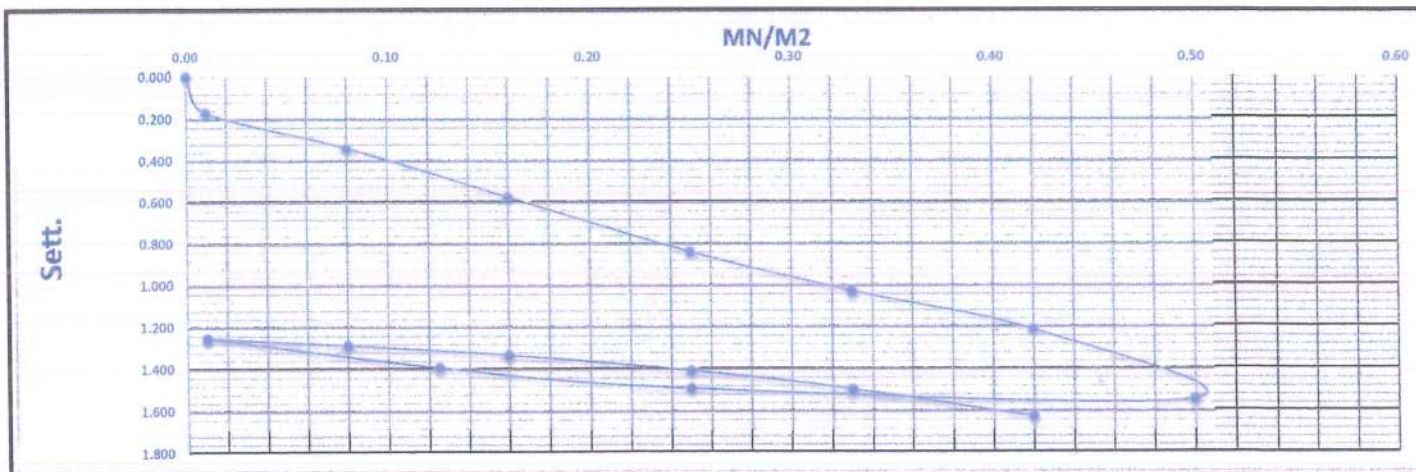
COMPANY	YOUSEF NEGID
Location	516+080

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	5.55	5.73		0.000	0.000		0.000
1.000	1.0	0.707	0.01	5.38	5.56		0.170	0.170		0.170
2.000	7.9	5.652	0.08	5.20	5.40		0.350	0.330		0.340
0.080	15.8	11.304	0.16	4.98	5.15		0.570	0.580		0.575
4.000	24.7	17.663	0.25	4.70	4.90		0.850	0.830		0.840
5.000	32.6	23.315	0.33	4.48	4.74		1.070	0.990		1.030
6.000	41.5	29.673	0.42	4.27	4.58		1.280	1.150		1.215
7.000	49.4	35.325	0.50	3.91	4.28		1.640	1.450		1.545
8.000	24.7	17.663	0.25	3.96	4.33		1.590	1.400		1.495
9.000	12.4	8.831	0.12	4.08	4.41		1.470	1.320		1.395
9.000	1.0	0.707	0.01	4.27	4.50		1.280	1.230		1.255
10.000	1.0	0.707	0.01	4.27	4.50		1.280	1.230		1.255
11.000	7.9	5.652	0.08	4.21	4.49		1.340	1.240		1.290
12.000	15.8	11.304	0.16	4.14	4.47		1.410	1.260		1.335
13.000	24.7	17.663	0.25	4.05	4.41		1.500	1.320		1.410
14.000	32.6	23.315	0.33	3.94	4.34		1.610	1.390		1.500
15.000	41.5	29.673	0.42	3.81	4.21		1.740	1.520		1.630

		s	ΔS	Δσ
0.7 σ ₁	0.35	0.9263	0.38063	0.2
0.3 σ ₁	0.15	0.5456		
0.7 σ ₂	0.35	1.5289	0.20389	0.2
0.3 σ ₂	0.15	1.325		
D (mm)	300			
Ev ₁	118.23			
Ev ₂	220.71			
Area (Sq.m)	0.07065			

Ev2/Ev1	1.87		
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LOAD
 UN LOAD
 RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Mohamed Hamed
 محمد هادي
 المهندس
 مشروع القطار الربيع - فوكة - مطروح

Consultant Engineer

Name :

Sign :

Mohamed

Plate Load Test Results

Layer: embankment -1.5
 Station: 516+040 TO 516+160
 Date: 10-08-23

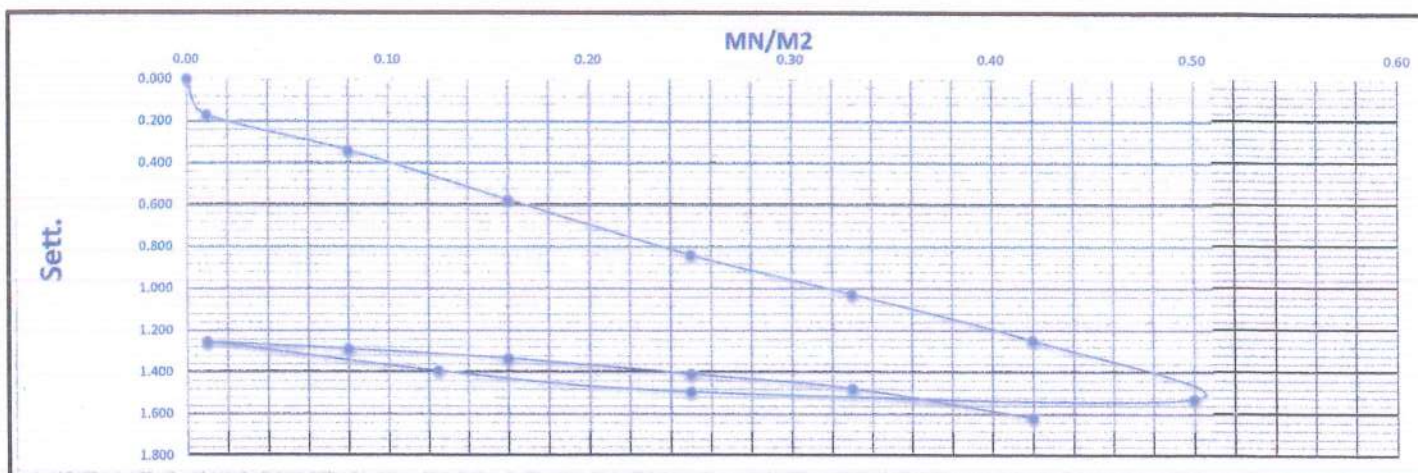
COMPANY	YOUSEF NEGID
Location	516+150

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	6.05	6.23		0.000	0.000		0.000
1.000	1.0	0.707	0.01	5.88	6.06		0.170	0.170		0.170
2.000	7.9	5.652	0.08	5.70	5.90		0.350	0.330		0.340
0.080	15.8	11.304	0.16	5.48	5.65		0.570	0.580		0.575
4.000	24.7	17.663	0.25	5.20	5.40		0.850	0.830		0.840
5.000	32.6	23.315	0.33	4.98	5.24		1.070	0.990		1.030
6.000	41.5	29.673	0.42	4.68	5.10		1.370	1.130		1.250
7.000	49.4	35.325	0.50	4.44	4.78		1.610	1.450		1.530
8.000	24.7	17.663	0.25	4.46	4.83		1.590	1.400		1.495
9.000	12.4	8.831	0.12	4.58	4.91		1.470	1.320		1.395
9.000	1.0	0.707	0.01	4.77	5.00		1.280	1.230		1.255
10.000	1.0	0.707	0.01	4.77	5.00		1.280	1.230		1.255
11.000	7.9	5.652	0.08	4.71	4.99		1.340	1.240		1.290
12.000	15.8	11.304	0.16	4.64	4.97		1.410	1.260		1.335
13.000	24.7	17.663	0.25	4.55	4.91		1.500	1.320		1.410
14.000	32.6	23.315	0.33	4.49	4.83		1.560	1.400		1.480
15.000	41.5	29.673	0.42	4.35	4.69		1.700	1.540		1.620

		s	ΔS	Δσ
0.7 σ ₁	0.35	1.005	0.45938	0.2
0.3 σ ₁	0.15	0.5456		
0.7 σ ₂	0.35	1.5111	0.18611	0.2
0.3 σ ₂	0.15	1.325		
D (mm)	300			
Ev ₁	97.96			
Ev ₂	241.80			
Area (Sq.m)	0.07065			

Ev2/Ev1	2.47		
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LOAD
 UN LOAD
 RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : *Abdullah Hamel*
 Sign : *[Signature]*
 مشروع القطار الكهربائي / فوكة - مطروح

Consultant Engineer

Name :

Sign : *[Signature]*

Plate Load Test Results

Layer:
Station:
Date:

EMBANKMENT		1.5
516+160	TO	516+240
14-08-23		

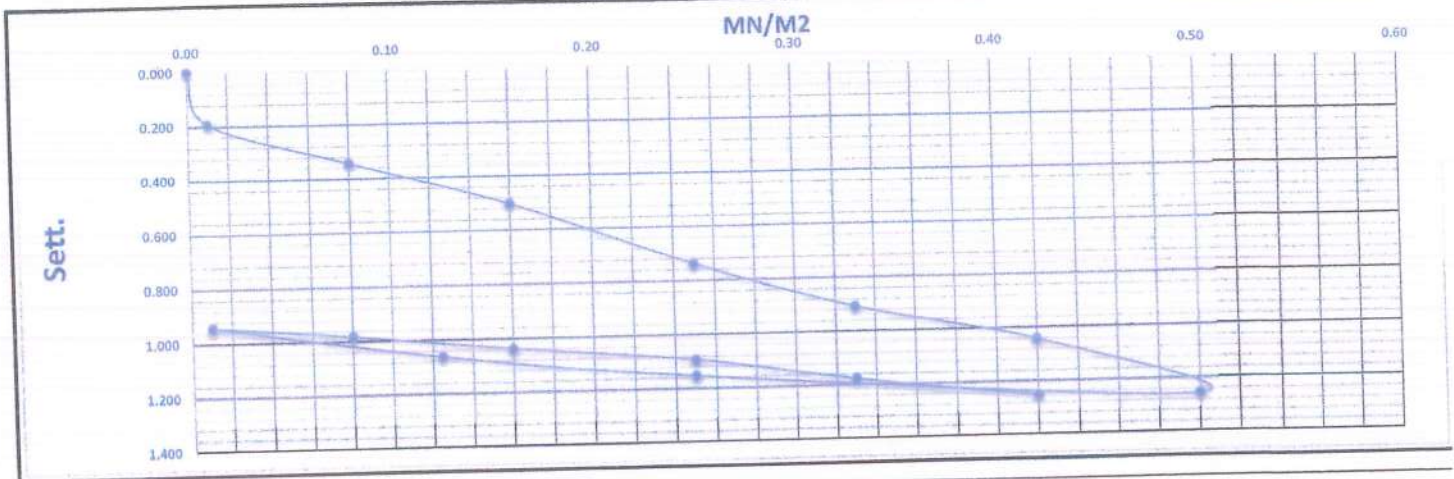
COMPANY	YOUSEF NEGIDA 1
Location	516+200

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.07	7.83		0.000	0.000		0.000
1.000	1.0	0.707	0.01	6.93	7.58		0.140	0.250		0.195
2.000	7.9	5.652	0.08	6.77	7.44		0.300	0.390		0.345
0.080	15.8	11.304	0.16	6.53	7.36		0.540	0.470		0.505
4.000	24.7	17.663	0.25	6.30	7.12		0.770	0.710		0.740
5.000	32.6	23.315	0.33	6.14	6.94		0.930	0.890		0.910
6.000	41.5	29.673	0.42	6.00	6.81		1.070	1.020		1.045
7.000	49.4	35.325	0.50	5.80	6.58		1.270	1.250		1.260
8.000	24.7	17.663	0.25	5.89	6.70		1.180	1.130		1.155
9.000	12.4	8.831	0.12	6.00	6.77		1.070	1.060		1.065
9.000	1.0	0.707	0.01	6.15	6.86		0.920	0.970		0.945
10.000	1.0	0.707	0.01	6.15	6.86		0.920	0.970		0.945
11.000	7.9	5.652	0.08	6.11	6.82		0.960	1.010		0.985
12.000	15.8	11.304	0.16	6.05	6.77		1.020	1.060		1.040
13.000	24.7	17.663	0.25	6.00	6.71		1.070	1.120		1.095
14.000	32.6	23.315	0.33	5.89	6.65		1.180	1.180		1.180
15.000	41.5	29.673	0.42	5.80	6.59		1.270	1.240		1.255

		s	ΔS	Δσ
0.7 σ ₁	0.35	0.8569	0.37188	0.2
0.3 σ ₁	0.15	0.485		
0.7 σ ₂	0.35	1.1967	0.17166	0.2
0.3 σ ₂	0.15	1.025		
D (mm)	300			
Ev ₁	121.01			
Ev ₂	262.14			
Area (Sq.m)	0.07065			

