



السيد المهندس / رئيس قطاع التنفيذ والمناطق

بالإحالة إلى مشروع القطار الكهربائي فائق السرعة (فوكة - مطروح) (القطاع السابع)
نتشرف بأن نرفق لسيادتكم طيه المقاييس المعدلة للقطاعات الأتية:

مسلسل	اسم الشركة	بداية القطاع (كم)	نهاية القطاع (كم)	التكلفة (مليون)
1	شركة العنود العربية للمقاولات	525+640	525+760	10414578

وتفضلوا بقبول فائق الاحترام والتقدير،،

١١) ماثي محمد محمد - محمود - رضا - ١١



مشروع القطار الكهربائي السريع

المقايضة المعدلة لبنود الاعمال بعد التفاوض بتاريخ (18/12/2023) للقطاع السابع (فوكه - مطروح) - شركة العنود العربية
القطاع من المحطة 525+640 إلى المحطة 525+760 مرحلة تشكيل الجسور

رقم البند	بيان الأعمال	الوحدة	الكمية	الفئة	الإجمالي
3	اعمال الردم				
3-1	بالمتر المكعب اعمال توريد وتشغيل اترية صالحة للردم و مطابقة للمواصفات والتشغيل باستخدام الات التسوية بسمك لا يزيد عن 50 سم حتي منسوب -2 متر و بسمك لا يزيد عن 25 سم لاستكمال المنسوب التصميمي لتشكيل الجسر والاكتاف (نسبة تحمل كالفورنيا لا تقل عن 15%) و رشها بالمياه الاصولية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول الى اقصى كثافة جافة (95 % من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند بجميع مشتملاته طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف. -في حالة طلب جهاز الإشراف زيادة نسبة الدمك عن 95 % يحسب زيادة 1 جنية علي زيادة نسبة الدمك لكل 1 % - مسافة النقل 2 كم ويتم احتساب علاوة 1.5 جنيه لكل 1 كم بالزيادة أو النقصان -السعر يشمل عمل تشوينات وتخليط واختبارات ونقل لموقع العمل حتي مسافة 2 كم -السعر يشمل قيمة المادة المحجرية طبقا لأفادة المنطقة بهذا القطاع (7) من الكم 504 إلى 568	م3	18,403.565	101.40	1,866,121.54
	علاوة مسافة النقل 303 كم	م3	18,403.565	451.50	8,309,209.81
	علاوة تحصيل رسوم الكارثة والموازين طبقا للائحة الشركة الوطنية	م3	18,403.565	13.00	239,246.35
	الإجمالي				10,414,578
(عشرة ملايين وأربعمائة وأربعة عشر ألفاً وخمسمائة وثمانية وسبعون جنيهاً لا غير)					

مدير عام المشروعات
م / محمد حسني فياض

مدير المشروع المالك
م / إبراهيم الحناوي

مدير المشروع الاستشاري
م / خالد فوزي

مدير المشروع المقاول
م / أحمد رافت

يعتمد
رئيس الإدارة المركزية
منطقة غرب الدلتا

الاسكندرية - مرسى مطروح
عميد مهندس /

" هانى محمد محمود طه "

قائمة الكميات الواردة بالمستخلص جاري (3)

عملية: أعمال الجسر الترابي للخط الاول من مشروع القطار الكهربائي السريع قطاع فوكة / مطروح في المسافة من كم 500+525 الي المحطة 525+880 بطول 0.380 كم
(مرحلة تشكيل الجسور وطبقات التأسيس وعمل خرسانة الميول)
(المنطقة الخامسة - غرب الدلتا)

رقم البند و بيانه : (1-1-5) أعمال توريد وصب خرسانة عادية سمك 15 سم لحماية الأكتاف والميول الجانبية
الكمية المنفذه خلال 22 مارس 2024

تنفيذ : مكتب العنود العربية - محمود علاوي علي علاوي

مقدار العمل السابق : 0 م

الكمية	الابعاد (متر)		الموقع الكيلومتری		بيان الاعمال بالمقايضة
	الارتفاع	طول	الى	من	
919.14	9.8832	93	525+593	525+500	القطاع الأول
675.19	8.6562	78	525+671	525+593	القطاع الثاني
665.21	10.7293	62	525+805	525+743	القطاع الثالث
346.83	12.3867	28	525+833	525+805	القطاع الرابع
434.80	5.6467	77	526+000	525+923	القطاع الخامس
3041.16	اجمالي الكميات خلال فترة المستخلص الحالية (م ²)				
3041.16	الاجمالي الكلي (م ²)				

مهندس الهيئة العامة للطرق

والكباري

م / إبراهيم عبدالله الحناوي

مهندس موقع

الهيئة العامة للطرق والكباري

م / مؤمن محمد سرور

مهندس الإستشاري (xyz)

م / محمد شهاب خليل

مهندس الشركة

م / أحمد رأفت سليمان

قائمة الكميات الواردة بالمستخلص جاري (3)

عملية: أعمال الجسر الترابي للخط الاول من مشروع القطار الكهربائي السريع قطاع فوكة / مطروح في المسافة من كم 500+525 الي المحطة 525+880 بطول 0.380 كم
(مرحلة تشكيل الجسور وطبقات التأسيس وعمل خرسانة الميول)
(المنطقة الخامسة - غرب الدلتا)

رقم البند و بيانه : (2-5) أعمال توريد وصب خرسانة عادية لقدمات الحمايات والميول الجانبية
الكمية المنفذة خلال 22 مارس 2024

تنفيذ : مكتب العنود العربية - محمود علاوي علي علاوي

مقدار العمل السابق : 0 م 3

الكمية	الابعاد (متر)		الموقع الكيلومتری		بيان الاعمال بالمقايضة
	مساحة القطاع	طول	الى	من	
41.00	0.15	93	525+593	525+500	القطاع الأول
21.00	0.30	60	525+653	525+593	القطاع الثاني
3.05	0.15	18	525+671	525+653	القطاع الثالث
8.00	0.30	90	525+833	525+743	القطاع الرابع
3.00	0.15	77	526+000	525+923	القطاع الخامس
76.05	اجمالي الكميات خلال فترة المستخلص الحالية (م ³)				
76.05	الاجمالي الكلي (م ²)				

مهندس الهيئة العامة
للطرق والكباري
م / إبراهيم عبد الله الحناوي

مهندس موقع
الهيئة العامة لطرق والكباري
م / مؤمن محمد سرور

مهندس الإستشاري (xyz)
م / محمد شهاب خليل

مهندس الشركة
م / أحمد رأفت سليمان

MATERIAL INSPECTION REQUEST



Contractor Company	EL-ANOUD AL ARABIA		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng/ Ahmed Rafaat	<i>Ahmed</i>																		
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></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM								
C1	C2	C3	DD	MM	YY	HH	MM													

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

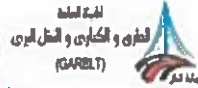
Description of Materials	REPLACEMENT FILL MATERIAL RESULTS				
Location to be Used	From 525+580 to 525+620 (-3) From 525+580 to 525+640 (-2.5) From 525+500 to 525+580 (-0.5) From 525+580 to 525+640 (-2) From 525+620 to 525+640 (-3) From 525+640 to 525+720 (-2) From 525+700 to 525+840 (-1.75)				
MAR Approval No	AN-8			Date	
Supplier Name					
Test Requirement			Specification	Clause	
Reference Photos	Yes attached / No		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & PL & O.M.C %	m3	5000	29-5-2023	
2	Proctor	m3	5000	29-5-2023	
3	Classification	m3	5000	29-5-2023	
4	Seive Anylysis	m3	5000	29-5-2023	
5	C.B.R	m3	5000	30-5-2023	
Comments by:			Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Ahmed	<i>Ahmed</i>		
QA/QC *	Hassan	<i>Hassan</i>		
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company			Designer Company							
Electric express train	AL-ANOUD AL ARABIA			k.k							
Issued by Contractor	Name <i>Ahmed Hassan</i>	Sign <i>Ahmed Hassan</i>	Date	Time							
Contractor Reference	AN- (8) - 29-5-2023										
Received by ER			MAR	C1	C2	C3	DD	MM	YY	HH	MM

NB:Package 1 only (Package 2 via Content)				
The following test result are attached for review				
Description of Materials	Soil (A-1-a)			
Location to be Used	K.p (525+500)			
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	14.6%	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.8	
6	ASTM D 1557	Modified proctor	2.18	
7	ASTM D 1883	CBR	48%	
Comments by:		Comments by:		
		تم اعتماد صلاحية كمية 5000م³ وطابقة المواصفات المطلوبة		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	<i>Ahmed Hassan</i>	<i>Ahmed Hassan</i>		
Contractor QA/QC *	<i>Hassan</i>	<i>Hassan</i>		
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 MARSA MATROUH
From Station 504+000 To Station 568+177



Operating Lab **Negida Central Lab**

PARTICLE SIZE DISTRIBUTION OF SOIL

Description of Materials **Embankment**

Testing Date	29-05-23	code	Zone	From Station		TO Station
Location	K.P 525+600	AN-8		525+500		525+600
Company Name	Alanood Company					

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials				SAMPLE WEIGHT [g]		23789.00	gm	table classify	
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	soil classify
Mass retained (g)	0.0	801.0	3661.0	2450.0	2851.0	1438.0	2592.0		A-1-a
Cumulative Retained (g)	0.0	801.0	4462.0	6912.0	9563.0	11001.0	13593.0	PRO	2.180
Cumulative Retained %	0.0	3.4	18.8	29.1	40.2	46.2	57.1	WC	7.8
Cumulative Passing %	100.0	96.6	81.2	70.9	59.8	53.8	42.9	CBR	48.0%

B-soft material gradation				WT.OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	37.00	172.00	330.00				
Cumulative Retained %	7.40	34.40	66.00				
Cumulative Passing %	92.60	65.60	34.00				

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	96.6	81.2	70.9	59.8	53.8	42.9	39.7	28.1	14.6

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

Contractor

Consultant

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

Hassan
ES



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

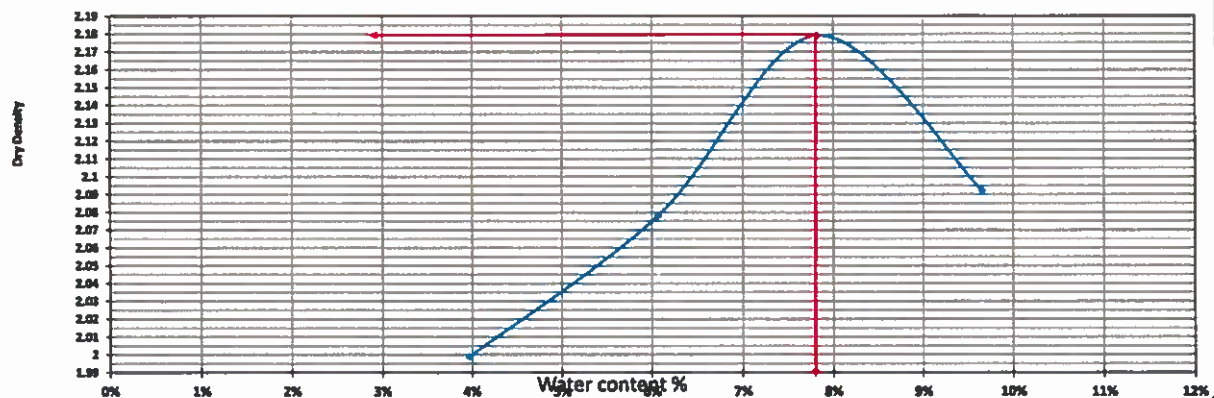
Testing Date	30-05-23	code	Zone	From Station	To Station
Location	K.P 525+600	AN-8		525+500	525+600
Alanood Company	Alanood Company				

Weight of empty mold	5807.0	MAX Dry Density	2.18
Mold Volume	2129.0	Water content %	7.8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10232.0	10500.0	10810.0	10692	
WT. WET SOIL	4425.0	4693.0	5003.0	4885.0	
Wt. Density	2.078	2.204	2.350	2.295	