Ev2/Ev1	2.17		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Mohamed Hamed
محمّد نجيدة المقاولات
المعمل رقم ١٤
مشروع القطر السريع / فوكة - مطروح

Consultant Engineer

Name :

Sign :

Abdallah Sa

Plate Load Test Results

Layer:

Station:

Date:

EMBANKMENT		-1.5
515+280	TO	515+300

15-08-23

COMPANY	YUSEF NE
Location	515+290

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	8.03	8.44		0.000	0.000		0.000
1.000	1.0	0.707	0.01	8.00	8.40		0.030	0.040		0.035
2.000	7.9	5.652	0.08	7.88	8.13		0.150	0.310		0.230
0.080	15.8	11.304	0.16	7.64	7.74		0.390	0.700		0.545
4.000	24.7	17.663	0.25	7.46	7.37		0.570	1.070		0.820
5.000	32.6	23.315	0.33	7.29	6.99		0.740	1.450		1.095
6.000	41.5	29.673	0.42	7.20	6.72		0.830	1.720		1.275
7.000	49.4	35.325	0.50	7.12	6.48		0.910	1.960		1.435
8.000	24.7	17.663	0.25	7.19	6.56		0.840	1.880		1.360
9.000	12.4	8.831	0.12	7.30	6.75		0.730	1.690		1.210
9.000	1.0	0.707	0.01	7.50	7.07		0.530	1.370		0.950
10.000	1.0	0.707	0.01	7.50	7.07		0.530	1.370		0.950
11.000	7.9	5.652	0.08	7.48	7.01		0.550	1.430		0.990
12.000	15.8	11.304	0.16	7.41	6.88		0.620	1.560		1.090
13.000	24.7	17.663	0.25	7.31	6.73		0.720	1.710		1.215
14.000	32.6	23.315	0.33	7.26	6.62		0.770	1.820		1.295
15.000	41.5	29.673	0.42	7.20	6.48		0.830	1.960		1.395

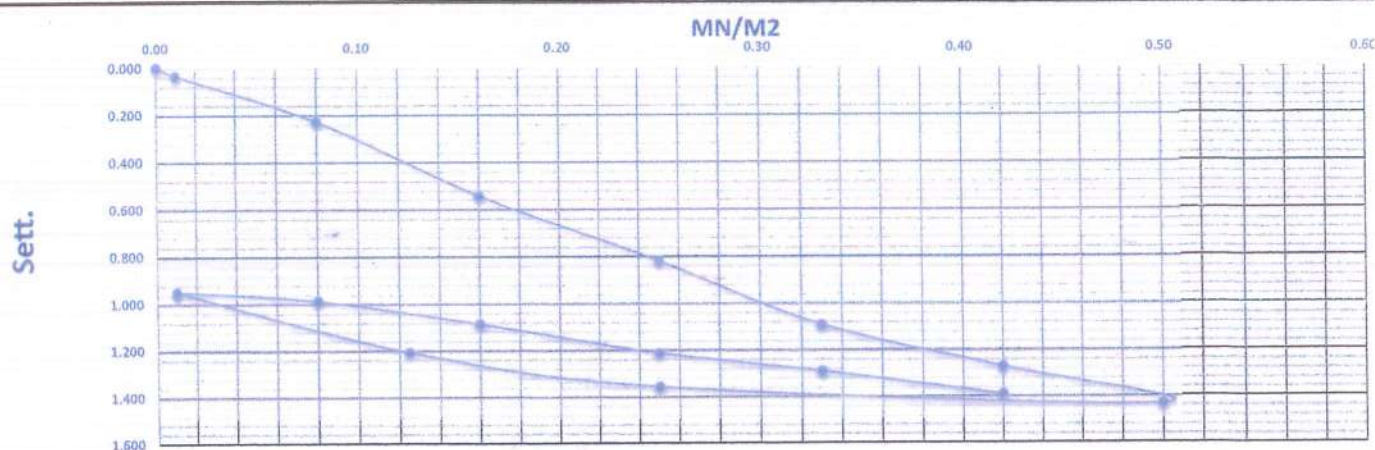
		s	AS	
0.7 σ_1	0.35	1.135	0.62938	
0.3 σ_1	0.15	0.5056		
0.7 σ_2	0.35	1.3172	0.28722	
0.3 σ_2	0.15	1.03		
D (mm)	300			
$E v_1$	71.50			
$E v_2$	156.68			
Area (Sq.m)	0.07065			

Ev2/Ev1	2.19		
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LOAD

UN LOAD

RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :

Plate Load Test Results

Layer: embankment -1.5
 Station: 515+960 TO 516+040
 Date: 19-08-23

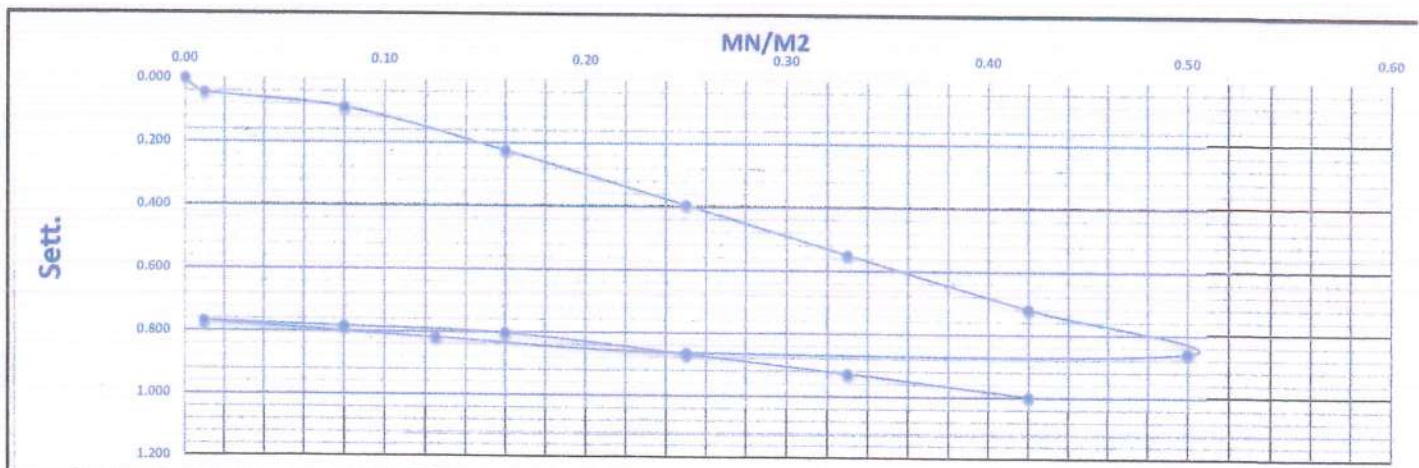
COMPANY: YOUSEF NEG
 Location: 516+000

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Ave. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.05	6.08		0.000	0.000		0.000
1.000	1.0	0.707	0.01	7.01	6.03		0.040	0.050		0.045
2.000	7.9	5.652	0.08	6.98	5.97		0.070	0.110		0.090
0.080	15.8	11.304	0.16	6.84	5.84		0.210	0.240		0.225
4.000	24.7	17.663	0.25	6.67	5.67		0.380	0.410		0.395
5.000	32.6	23.315	0.33	6.52	5.51		0.530	0.570		0.550
6.000	41.5	29.673	0.42	6.36	5.33		0.690	0.750		0.720
7.000	49.4	35.325	0.50	6.22	5.19		0.830	0.890		0.860
8.000	24.7	17.663	0.25	6.21	5.19		0.840	0.890		0.865
9.000	12.4	8.831	0.12	6.26	5.23		0.790	0.850		0.820
9.000	1.0	0.707	0.01	6.31	5.28		0.740	0.800		0.770
10.000	1.0	0.707	0.01	6.31	5.28		0.740	0.800		0.770
11.000	7.9	5.652	0.08	6.30	5.26		0.750	0.820		0.785
12.000	15.8	11.304	0.16	6.28	5.24		0.770	0.840		0.805
13.000	24.7	17.663	0.25	6.21	5.18		0.840	0.900		0.870
14.000	32.6	23.315	0.33	6.15	5.12		0.900	0.960		0.930
15.000	41.5	29.673	0.42	6.07	5.06		0.980	1.020		1.000

0.7 σ_1	0.35	0.5975	AS	0
0.3 σ_1	0.15	0.2081	0.38938	0
0.7 σ_2	0.35	0.9456	0.14555	0
0.3 σ_2	0.15	0.8		
D (mm)	300			
Ev ₁	115.57			
Ev ₂	309.16			
Area (Sq.m)	0.07065			

Ev2/Ev1	2.68		
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LOAD
 UN LOAD
 RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Mohamal Hamel

Sign :

شركة نجدة للمقاولات
 المهندسين المعماريين
 مشروع القطار السريع / فوكة - مطروح

Consultant Engineer

Name : mohamed elsa

Sign :

m-elsa
 19-8-2023

MATERIAL INSPECTION REQUEST

الهيئة العامة
للطرق والكباري والجسور
(GARBT)



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

الهيئة القومية للإنفاق

NATIONAL AUTHORITY FOR TUNNELS



Contractor Company	Yousef Negida (1)			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Shehab Hamdi		12/4/2023								
Contractor Reference	P.S.G.1 YN(2)										
Received by ER			MIR	C1	C2	C3	DD	MM	YY	HH	MM
							12	4	2023		

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

Description of Materials	Curshed Stone P.S.G.1 Material Result					
Location to be Used	518+100 TO 518+200 (+0.25) 517+640 TO 517+780 (+0.25) 517+780 TO 517+900 (+0.25) 514+140 TO 514+340 (0.50) 514+340 TO 514+500 (0.50+)					
MAR Approval No	P.S.G.1 YN(2)			Date		
Supplier Name						
Test Requirement	Specification			Clause		
Reference Photos	Yes attached / No			Other		
Item	Description	Unit	Quantity	Arrival Date	Note	
1	L.L & P.L & O.M.C %	m3	5000	12-04-2023		
2	Proctor	m3	5000	12-04-2023		
3	Classification	m3	5000	12-04-2023		
4	Sieve Analysis	m3	5000	12-04-2023		
5	C.B.R	m3	5000	12-04-2023		
6	L.A	m3	5000	12-04-2023		
Comments by:			Comments by:			
APPROVAL STATUS						
Organisation	Name	Sign	Date	A-AWC-R		
Contractor	Eng/ Shehab Hamdi					
QA/QC *						
GARB**						
Employers Representative						

MATERIAL APPROVAL REQUEST






Location Name	Contractor Company		Designer Company																	
Electric express train	Yousef Negida (1)		k.k																	
Issued by Contractor	Name Eng/Shehab Hamdi	Sign 	Date 12/4/2023	Time																
Contractor Reference	P.S.G.1 YN(2)																			
Received by ER		MAR	<table border="1"> <tr> <td>C1</td><td>C2</td><td>C3</td><td>DD</td><td>M</td><td>YY</td><td>HH</td><td>M</td></tr> <tr> <td></td><td></td><td></td><td>12</td><td>4</td><td>2023</td><td></td><td></td></tr> </table>	C1	C2	C3	DD	M	YY	HH	M				12	4	2023			
C1	C2	C3	DD	M	YY	HH	M													
			12	4	2023															

The Following Test Result are Attached For Review				
Description of Materials	P.S.G.1 (A-1-a)			
Location to be Used	514+515			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	9.61 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	6.8 %	
6	ASTM D 1557	Modified proctor	2.16	
7	ASTM D 1883	CBR	50.1 %	
8	AASHTO-T96	L.A	25.10 %	
Comments by:			Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
Contractor QA/QC *				
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

		Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSА MATROUH From Station 504+000 To Station 563+177	
Operating lap	Al Tawkol Central Lab		

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	10-04-2023	code	ZONE	514+000	518+500
LOCATION	KP (514+515)	P.S.G.Y.N (2)	Material		
NAME COMPANY	yousef Nigida 1		layer thickness		