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	155.35	155.30	153.00	152.83	150.93	151.01	149.02	149.11		
Wt. Of water	4.7	4.7	7.0	7.2	9.1	9.0	11.0	10.9		
Wt. Of dry soil	119.1	116.5	117.0	116.6	115.6	115.2	112.8	113.8		
Water content %	3.90%	4.04%	5.98%	6.15%	7.85%	7.80%	9.74%	9.57%		
AV. Water content %	3.97%		6.07%		7.83%		9.66%			
Dry Density	1.999		2.078		2.179		2.092			

curve proctor



Contractor

Consultant

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

California Bearing Ratio TEST

Testing Date	31-5-2023	code	Zone	From Station	To station
Location	K.P 525+600	AN-8		525+500	525+600
Company Name	Alanoed Company				

Test Results:

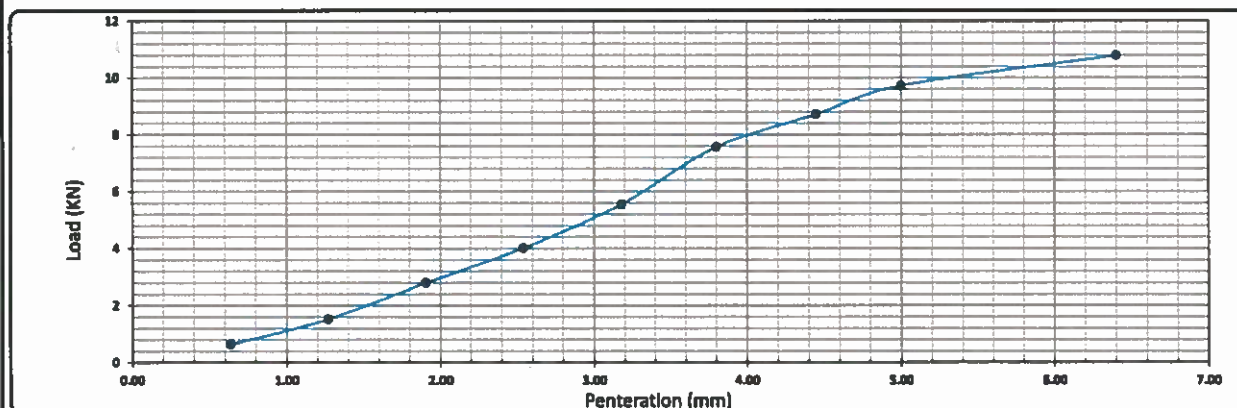
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2170
Mold WT. (gm)	7700
Mold WT. + Wet WT. (gm)	12750
Wet WT. (gm)	5050
Wet Density (g/cm ³)	2.327
Dry Density (g/cm ³)	2.162
Proctor Density (g/cm ³)	2.180
Compaction %	99

Mositure Ratio After Compacted Mold	
Tare No.	8
Tare WT. (gm)	36.26
Tare WT. +Wet WT. (gm)	138.36
Tare WT. +Dry WT. (gm)	131.1
Water WT. (gm)	7.3
Dry WT. (gm)	94.8
Moisture Content %	7.65

Swelling	
Mold No.	1
Date	31-5-2023
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)	65	156	286	410	566	772	890	993	1101
Load (KN)	0.6	1.5	2.8	4.0	5.5	7.6	8.7	9.7	10.8



Calculations :-

Penteration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	4.02	13.4	30.1%	99	98	29.7%
5.00	9.73	20.0	48.6%			48.0%

Lab. Specialist

Lab. Engineer

Consultant Engineer

Name :

Name :

Name :

Sign :

Sign :

شركة توريد البنية التحتية
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

**MATERIAL
INSPECTION
REQUEST**



Contractor Company	EL-ANOUD AL ARABIA		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng/ Ahmed Rafaat	<i>Ahmed PI</i>	28-5-2023																	
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>28</td> <td>5</td> <td>23</td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				28	5	23			
C1	C2	C3	DD	MM	YY	HH	MM													
			28	5	23															

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		

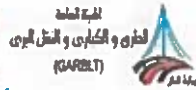
Description of Materials	REPLACEMENT FILL MATERIAL RESULTS				
Location to be Used	From 525+500 to 525+580 (-0.75) From 525+580 to 525+620 (-3.5) From 525+640 to 525+740 (-2.5) From 525+720 to 525+840 (-2) From 525+620 to 525+640 (-3.5)				
MAR Approval No	AN-7			Date	
Supplier Name					
Test Requirement	Specification			Clause	
Reference Photos	Yes attached / No		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & PL & O.M.C %	m3	5000	25-5-2023	
2	Proctor	m3	5000	25-5-2023	
3	Classification	m3	5000	25-5-2023	
4	Seive Anylysis	m3	5000	25-5-2023	
5	C.B.R	m3	5000	28-5-2023	
Comments by:			Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Ahmed Rafaat	<i>Ahmed PI</i>		
QA/QC *	<i>mohamed elsaied</i>	<i>m-elsaied</i>		
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company		Designer Company																	
Electric express train	AL-ANOUD AL ARABIA		k.k																	
Issued by Contractor	Name <i>Ahmed Rafeat</i>	Sign <i>Ahmed Rafeat</i>	Date 28-5-2023	Time																
Contractor Reference	AN- (7) -29-5-2023																			
Received by ER		MAR	<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>28</td><td>5</td><td>23</td><td></td><td></td></tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				28	5	23			
C1	C2	C3	DD	MM	YY	HH	MM													
			28	5	23															

NB:Package 1 only (Package 2 via Content)				
The following test result are attached for review				
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Item	Specification	Test requirement	Test result attachment	Remarks
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2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	13.9%	
4	ASTM D 4318	Atterberg limit	4.2	
5	ASTM D 2974	Moisture content	7.7	
6	ASTM D 1557	Modified proctor	2.172	
7	ASTM D 1883	CBR	44%	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	<i>Ahmed Rafeat</i>	<i>Ahmed Rafeat</i>		
Contractor QA/QC *	<i>mohamed elsaied</i>	<i>m-elsaied</i>		
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

Operating Lab: **Negida Central Lab**

PARTICLE SIZE DISTRIBUTION OF SOIL

Description of Materials: **Embankment**

Testing Date	25-05-23	code	Zone	From Station		TO Station
Location	K.P 525+600	AN-7				
Company Name	Alanood Company					