1-visual inspection test

2-Gradient test

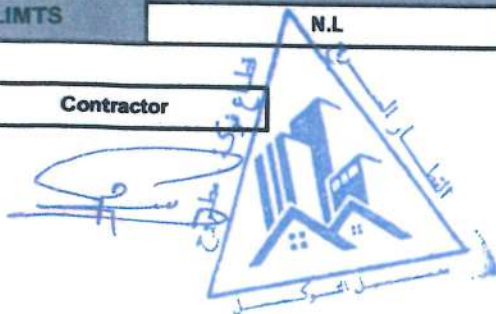
A-gradation of bulk materials				SAMPLE WEIGHT [g]		24310.00		gm		table classify
sieve size	0	15.0	1	4/3	2/1	8/3	# 4	PASS		soil classify
Mass retained (g)	0.0	180.0	3495.0	1955.0	3180.0	1485.0	2915.0		CLASS	A-1-a
Cumulative Retained (g)	0.0	180.0	3675.0	5630.0	8810.0	10275.0	13190.0		PRO	2.16
Cumulative Retained %	0.0	0.7	15.1	23.2	36.2	42.3	54.3		WC	6.8
Cumulative Passing %	100.0	99.3	84.9	76.8	63.8	57.7	45.7		CBR	50.1
									L.A	25.10

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	130.00	270.00	395.00					
Cumulative Retained %	26.00	54.00	79.00					
Cumulative Passing %	74.00	46.00	21.00					

C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	99.3	84.9	76.8	63.8	57.7	45.7	33.8	21.0	9.61




ATTERBERG LIMITS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	N.L	N.P	N.PI

Contractor



Consultant

Youssef Ragab

 KK ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أد. خالد قنديل	 Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA TO MARSА MATROUH From Station 504+000 To Station 550+177	 الهيئة العامة للقناة SCA

MODIFIED PROCTOR TEST ASTM D1557

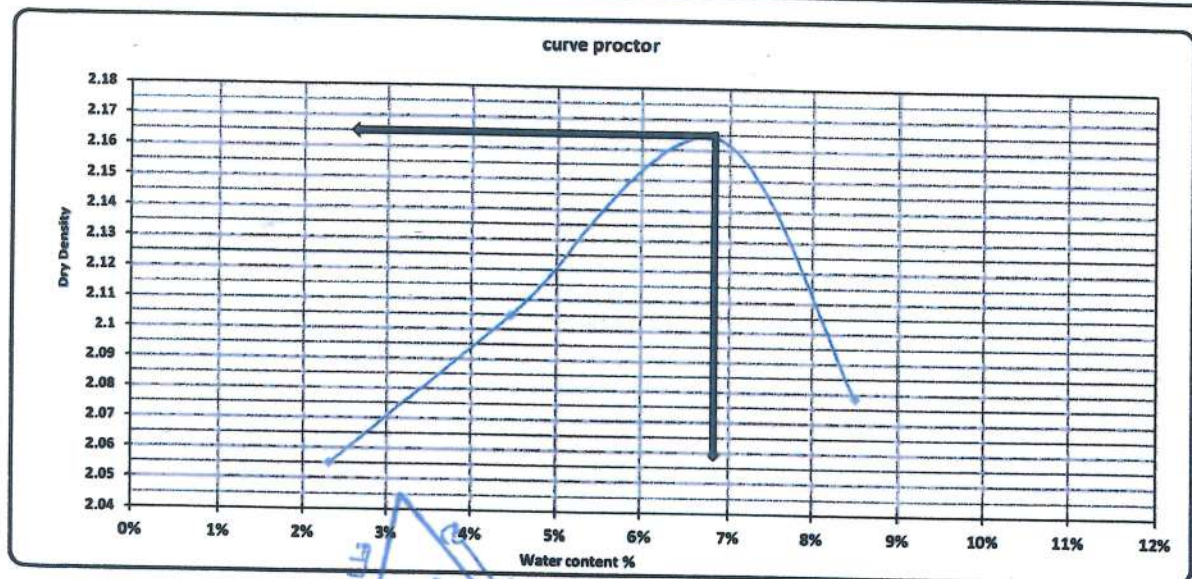
TESTING DATE:	11-04-2023	code	Station	514+000	518+500
LOCATION	KP (514+515)	P.S.G Y.N (2)	Material		
NAME COMPANY	yousef Nigida 1		layer thickness		

Weight of empty mold :	5620.0
Mold Volume:	2124.0

MAX Dry Density	2.16
Water content %	6.8%

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10085.0	10290.0	10530.0	10410	
WT. WET SOIL	4465.0	4670.0	4910.0	4790.0	
Wt. Density	2.102	2.199	2.312	2.255	

Tare No.	11	12	13	14	15	16	17	18		
Tare wt.	55.3	53.2	54.22	53.6	58.5	55.35	53.25	55.3		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	147.90	147.80	145.90	145.90	142.80	142.70	142.40	142.60		
Wt. Of water	2.1	2.2	4.1	4.1	7.2	7.3	7.6	7.4		
Wt. Of dry soil	92.6	94.6	91.7	92.3	137.0	87.4	89.2	87.3		
Water content %	2.3%	2.3%	4.5%	4.4%	5.3%	8.4%	8.5%	8.5%		
AV. Water content %	2.3%		4.5%		6.8%		8.5%			
Dry Density	2.055		2.105		2.164		2.078			



Contractor



Consultant

Youssef Ragab



Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date :	12/4/2023	Code	FROM STA :	514+000	518+500
Location :	K.P (514+515)	P.S.G YN (2)	: Material		
Company Name	yousef Nigida 1		: Layer Thickness		

- : Test Results

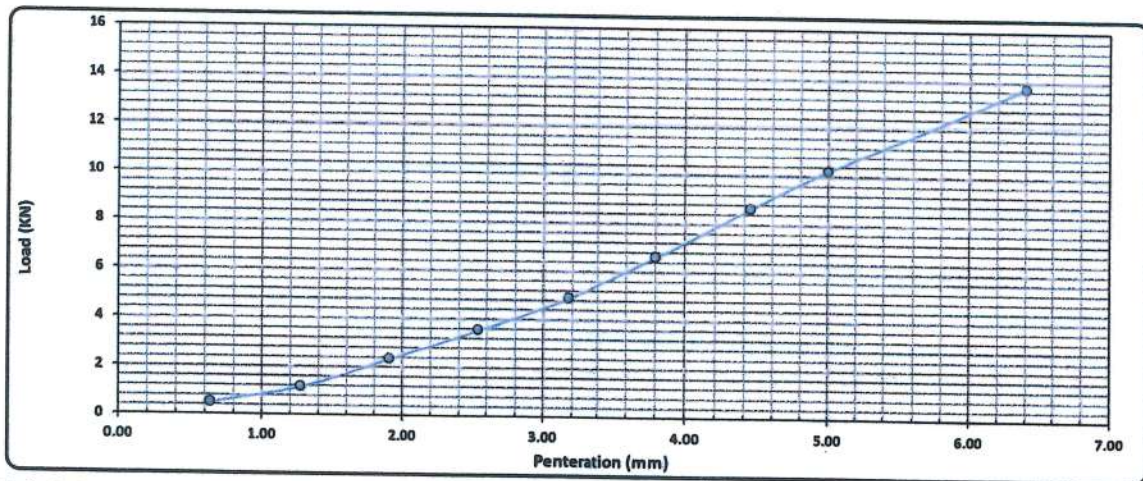
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2215
Mold WT. (gm)	5170
Mold WT. + Wet WT. (gm)	10270
Wet WT. (gm)	5100
Wet Density (g/cm ³)	2.302
Dry Density (g/cm ³)	2.157
Proctor Density (g/cm ³)	2.160
Compaction %	99.8

Moisture Ratio After Compacted Mold	
Tare No.	4
Tare WT. (gm)	35.3
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	144
Water WT. (gm)	6.0
Dry WT. (gm)	88.7
Moisture Content %	6.8

Swelling	
Mold No.	2
Date	12/4/2023
Initial Height (mm)	6.00
Final Height (mm)	6.00
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (Kg)	55	130	260	395	545	735	960	1135	1525
Load (KN)	0.5	1.2	2.3	3.6	4.9	6.6	8.6	10.2	13.7



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(KN)	(lb)	(%)	(%)	(%)	% عند نسبة 98
2.50	3.56	13.4	26.6%	100	98	26.1%
5.00	10.12	20.0	51.0%			50.1%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :



Sign :

Consultant Engineer

Name :

Sign :

youssef Rajab

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد منجيد	Electric Express Train - HSR From El Ain El Sathia City To El Alamein - MATROU Section - 7 From FOKA To MARSA MATROU From Station 504+000 To Station 509+177		 مطرو مطرو مطرو
	Absorbion & Aggregate specific gravity AASHTO-T85		

TESTING DATE:	11/04/2023	code	Station	514+000	518+500
LOCATION	KP (514+515)	P.S.G Y.N (2)	Material		
NAME COMPANY	yousef Nigida 1		layer thickness		

Weight of sample	2500	gm
Weight of saturated surface dry sample (B)	2534	gm
Weight of saturated sample in water (C)	1465	gm
Weight of dry sample after heating (A)	2480	gm

Results:-

Bulk specific gravity = A / (B-C)	2.320	
Apparent specific gravity = A / (A-C)	2.443	
Asorbton = (B-A)/A	2.177	%

Los Anglos Abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3745	25.10

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

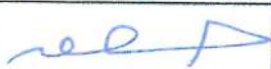
Consultant Engineer

Name :

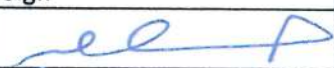
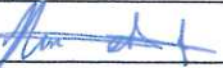
Sign :

Youssef Refat

MATERIAL INSPECTION REQUEST				

Contractor Company	Yousef Negida (1)			Designer Company																
Issued by Contractor	Name	Sign	Date	Time																
	Eng/Shehab Hamdi		18/4/2023																	
Contractor Reference	P.S.G.1 YN(3)																			
Received by ER			MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>18</td> <td>4</td> <td>2023</td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				18	4	2023		
C1	C2	C3	DD	MM	YY	HH	MM													
			18	4	2023															

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

Description of Materials	Curshed Stone P.S.G.1 Material Result				
Location to be Used	516+460 TO	516+480	0.25+		
	516+480 TO	516+560	0.25+		
	514+700 TO	514+800	0.25+		
	514+800 TO	514+900	0.25+		
	514+500 TO	514+640	0.25+		
	516+300 TO	516+350	0.25+		
	516+350 TO	516+460	0.25+		
	514+900 TO	515+040	0.5+		
	518+360 TO	518+500	0.5+		
MAR Approval No	P.S.G.1 YN(3)		Date		
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & P.L & O.M.C %	m3	5000	18-04-2023	
2	Proctor	m3	5000	18-04-2023	
3	Classification	m3	5000	18-04-2023	
4	Sieve Analysis	m3	5000	18-04-2023	
5	C.B.R	m3	5000	18-04-2023	
6	L.A	m3	5000	18-04-2023	
Comments by:			Comments by:		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Eng/ Shehab Hamdi				
QA/QC *	Ahmed Abo Zaid				

MATERIAL APPROVAL REQUEST





Location Name	Contractor Company				Designer Company						
Electric express train	Yousef Negida (1)				k.k						
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Shehab Hamdi		12/4/2023								
Contractor Reference	P.S.G YN(3)										
Received by ER			MAR	C1	C2	C3	DD	M	YY	HH	M
							18	4	2023		

The Following Test Result are Attached For Review				
Description of Materials	P.S.G.1 (A-1-a)			
Location to be Used	514+515			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	10.75 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	6 %	
6	ASTM D 1557	Modified proctor	2.18	
7	ASTM D 1883	CBR	48.7 %	
8	AASHTO-T96	L.A	32.70 %	
Comments by:			Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
QA/QC *				
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد فتحي	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARS MATROUH From Station 504+000 To Station 568+177		 سلطة قناة السويس القاهرة
	Operating lap	Al Tawkol Central Lab	
	PARTICLE SIZE DISTRIBUTION OF SOIL		

TESTING DATE:	16-04-2023	code	ZONE	514+000	518+500
LOCATION	KP (514+515)	P.S.G.Y.N (3)	Material	Prepared Subgrade	
NAME COMPANY	yousef Nigida 1		layer thickness		

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		30154.00		gm	CLASS	table classify
sieve size	0	1.5	1	4/3	2/1	8/3	# 4	PASS		soil classify
Mass retained (g)	0.0	854.0	3214.0	3456.0	2541.0	3654.0	3965.0			A-1-a
Cumulative Retained (g)	0.0	854.0	4068.0	7524.0	10065.0	13719.0	17684.0		PRO	2.18
Cumulative Retained %	0.0	2.8	13.5	25.0	33.4	45.5	58.6		WC	6.0
Cumulative Passing %	100.0	97.2	86.5	75.0	66.6	54.5	41.4		CBR	48.7
									L.A	32.70
									Absorb	3.46

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	115.00	240.00	370.00					
Cumulative Retained %	23.00	48.00	74.00					
Cumulative Passing %	77.00	52.00	26.00					

C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	97.2	86.5	75.0	66.6	54.5	41.4	31.8	21.5	10.75

ATTERBERG LIMITS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	N.L	N.P	N.PI

Contractor




Consultant





Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 7 From FOKA TO MARSA MATROUH
 From Station 80+000 To Station 88+177