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials				SAMPLE WEIGHT [g]		21385.00	gm	table classify	
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	soil classify
Mass retained (g)	372.0	1061.0	2900.0	2395.0	2784.0	1314.0	2487.0		A-1-a
Cumulative Retained (g)	372.0	1061.0	3961.0	6356.0	9140.0	10454.0	12941.0	PRO	2.172
Cumulative Retained %	1.7	5.0	18.5	29.7	42.7	48.9	60.5	WC	7.7
Cumulative Passing %	98.3	95.0	81.5	70.3	57.3	51.1	39.5	CBR	44.0%

B-soft material gradation				WT.OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	46.00	165.00	324.00				
Cumulative Retained %	9.20	33.00	64.80				
Cumulative Passing %	90.80	67.00	35.20				

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 %	98.3	95.0	81.5	70.3	57.3	51.1	39.5	35.9	26.5	13.9

ATTERBERG LIMITS	LIQUID LIMIT (LL)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	19.6%	15.4%	4.2%

Contractor

Consultant

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

mohamed elsayegh
m.elsayegh

28-5-2023



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

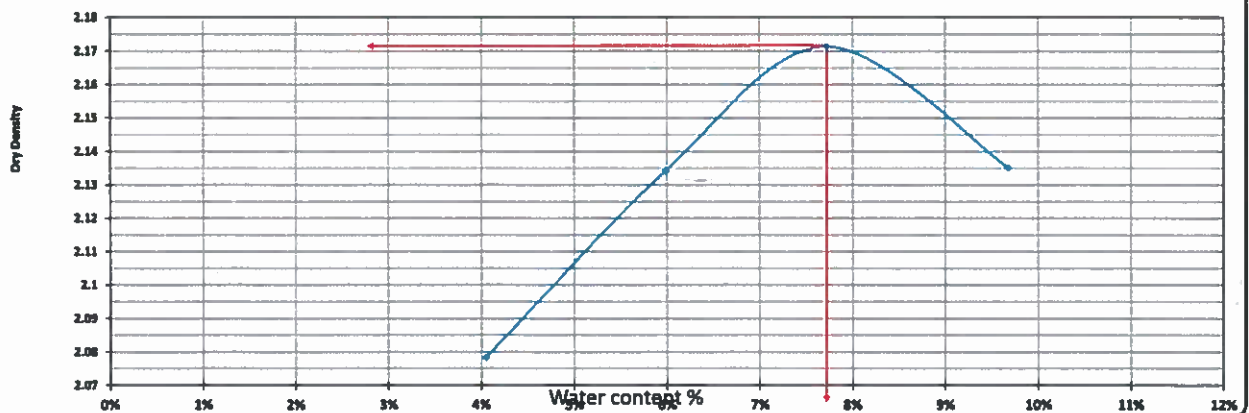
Testing Date	27-05-23	code	Zone	From Station	To Station
Location	KP 525+800	AN-7			
Alanood Company	Alanood Company				

Weight of empty mold	5807.0	MAX Dry Density	2.172
Mold Volume	2129.0	Water content %	7.7

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10411.0	10623.0	10787.0	10793	
WT. WET SOIL	4604.0	4816.0	4980.0	4986.0	
Wt. Density	2.163	2.262	2.339	2.342	

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	155.29	155.18	153.03	152.98	151.02	151.14	148.99	149.09		
Wt. Of water	4.7	4.8	7.0	7.0	9.0	8.9	11.0	10.9		
Wt. Of dry soil	119.0	116.4	117.0	116.7	115.7	115.3	112.7	113.7		
Water content %	3.96%	4.14%	5.96%	6.02%	7.76%	7.68%	9.77%	9.59%		
AV. Water content %	4.05%	5.99%	7.72%	9.68%						
Dry Density	2.078	2.134	2.171	2.135						

curve proctor



Contractor

Consultant

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

mohamed elszaid

m. elszaid

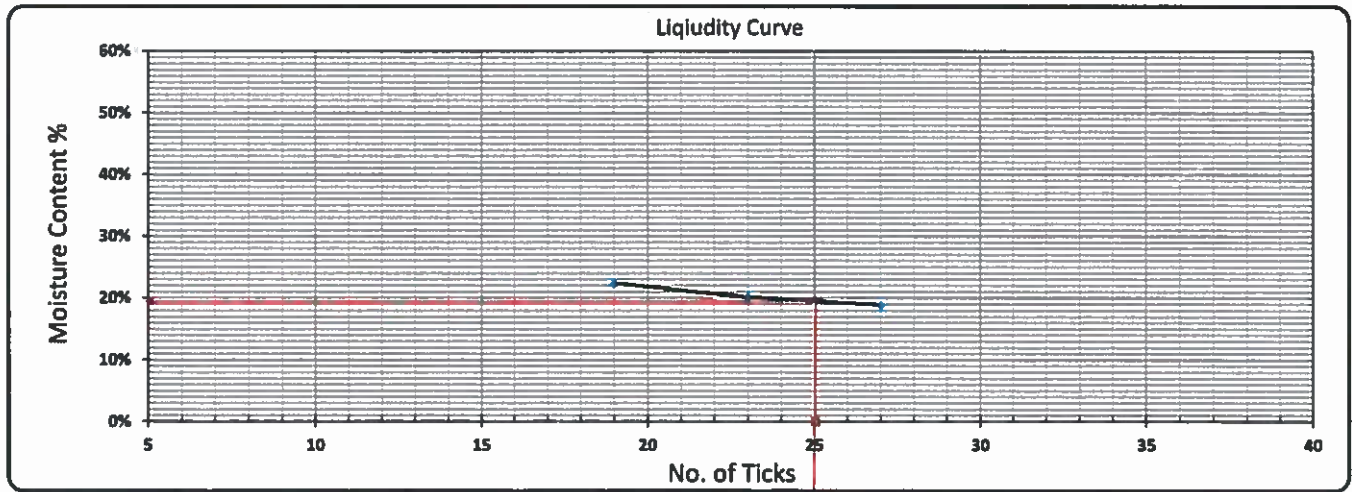
28-5-2023

Plasticity and Liquidity Test - Atterberg Limits

Testing Date	28-05-23	Code	Zone	From Station		To Station
Location	K.P 525+600	AN-7				
Company Name	Alanood Company					