MODIFIED PROCTOR TEST ASTM D1557

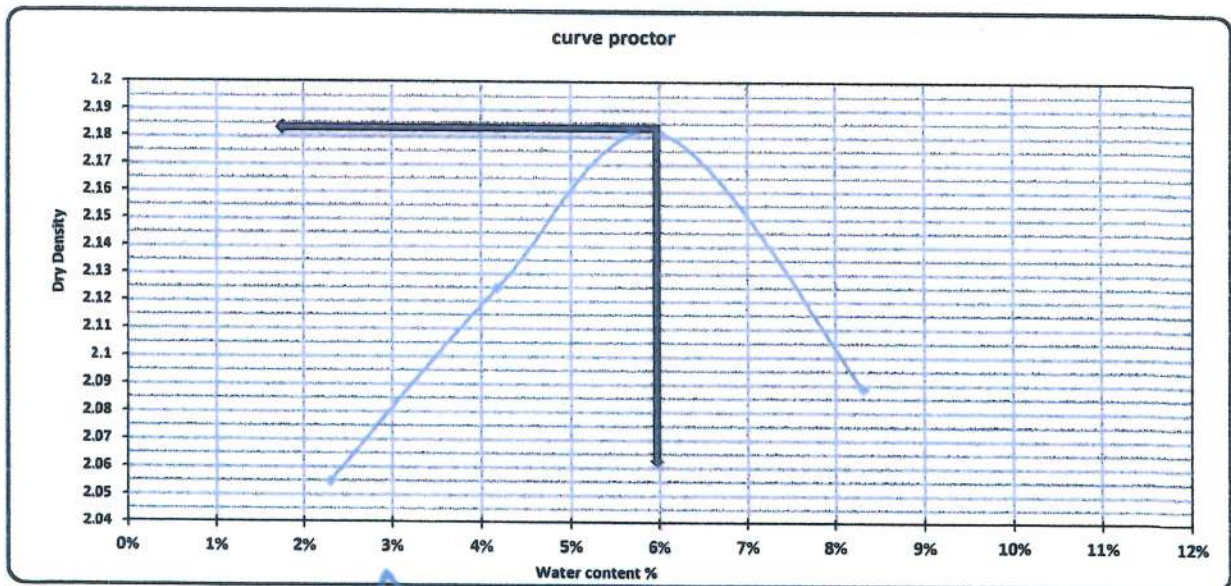
TESTING DATE:	16-04-2023	code	Station	514+000	518+500
LOCATION	KP (514+515)	P.S.G.Y.N (3)	Material	Prepard Subgrade	
NAME COMPANY	yousef Nigida 1		layer thickness		

Weight of empty mold :	5620.0
Mold Volume:	2124.0

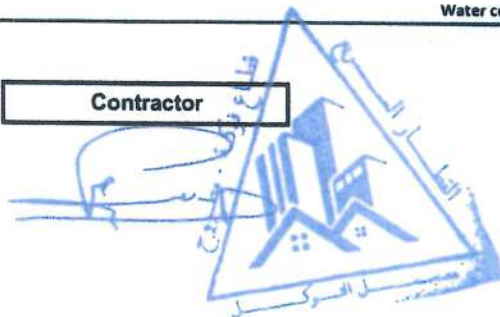
MAX Dry Density	2.18
Water content %	6.0%

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10085.0	10321.0	10532.0	10425	
WT. WET SOIL	4465.0	4701.0	4912.0	4805.0	
Wt. Density	2.102	2.213	2.313	2.262	



Tare No.	21	22	23	24	10	11	12	13		
Tare wt.	56.3	52.63	54.22	53.6	55.68	55.41	52.36	52.14		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	147.90	147.80	146.10	146.20	144.60	144.70	142.40	142.60		
Wt. Of water	2.1	2.2	3.9	3.8	5.4	5.3	7.6	7.4		
Wt. Of dry soil	91.6	95.2	91.9	92.6	88.9	89.3	90.0	90.5		
Water content %	2.3%	2.3%	4.2%	4.1%	6.1%	5.9%	8.4%	8.2%		
AV. Water content %	2.3%		4.2%		6.0%		8.3%			
Dry Density	2.055		2.125		2.182		2.089			



Contractor



Consultant

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد فاضل	Electric Express Train - HSR From El Ain El Sofhne City To El Alamein - MATROUH Section - 7 From PDKA To MARS MATROUH From Station 514+000 To Station 518+177		
	Absorption & Aggregate specific gravity AASHTO-T85		

TESTING DATE:	19/04/2023	code	Station	514+000	518+500
LOCATION	KP (514+515)	P.S.G Y.N (3)	Material	Prepard Subgrade	
NAME COMPANY	yousef Nigida 1		layer thickness		

Weight of sample	2500	gm
Weight of saturated surface dry sample (B)	2545	gm
Weight of saturated sample in water (C)	1340	gm
Weight of dry sample after heating (A)	2460	gm

Results:-

Bulk specific gravity = A / (B-C)	2.041	
Apparent specific gravity = A / (A-C)	2.196	
Absorbtion = (B-A)/A	3.46	%

Los Anglos Abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3365	32.70

Lab. Specialist

Name :

Sign :

Lab. Engineer

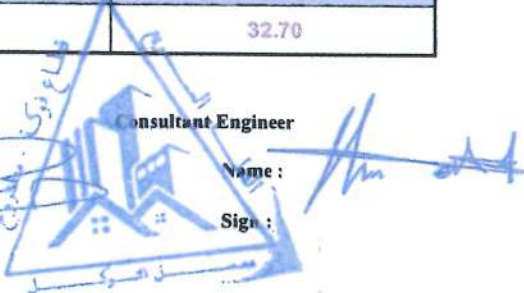
Name :

Sign :

Consultant Engineer

Name :

Sign :





Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date :	18/4/2023	Code	FROM STA :	514+000	518+500
Location :	K.P (514+515)	P.S.G.Y.N (3)	: Material	Prepared Subgrade	
Company Name	yousef Nigida 1		: Layer Thickness		

- : Test Results

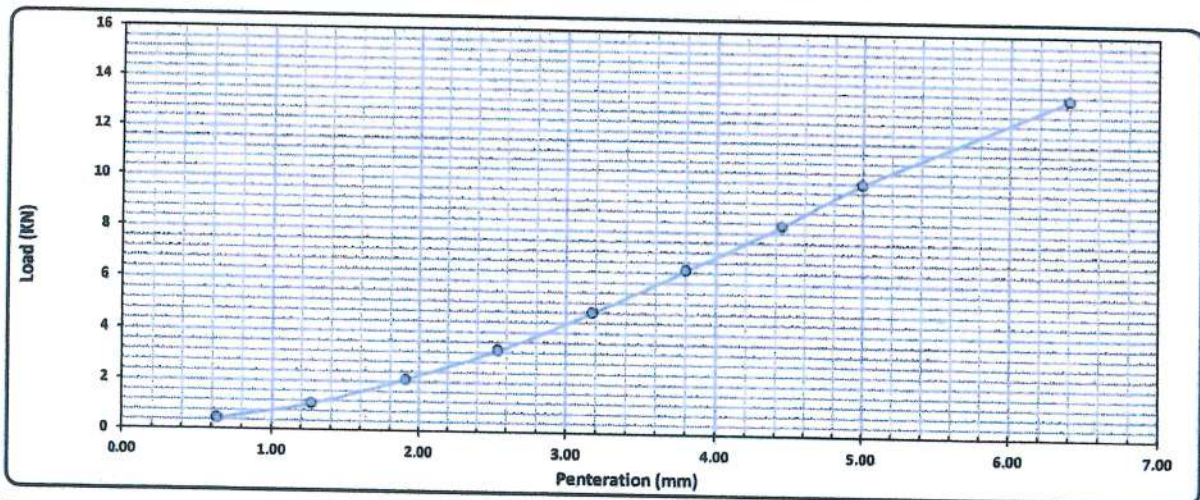
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2120
Mold WT. (gm)	5310
Mold WT. + Wet WT. (gm)	10210
Wet WT. (gm)	4900
Wet Density (g/cm ³)	2.311
Dry Density (g/cm ³)	2.181
Proctor Density (g/cm ³)	2.180
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	6
Tare WT. (gm)	45.33
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	144.65
Water WT. (gm)	5.3
Dry WT. (gm)	89.3
Moisture Content %	6.0

Swelling	
Mold No.	1
Date	18-4/2023
Initial Height (mm)	4.50
Final Height (mm)	4.50
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (Kg)	50	120	231	362	532	720	920	1105	1496
Load (KN)	0.5	1.1	2.1	3.3	4.8	6.5	8.3	9.9	13.5



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(KN)	(lb)	(%)	(%)	(%)	% عند نسبة 98
2.50	3.26	13.4	24.4%	100	98	23.9%
5.00	9.95	20.0	49.7%			48.7%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :

Handwritten signatures and stamps of the Lab. Specialist, Lab. Engineer, and Consultant Engineer.

MATERIAL INSPECTION REQUEST

الهيئة العامة
للتنظيم والرقابة
(GARBT)



KK
CONSULTING OFFICE
مكتب الاستشارات الهندسية
أ.د. خالد شهاب

الهيئة العامة للإعطاء
والقبول



Contractor Company	Yusef Negida (1)		Designer Company	
Issued by Contractor	Name	Sign	Date	Time
	Eng/Shehab Hamdi		12/4/2023	
Contractor Reference	P.S.G.1 YN(4)			
Received by ER		MIR	DD	MM
			2	5
			2023	

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

Description of Materials	Curshed Stone P.S.G.1 Material Result				
Location to be Used	517+860 TO 518+100 (0.50+) 518+100 TO 518+360 (0.50+)				
MAR Approval No	P.S.G.1 YN(4)		Date		
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	LL & P.L & O.M.C %	m3	5000	02-05-2023	
2	Proctor	m3	5000	02-05-2023	
3	Classification	m3	5000	02-05-2023	
4	Sieve Analysis	m3	5000	02-05-2023	
5	C.B.R	m3	5000	02-05-2023	
6	LA	m3	5000	02-05-2023	

Comments by:	Comments by:
	<p>تاريخ الاستلام - الموافق - للطريق مطابقة لمتطلبات حوالي 5000 م</p>

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Shehab Hamdi			
QA/QC *	م.م. / م.م.			
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



الهيئة العامة للإعانة
GENERAL AUTHORITY FOR
TRANSPORT AND INFRASTRUCTURE



الهيئة العامة للإعانة
GENERAL AUTHORITY FOR
TRANSPORT AND INFRASTRUCTURE





الهيئة العامة للإعانة
GENERAL AUTHORITY FOR
TRANSPORT AND INFRASTRUCTURE



الهيئة العامة للإعانة
GENERAL AUTHORITY FOR
TRANSPORT AND INFRASTRUCTURE

Location Name	Contractor Company			Designer Company
Electric express train	Yousef Negida (1)			k.k
Issued by Contractor	Name Eng/Shehab Hamdi	Sign	Date 05/05/2023	Time
Contractor Reference	P.S.G YN(4)			
Received by ER			<div style="display: flex; justify-content: space-around;"> <div>G1</div> <div>G2</div> <div>G3</div> <div>G4</div> <div>G5</div> </div> <div style="display: flex; justify-content: space-around;"> <div>M</div> <div>M</div> <div>M</div> <div>M</div> <div>M</div> </div>	<div style="display: flex; justify-content: space-around;"> <div>2</div> <div>5</div> </div> <div>2023</div>

The Following Test Result are Attached For Review				
Description of Materials		P.S.G.1 (A-1-a)		
Location to be Used		514+515		
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	11.51 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.3 %	
6	ASTM D 1557	Modified proctor	2.18	
7	ASTM D 1883	CBR	98.2 %	
8	AASHTO-T96	LA	33.20 %	
Comments by:				

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	Eng/Shehab Hamdi		
QA/QC *			
GARB **			
Employers Representative			

• Designer
•• Alignment/Bridges: Culvert only

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي لادانة فوكا	Electric Express Train - HSR From El Ain El Sokhna City To El Alameln - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 804+000 To Station 868+177		 وزارة النقل والبنية التحتية 2023
	Operating Iap	Al Tawkol Central Lab	

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	30-04-2023	code	ZONE	514+000	518+500
LOCATION	KP (514+515)	P.S.G Y.N (4)	Material	Prepared Subgrade	
NAME COMPANY	yousef Nigida 1		layer thickness		

1-visual inspection test

2-Gradient test

A-gradation of bulk materials						table classify	
sieve size	0	1.5	1	SAMPLE WEIGHT (g)		gm	soil classify
Mass retained (g)	0.0	1550.0	3960.0	4/3	2/1	22825.00	CLASS
Cumulative Retained (g)	0.0	1550.0	5510.0	2230.0	1705.0	1400.0	
Cumulative Retained %	0.0	6.8	24.1	7740.0	9445.0	10845.0	PRO
Cumulative Passing %	100.0	93.2	75.9	33.9	41.4	47.5	WC
				66.1	58.6	52.5	CBR
						41.1	L.A
							33.20

B-soft material gradation						gm
sieve size	10	40	200	WT.OF sample		500.00
Cumulative Retained (g)	95.00	210.00	360.00			
Cumulative Retained %	19.00	42.00	72.00			
Cumulative Passing %	81.00	58.00	28.00			



C-General gradient							
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 40
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75
Cumulative Passing %	100.0	93.2	75.9	66.1	58.6	52.5	41.1
							33.3
							23.8
							11.51

ATTERBERG LIMITS		LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
		N.L	N.P	N.PI

Contractor

Consultant



	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA TO MARSA MATROUH From Station 504+000 To Station 508+117				

MODIFIED PROCTOR TEST ASTM D1557

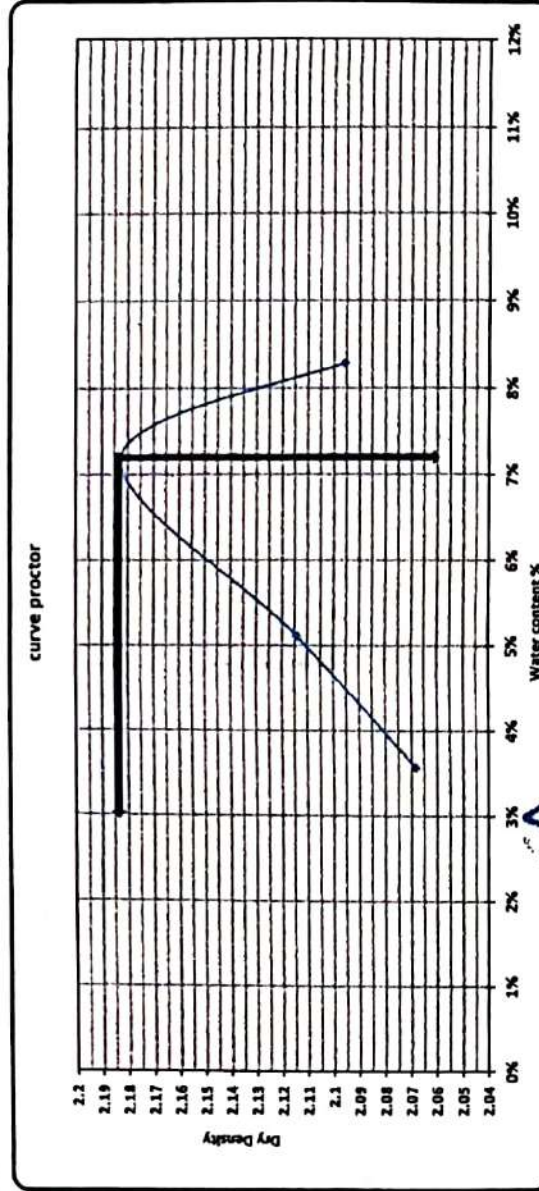
TESTING DATE:	30-04-2023	code	Station	514+000	518+500
LOCATION	KP (514+515)	P.S.G.Y.N (4)	Material	Prepared Subgrade	
NAME COMPANY	yousef Nigida 1		layer thickness		

Weight of empty mold :	5620.0
Mold Volume:	2124.0

MAX Dry Density	2.18
Water content %	7.2%

trial no :	1	2	3	4
Wt. Of Mold+ wet soil	10170.0	10340.0	10590.0	10440
WT. WET SOIL	4550.0	4720.0	4970.0	4820.0
Wt. Density	2.142	2.222	2.340	2.269

Tare No.	18	15	22	14	10	3	2	5
Tare wt.	55.44	54.38	54.76	53.6	54.37	55.67	52.8	56.16
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
Wt. Of dry soil & tare	146.51	146.94	145.65	145.03	143.70	143.60	142.82	142.58
Wt. Of water	3.5	3.1	4.3	5.0	6.3	6.4	7.2	7.4
Wt. Of dry soil	91.1	92.6	90.9	91.4	88.3	87.9	90.0	86.3
Water content %	3.8%	3.3%	4.8%	5.4%	7.1%	7.3%	8.0%	8.6%
A.V. Water content %	3.6%	5.1%	5.1%	5.1%	7.2%	7.2%	8.3%	
Dry Density	2.068	2.114	2.114	2.114	2.183	2.183	2.096	



Contractor

Consultant



Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date :	2/5/2023	Code	FROM STA :	514+000	518+500
Location :	K.P (514+515)	P.S.G.Y.N (4)	: Material	Prepared Subgrade	
Company Name	yousef Nigida 1		: Layer Thickness		

Test Results

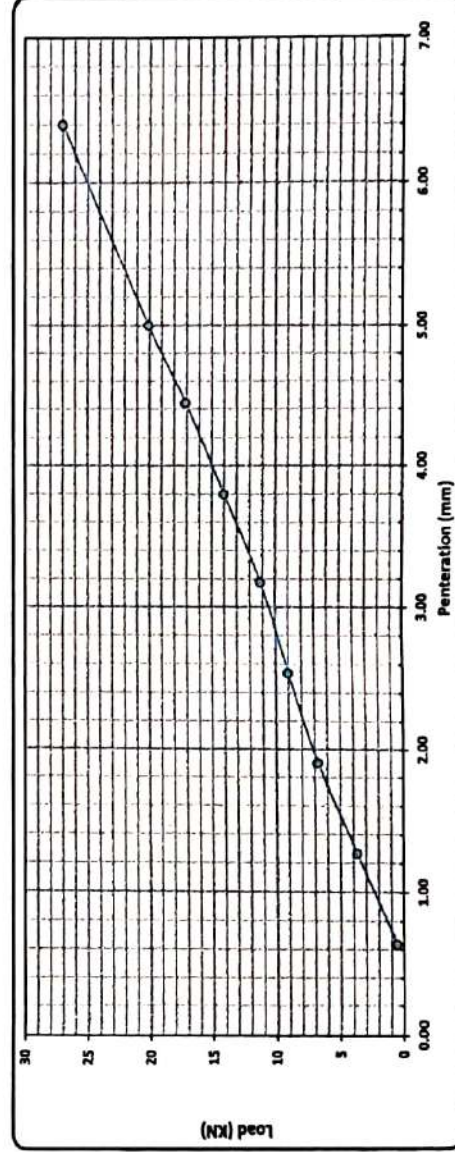
Compaction % for Mold	
Mold No.	3
Mold Vol (cm ³)	2160
Mold WT. (gm)	4822
Mold WT. + Wet WT. (gm)	9570
Wet WT. (gm)	5048
Wet Density (g/cm ³)	2.337
Dry Density (g/cm ³)	2.181
Proctor Density (g/cm ³)	2.180
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	5
Tare WT. (gm)	54.13
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	143.6
Water WT. (gm)	6.4
Dry WT. (gm)	89.3
Moisture Content %	7.2

Swelling	
Mold No.	3
Date	2/5/2023
Initial Height (mm)	6.00
Final Height (mm)	6.00
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (Kg)	60	410	750	1000	1240	1560	1900	2230	3000
Load (KN)	0.5	3.7	6.8	9.0	11.2	14.0	17.1	20.1	27.0



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	9.00	13.4	67.4%			
5.00	20.07	28.0	100.3%	100	98	98.3%

Lab. Specialist

Name :

Sign :

Lab. Engineer



Name :

Sign :

Consultant Engineer

Name :

Sign :

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ا.د. خالد عبدالحل	Electric Express Train - HSR From El Ain El Sakhina City To El Ahmim - MATROUH Section - 7 From FORKA To MARSA MATROUH From Station 504+000 To Station 508+177	
Los Anglos Abrasion AASHTO-T96		

TESTING DATE:	30-04-2023	code	Station	514+000	518+500
LOCATION	KP (514+515)	P.S.G.Y.N (4)	Material	Prepared subgrade	
NAME COMPANY	yousef Nigida I		quantity	5000 m	

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3340	33.20

Lab. Specialist

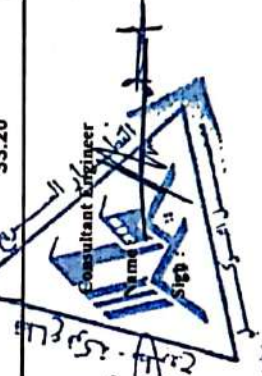
Name :

Sign :

Lab. Engineer

Name :

Sign :



MATERIAL INSPECTION REQUEST	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> الهيئة العامة للمواصلات والنقل (GARBT) </div> <div style="text-align: center;"> المكتب الاستشاري الهندسي لخدمات النقل </div> <div style="text-align: center;"> الهيئة الوطنية للأنفاق </div> <div style="text-align: center;"> الجمعية المصرية للأنفاق </div> </div>
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Contractor Company	Yousef Negida (1)		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng/Shehab Hamdi		17/5/2023																	
Contractor Reference	P.S.G.1 YN(5)																			
Received by ER		MIR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>17</td> <td>5</td> <td>2023</td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				17	5	2023			
C1	C2	C3	DD	MM	YY	HH	MM													
			17	5	2023															

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

Description of Materials	Curshed Stone P.S.G.5 Material Result				
Location to be Used	517+640 ---517+860 0.50+				
	514+500 ---514+640 0.50+				
	516+300 ---516+350 0.50+				
	516+350 ---516+480 0.50+				
	516+480 ---516+560 0.50+				
	514+700 ---514+800 0.50+				
	514+800 ---514+900 0.50+				
	MAR Approval No	P.S.G.1 YN(5)		Date	
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & P.L & O.M.C %	m3	5000	14-05-2023	
2	Proctor	m3	5000	15-05-2023	
3	Classification	m3	5000	14-05-2023	
4	Sieve Analysis	m3	5000	14-05-2023	
5	C.B.R	m3	5000	17-05-2023	
6	L.A & Absorption	m3	5000	16-05-2023	
Comments by:			Comments by:		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Eng/ Shehab Hamdi				
QA/QC *	Youssef Ragab	Youssef Ragab			
GARB**					
Employers Representative					

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



الميناء والنقل
(MAR) و
البنية التحتية
(INFRA)




الميناء والنقل
(MAR) و
البنية التحتية
(INFRA)



الميناء والنقل
(MAR) و
البنية التحتية
(INFRA)



الميناء والنقل
(MAR) و
البنية التحتية
(INFRA)

Location Name	Contractor Company		Designer Company																
Electric express train	Yousef Negida (1)		k.k																
Issued by Contractor	Name Eng/Shehab Hamdi	Sign 	Date 17/05/2023																
Contractor Reference	P.S.G YN(5)																		
Received by ER		MAR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>M</td> <td>YY</td> <td>HH</td> <td>M</td> </tr> <tr> <td></td> <td></td> <td></td> <td>17</td> <td>5</td> <td>2023</td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	M	YY	HH	M				17	5	2023		
C1	C2	C3	DD	M	YY	HH	M												
			17	5	2023														

The Following Test Result are Attached For Review				
Description of Materials		Prepared Subgrade (A-1-a)		
Location to be Used		514+515		
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	11.2 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.4 %	
6	ASTM D 1557	Modified proctor	2.185	
7	ASTM D 1883	CBR	83.9 %	
8	AASHTO-T96	L.A	30 %	
9	AASHTO-T85	Absorption	%4.178	
Comments by:				

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	Eng/Shehab Hamdi		
QA/QC *	Youssef Rafab	Youssef Rafab	
GARB **			
Employers Representative			

* Designer
** Alignment/Bridges: Culvert only

Operating Lab Negida Central Lab

PARTICLE SIZE DISTRIBUTION OF PREPARED SUBGRADE

TESTING DATE:	14-5-2023	Code	Zone	FROM STATION	TO STATIC
LOCATION	KP 514+515	YN(P-6)		514+000	518+500
NAME COMPANY	YOUSEF NEGIDA 1				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)				18798.00	gm	Table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	Soil Classify	A-1-a	
Mass retained (g)	0.0	555.0	1853.0	2724.0	1481.0	2108.0	3551.0		PRO	2.185	
Cumulative Retained (g)	0.0	555.0	2408.0	5132.0	6613.0	8721.0	12272.0		WC	7.40	
Cumulative Retained %	0.0	2.8	12.2	25.9	33.4	44.0	62.0		CBR	83.92%	
Cumulative Passing %	100.0	97.2	87.8	74.1	66.6	56.0	38.0		Los Angeles	30	
									SPECIFIC Gravity	2.354	

B-soft material gradation		WT.OF sample			gm
sieve size	10	40	200		
Cumulative Retained (g)	110.00	264.00	353.00		
Cumulative Retained %	22.00	52.80	70.60		
Cumulative Passing %	78.00	47.20	29.40		

C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	97.2	97.8	74.1	66.6	56.0	38.0	29.7	17.9	11.2
SPECIFICATION	—	97	—	70 — 75	—	15 — 60	—	0 — 35	—	0 — 12