Testing Results :-

Test	Liquid Limit				Plastic Limit	
No. of Ticks	27	23	19		-	-
Tare No.	8	6	7		5	6
Tare WT. (gm)	36.26	35.82	35.99		35.35	35.80
Tare WT. + Wet WT. (gm)	53.12	55.53	54.08		43.17	45.21
Tare WT. + Dry WT. (gm)	50.44	52.22	50.77		42.13	43.95
Water WT. (gm)	2.68	3.31	3.31		1.04	1.26
Dry WT. (gm)	14.18	16.40	14.78		6.78	8.15
Moisture Content %	18.9%	20.2%	22.4%		15.3%	15.5%
Average %					15.4%	



L.L	P.L	P.I
19.6%	15.4%	4.2%

Lab. Specialist	Lab. Engineer	Consultant Engineer
Name :	Name :	Name : mohamed elsaid
Sign :	Sign :	Sign : m.elsaid

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

28-5-2023

California Bearing Ratio TEST

Testing Date	28-5-2023	code	Zone	From Station	To station
Location	K.P.525+600	AN-7			
Company Name	Alanoood Company				

Test Results:

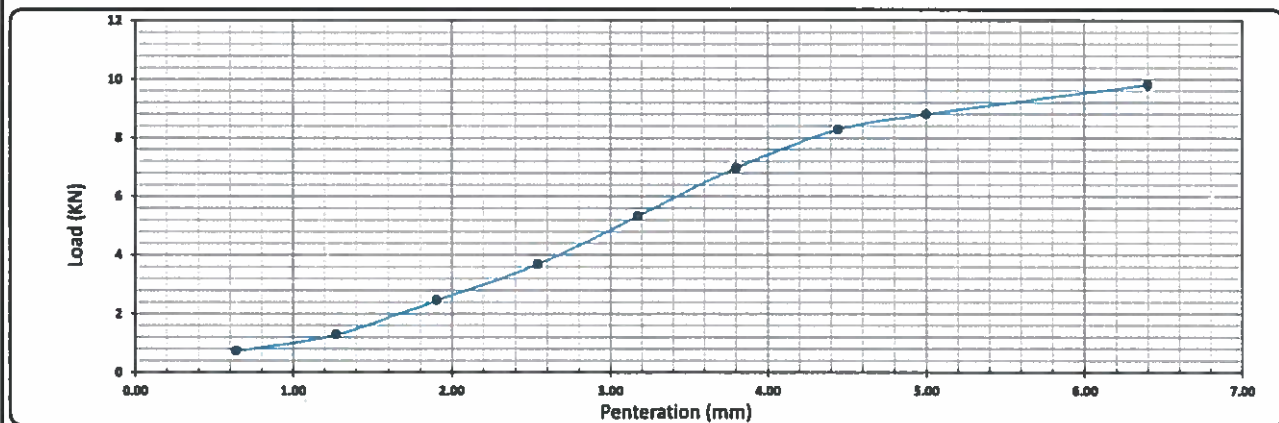
Compaction % for Mold	
Mold No.	3
Mold Vol. (cm ³)	2103
Mold WT. (gm)	7099
Mold WT. + Wet WT. (gm)	11910
Wet WT. (gm)	4811
Wet Density (g/cm ³)	2.288
Dry Density (g/cm ³)	2.127
Proctor Density (g/cm ³)	2.172
Compaction %	98

Moisture Ratio After Compacted Mold	
Tare No.	5
Tare WT. (gm)	35.35
Tare WT. + Wet WT. (gm)	170.5
Tare WT. + Dry WT. (gm)	160.98
Water WT. (gm)	9.5
Dry WT. (gm)	125.6
Moisture Content %	7.58

Swelling	
Mold No.	3
Date	28-5-2023
Initial 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)	76	133	252	376	544	712	845	899	1002
Load (KN)	0.7	1.3	2.5	3.7	5.3	7.0	8.3	8.8	9.8



Calculations :-

Penteration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	عدد نسبة 98 %
2.50	3.68	13.4	27.6%	98	98	27.6%
5.00	8.81	20.0	44.0%			44.0%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

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

Consultant Engineer

Name : mohamed elsaie

Sign : m-elsaie

28-5-2023

MATERIAL INSPECTION REQUEST



Contractor Company	EL-ANOUD AL ARABIA		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng/ Ahmed Rafaat	<i>Ahmed</i>	18-5-2023																	
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>5</td> <td>23</td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				18	5	23			
C1	C2	C3	DD	MM	YY	HH	MM													
			18	5	23															

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		

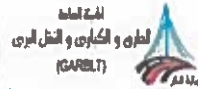
Description of Materials	REPLACEMENT FILL MATERIAL RESULTS					
Location to be Used	From 525+620 to 525+640 (-4.5) From 525+580 to 525+620 (-4) From 525+640 to 525+720 (-3) From 525+580 to 525+620 (-4.5) From 525+740 to 525+840 (-2.5) from 525+500 to 525+580 (-1.25) From 525+500 to 525+580 (-1) from 525+620 to 525+640 (-4)					
MAR Approval No	AD-6			Date		
Supplier Name						
Test Requirement	Specification			Clause		
Reference Photos	Yes attached / No	Other				
Item	Description	Unit	Quantity	Arrival Date	Note	
1	L.L & PL & O.M.C %	m3	5000	16-5-2023		
2	Proctor	m3	5000	16-5-2023		
3	Classification	m3	5000	16-5-2023		
4	Seive Anylasis	m3	5000	16-5-2023		
5	C.B.R	m3	5000	17-5-2023		
Comments by:		Comments by:				

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Ahmed Rafaat	<i>Ahmed</i>		
QA/QC *	Mohamed elsaied	<i>metraied</i>		
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company			Designer Company							
Electric express train	AL-ANOUD AL ARABIA			k.k							
Issued by Contractor	Name	Sign	Date	Time							
	Ahmed Rafaat	<i>Ahmed Rafaat</i>	18-5-2023								
Contractor Reference	AD- (6) - 17-5-2023										
Received by ER			MAR	C1	C2	C3	DD	MM	YY	HH	MM
							18	5	23		

NB:Package 1 only (Package 2 via Content)				
The following test result are attached for review				
Description of Materials	Soil (A-1-a)			
Location to be Used	K.p (525+500)			
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	12.3%	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	6.8	
6	ASTM D 1557	Modified proctor	2.182	
7	ASTM D 1883	CBR	56.90%	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Rafaat	<i>Ahmed Rafaat</i>		
Contractor QA/QC *	mohamed elsaid	<i>m.elsaid</i>		
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 MARSA MATROUH
From Station 504+000 To Station 568+177



Operating Lab **AL Nuby Central Lab**

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	16-05-2023	Code	zone	525+500	526+000
LOCATION	K.P (525+500)	AD (6)			
NAME COMPANY	AL Anoud				

Visual inspection test

Gradient test

gradation of bulk materials				SAMPLE WEIGHT (g)		27683.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	
Mass retained (g)	0.0	0.0	0.0	7496.0		0.0	7557.0		soil classify
umulative Retained (g)	0.0	0.0	0.0	7496.0	7496.0	7496.0	15053.0		A-1-a
Cumulative Retained %	0.0	0.0	0.0	27.1	27.1	27.1	54.4		PRO
Cumulative Passing %	100.0	100.0	100.0	72.9	72.9	72.9	45.6		WC
									CBR

soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
umulative Retained (g)	37.00	162.00	365.00					
Cumulative Retained %	7.40	32.40	73.00					
Cumulative Passing %	92.60	67.60	27.00					

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	100.0	100.0	72.9	72.9	72.9	45.6	42.2	30.8	12.3

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

Contractor

Consultant

mohamed elsaied

m. elsaied

24-5-2023

PROCTOR TEST

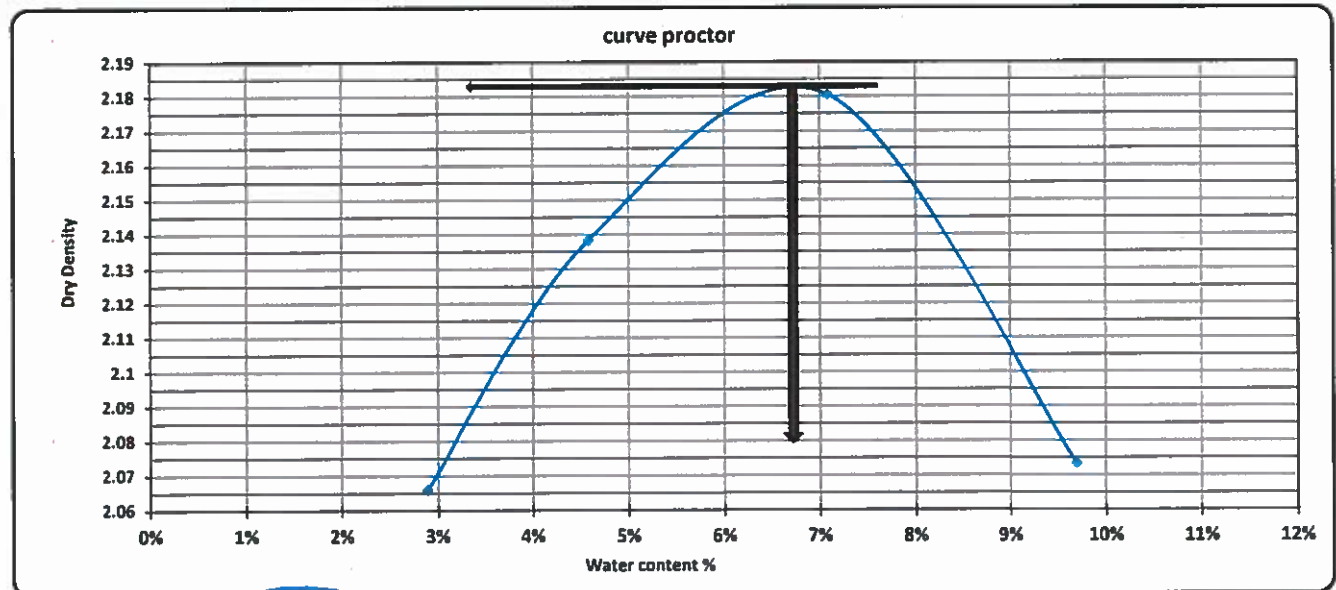
TESTING DATE:	16-05-2023	Code	zone	525+500	526+000
LOCATION	K.P (525+500)	AD (\$)			
NAME COMPANY	AL Anoud				

Weight of empty mold :	6042.0
Mold Volume:	2106.0

MAX Dry Density	2.182
Water content %	6.8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10519.0	10752.0	10960.0	10832	
WT. WET SOIL	4477.0	4710.0	4918.0	4790.0	
Wt. Density	2.126	2.236	2.335	2.274	

Tare No.	10	33	32	40	20	29	22	18		
Tare wt.	43.7	81.3	85.4	45.5	59.2	31.4	62.2	54.5		
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	146.8	148.2	147.3	145.2	143.8	142.4	142.2	141.6		
Wt. Of water	3.2	1.8	2.7	4.8	6.2	7.6	7.8	8.4		
Wt. Of dry soil	103.1	66.9	61.9	99.7	84.6	111.0	80.0	87.1		
Water content %	3.1%	2.7%	4.4%	4.8%	7.3%	6.8%	9.8%	9.6%		
AV. Water content %	2.9%		4.6%		7.1%		9.7%			
Dry Density	2.066		2.138		2.181		2.073			



Consultant

mohamed elsaied
m. elsaied
24-5-2023

California Bearing Ratio TEST

Testing Date :	18-05-2023	Code	FROM STA :	525+500	526+000
Location :	K.P (525+500)	AD (6)			
Company Name	AL Anoud				

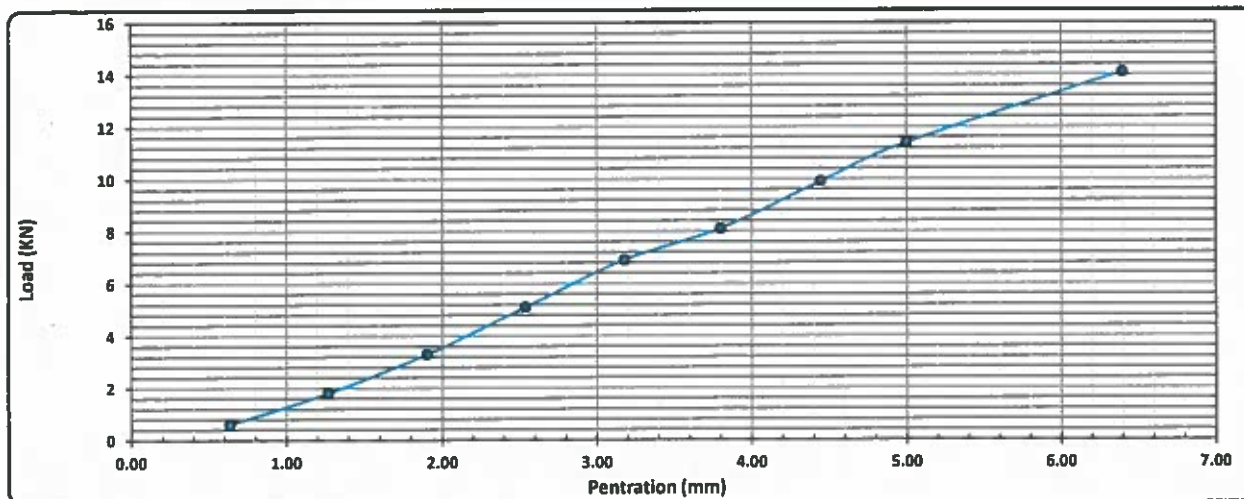
:- Test Results

Compaction % for Mold	
Mold No.	5
Mold Vol. (cm ³)	2122
Mold WT. (gm)	5075
Mold WT. + Wet WT. (gm)	9908
Wet WT. (gm)	4833
Wet Density (g/cm ³)	2.278
Dry Density (g/cm ³)	2.139
Proctor Density (g/cm ³)	2.182
Compaction %	98.0

Moisture Ratio After Compacted Mold	
Tare No.	45
Tare WT. (gm)	41.5
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	143.4
Wt. Water	6.6
Dry WT. (gm)	101.9
Moisture Content %	6.5

Swelling	
Mold No.	5
Date	18-05-2023
Initial Height (mm)	5.50
Final Height (mm)	5.50
Difference	0
Sample Height (mm)	120.00
Swelling Ratio %	0.0%

Pentration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (mm)	0.02	0.06	0.11	0.17	0.23	0.27	0.33	0.38	0.47
Load (KN)	0.6	1.8	3.3	5.1	6.9	8.1	9.9	11.4	14.1



Calculations :-

Pentration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	98 عند نسبة %
2.50	5.10	13.4	38.2%	98	98	38.2%
5.00	11.40	20.0	56.9%			56.9%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :

mohamed elsaied

m. elsaied 24-5-2023

MATERIAL INSPECTION REQUEST



Contractor Company	EL-ANOUD AL ARABIA		Designer Company	
Issued by Contractor	Name	Sign	Date	Time
	Eng/ Ahmed Rafaat			
Received by ER			MIR	

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		

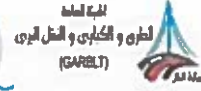
Description of Materials	REPLACEMENT FILL MATERIAL RESULTS				
Location to be Used	From S25+500 to S25+580 (-1.5) From S25+640 to S25+720 (-3.5) From S25+580 to S25+620 (-5) From S25+620 to S25+640 (-5) From S25+720 to S25+840 (-3)				
MAR Approval No	AN-5			Date	
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & PL & O.M.C %	m3	5000	20-5-2023	
2	Proctor	m3	5000	20-5-2023	
3	Classification	m3	5000	20-5-2023	
4	Seive Anylasis	m3	5000	20-5-2023	
5	C.B.R	m3	5000	20-5-2023	
Comments by:			Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Ahmed Rafaat			
QA/QC *	Hassan			
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company			Designer Company							
Electric express train	AL-ANOUD AL ARABIA			k.k							
Issued by Contractor	Name	Sign	Date	Time							
	Ahmed Rafaat										
Contractor Reference	AN- (5) -20-5-2023										
Received by ER			MAR	C1	C2	C3	DD	MM	YY	HH	MM

NB:Package 1 only (Package 2 via Content)				
The following test result are attached for review				
Description of Materials	Soil (A-1-a)			
Location to be Used	K.p (525+500)			
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	10.6%	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7	
6	ASTM D 1557	Modified proctor	2.184	
7	ASTM D 1883	CBR	65.23%	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Rafaat			
Contractor QA/QC *	Hassan			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

Operating Lab: **Nagida Central Lab**

PARTICLE SIZE DISTRIBUTION OF SOIL

Description of Materials: **Embankment**

Testing Date	16-05-23	code		From Station		TO Station
Location	525+600					
Company Name	Alanoud	AN-5	Zone			

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials				SAMPLE WEIGHT [g]		11641.00	gm		table classify
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	soil classify
Mass retained (g)	427.0	1855.0	1304.0	905.0	1416.0	726.0	1398.0		A-1-a
Cumulative Retained (g)	427.0	2282.0	3586.0	4491.0	5907.0	6633.0	8029.0	PRO	2.184
Cumulative Retained %	3.7	19.6	30.8	38.6	50.7	57.0	69.0	WC	7
Cumulative Passing %	96.3	80.4	69.2	61.4	49.3	43.0	31.0	CBR	65.23%

B-soft material gradation				WT.OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	84.00	230.00	329.00				
Cumulative Retained %	16.80	46.00	65.80				
Cumulative Passing %	83.20	54.00	34.20				

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 %	96.3	80.4	69.2	61.4	49.3	43.0	31.0	25.8	16.8	10.6

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

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

Consultant

Hasan



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



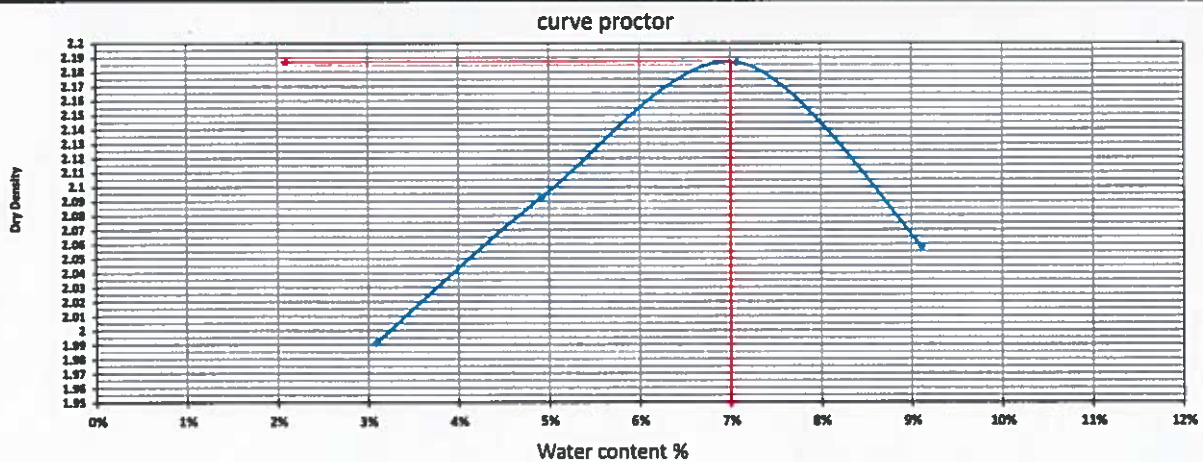
PROCTOR TEST

Testing Date	17-05-23	code		From Station	To Station
Description of Materials	Embankment				
Location	525+800				
Alanoud	Alanoud	AN-5	Zone		

Weight of empty mold	5807.0	MAX Dry Density	2.184
Mold Volume	2129.0	Water content %	7

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10177.0	10482.0	10792.0	10588	
WT. WET SOIL	4370.0	4675.0	4985.0	4781.0	
Wt. Density	2.053	2.196	2.341	2.246	

Tare No.	1	2	3	4	5	6	1	2		
Tare wt.	29.06	26.85	28.05	25.87	26.75	27.61	35.48	35.76		
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	156.00	156.08	153.79	153.72	151.03	151.42	149.66	149.55		
Wt. Of water	4.0	3.9	6.2	6.3	9.0	8.6	10.3	10.5		
Wt. Of dry soil	126.9	129.2	125.7	127.9	124.3	123.8	114.2	113.8		
Water content %	3.15%	3.03%	4.94%	4.91%	7.22%	6.93%	9.06%	9.18%		
AV. Water content %	3.09%	4.93%	7.07%	9.12%						
Dry Density	1.991	2.093	2.187	2.058						



Contractor
شركة نجيلة للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

Consultant

[Signature]

California Bearing Ratio TEST

Testing Date	20-5-2023	code		From Station		To station	
Description of Materials	Embankment						
Location	525+600	Zone					
Company Name	Alanoud	AN-5					

Test Results:

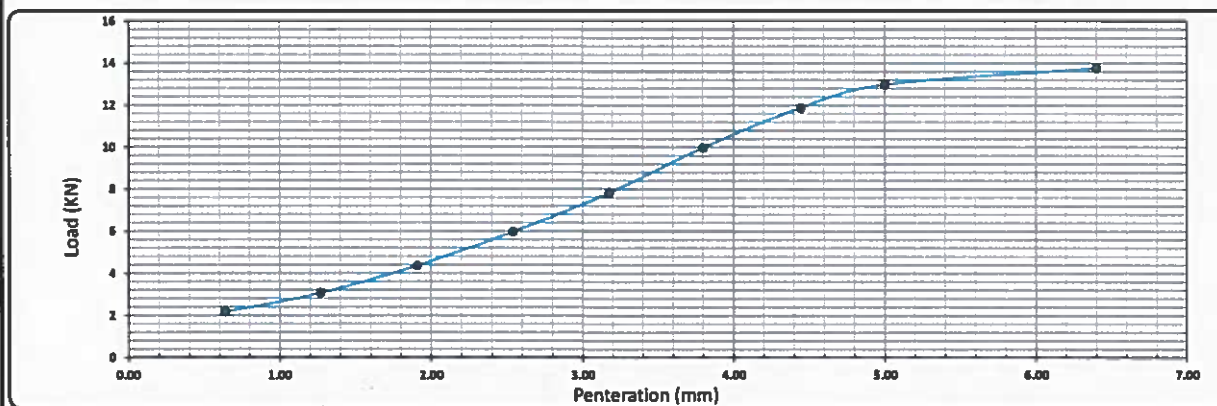
Compaction % for Mold	
Mold No. (cm ³)	1
Mold Vol.	2134
Mold WT. (gm)	8227
Mold WT. + Wet WT. (gm)	13093
Wet WT. (gm) (g/cm ³)	4866
Wet Density (g/cm ³)	2.280
Dry Density (g/cm ³)	2.128
Proctor Density	2.184
Compaction %	97

Moisture Ratio After Compacted Mold	
Tare No.	1
Tare WT. (gm)	35.48
Tare WT. + Wet WT. (gm)	166.17
Tare WT. + Dry WT. (gm)	157.42
Water WT. (gm)	8.8
Dry WT. (gm)	121.9
Moisture Content %	7.2

Swelling	
Mold No.	1
Date	20-5-2023
Initial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0.00
Sample Height (mm)	120.00
Swelling Ratio %	0.0%

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)	221	313	444	608	796	1017	1211	1325	1405
Load (KN)	2.2	3.1	4.4	6.0	7.8	10.0	11.9	13.0	13.8



Calculations :-

Penteration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(KN)	(lb)	(%)	(%)	(%)	نقد نسبة 98 %
2.50	5.96	13.4	44.6%	97	98	44.9%
5.00	12.99	20.0	64.8%			65.23%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

شركة نجيدة للمقاولات
المعمول / المبرك
مشروع القطار السريع / فوكه - مطروح

Consultant Engineer

Name :

Sign :