ATTERBERG LIMITS	LIQUID LIMIT (LL)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	—	—	N.P

Contractor

Consultant

Youssef Negida

شركة نجيدة للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح



Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 7 From FOKA TO MARSA MATROUH
From Station 504+000 To Station 508+177



PROCTOR TEST (PREPARED SUBGRADE)

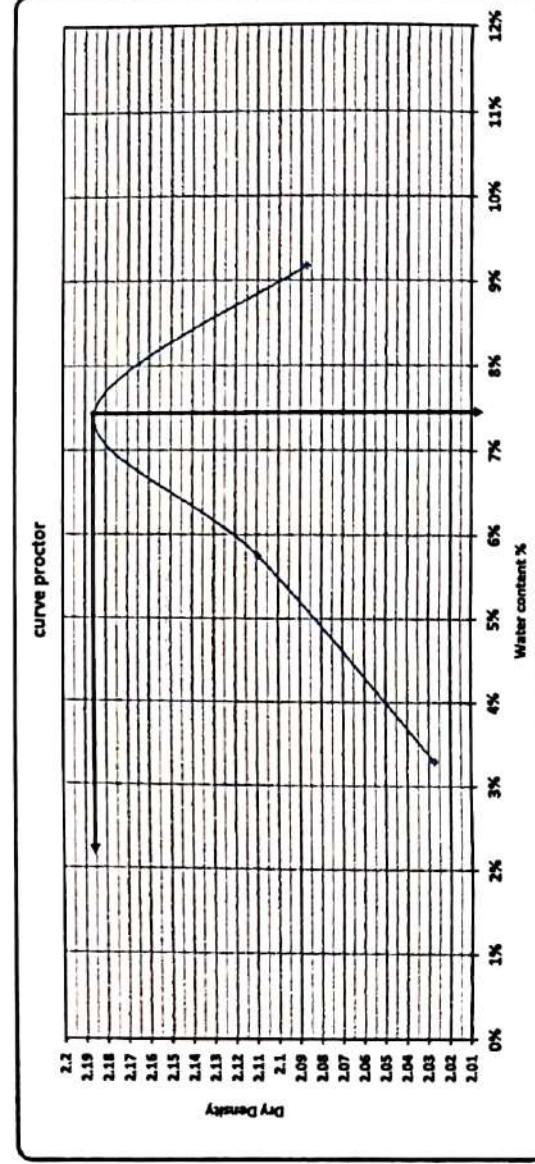
TESTING DATE:	15-5-2023	Code	Zone	FROM	TO
LOCATION	514+515	YM(P-5)		514+000	518+500
NAME COMPANY	YOUSSEF NEGIDA 1				

Weight of empty mold :	5632.0
Mold Volume:	2125.0

MAX Dry Density	2.185
Water content %	

trial no :	1	2	3	4
Wt. Of Mold + wet soil	10102.0	10392.0	10642.0	10495
WT. WET SOIL	4450.0	4740.0	4990.0	4843.0
Wt. Density	2.094	2.231	2.348	2.279

Tare No.	7	19	13	17	15	40	31	32
Tare wt.	42.2	44.1	53.6	53.2	30.9	46.2	80.7	82.7
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
Wt. Of dry soil & tare	146.0	145.9	143.0	142.9	140.8	140.9	138.9	138.5
Wt. Of water	4.0	4.1	7.0	7.1	9.2	9.1	11.1	11.5
Wt. Of dry soil	123.0	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Water content %	3.3%	3.3%	5.7%	5.8%	7.5%	7.4%	9.0%	9.3%
AV. Water content %	3.3%	5.7%	5.7%	5.8%	7.4%	7.4%	9.2%	
Dry Density	2.027	2.110	2.110	2.110	2.186	2.186	2.088	





Contractor

Consultant

شركة نفخيلة للمطاولات
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

Youssef Ragab

 <p>ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي إ. د. خالد قنديل</p>	<p>Electric Express Train - HSR</p> <p>From El Ahn El Sokhna City To El Alamein - MATROUH</p> <p>Section - 7 From FOKA To MARSA MATROUH</p> <p>From Station 504+000 To Station 568+177</p>	 <p>الهيئة العامة للنقل Ministry of Transport</p>
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**Absorption & Aggregate specific gravity
AASHTO-T85**

PREPARED SUBGRADE

TESTING DATE:	16-5-2023	code	ZONE	FROM	TO
LOCATION	514+515	YN(P-5)		514+000	518+500
NAME COMPANY	YUSEF NEGIDA 1				

Weight of sample	gm
Weight of saturated -dry surface sample (B)	4438
Weight of saturated sample in water (C)	2628
Weight of dry sample after heating (A)	4280

Results:-

Bulk specific gravity = $A / (B-C)$	2.354
Apparent specific gravity = $A / (A-C)$	2.610
Absorption = $(B-A)/A$	4.178 %

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3484	30

Lab. Specialist
Name :
Sign :

Lab. Engineer
Name :

Consultant Engineer
Name : *Youssef Negida*
Sign :

شركة نجيدة للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكا - مطروح



Electric Express Train - HSR



Operating Lab AL Naby Central Lab

California Bearing Ratio TEST

PREPARED SUBGRADE	
Testing Date :	17/5/2023
Location :	514+515
Company Name :	YOUSEF NEGIDA 1
Code :	YN(P-5)
FROM :	514+000
TO :	518+500

Test Results

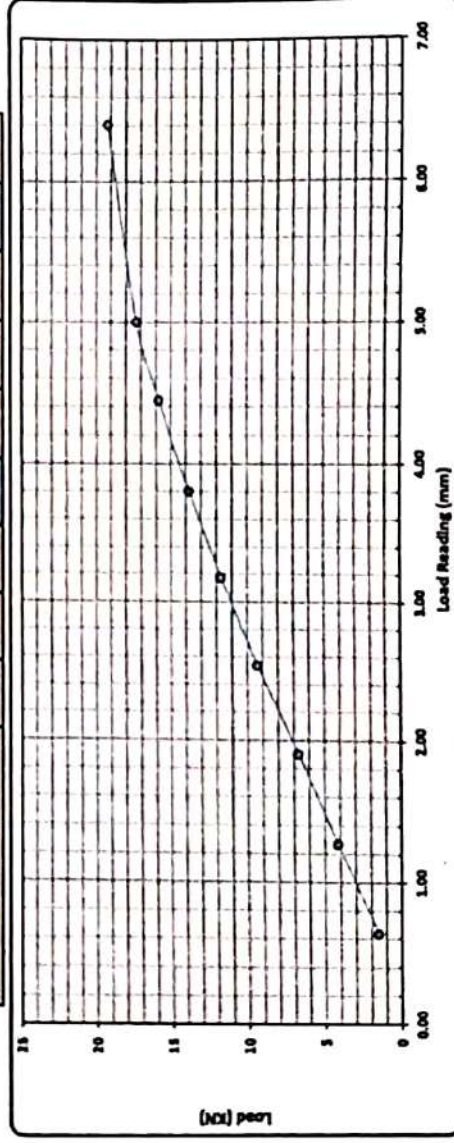
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2103
Mold WT. (gm)	7999
Mold WT. + Wet WT. (gm)	11925
Wet WT. (gm)	4926
Wet Density (g/cm ³)	2.395
Dry Density (g/cm ³)	2.141
Proctor Density (g/cm ³)	2.189
Compaction %	94.9

Moisture Ratio After Compacted Mold	
Tare No.	15
Tare WT. (gm)	31.9
Tare WT. + Wet WT. (gm)	159
Tare WT. + Dry WT. (gm)	142.1
Wet WT. (gm)	7.9
Dry WT. (gm)	116.2
Moisture Content %	7.2

Swelling	
Mold No.	2
Date	17/5/2023
Initial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0
Sample Height (mm)	120.00
Swelling Ratio %	0.0%

Leading Reading

Load Reading (mm)	0.44	1.37	1.91	2.54	3.18	3.89	4.45	5.09	6.40
Load (KN)	1.5	4.3	6.7	9.4	11.7	13.8	15.8	17.2	19.2
Load (KCG)	155.0	438.9	685.0	955.0	1195.0	1408.0	1615.0	1769.0	1963.0



Calculations

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	9.26	13.4	79.3%	94.9	95	64.0%
5.00	17.54	28.9	94.5%			83.9%

Lab. Specialist

Name :

Sign :

Lab. Engineer

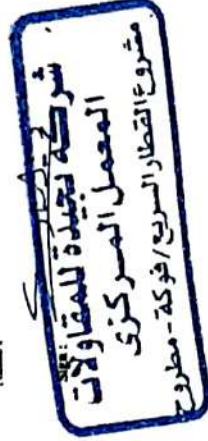
Name :

Sign :

Consultant Engineer

Name :

Sign :



MATERIAL INSPECTION REQUEST

الهيئة العامة
للمرور والنقل
(GAAR)



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



الهيئة القومية للإنفاق
NATIONAL AUTHORITY FOR KUMDIA
PMT



Contractor Company	Yousef Negida (1)		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng/Shehab Hamdi		14/6/2023																	
Contractor Reference	P.S.G YN(6)																			
Received by ER		MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>14</td> <td>6</td> <td>2023</td> <td></td> <td></td> </tr> </table>		C1	C2	C3	DD	MM	YY	HH	MM				14	6	2023		
C1	C2	C3	DD	MM	YY	HH	MM													
			14	6	2023															

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

Description of Materials	Curshed Stone P.S.G.6 Material Result				
	516+560	516+600	0.25+		
	516+560	516+600	0.50+		
	516+600	516+630	0.50+		
	516+630	516+800	0.50+		
	516+800	516+880	0.50+		
	516+880	516+940	0.50+		
MAR Approval No	P.S.G. YN(6)		Date		
Supplier Name					
Test Requirement			Specification	Clause	
Reference Photos	Yes attached / No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & P.L & O.M.C %	m3	5000	11-06-2023	
2	Proctor	m3	5000	12-06-2023	
3	Classification	m3	5000	11-06-2023	
4	Sieve Analysis	m3	5000	11-06-2023	
5	C.B.R	m3	5000	14-06-2023	
6	L.A & Absorption	m3	5000	13-06-2023	
Comments by:			Comments by:		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Eng/ Shehab Hamdi				
QA/QC *	Yousef Ragab				
GARB**					
Employers Representative					

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company			Designer Company								
Electric express train	Yousef Negida (1)			k.k								
Issued by Contractor	Name	Sign	Date	Time								
	Eng/Shehab Hamdi		14/06/2023									
Contractor Reference	P.S.G YN(6)											
Received by ER			MAR	C1	C2	C3	DD	M	M	YY	HH	M
							14	6		2023		

The Following Test Result are Attached For Review				
Description of Materials		Crushed stone (Prepared Subgrade) (A-1-a)		
Location of Stock		514+515		
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	12.7 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Molsture content	7.8 %	
6	ASTM D 1557	Modified proctor	2.198	
7	ASTM D 1883	CBR	73.6 %	
8	AASHTO-T96	L.A	32 %	
9	AASHTO-T85	Absorption	%4.9	
Comments by:			Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
QA/QC *	Youssef Rafeb	Youssef Rafeb		
GARB**				
Employers Representative				

* Designer
** Alignment/Bridges: Culvert only

 KK ENGINEERING CONSULTING OFFICE مكتب الاستشارات الهندسية دة خالد كمال	 SUDA SUDAN SUDAN	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSА MATROUH From Station 504+000 To Station 568+177	 الوزارة للنقل والبنية التحتية (MARTI)
Operating Lab	Negida Central Lab		

PARTICLE SIZE DISTRIBUTION OF PREPARED SUBGRADE

TESTING DATE:	11-6-2023	Code	Zone	FROM STATION	TO STATION
LOCATION	KP 514+515	YM(P-8)		514+000	518+500
NAME COMPANY	YOUSEF NEGIDA 1				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		49447.00		gm	Table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	Soil Classify	A-1-a
Mass retained (g)	186.0	1640.0	9400.0	4378.0	5371.0	3232.0	7132.0		PRO	2.200
Cumulative Retained (g)	186.0	1826.0	11226.0	15604.0	20975.0	24207.0	31339.0		WC	7.80
Cumulative Retained %	0.4	3.7	22.7	31.6	42.4	49.0	63.4		CBR	73.70%
Cumulative Passing %	99.6	96.3	77.3	68.4	57.6	51.0	36.6		Los Angeles	32
									Absorption	4.961

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	78.00	188.00	327.00					
Cumulative Retained %	15.60	37.60	65.40					
Cumulative Passing %	84.40	62.40	34.60					

C-General gradient										
sieve size(In)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	99.6	96.3	77.3	68.4	57.6	51.0	36.6	30.9	22.9	12.7
SPECIFICATION	—	97	—	70 — 75	—	15 — 60	—	0 — 35	—	0 — 12



ATTERBERG LIMITS	LIQUID LIMIT (LL)	PLASTIC LIMIT (P.L)	PLASTIC INDEX (P.I)
	—	—	N.P

Contractor

Consultant

شركة نجيده للمقاولات
 المعمل المركزي
 مشروع القطار السريع / فوكة - مطروح

Youssef Ragab

 MINISTRY OF TRANSPORT AND INFRASTRUCTURE جمهورية مصر العربية جمهورية مصر العربية	 Egyptian Railways سكك الحديد المصرية	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA TO MARSA MATROUH From Station 504+000 To Station 568+177		 MINISTRY OF PLANNING جمهورية مصر العربية

PROCTOR TEST (PREPARED SUBGRADE)

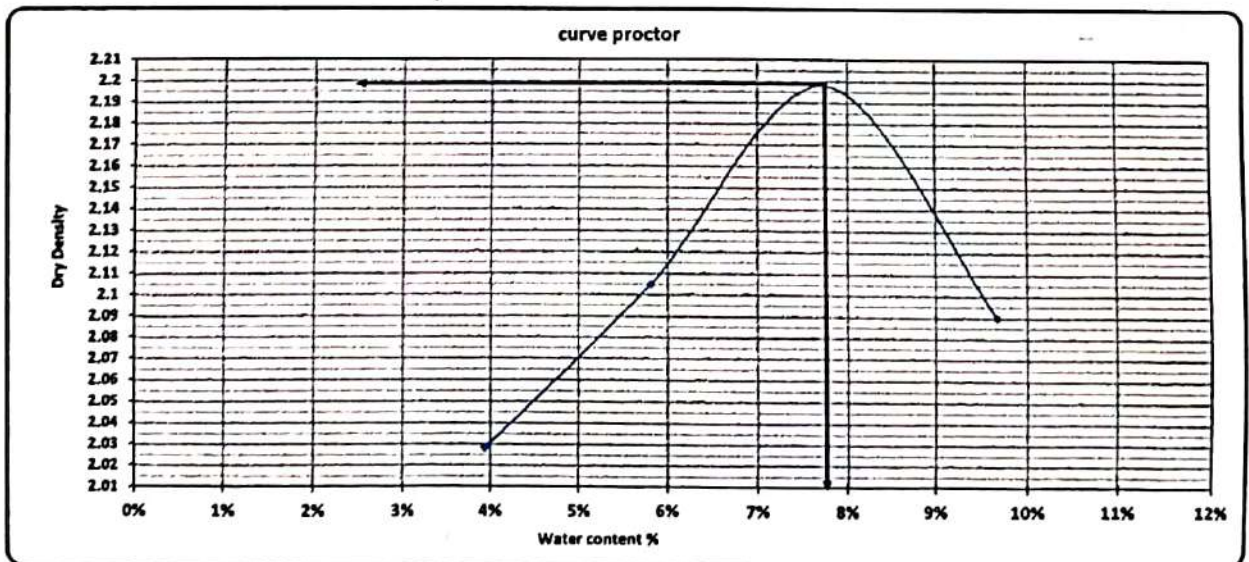
TESTING DATE:	12-6-2023	Code	zone	FROM	TO
LOCATION	514+515	YN(P-6)		514+000	518+500
NAME COMPANY	YOUSEF NEGIDA 1				

Weight of empty mold :	5652.0
Mold Volume:	2125.0

MAX Dry Density	2.198
Water content %	7.8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10132.0	10385.0	10685.0	10523	
WT. WET SOIL	4480.0	4733.0	5033.0	4871.0	
Wt. Density	2.108	2.227	2.368	2.292	

Tare No.	7	19	13	17	15	40	31	32		
Tare wt.	42.2	44.1	53.6	53.2	30.9	46.2	80.7	82.7		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	145.2	145.1	142.9	142.8	140.5	140.4	138.2	138.0		
Wt. Of water	4.8	4.9	7.1	7.2	9.5	9.6	11.8	12.0		
Wt. Of dry soil	123.0	123.0	123.0	123.0	123.0	123.0	123.0	123.0		
Water content %	3.9%	4.0%	5.8%	5.9%	7.7%	7.8%	9.6%	9.8%		
AV, Water content %	3.9%		5.8%		7.8%		9.7%			
Dry Density	2.028		2.105		2.198		2.090			






Contractor

شركة نجيدة للمقاولات
 المعمل المركزي
 مشروع القطار السريع / فوكة - مطروح

Consultant

Yousef Raftab

 GENERAL CONTRACTOR OFFICE مكتب المتكبري الهندسي أ. د. خالد علي	 GENERAL CONTRACTOR OFFICE مكتب المتكبري الهندسي أ. د. خالد علي	Electric Express Train - HSR	 GENERAL CONTRACTOR OFFICE مكتب المتكبري الهندسي أ. د. خالد علي
Operating Lab: AL Nuby Central Lab			

California Bearing Ratio TEST

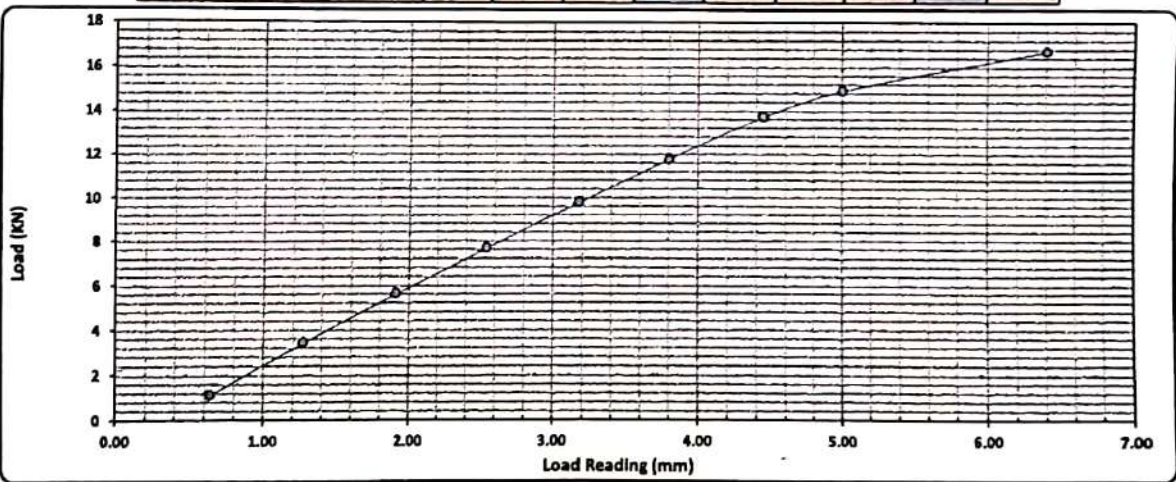
PREPARED SUBGRADE					
Testing Date :	13/6/2023	Code	ZONE	FROM	TO
Location :	514+515	YN(P-6)		514+000	518+500
Company Name	YOUSSEF NEGIDA 1				

- : Test Results

Compaction % for Mold		Moisture Ratio After Compacted Mold		Swelling	
Mold No.	4	Tare No.	15	Mold No.	4
Mold Vol. (cm ³)	2088	Tare WT. (gm)	30.9	Date	13/6/2023
Mold WT. (gm)	8050	Tare WT. + Wet WT. (gm)	186.62	Initial Height (mm)	0.00
Mold WT. + Wet WT. (gm)	12960	Tare WT. + Dry WT. (gm)	175.2	Final Height (mm)	0.00
Wet WT. (gm)	4910	Water WT. (gm)	11.4	Difference	0
Wet Density (g/cm ³)	2.352	Dry WT. (gm)	144.3	Sample Height (mm)	116.40
Dry Density (g/cm ³)	2.179	Moisture Content %	7.9	Swelling Ratio %	0.0%
Proctor Density (g/cm ³)	2.198				
Compaction %	99				

Loading Reading :

Load Reading (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load (KN)	1.1	3.4	5.6	7.7	9.8	11.8	13.7	14.9	16.7
Load (KG)	117.0	352.0	574.0	783.0	999.0	1200.0	1399.0	1522.0	1708.0



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	% حد نسبة 98
2.50	7.67	13.4	57.5%	99	98	56.8%
5.00	14.92	28.0	74.5%			73.6%

Lab. Specialist

Name :

Sign :




Lab. Engineer

شركة زجيدة للمقاولات
 - العمل المرگري -
 مشروع القطار السريع / فوكة - مطروح

Consultant Engineer

Name : *Youssef Ragab*

Sign :

 <p>ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد قنديل</p>	 <p>Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 504+000 To Station 518+177</p>	

**Absorption & Aggregate specific gravity
AASHTO-T85**

PREPARED SUBGRADE

TESTING DATE:	13-6-2023	code	zone	FROM	TO
LOCATION	514+515	YN(P-6)		514+000	518+500
NAME COMPANY	YOUSEF NEGIDA 1				

Weight of sample Before Test	—	gm
Weight of saturated -dry surface sample (B)	5099	gm
Weight of saturated sample in water (C)	3024	gm
Weight of dry sample after heating (A)	4858	gm

Results:-

Bulk specific gravity = $A / (B-C)$	2.341	
Apparent specific gravity = $A / (A-C)$	2.649	
Absorption = $(B-A)/A$	4.961	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3417	32

Lab. Specialist

Name :

Sign :

Lab. Engineer

شركة نجيدة للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

Consultant Engineer

Name : Youssef Ragab

Sign :

MATERIAL INSPECTION REQUEST



Contractor Company	Yousef Negida (1)			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Shehab Hamdi		11/07/2023								
Contractor Reference	YN1-24										
Received by ER			MIR	C1	C2	C3	DD	MM	YY	HH	MM
							11	07	2023		

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

Description of Materials	Fill Material Result		
Location to be Used	515+340	515+500	-0.25
	515+500	515+600	-0.25
	515+600	515+780	-0.25
	515+340	515+500	0.00
	515+500	515+600	0.00
	515+600	515+720	0.00

MAR Approval No	YN1-24		Date	
Supplier Name				
Test Requirement	Specification		Clause	
Reference Photos	Yes attached / No	Other		

Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & P.L & O.M.C %	m3	5000	10-07-2023	
2	Proctor	m3	5000	10-07-2023	
3	Classification	m3	5000	09-07-2023	
4	Sieve Analysis	m3	5000	09-07-2023	
5	C.B.R	m3	5000	11-07-2023	

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Shehab Hamdi			
QA/QC *	Mohammed AL			
GARB**				
Employers Representative				

* Designer
** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company			Designer Company							
Electric express train	Yousef Negida (1)			k.k							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Shehab Hamdi		11/07/2023								
Contractor Reference	YN1-24										
Received by ER			MAR	C1	C2	C3	DD	M	YY	HH	M
							11	07	2023		

The Following Test Result are Attached For Review

Description of Materials	Soil (A-1-a)			
Location of stock	517+600			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	12.4 %	
4	ASTM D 4318	Atterberg limit	3.7	
5	ASTM D 2974	Moisture content	8 %	
6	ASTM D 1557	Modified proctor	2.20	
7	ASTM D 1883	CBR	27 %	
Comments by:			Comments by:	

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
QA/QC *	Mohammed Al			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

Operating Lab Negida Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

Description of Materials Embankment

Testing Date	09-07-23	code	Zone	From Station	TO Station
Location	K.P 517+600	YN-24		514+000	518+500
Company Name	Yousef Negida 1				

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials

				SAMPLE WEIGHT [g]		32652.00		gm		
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	table classify	soil classify
Mass retained (g)	0.0	284.0	1106.0	2673.0	4753.0	3314.0	4466.0			A-1-a
Cumulative Retained (g)	0.0	284.0	1390.0	4063.0	8816.0	12130.0	16596.0		PRO	2.200
Cumulative Retained %	0.0	0.9	4.3	12.4	27.0	37.1	50.8		WC	8
Cumulative Passing %	100.0	99.1	95.7	87.6	73.0	62.9	49.2		CBR	27.0%

B-soft material gradation

				WT.OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	40.00	200.00	374.00				
Cumulative Retained %	8.00	40.00	74.80				
Cumulative Passing %	92.00	60.00	25.20				

C-General gradient

sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	99.1	95.7	87.6	73.0	62.9	49.2	45.2	29.5	12.4

ATTERBERG LIMITS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	21.9%	18.1%	3.7%

Contractor

Consultant

شركة نجدة للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكا - مطروح

Mohammed Ali
30



Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 7 From FOKA TO MARSA MATROUH
From Station 504+000 To Station 568+177



PROCTOR TEST

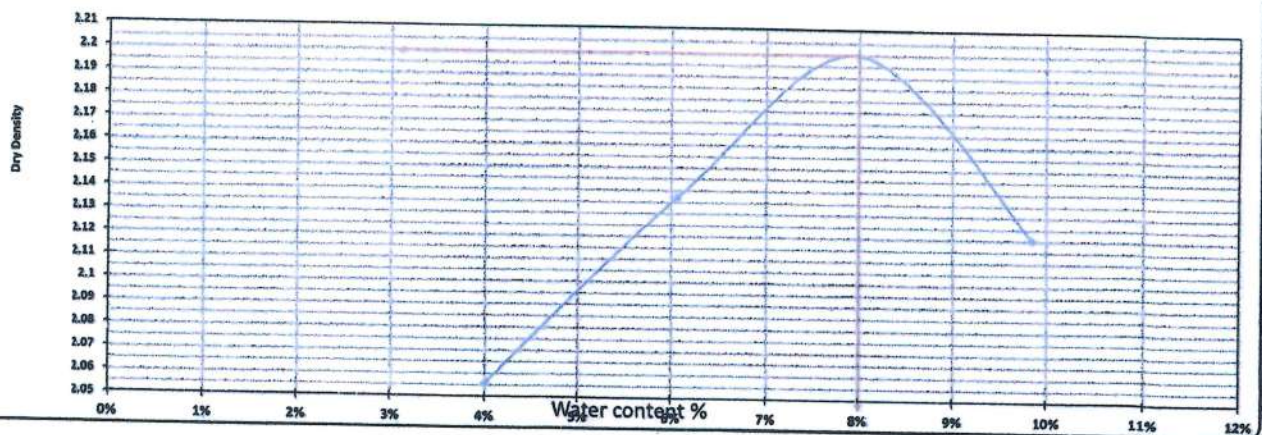
Testing Date	10-07-23	code		From Station	To Station
Location	K P 517+600		Zone	514+000	518+500
Yousef Negida 1	Yousef Negida 1	YN-24			

Weight of empty mold	5652.0	MAX Dry Density	2.2
Mold Volume	2125.0	Water content %	8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10195.0	10469.0	10701.0	10602	
WT. WET SOIL	4543.0	4817.0	5049.0	4950.0	
Wt. Density	2.138	2.267	2.376	2.329	

Tare No.	8	6	7	4	5	6	8	5		
Tare wt.	36.26	38.82	35.99	36.28	35.35	35.8	36.26	35.35		
Wt. Of wet soil & tare	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0		
Wt. Of dry soil & tare	155.20	155.40	152.96	152.88	150.81	150.76	148.93	148.80		
Wt. Of water	4.8	4.6	7.0	7.1	9.2	9.2	11.1	11.2		
Wt. Of dry soil	118.9	116.6	117.0	116.6	115.5	115.0	112.7	113.5		
Water content %	4.04%	3.95%	6.02%	6.11%	7.96%	8.04%	9.83%	9.87%		
AV. Water content %	4.04%	3.95%	6.02%	6.11%	7.96%	8.04%	9.83%	9.87%		
Dry Density	2.096	2.137	2.300	2.121						

curve proctor



Contractor

Consultant

شركة نجيدة المقاولات
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

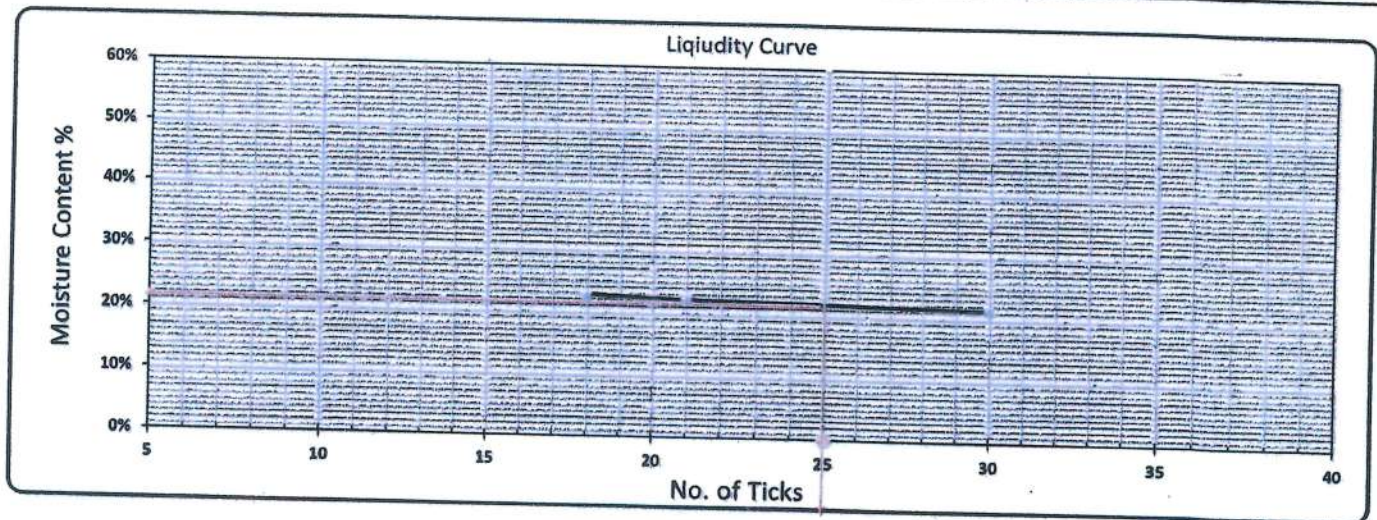
32

Plasticity and Liquidity Test -Atterberg Limits

Testing Date	10-07-23	Code	Zone	From Station	To Station
Location	K.P 517+600	YN-24		514+000	518+500
Company Name	Yousef Negida 1				

Testing Results :-

Test	Liquid Limit				Plastic Limit	
No. of Ticks	30	21	18			
Tare No.	2	8	6		3	4
Tare WT. (gm)	36.63	37.08	38.11		36.17	35.01
Tare WT. + Wet WT. (gm)	55.13	54.70	51.36		44.27	43.65
Tare WT. + Dry WT. (gm)	51.88	51.50	48.90		43.02	42.33
Water WT. (gm)	3.25	3.20	2.46		1.25	1.32
Dry WT. (gm)	15.25	14.42	10.79		6.85	7.32
Moisture Content %	21.9%	22.2%	22.8%		18.1%	18.1%
Average %					18.1%	



L.L	P.L	P.I
21.9%	18.1%	3.7%

Lab. Specialist	Lab. Engineer	Consultant Engineer
Name :	Name :	Name : <i>Mohammed Ali</i>
Sign :	Sign : <i>شركة نجيدة للمقاولات</i>	Sign : <i>11/3</i>

شركة نجيدة للمقاولات
المعمل المركزي
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California Bearing Ratio TEST

Testing Date	11-7-2023	code	From Station	To station
Location	K P 517+600	YN-24	514+000	518+500
Company Name	Yousef Negida I			

Test Results:

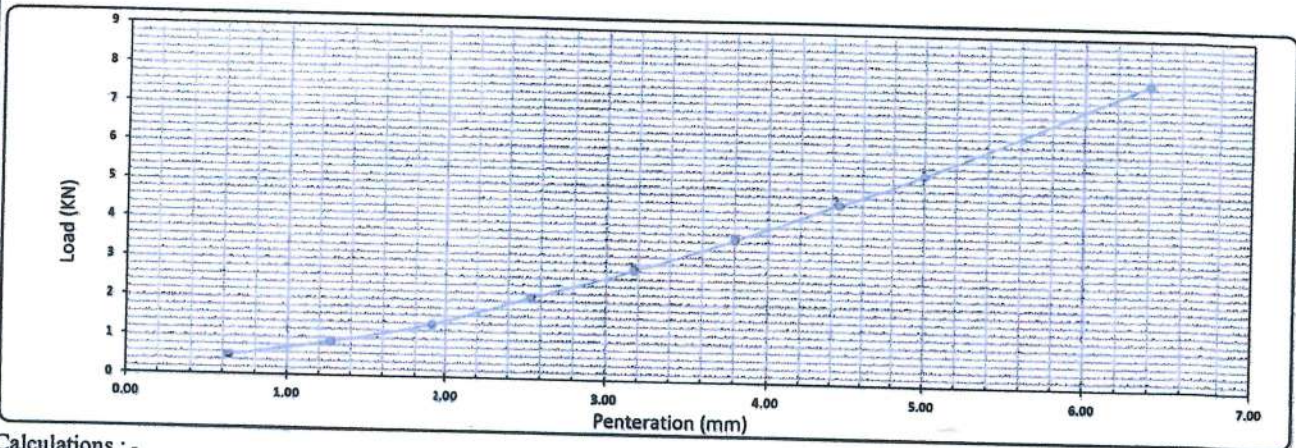
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2134
Mold WT. (gm)	8227
Mold WT. + Wet WT. (gm)	13209
Wet WT. (gm)	4982
Wet Density (g/cm ³)	2.335
Dry Density (g/cm ³)	2.163
Proctor Density (g/cm ³)	2.20
Compaction %	98

Mositure Ratio After Compacted Mold	
Tare No.	5
Tare WT. (gm)	35.35
Tare WT. +Wet WT. (gm)	268.32
Tare WT. +Dry WT. (gm)	251.22
Water WT. (gm)	17.1
Dry WT. (gm)	215.9
Moisture Content %	7.92

Swelling	
Mold No.	2
Date	11-7-2023
Intial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0.00
Sample Height (mm)	116.40
Swelling Ratio %	0%

Loading Reading :

Penteration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (kg)	54	93	141	215	290	375	472	553	805
Load (KN)	0.5	0.9	1.4	2.1	2.8	3.7	4.6	5.4	7.9



Calculations :-

Penteration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	2.11	13.4	15.8%	98	98	15.7%
5.00	5.42	20.0	27.1%			27.0%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :

شركة نجيد للمقاولات
المعمل المركزي
مشروع القطر السريع / فوكة - مطروح

Contractor Company: -

YOUSEF NEGIDA

10/09/2023

Sector Stations: -

514+000 518+500

No.	Stations		Length	Level 1	Level 2	Layer Slope	Fill Volume	Cut Volume		prepared subgrade vol
	Strat	End						Hard soil	Rock	
1	514+000	514+160	160	-	sub g1 +0.25	-4%		1524.76	5952.82	657.800 ✓
2	514+160	514+500	340	0.25+	sub g 2 +0.5	-4%			(300-400)	1324.275 ✓
3	514+500	514+640	140	sub g +0.25	sub g 2 +0.5	-4%				545.125 ✓
4	514+640	514+700	60	ferma	sub g 2 +0.5	-4%				481.500 ✓
5	514+700	514+900	200	sub g +0.25	sub g 2 +0.5	-4%				778.750 ✓
6	514+900	515+040	140	cut +0.25	sub g 2 +0.5	-4%				547.925 ✓
7	515+040	515+180		-	sub g1 +0.25	-4%		233.21	1981.81	575.715 ✓
8	515+180	515+300		-	ferma	-4%	3,806.56 ✓	2140.00	(300-400)	
9	515+300	515+520	220	-0.75	sub g 2 +0.5	-4%				3852.000 ✓
10	515+520	515+680	160	-1	sub g 2 +0.5	-4%	10,533.48 ✓			
11	515+680	515+780	100	-1	sub g 2 +0.5	Transition				
12	515+780	515+800	20	-2	-2	Transition	0.00			
13	515+800	515+840	40	-4.5	-3.5	Transition	1,415.00 ✓			
14	515+840	515+960	120	-4	ferma	flat	14,016.00 ✓			
15	515+960	516+040	80	-	sub g1 +0.25	flat	10,581.70 ✓	2819.00 ✓		328.980 ✓
16	516+040	516+160	120	-4	sub g1 +0.25	flat				
17	516+160	516+240	80	-2.5	sub g1 +0.25	flat	21,916.00 ✓			1401.000 ✓
18	516+240	516+300	60	-1.25	sub g1 +0.25	flat				
19	516+300	516+350	50	ferma	sub g1 +0.25	flat	0.00			
20	516+350	516+460	110	sub g +0.25	sub g 2 +0.5	flat				1238.670 ✓
21	516+460	516+560	100	sub g +0.25	sub g 2 +0.5	flat				
22	516+560	516+600	40	ferma	sub g 2 +0.5	flat				522.400 ✓
23	516+600	516+880	280	0.25+	sub g 2 +0.5	flat				1871.370 ✓
24	516+880	516+950	70	0.25+	0.25+	flat		0.00	(200-300)	
25	516+950	517+180	230	1.25+	0.25+	flat			10736.40 ✓	
26	517+640	518+100	460	sub g +0.25	sub g 2 +0.5	flat				4572.125 ✓
27	518+100	518+500	400	sub g 2 +0.5	sub g 2 +0.5	flat				0.000
SUM							62,268.74 ✓	6,716.97 ✓	18,671.03 ✓	18,697.64 ✓

Contractor Technical Office

Name:

Signature:

Consultant Technical Office

Signature:

