

قائمة الكميات الواردة بالمستخلص جاري (١)

مشروع : القطار الكهربائي السريع (العين السخنة - العاصمة الادارية - العلمين - مطروح) قطاع فوكة - مطروح في المسافة من
الكم ٥٢٢+٠٠٠ الى الكم ٥٢٣+٠٠٠ بطول ١ كيلو متر اتجاه فوكة

رقم البند و بيانه : (١-٣) أعمال توريد وتشغيل اترية صالحة للردم مطابقة للمواصفات

تنفيذ : شركة الأمل للمقاولات

الكمية	٠,٠		٣م		مقدار العمل السابق :
	الموقع الكيلومري		الابعاد (متر)		بيان الاعمال بالمقايضة
	من	الى	طول	مساحة المقطع	
٣٤٩٩,٨٠٠	٥٢٢+٥٠٠	٥٢٢+٧٠٠	٢٠٠	١٧,٤٩٩	القطاع الاول
١٣١٦٨,١٣٨	٥٢٢+٧٩٠	٥٢٢+٩٠٠	١١٠	١١٩,٧١٠	القطاع الثاني
١٧٤٩,٩٠٠	٥٢٢+٩٠٠	٥٢٣+٠٠٠	١٠٠	١٧,٤٩٩	القطاع الثالث
١٨٤١٧,٨٣٨	اجمالي الكميات خلال فترة المستخلص الحالية (م ^٣)				
١٨٤١٧,٨٣٨	الاجمالي الكلي (م ^٣)				

مهندس الهيئة العامة
للطرق والكباري
م / ايمن احمد الحناوي

مهندس الاستشاري
مكتب د/خالد قنديل
م / خالد فوزي

مهندس الاستشاري (xyz)
م / محمد خليل
محمد خليل

مهندس الشركة
م / محمد شحنة



قائمة الكميات الواردة بالمستخلص جاري (١)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من
الكم ٥٢٢+٠٠٠ الى الكم ٥٢٣+٠٠٠ بطول ١ كيلو متر اتجاه فوكة

رقم البند وبيانه : (١-٣) علاوة مسافة النقل ٢٩٠ كم

تنفيذ : شركة الأمل للمقاولات

مقدار العمل السابق :	٠,٠	٣م
بيان الاعمال بالمقايضة	الكمية	
الكمية طبقا لقوائم الكميات	١٨٤١٧,٨٣٨	
اجمالي الكميات خلال فترة المستخلص الحالية (م ^٢)	١٨٤١٧,٨٣٨	
الاجمالي الكلي (م ^٢)	١٨٤١٧,٨٣٨	

مهندس الهيئة العامة
للطرق والكباري
م / إبراهيم الحناوي

مهندس الإستشاري
مكتب د/خالد قنديل
م / خالد فوزي

مهندس الإستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / محمد شحنة



قائمة الكميات الواردة بالمستخلص جاري (١)

مشروع : القطار الكهربائي السريع (العين السخنة - العاصمة الادارية - العلمين - مطروح) قطاع فوكة - مطروح في المسافة من
الكم ٥٢٢+٠٠٠ الى الكم ٥٢٣+٠٠٠ بطول ١ كيلو متر اتجاه فوكة

رقم البند و بيانه : (١-٣) علاوة تحصيل الكارثة والموازن طبقا للائحة الشركة الوطنية

تنفيذ : شركة الأمل للمقاولات

٣م	٠,٠	مقدار العمل السابق :
الكمية		بيان الاعمال بالمقايضة
١٨٤١٧,٨٣٨		الكمية طبقا لقوائم الكميات
١٨٤١٧,٨٣٨	اجمالي الكميات خلال فترة المستخلص الحالية (م ^٢)	
١٨٤١٧,٨٣٨	الاجمالي الكلي (م ^٢)	

مهندس الهيئة العامة
للطرق والكباري
م / إبراهيم الحناوي

مهندس الإستشاري
مكتب د/خالد قنديل
م / خالد فوزي

مهندس الإستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / محمد شحنة



قائمة الكميات الواردة بالمستخلص جاري (١)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم ٥٢٢+٠٠٠ الى الكم ٥٢٣+٠٠٠ بطول ١ كيلو متر اتجاه فوكة

رقم البند و بيانه : (١-٤) أعمال توريد و تشغيل PREPARED SUB-GRADE مطابقة للمواصفات

تنفيذ : شركة الأمل للمقاولات

الكمية	الابعاد (متر)		الموقع الكيلومتری		بيان الاعمال بالمقايضة
	مساحة المقطع	طول	الى	من	
٧٨٢,٨٠٠	٣,٩١٤	٢٠٠	٥٢٢+٧٠٠	٥٢٢+٥٠٠	القطاع الاول
٨٤٠,١٨٠	٧,٦٣٨	١١٠	٥٢٢+٩٠٠	٥٢٢+٧٩٠	القطاع الثاني
٧٦٣,٨٠٠	٧,٦٣٨	١٠٠	٥٢٣+٠٠٠	٥٢٢+٩٠٠	القطاع الثالث
٢٣٨٦,٧٨٠	اجمالي الكميات خلال فترة المستخلص الحالية (م ^٢)				
٢٣٨٦,٧٨٠	الاجمالي الكلي (م ^٢)				

مهندس الهيئة العامة
للطرق والكباري
م / إبراهيم الحناوي

مهندس الإستشاري
مكتب د/خالد قنديل
م / خالد فوزي

مهندس الإستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / محمد شحنة



قائمة الكميات الواردة بالمستخلص جاري (١)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم ٥٢٢+٠٠٠ الى الكم ٥٢٣+٠٠٠ بطول ١ كيلو متر اتجاه فوكة

رقم البند وبيانه : (١-٤) علاوة مسافة النقل ٧٥ كم

تنفيذ : شركة الأمل للمقاولات

٣م	٠,٠	مقدار العمل السابق :
الكمية		بيان الاعمال بالمقايسة
٢٣٨٦,٧٨٠		الكمية طبقا لقوائم الكميات
٢٣٨٦,٧٨٠	اجمالي الكميات خلال فترة المستخلص الحالية (م ^٢)	
٢٣٨٦,٧٨٠	الاجمالي الكلي (م ^٢)	

مهندس الهيئة العامة
للطرق والكباري
م / إبراهيم الكلاوي

مهندس الإستشاري
مكتب د/خالد قنديل
م / خالد فوزي

مهندس الإستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / محمد شحنة



قائمة الكميات الواردة بالمستخلص جاري (١)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من
الكم ٥٢٢+٠٠٠ الى الكم ٥٢٣+٠٠٠ بطول ١ كيلو متر اتجاه فوكة

رقم البند و بيانه : (١-٤) علاوة تحصيل الكارثة والموازن طبقا للاتحة الشركة الوطنية

تنفيذ : شركة الأمل للمقاولات

مقدار العمل السابق :	٠,٠	٣م
بيان الاعمال بالمقايضة	الكمية	
الكمية طبقا لقوائم الكميات	٢٣٨٦,٧٨٠	
اجمالي الكميات خلال فترة المستخلص الحالية (م ^٢)	٢٣٨٦,٧٨٠	
الاجمالي الكلي (م ^٢)	٢٣٨٦,٧٨٠	

مهندس الهيئة العامة
للطرق والكباري
م / محمد عبد الحادي

مهندس الإستشاري
مكتب د/خالد قنديل
م / خالد فوزي

مهندس الإستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / محمد شحنة



محضر استلام موقع

مشروع: أعمال الجسر الترابي لمشروع القطار الكهربائي السريع قطاع (فوكه - مطروح) في المسافة من كم 522+000 الى كم 523+000 بطول 1 كم اتجاه فوكه

تنفيذ: شركة الأمل للمقاولات " اشرف فودة وشركاه"
إشراف: المنطقة الخامسة - منطقة غرب الدلتا

طبقاً للعقد رقم (2024/2023/137) بتاريخ: 2023/8/2

انه في يوم الاربعاء الموافق 2023/9/20 اجتمع كلا من :

1- السيد المهندس / محمد حسنى فياض مدير عام المشروعات - الهيئة العامة للطرق والكباري

2- السيد المهندس / ابراهيم عبد الله الحناوي مهندس العملية - الهيئة العامة للطرق والكباري

3- السيد المهندس / محمد شحطة مدير مشروع - شركة الأمل 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 2023/9/24 هو تاريخ استلام الموقع وبدء الأعمال بالعملية.

واقفل المحضر على ذلك ووقع الحضور

التوقيعات

3-
2-
1-

رئيس الإدارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عميد . مهندس /

"هاني محمد محمود طه"



المنطقة الخامسة - (غرب الدلتا)

السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة وبعد ،،

بالإحالة إلى مشروع: تنفيذ أعمال الجسر الترابي بالقطار الكهربائي السريع - القطاع

السابع (فوكة - مطروح)

نتشرف بأن نرفق لسيادتكم طيه المقايسة المعدلة لبنود الأعمال للقطاعات الآتية:

م	اسم الشركة	من المحطة	إلى المحطة	الإتجاه
1	شركة الامل للمقاولات	522+000	523+000	فوكة

برجاء من سيادتكم التفضل بالأحاطه والتوجيه بالازم

وتفضلوا بقبول فائق الاحترام والتقدير،،

رئيس الإدارة المركزية

المنطقة الخامسة - غرب الدلتا

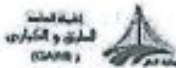
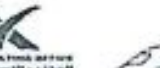
٢٠٢٣
١١/٣٠

عميد مهندس/

"هاني محمد محمود طه"

+

الممسوحة ضوئياً بـ CamScanner

MATERIAL INSPECTION REQUEST	   			
				

Contractor Company	AL AML COMPANY		Designer Company	KK CONSULT.	
Issued by Contractor	Name	Sign	Date	CODE	
	Eng \ MOHAMED SHEHTA	<i>Mohamed P</i>		AML (P-3)	
Received by ER			MIR	C1	C2
				C3	D0
				MM	YY
				HH	MM
				5	10
				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 results				
Location to be Used	FROM 522+790 TO 522+900 (+0.25) FROM 522+790 TO 522+900 (+0.5) FROM 522+900 TO 523+000 (+0.5) FROM 522+500 TO 522+700 (+0.5)				
MAR Approval No			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	2000		
2	Proctor	m3	2000		
3	Classification	m3	2000		
4	Seive analysis	m3	2000		
5	CBR	m3	2000		
Comments by:			Comments by:		
A sample has been taken from fill material by KK office to (NEGUIDA CENTRAL LAB) lab and the results founded meet the specifications and accepted			تنازع الصلاحيات والمرفقات مطابقا لملحيا - غل خراسي ٢٠٢٣		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	ENG : MOHAMED SHEHTA	<i>Mohamed P</i>			
QA/QC *	<i>Ahmed Abozaid</i>	<i>11/10/2023</i>			
GARB **					
Comment by ER					
Employers Representative					

* Designer
** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST	      			

Contractor Company	AL AML COMPANY		Designer Company	KK
Issued by Contractor	Name	Sign	Date	Time
	ENG/MOHAMED SHEHTA			
Received by ER			MAR	

CODE-1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp 536 Note For Kilometer point only Start Km is used
CODE-2	Work Activity		
CODE-3	Sub Element of Activity		

Description of Materials	Soil classify (A-1-a)			
Location of stock	522+500			
Location to be Used	FROM 522+790 TO 522+900 (+0.25) FROM 522+790 TO 522+900 (+0.5) FROM 522+900 TO 523+000 (+0.5) FROM 522+500 TO 522+700 (+0.5)			
Item	Specification	Test Requirement	Test Result Attachment	Remark
1	ASTM D 75	Aggregate Sampling	According Specification	
2	ASTM C 136	Sieve Analysis	According Specification	
3	ASTM D 1440	Passing Sieve #200	10.7 %	
4	ASTM D 4318	Atterberg Limit	N.P	
5	ASTM D 2974	Moisture Content	7.7 %	
6	ASTM D 1557	Modifid Proctor	2.207	
7	ASTM D 1883	C B R	92 %	
8	AASHTO - T96	Los Anglos	28 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	ENG/Mohamed shehta			
QA/QC *	Ahmed Abo Zaid			
GARB **				
Employers Representative				

* Designer
** Assignment/Bridges: Culvert only

 جمهورية مصر العربية وزارة النقل والبنية التحتية أ.د. خالد النجار	 جمهورية مصر العربية وزارة التخطيط والبحث الاقتصادي د. خالد النجار	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 524+000 To Station 526+177	 جمهورية مصر العربية وزارة التخطيط والبحث الاقتصادي د. خالد النجار
Operating Lab	Negida Central Lab		

PARTICLE SIZE DISTRIBUTION OF PREPARED SUBGRADE

TESTING DATE:	03-10-2023	Code	Zone	FROM STATION	TO STATION
LOCATION	522+500				
COMPANY NAME	AL AMAL COMPANY	AML(P-3)		522+500	523+000
MATERIALS	PREPARED SUBGRADE				
Quantity	2000 M3				

1-visual inspection test

2-Gradient test

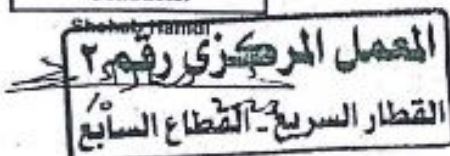
A-gradation of bulk materials				SAMPLE WEIGHT (g)		39587.00		gm	Table classify	
sieve size	2	1.5	1	4/3	2/1	5/3	# 4	PASS	Soil Classify	A-1-a
Mass retained (g)	0.0	1014.0	4311.0	4596.0	2620.0	4119.0	4692.0		PRO	2.207
Cumulative Retained (g)	0.0	1014.0	5325.0	9921.0	12541.0	16660.0	21352.0		WC	7.70
Cumulative Retained %	0.0	2.6	13.5	25.1	31.7	42.1	53.9		CBR	92.0%
Cumulative Passing %	100.0	97.4	86.5	74.9	68.3	57.9	46.1		Los Angeles	23
									Absorption	1.460
									SP.Gravity	2.713

B-soft material gradation			WT.OF sample		500.00		gm
sieve size	10	40	200				
Cumulative Retained (g)	139.00	266.00	384.00				
Cumulative Retained %	27.80	53.20	76.80				
Cumulative Passing %	72.20	46.80	23.20				

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	97.4	86.5	74.9	68.3	57.9	46.1	33.3	21.6	10.7
SPECIFICATION	—	97	—	70 — 75	—	15 — 60	—	0 — 35	—	0 — 12

ATTERBERG LIMITS	LIQUID LIMIT (LL)	PLASTIC LIMIT (PL)	PLASTIC INDEX (PI)
			N.P

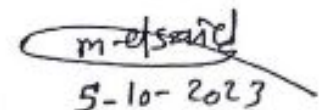
Contractor



 العمل المركزي رقم ٢
 القطار السريع - القطاع السابع

Consultant

mohamed elsaied



 5-10-2023

 	Electric Express Train - HSR		 
	From El Ain El Sokhna City To El Alamein - MATROUH		
	Section - 7 From FOHA TO MARSA MATROUH		
From Station 504+500 To Station 568+177			

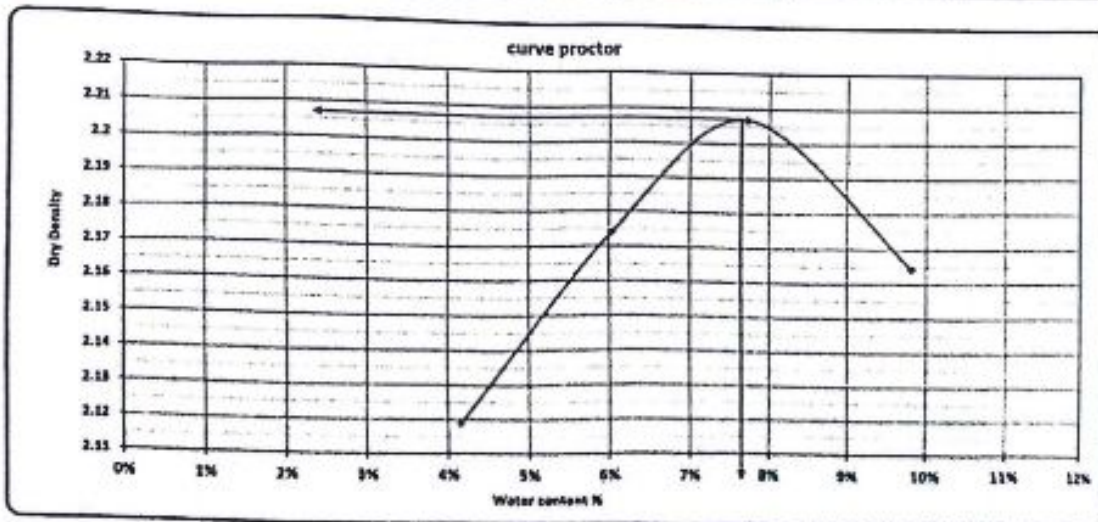
PROCTOR TEST (PREPARED SUBGRADE)

TESTING DATE:	4-10-2023	Code		FROM	TO
LOCATION	522+500	AML(P-3)	zone	522+500	523+000
COMPANY NAME	AL AMAL COMPANY				

Weight of empty mold :	5632.0	MAX Dry Density	2.207
Mold Volume:	2120.0	Water content %	7.7

trial no :	1	2	3	4	
WL Of Mold+ wet soil	10311.0	10519.0	10472.0	10467	
WT. WET SOIL	4879.0	4887.0	5040.0	5039.0	
WL Density	2.207	2.305	2.377	2.377	

Tare No.	7	19	13	17	15	40	31	32		
Tare wt.	42.2	44.1	53.6	53.2	36.9	46.2	89.7	82.7		
WL Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
WL Of dry soil & tare	144.90	144.87	142.55	142.61	140.55	140.45	137.88	137.97		
WL Of water	5.1	5.1	7.4	7.4	9.4	9.6	12.1	12.0		
WL Of dry soil	123.0	123.0	123.0	123.0	123.0	123.0	123.0	123.0		
Water content %	4.1%	4.2%	6.1%	6.0%	7.7%	7.8%	9.9%	9.8%		
AV. Water content %	4.2%		6.0%		7.7%		9.8%			
Dry Density	2.119		2.174		2.207		2.164			



Contractor
Shahab Hassan
المعمل المركزي رقم ٢
القطار السريع - القطاع السابع

Consultant
Mohamed Elsaied
M. Elsaied
5-10-2023

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد فهد	 SQA	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 555+117	

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

PREPARED SUBGRADE

TESTING DATE:	4-10-2023	code	zone	FROM	TO
LOCATION	522+500	AML(P-3)		522+500	523+000
COMPANY NAME	AL AMAL COMPANY				

Weight of sample Before Test	—	gm
Weight of saturated -dry surface sample (B)	3798	gm
Weight of saturated sample in water (C)	2299	gm
Weight of dry sample after heating (A)	3671	gm

Results:-

Bulk specific gravity = $A / (B-C)$	2.449	
Apparent specific gravity = $A / (A-C)$	2.676	
Absorbion = $(B-A)/A$	3.460	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3589	28

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

المعمل المركزي رقم ٢
القطار السريع - القطاع السابع

Consultant Engineer

Name : Mohamed Elsaied

Sign :

m-elsaied
5-10-2023

MATERIAL INSPECTION REQUEST

الهيئة العامة
للمطرق والكباري
IGARR



وزارة النقل
Ministry of Transport



Contractor Company	AL AML COMPANY		Designer Company	KK CONSULT.															
Issued by Contractor	Name	Sign	Date	COD															
	Eng \ MOHAMED SHEHTA			AML (4)															
Received by ER		MIR	<table border="1"> <tr> <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>27</td> <td>3</td> <td>2017</td> <td></td> <td></td> </tr> </table>	C2	C3	DD	MM	YY	HH	MM			27	3	2017				
C2	C3	DD	MM	YY	HH	MM													
		27	3	2017															

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 results			
Location to be Used		FROM 522+520 TO 522+580 (-3.5) FROM 522+400 TO 522+520 (-3.5) FROM 522+320 TO 522+400 (-4) FROM 522+900 TO 522+960 (-2) 522+960 TO 522+980 (-2) FROM 522+980 TO 523+000 (-1.75)			
MAR Approval No		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		
2	Proctor	m3	5000		
3	Classification	m3	5000		
4	Seive analysis	m3	5000		
Comments by:			Comments by:		
Asample has been taken form fill material by KK office to (AL Nuby Center Lab) lab and the results founded meet the specifictions and accepted					
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	ENG : MOHAMED SHEHTA				
QA/QC *	Youssef Ragab				
GARB **					
Comment by ER					
Employers Representative					

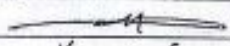
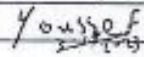
* Designer

MATERIAL APPROVAL REQUEST	الهيئة العامة للطرق والكباري (GAR)	وزارة النقل		

Contractor Company	AL AML		Designer Company	KK														
Issued by Contractor	Name	Sign	Date	Time														
	ENG/MOHAMED SHEHTA																	
Received by ER		MAR	<table border="1"> <tr> <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>27</td> <td>3</td> <td>2017</td> <td></td> <td></td> </tr> </table>	C2	C3	DD	MM	YY	HH	MM			27	3	2017			
C2	C3	DD	MM	YY	HH	MM												
		27	3	2017														

CODE - 1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp 536 Note For Kilometer point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

Description of Materials	Soft classify (A-1- a)			
Location of stock	522+500			
Location to be Used	FROM 522+520 TO 522+580 (-3.5) FROM 522+400 TO 522+520 (-3.5) FROM 522+320 TO 522+400 (-4) FROM 522+900 TO 522+960 (-2) 522+960 TO 522+980 (-2) FROM 522+980 TO 523+000 (-1.75)			
item	Spacification	Test Requirment	Test Result Attachment	Remark
1	ASTM D 75	Aggregate Sampling	According Spacification	
2	ASTM C 136	Sieve Analysis	According Spacification	
3	ASTM D 1440	Passing Sieve #200	14.4 %	
4	ASTM D 4318	Atterberg Limit	4.7 %	
5	ASTM D 2974	Moisture Content	8.2 %	
6	ASTM D 1557	Modifid Proctor	2.165	
7	ASTM D 1883	C B R	38.6 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	EMG /Mohamed shehta			
QA/QC *	Youssef Ragab			
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 EL Nuby Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	27-3-2023	code		ZONE	522+000	523+000
LOCATION	K.P (522+000)					
NAME COMPANY	Al Amal	AML (A)				

1-visual inspection test

2-Gradient test

1-gradation of bulk materials

				SAMPLE WEIGHT (g)		26910.00		gm		
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	table classify	soil classify
Mass retained (g)	0.0	2144.0	2563.0	2651.0	2569.0	2896.0	2682.0			
Cumulative Retained (g)	0.0	2144.0	4707.0	7358.0	9927.0	12823.0	15475.0			
Cumulative Retained %	0.0	8.0	17.5	27.3	36.9	47.7	57.5		PRO	2.165
Cumulative Passing %	100.0	92.0	82.5	72.7	63.1	52.3	42.5		WC	8.20
									CBR	38.50

soft material gradation

			WT.OF sample		500.00		gm
sieve size	10	40	200				
Cumulative Retained (g)	57.60	193.00	331.00				
Cumulative Retained %	11.52	38.60	66.20				
Cumulative Passing %	88.48	61.40	33.80				

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	92.0	82.5	72.7	63.1	52.3	42.5	37.6	26.1	14.4

ATTERBERG LIMITS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	24.9%	20.3%	4.7%

Contractor

Consultant

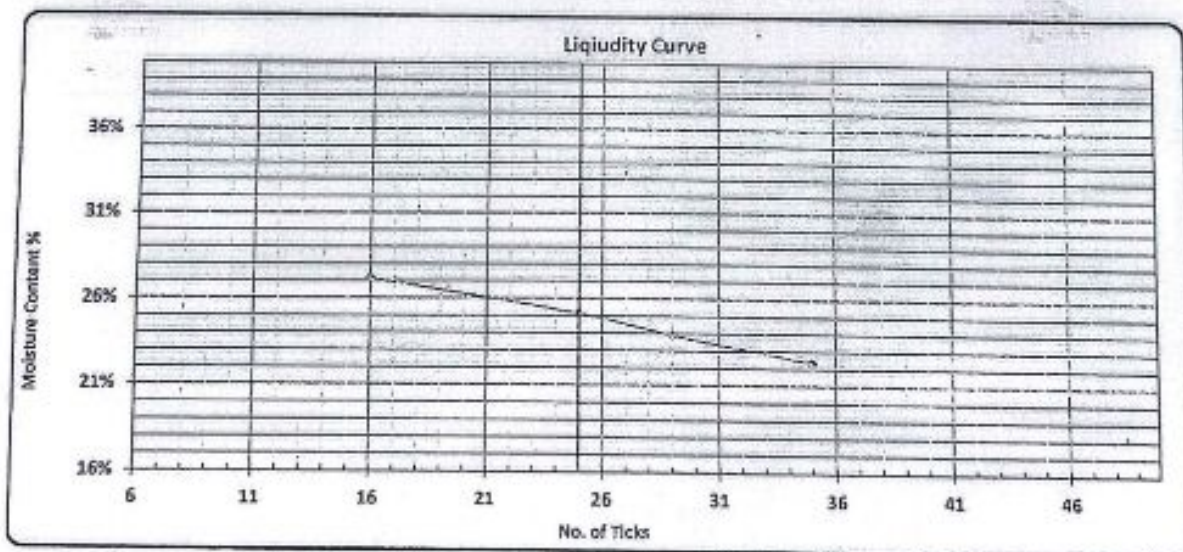
 	Electric Express Train - HSR	 
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Plasticity and Liquidity Test -Atterberg Limits

Testing Date:	27-3-2023	Code:	FROM STA:	522+000	523+000
Location:	K.P (522+000)	AML (4)			
Company Name	Al Amal				

Testing Results :-

Test	Liquid Limit				Plastic Limit	
No. of Ticks	35	29	25	16	-	-
Tare No.	40	22	17	8	14	23
Tare WT. (gm)	46.20	61.50	52.50	46.1	58.30	58.30
Tare WT. + Wet WT. (gm)	69.20	89.50	75.40	75.60	62.00	62.30
Tare WT. + Dry WT. (gm)	65.00	84.10	70.80	69.30	61.4	61.6
Water WT. (gm)	4.20	5.40	4.60	6.30	0.60	0.70
Dry WT. (gm)	18.80	22.60	18.30	23.20	3.10	3.30
Moisture Content %	22.3%	23.9%	25.1%	27.2%	19.4%	21.2%
Average %					20.3%	



L.L.	P.L.	P.I
24.9%	20.3%	4.7%

Lab. Specialist	Lab. Engineer	Consultant Engineer
-----------------	---------------	---------------------

Name :

Name : *محمد السيد*

Name : *Youssef Rashed*

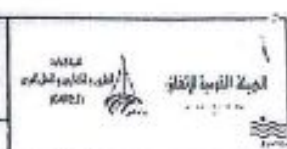
Sign :

Sign : *[Signature]*

Sign : *Youssef Rashed*



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:	27-3-2023	Code			
LOCATION	K.P (522+000)	AML (3)	ZONE	522+000	523+000
NAME COMPANY	Al Amal				

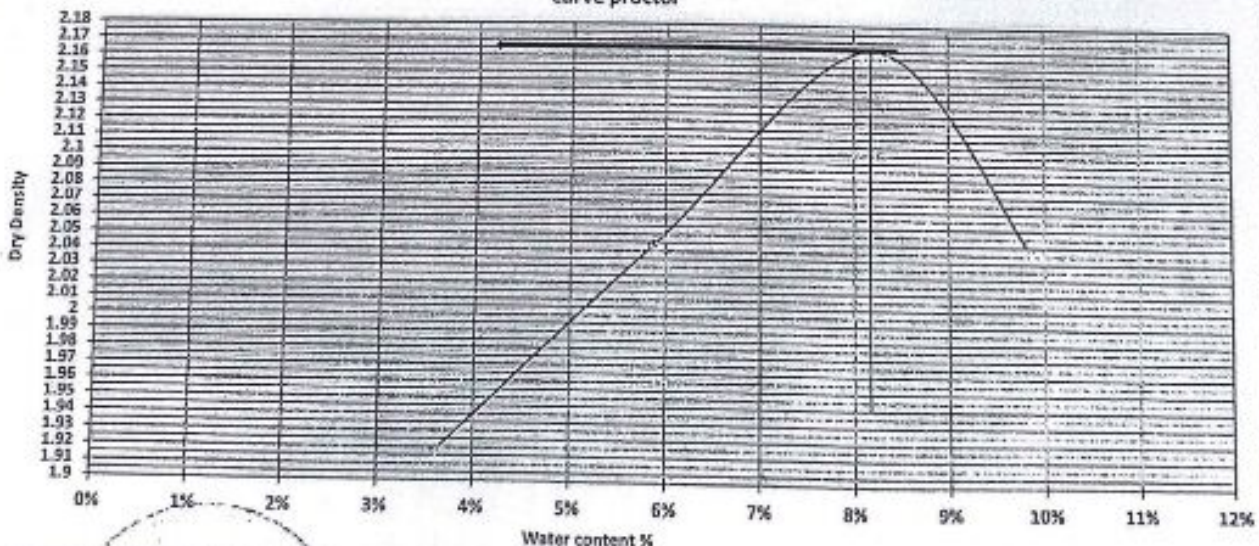
Weight of empty mold :	6070.0
Mold Volume:	2113.0

MAX Dry Density	2.165
Water content %	8.2

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10269.0	10642.0	11020.0	10811	
WT. WET SOIL	4199.0	4572.0	4950.0	4741.0	
Wt. Density	1.987	2.164	2.343	2.244	

Tare No.	50	17	73	10	25	32	16	33		
Tare wt.	62.5	59.5	42	43.7	75.3	74.4	31.9	73.6		
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	147.0	143.8	144.3	144.3	144.3	139.5	143.1		
Wt. Of water	3.2	3.0	6.2	5.7	5.7	5.7	10.5	6.9		
Wt. Of dry soil	84.3	87.5	101.8	100.6	69.0	69.9	107.6	69.5		
Water content %	3.8%	3.4%	6.1%	5.7%	8.3%	8.2%	9.8%	9.9%		
AV. Water content %	3.6%		5.9%		8.2%		9.8%			
Dry Density	1.918		2.044		2.165		2.043			

curve proctor



Contractor

م. ا. ب. الصوري
 2023

Consultant

Youssef B. Alab
 2023

California Bearing Ratio TEST

Testing Date :	30-3-2023	Code	FROM STA :	522+000	523+000
Location :	K.P (522+000)	AML (4)			
Company Name	Al Amal				

:- Test Results

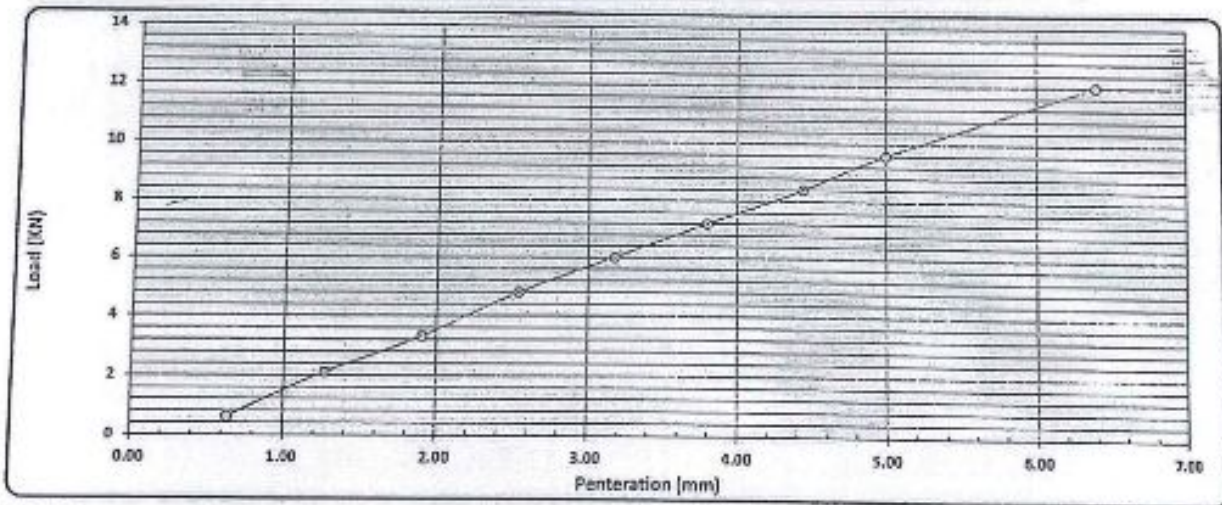
Compaction % for Mold	
Mold No.	5
Mold Vol. (cm ³)	2122
Mold WT. (gm)	4934
Mold WT. + Wet WT. (gm)	10979
Wet WT. (gm)	6045
Wet Density (g/cm ³)	2.849
Dry Density (g/cm ³)	2.634
Proctor Density (g/cm ³)	2.165
Compaction %	121.7

Moisture Ratio After Compacted Mold	
Tare No.	58
Tare WT. (gm)	62.5
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	143.4
Water WT. (gm)	6.6
Dry WT. (gm)	80.9
Moisture Content %	8.2

Swelling	
Mold No.	5
Date	30-3-2023
Initial Height (mm)	7.00
Final Height (mm)	7.10
Difference	0
Sample Height (mm)	120.00
Swelling Ratio %	0.1%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (mm)	0.02	0.07	0.11	0.16	0.20	0.24	0.28	0.32	0.40
Load (KN)	0.6	2.1	3.3	4.8	6.0	7.2	8.4	9.6	12.0



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % عند نسبة 98
2.50	4.80	13.4	36.0%	122	98	29.0%
5.00	9.60	20.9	47.4%			38.6%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : *محمد عبد العزيز صبر*

Sign :

Consultant Engineer

Name : *Youssef Rabab*

Sign :

MATERIAL INSPECTION REQUEST

مركز
التحليل
والبحوث
(CLAB)



وزارة
النقل
والمواصلات



Contractor Company	AL AML COMPANY		Designer Company	KK CONSULT.																
Issued by Contractor	Name	Sign	Date	COD																
	Eng \ MOHAMED SHEHTA			AML (4)																
Received by ER		MIR	<table border="1"> <tr> <td>MM</td> <td>YY</td> <td>MM</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>MM</td> <td>DD</td> </tr> <tr> <td></td> <td></td> <td></td> <td>27</td> <td>3</td> <td></td> <td></td> <td></td> </tr> </table>	MM	YY	MM	DD	MM	YY	MM	DD				27	3				
MM	YY	MM	DD	MM	YY	MM	DD													
			27	3																

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 results				
Location to be Used	FROM 522+520 TO 522+580 (-3.5) FROM 522+400 TO 522+520 (-3.5) FROM 522+320 TO 522+400 (-4) FROM 522+900 TO 522+960 (-2) 522+960 TO 522+980 (-2) FROM 522+980 TO 523+000 (-1.75)				
MAR Approval No			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		
2	Proctor	m3	5000		
3	Classification	m3	5000		
4	Seive analysis	m3	5000		
Comments by:		Comments by:			
A sample has been taken from fill material by KK office to (AL Nuby Center Lab) lab and the results founded meet the specifications and accepted					

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	ENG : MOHAMED SHEHTA			
QA/QC *	Youssef R. Gab			
GARB**				
Comment by ER				
Employers Representative				

* Designer

** Allment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST	    	

Contractor Company	AL AML		Designer Company	KK
Issued by Contractor	Name	Sign	Date	Time
	ENG/MOHAMED SHEHTA			
Received by ER		MAR		

CODE-1	51 to 521 Station Reference	D1 to 53 Depot Reference	Kp 535 Note For Kilometer point only Start Km is used
CODE-2	Work Activity		
CODE-3	Sub Element of Activity		

Description of Materials	Soil classify (A-1- a)			
Location of stock	522+500			
Location to be Used	FROM 522+520 TO 522+580 (-3.5) FROM 522+400 TO 522+520 (-3.5) FROM 522+320 TO 522+400 (-4) FROM 522+900 TO 522+960 (-2) 522+960 TO 522+980 (-2) FROM 522+980 TO 523+000 (-1.75)			
Item	Specification	Test Requirement	Test Result Attachment	Remark
1	ASTM D 75	Aggregate Sampling	According Specification	
2	ASTM C 136	Sieve Analysis	According Specification	
3	ASTM D 1440	Passing Sieve #200	14.4 %	
4	ASTM D 4318	Atterberg Limit	4.7 %	
5	ASTM D 2974	Moisture Content	8.2 %	
6	ASTM D 1557	Modifid Proctor	2.165	
7	ASTM D 1883	C B R	38.6 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	EMG /Mohamed shehta			
QA/QC *	Youssef Ragab			
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: EL Nuby Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	27-3-2023	code			
LOCATION	K.P (522+000)		ZONE	522+000	523+000
NAME COMPANY	Al Amal	AML			

-visual inspection test

-Gradient test

gradation of bulk materials

				SAMPLE WEIGHT [g]		28910.00		gm		
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	table classify	
Mass retained (g)	0.0	2144.0	2563.0	2651.0	2669.0	2896.0	2852.0		soil classify	
Cumulative Retained (g)	0.0	2144.0	4707.0	7358.0	9927.0	12823.0	15475.0		A-1-a	
Cumulative Retained %	0.0	8.0	17.5	27.3	36.9	47.7	57.5		PRO	2.165
Cumulative Passing %	100.0	92.0	82.5	72.7	63.1	52.3	42.5		WC	8.20
									CBR	38.60

soft material gradation

				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	57.60	193.00	331.00					
Cumulative Retained %	11.52	38.60	66.20					
Cumulative Passing %	88.48	61.40	33.80					

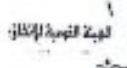
General gradient

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	92.0	82.5	72.7	63.1	52.3	42.5	37.6	26.1	14.4

ATTERBERG LIMITS	LIQUID LIMIT (LL)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	24.9%	20.3%	4.7%

Contractor

Consultant

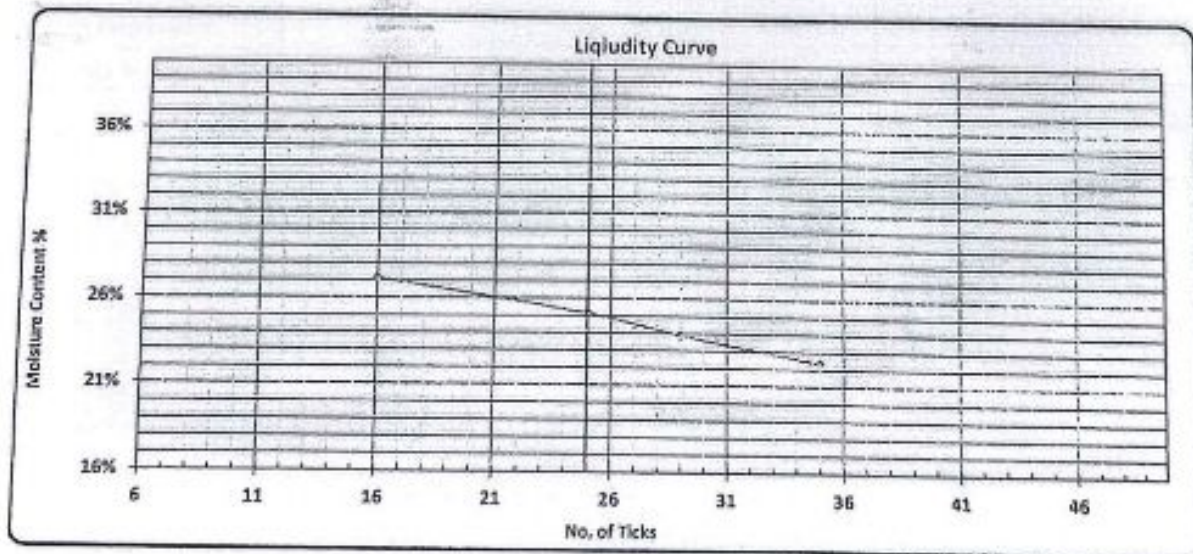
 	Electric Express Train - HSR	 
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Plasticity and Liquidity Test -Atterberg Limits

Testing Date:	27-3-2023	Code:	FROM STA:	522+000	523+000
Location:	K.P (522+000)	AML (4)			
Company Name	Al Amal				

Testing Results :-

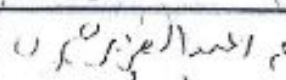
Test	Liquid Limit				Plastic Limit	
No. of Ticks	35	29	25	16	-	-
Tare No.	40	22	17	8	14	23
Tare WT. (gm)	46.20	61.50	52.50	46.1	58.30	58.30
Tare WT. + Wet WT. (gm)	69.20	89.50	75.40	75.60	62.00	62.30
Tare WT. + Dry WT. (gm)	65.00	84.10	70.80	69.30	61.4	61.6
Water WT. (gm)	4.20	5.40	4.60	6.30	0.60	0.70
Dry WT. (gm)	18.80	22.60	18.30	23.20	3.10	3.30
Moisture Content %	22.3%	23.9%	25.1%	27.2%	19.4%	21.2%
Average %					20.3%	

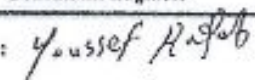


LL	P.L	P.I
24.9%	20.3%	4.7%

Lab. Specialist	Lab. Engineer	Consultant Engineer
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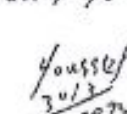
Name :

Name : 

Name : 

Sign :

Sign : 

Sign : 



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 588+177



PROCTOR TEST

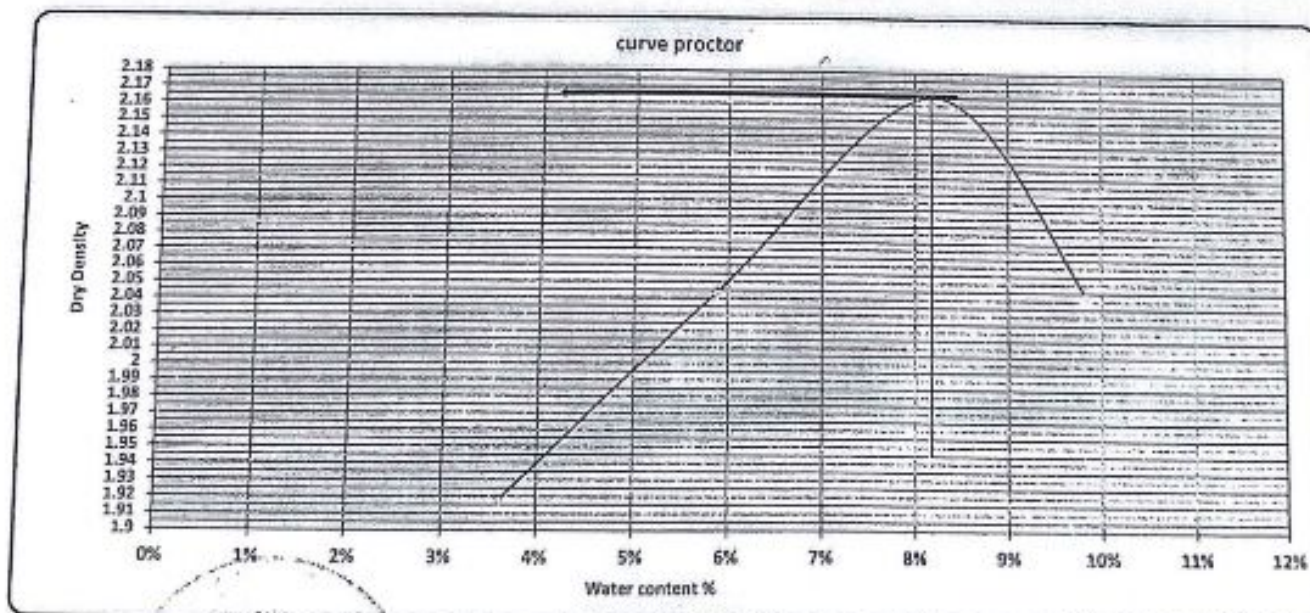
TESTING DATE:	27-3-2023	Code			
LOCATION	K.P (522+000)	AML (3)	ZONE	522+000	523+000
NAME COMPANY	Al Amal				

Weight of empty mold :	6070.0
Mold Volume:	2113.0

MAX Dry Density	2.165
Water content %	8.2

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10269.0	10542.0	11020.0	10811	
WT. WET SOIL	4199.0	4572.0	4950.0	4741.0	
Wt. Density	1.957	2.164	2.343	2.244	

Tare No.	90	17	73	10	25	32	16	33		
Tare wt.	62.5	59.5	42	43.7	75.3	74.4	31.9	73.6		
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	147.0	143.8	144.3	144.3	144.3	139.5	143.1		
Wt. Of water	3.2	3.0	6.2	5.7	5.7	5.7	10.5	6.9		
Wt. Of dry soil	84.3	87.5	101.8	100.6	69.0	69.9	107.6	69.5		
Water content %	3.8%	3.4%	6.1%	5.7%	8.3%	8.2%	9.8%	9.9%		
AV. Water content %	3.6%		5.9%		8.2%		9.8%			
Dry Density	1.918		2.044		2.165		2.043			



Contractor

م. عبد العزيز
 2023

Consultant

Youssef Rashed
 2023

California Bearing Ratio TEST

Testing Date :	30-3-2023	Code	FROM STA :	511+000	513+000
Location :	K.P (522+000)	AML (4)			
Company Name	Al Amal				

Test Results

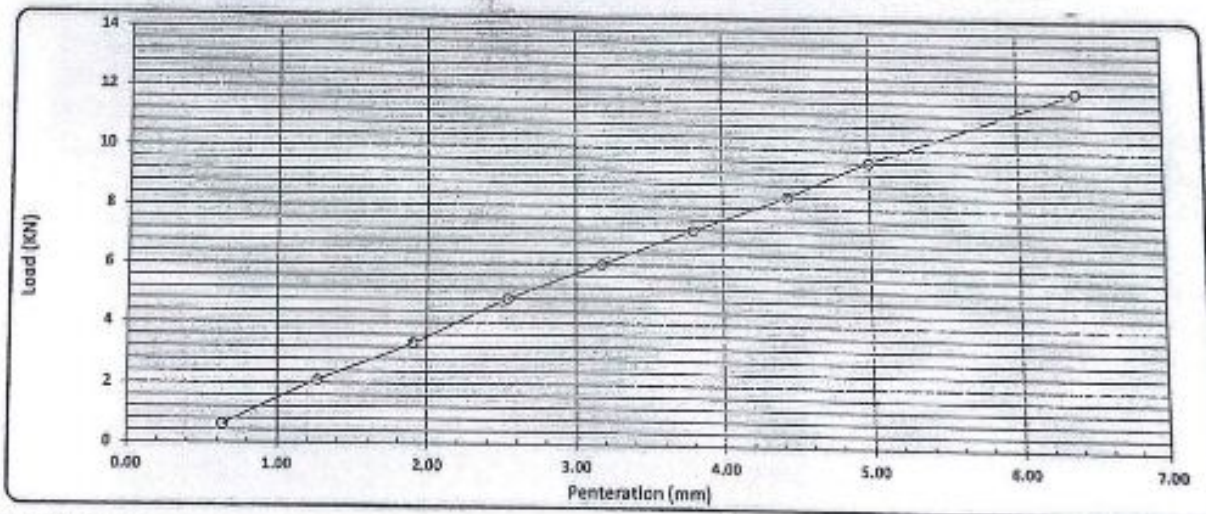
Compaction % for Mold	
Mold No.	5
Mold Vol. (cm ³)	2122
Mold WT. (gm)	4934
Mold WT. + Wet WT. (gm)	10979
Wet WT. (gm)	6045
Wet Density (g/cm ³)	2.849
Dry Density (g/cm ³)	2.634
Proctor Density (g/cm ³)	2.165
Compaction %	121.7

Moisture Ratio After Compacted Mold	
Tare No.	90
Tare WT. (gm)	62.5
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	143.4
Water WT. (gm)	6.6
Dry WT. (gm)	80.9
Moisture Content %	8.2

Swelling	
Mold No.	5
Date	30-3-2023
Initial Height (mm)	7.00
Final Height (mm)	7.10
Difference	0
Sample Height (mm)	120.00
Swelling Ratio %	0.1%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (mm)	0.02	0.07	0.11	0.16	0.20	0.24	0.28	0.32	0.40
Load (KN)	0.6	2.1	3.3	4.8	6.0	7.3	8.4	9.6	12.0



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR (%)
2.50	4.80	13.4	36.0%	122	98	29.0%
5.00	9.60	20.0	48.0%			38.6%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : *محمد احمد العزير*

Sign :

Consultant Engineer

Name : *Youssef Reda*

Sign :

Youssef
30/3/2023

 SYSTRA  SHAKER  ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ا.م. خالد شنديل	Electric Express Train - HSR				الهيئة العامة للإمتداد  الهيئة العامة للإمتداد الهيئة العامة للإمتداد (G.A.E.)	
	From El Ain El Sokhna City To El Alamein					
	Section - 7 From FOKA TO MARS MATROUH					
Testing Date :	/04/2023		Company :		AL.AMAL	
Material :			Code	(4)AML		
Location :	522+800 - 522+900					
Layer Thickness :	. . 0		Level layer	2. . . .		
Station	522+900					
Hole no	1					
Bulk density specifid sand	1.47					
wt .of sand befor test	9800					
WT .of sand after test	5600					
WT . Of sand fill cone	1515					
WT . Of sand in hole	2685					
Volume of hole	1827					
WT . Of sample from hole	4120					
Bulk density of soil	2.26					
Average water content %	6.5					
(gm/cm3)Dry density	2.12					
(gm/cm3)Max dry density	2.165					
Compaction ratio %	97.8					
Observations						
Lab Engineer :			Consultant Eng. :			
Sign :			Sign :			

MATERIAL APPROVAL REQUEST

المجلس
الطرق والكباري
(GARBS)



بوزارة النقل
Ministry of Transport

KK
Kilometer Point
Kilometer Point



Contractor Company	AL AML COMPANY		Designer Company	KK																
Issued by Contractor	Name ENG/MOHAMED SHEHTA	Sign	Date 3-5-2023	Time																
Received by ER			MAR	<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</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>3</td> <td>5</td> <td>2023</td> <td></td> <td></td> </tr> </table>	1	2	3	DD	MM	YY	HH	MM				3	5	2023		
1	2	3	DD	MM	YY	HH	MM													
			3	5	2023															

CODE-1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp 536 Note For Kilometer point only Start Km is used
CODE-2	Work Activity		
CODE-3	Sub Element of Activity		

Description of Materials	Soil classify (A 1 b)			
Location of stock	522+500			
Location to be Used	FROM 522+900 TO 522+960 (-2) (اولي ميل) FROM 522+960 TO 522+980 (-3) (استبدال) FROM 522+980 TO 523+000 (-1.75) (استبدال) FROM 522+500 TO 522+700 (-3) FROM 522+790 TO 522+860 (-5) (استبدال)			
item	Specification	Test Requirement	Test Result Attachment	Remark
1	ASTM D 75	Aggregate Sampling	0.70 - 1.18 According Specification	
2	ASTM C 136	Sieve Analysis	0.075 According Specification	
3	ASTM D 1440	Passing Sieve #200	0.075 12.7 %	
4	ASTM D 4318	Atterberg Limit	4.38 %	
5	ASTM D 2974	Moisture Content	7 %	
6	ASTM D 1557	Modified Proctor	2.153	
7	ASTM D 1883	C B R	26.4 %	
Comments by:		Comments by:		
		٣٢٥٠ ١٥-٥-٢٠٢٣ ١٥-٥-٢٠٢٣		

Organisation	Name	APPROVAL STATUS	Date	KK
Contractor	EMG /Mohamed shehta	Sign		A-AWC-R
QA/QC *	Eng/ mohamed elsaied	Sign	15-5-2023	
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 MARS MATROUH
 From Station 504+000 To Station 568+177



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	11/4/2023	code			
LOCATION					
NAME COMPANY	الامل				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		24236.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	
Mass retained (g)	0.0	1241.0	1054.0	2021.0	1652.0	985.0	1325.0		
Cumulative Retained (g)	0.0	1241.0	2295.0	4316.0	5968.0	6953.0	8278.0		PRO
Cumulative Retained %	0.0	5.1	9.5	17.8	24.6	28.7	34.2		WC
Cumulative Passing %	100.0	94.9	90.5	82.2	75.4	71.3	65.8		CBR

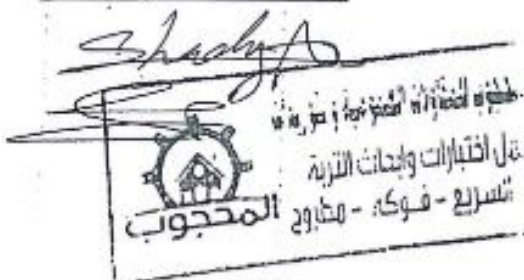
B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	63.00	158.00	327.00					
Cumulative Retained %	12.60	31.60	65.40					
Cumulative Passing %	87.40	68.40	34.60					

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 %	100.0	94.9	90.5	82.2	75.4	71.3	65.8	57.5	45.0	22.8

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

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 553+177



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	13-4-2023	code		ZONE	522+900+	522+960
LOCATION	قنا					
NAME COMPANY	الاجل					

1-visual inspection test

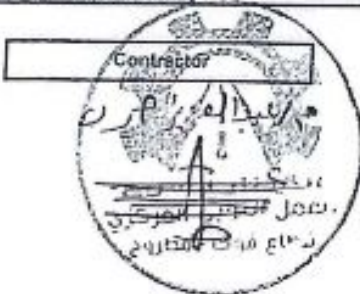
2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		27797.00	gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	0.0	1563.0	1986.0	2656.0	3288.0	2652.0	2230.0		A-1-b
Cumulative Retained (g)	0.0	1563.0	3548.0	6244.0	9512.0	12164.0	14394.0	PRO	
Cumulative Retained %	0.0	5.6	12.3	22.5	34.2	43.8	51.8	WC	
Cumulative Passing %	100.0	94.4	87.2	77.5	65.8	56.2	48.2	CBR	

B-soft material gradation			WT.OF sample		500.00	gm
sieve size	10	40	200			
Cumulative Retained (g)	42.00	160.00	292.00			
Cumulative Retained %	8.40	32.00	58.40			
Cumulative Passing %	91.60	68.00	41.60			

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 %	100.0	94.4	87.2	77.5	65.8	56.2	48.2	44.2	32.8	20.1

ATTERBERG LIMITS	LIQUID LIMIT (LL)	PLASTIC LIMIT (PL)	PLASTIC INDEX (PI)
	N.P	N.P	N.P



Consultant



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



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	13-4-2023	code		ZONE	522+600	522+700
LOCATION	قناج					
NAME COMPANY	الامل					

1-visual inspection test

2-Gradient test

3-gradation of bulk materials

sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	table classify
Mass retained (g)	0.0	876.0	1156.0	1493.0	1636.0	1363.0	1236.0		soil classify
Cumulative Retained (g)	0.0	876.0	2012.0	3505.0	5041.0	6404.0	7540.0		A-2-4
Cumulative Retained %	0.0	6.0	13.8	24.0	34.5	43.9	52.3		PRO
Cumulative Passing %	100.0	94.0	86.2	76.0	65.5	56.1	47.7		WC
									CBR

4-soft material gradation

sieve size	10	40	200	WT.OF sample	500.00	gm
Cumulative Retained (g)	61.00	155.30	305.60			
Cumulative Retained %	12.20	31.26	61.12			
Cumulative Passing %	87.80	68.74	38.88			

5-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	94.0	86.2	76.0	65.5	56.1	47.7	41.9	32.8	18.5

ATTERBERG LIMITS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	30.70%	22.88%	7.83%



Contractor

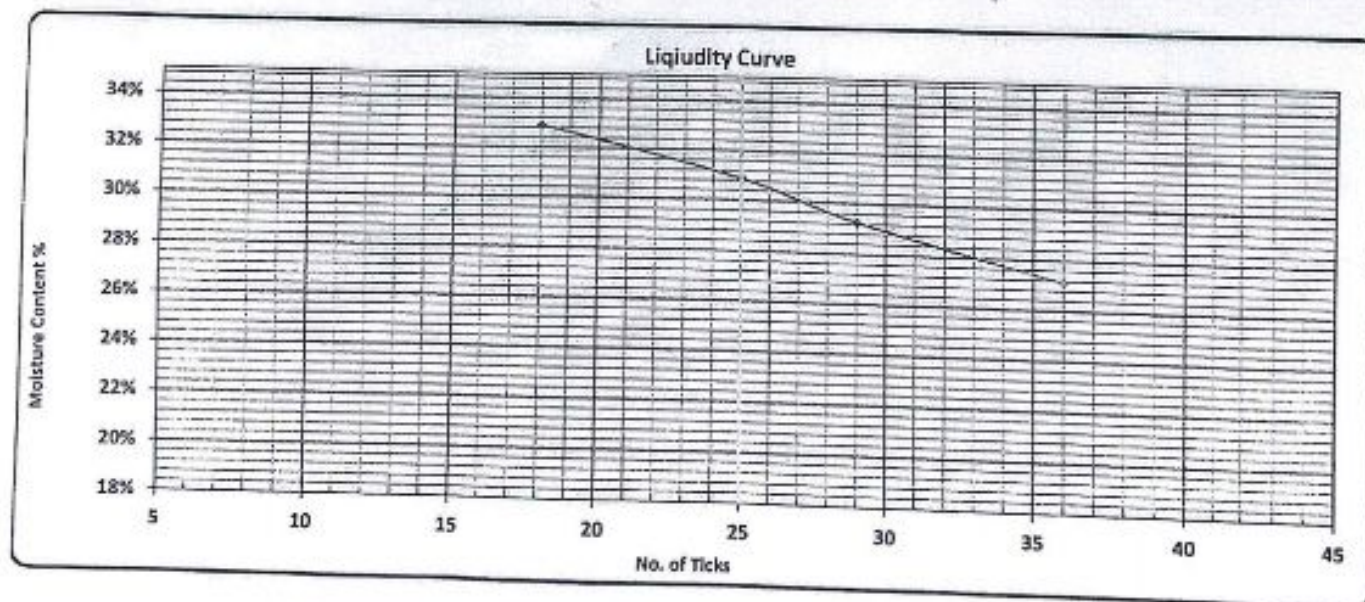
Consultant

Plasticity and Liquidity Test - Atterberg Limits

Testing Date:	13-4-2023	Code:	FROM STA:	522+500	522+700
Location:	قطاع				
Company Name	الامل				

Testing Results :-

Test	Liquid Limit				Plastic Limit	
No. of Ticks	36	29	25	18	-	-
Tare No.	35	35	88	37	50	32
Tare WT. (gm)	82.20	80.40	80.50	79.30	81.00	82.40
Tare WT. + Wet WT. (gm)	108.90	106.90	105.50	110.80	84.30	86.60
Tare WT. + Dry WT. (gm)	103.20	100.90	99.60	103.00	83.70	85.80
Water WT. (gm)	5.70	6.00	5.90	7.80	0.60	0.80
Dry WT. (gm)	21.00	20.50	19.10	23.70	2.70	3.40
Moisture Content %	27.1%	29.3%	30.9%	32.9%	22.2%	23.5%
Average %					22.9%	



L.L.	P.L.	P.I.
30.70%	22.88%	7.83%

Lab. Specialist	Lab. Engineer	Consultant Engineer
Name :	Name :	Name :
Sign :	Sign :	Sign :



Electric Express Train - HSR
From El-Ain El Sokhna City To El-Alemeln - MATROUH
Section - 7 From FOKA To MARSA MATROUH
From Station 504+000 To Station 508+173



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	13-4-2023	code	ZONE	522+500	523+000
LOCATION	K.P (522+200)				
NAME COMPANY	الاجل				

1-visual inspection test

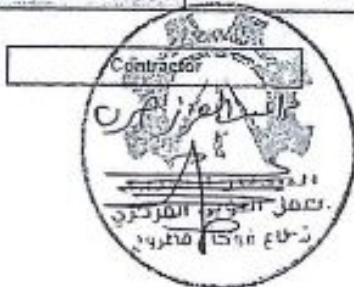
2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		23978.00	gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	0.0	1352.0	1752.0	2320.0	2545.0	2552.0	2510.0		A-2-4
Cumulative Retained (g)	0.0	1352.0	3104.0	5424.0	7969.0	10521.0	13131.0	PRO	
Cumulative Retained %	0.0	5.6	12.9	22.6	33.2	44.3	54.8	WC	
Cumulative Passing %	100.0	94.4	87.1	77.4	66.8	55.7	45.2	CBR	

B-soft material gradation				WT. OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	112.00	128.00	304.00				
Cumulative Retained %	22.40	25.60	60.80				
Cumulative Passing %	77.60	74.40	39.20				

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	9.6	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	94.4	87.1	77.4	66.8	55.7	45.2	35.1	33.7	17.7

ATTERBERG LIMITS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	30.87%	24.50%	6.37%



Consultant

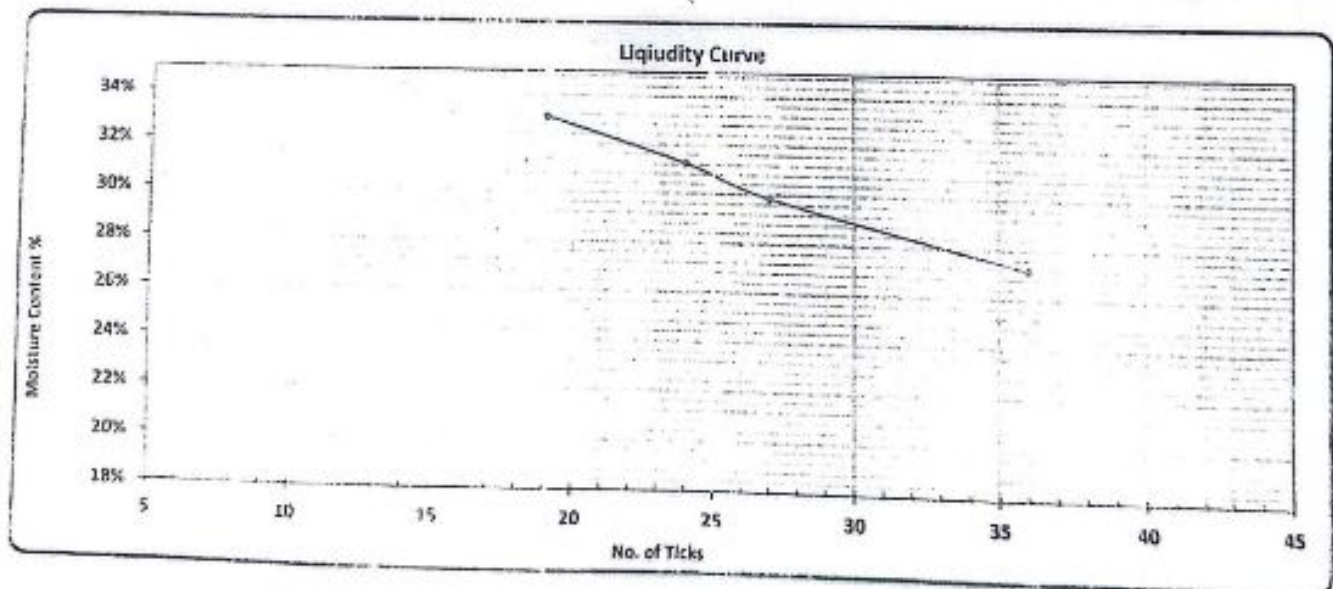
 وزارة النقل والبنية التحتية المملكة العربية السعودية	Electric Express Train - HSR	 الهيئة العامة للسكك الحديدية المملكة العربية السعودية
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Plasticity and Liquidity Test - Atterberg Limits

Testing Date:	13-4-2023	Code:	FROM STA:	522+500	523+000
Location:	K.P (522+200)				
Company Name:	Y-1				

Testing Results :-

Test	Liquid Limit				Plastic Limit	
No. of Ticks	36	27	24	19	-	-
Tare No.	29	20	22	23	16	19
Tare WT. (gm)	31.20	59.60	61.60	58.60	41.90	40.70
Tare WT. + Wet WT. (gm)	60.20	87.00	84.70	78.70	44.90	43.80
Tare WT. + Dry WT. (gm)	54.00	80.70	79.20	73.70	44.30	43.20
Water WT. (gm)	6.20	6.30	5.50	5.00	0.60	0.60
Dry WT. (gm)	22.80	31.10	17.60	15.10	2.40	2.50
Moisture Content %	27.2%	29.9%	31.3%	33.1%	25.0%	24.0%
Average %					24.5%	



L.I	P.L	P.I
30.87%	24.50%	6.37%

Lab. Specialist	Lab. Engineer	Consultant Engineer
Name :	Name :	Name :
Sign :	Sign :	Sign :

MATERIAL INSPECTION REQUEST

المساحة
المطروقة والكباري
(GARB)



Contractor Company	AL AML COMPANY		Designer Company	KK CONSULT.	
Issued by Contractor	Name	Sign	Date	CODE	
	Eng \ MOHAMED SHEHTA		3/5/2023	AML (S)	
Received by ER		MIR	DD	MM	YY
			3	5	2023

CODE-1	S1 to S21	O1 to S3	Kp XXXX Note
CODE-2	Station Reference	Depot Reference	For Kilometer point only Start Km is used
CODE-3	Work Activity		
	Sub Element of Activity		

Description of Materials	Fill material results				
Location to be Used	FROM 522+900 TO 522+960 (-2 اولي مبرول) FROM 522+960 TO 522+980 (-3 استبدال) FROM 522+980 TO 523+000 (-1.75 استبدال) FROM 522+500 TO 522+700 (-3) FROM 522+790 TO 522+860 (-5 استبدال)				
MAR Approval No		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		
2	Proctor	m3	5000		
3	Classification	m3	5000		
4	Seive analysis	m3	5000		
5	CBR	m3	5000		
Comments by:		Comments by:			
A sample has been taken from fill material by KK office to (AL Nuby Center Lab) lab and the results founded meet the specifications and accepted					
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	ENG : MOHAMED SHEHTA				
QA/QC *	Eng/ mohamed elsaied		15-5-2023		
GARB**					
Comment by ER					
Employers Representative					

* Designer
** Alignment / Bridges: Culvert Only



Electric Express Train - HSR
From El Ain El Sekhna City To El Alamein - MATROUH
Section - 7 From FOKA To MARSA MATROUH



Operating Lab AL Nuby Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	30-4-2023	Code			
LOCATION	K.P (522+000)				
NAME COMPANY	الامل	AML (5)	ZONE	522+500	523+000

Visual inspection test

radiant test

gradation of bulk materials

sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	table classify
Mass retained (g)	0.0	1244.0	1582.0	1375.0	1987.0	1631.0	1544.0		soil classify
amulative Retained (g)	0.0	1244.0	2808.0	4181.0	6168.0	7799.0	9343.0		A-1-b
Cumulative Retained %	0.0	6.5	14.6	21.7	32.0	40.5	48.5		PRO
Cumulative Passing %	100.0	93.5	85.4	78.3	68.0	59.5	51.5		WC
									CBR

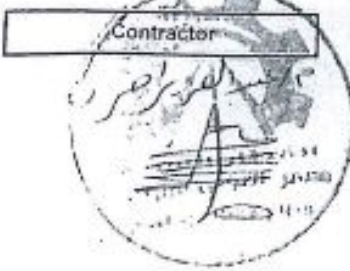
oft material gradation

sieve size	10	40	200	WT.OF sample	500.00	gm
amulative Retained (g)	43.20	187.70	376.40			
Cumulative Retained %	8.64	37.54	75.28			
Cumulative Passing %	91.36	62.46	24.72			

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
amulative Passing %	100.0	93.5	85.4	78.3	68.0	59.5	51.5	47.0	32.2	12.7

ATTERBERG LIMITS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	24.92%	20.55%	4.38%



Consultant

mohamed elsaied
m.elsaied

15-5-2023

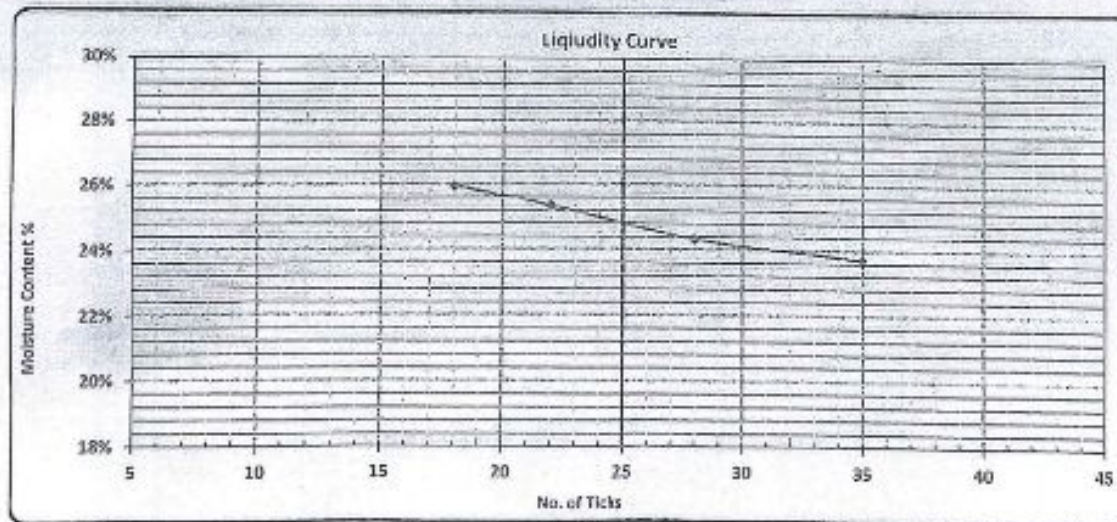
 KAYE & KAYE كايه وكايه ٢٠٠٠	 SCA سلطة قناة السويس	Electric Express Train - HSR	 سلطة قناة السويس
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Plasticity and Liquidity Test - Atterberg Limits

Testing Date:	30-4-2023	Code:	FROM STA:	522+500	523+000
Location:	K.P (522+000)	AML (5)			
Company Name	الاسفل				

Testing Results :-

Test	Liquid Limit				Plastic Limit	
No. of Ticks	35	28	22	18	-	-
Tare No.	40	33	31	5	35	17
Tare WT. (gm)	46.10	79.80	79.40	82.70	82.00	41.90
Tare WT. + Wet WT. (gm)	60.10	93.60	98.90	96.30	84.80	45.60
Tare WT. + Dry WT. (gm)	57.90	90.90	95.00	93.50	84.30	45.00
Water WT. (gm)	2.80	2.70	3.90	2.80	0.50	0.60
Dry WT. (gm)	11.80	11.10	15.40	10.80	2.30	3.10
Moisture Content %	23.7%	24.3%	25.3%	25.9%	21.7%	19.4%
Average %					20.5%	



LL	PL	PI
24.92%	20.55%	4.38%

Lab. Specialist	Lab. Engineer	Consultant Engineer
-----------------	---------------	---------------------

Name :

Name :

Name : mohamed elsaied

Sign :

Sign :

Sign : m. elsaied

15-5-2023



Electric Express Train - HSR
From El Ain El Sokhna City To El Alemeln - MATROUH
Section - 7 From FOKA TO MARSA MATROUH
From Station 522+000 To Station 523+177



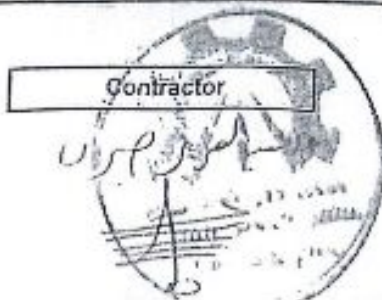
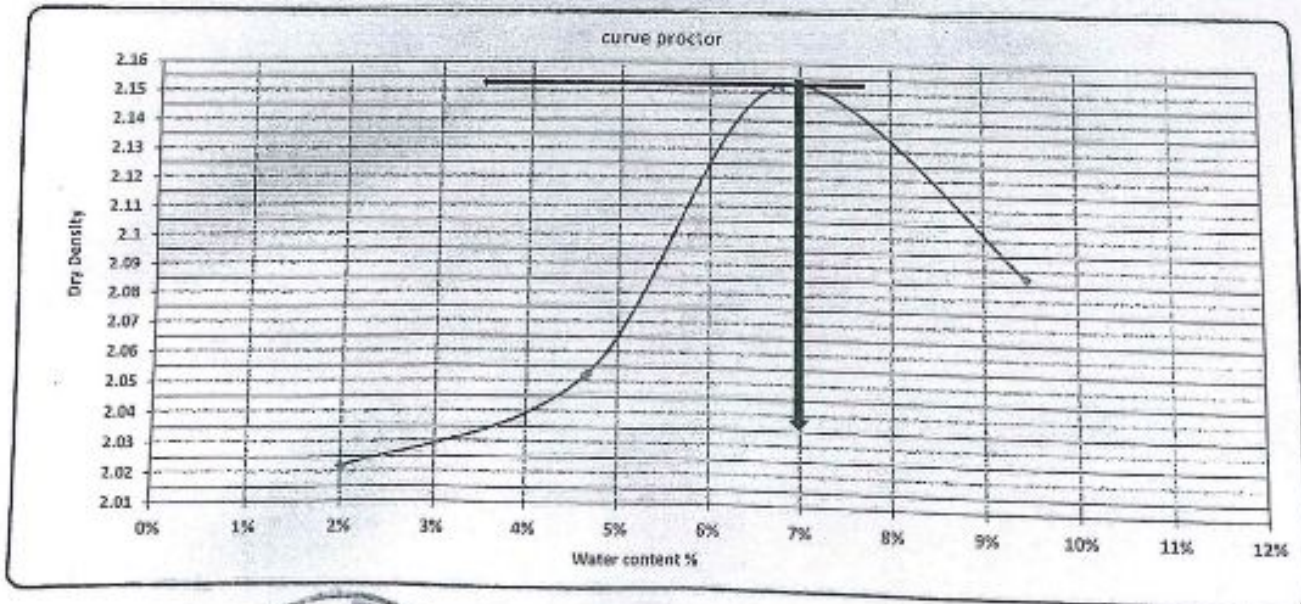
PROCTOR TEST

TESTING DATE:	30-6-2023	Code			
LOCATION	K.P (522+000)	AML (5)	Station	522+500	523+000
NAME COMPANY	الامل				

Weight of empty mold :	5734.0	MAX Dry Density	2.153
Mold Volume:	2169.0	Water content %	7

trial no :	1	2	3	4	
Wt. Of Mold & wet soil	10327.0	10412.0	10740.0	10710	
WT. WET SOIL	4673.0	4653.0	4986.0	4956.0	
Wt. Density	2.062	2.148	2.259	2.285	

Tare No.	32	31	25	53	40	17	30	17		
Tare wt.	82.7	80.4	81.9	78.0	46.3	41.3	79.8	41.9		
Wt. Of wet soil & tare	150.0	159.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	148.3	148.5	149.9	146.7	143.7	142.6	143.9	140.7		
Wt. Of water	1.2	1.5	3.1	3.1	6.3	7.3	6.1	9.3		
Wt. Of dry soil	66.1	68.1	68.0	68.2	97.4	101.0	64.1	98.8		
Water content %	1.8%	2.2%	4.8%	4.5%	6.4%	7.1%	9.5%	9.4%		
AV. Water content %	2.0%		4.7%		6.3%		9.5%			
Dry Density	2.022		2.052		2.152		2.087			



Consultant
mohamed elsaied
m. elsaied

California Bearing Ratio TEST

Testing Date :	3-5-2023	Code		
Location :	K.P (S22+000)	AML (5)	FROM STA :	S22+500 523+000
Company Name	الامل			

Test Results

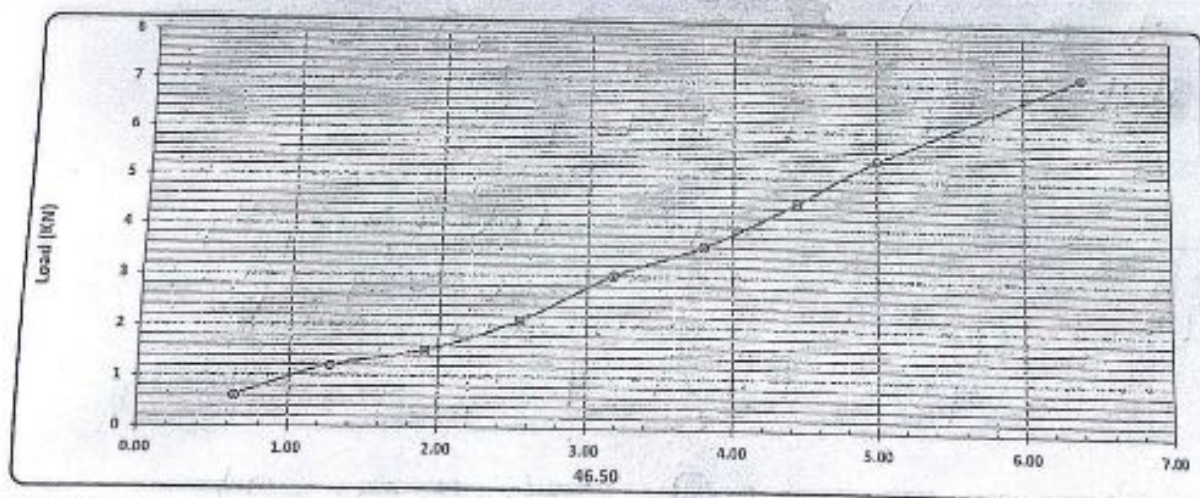
Compaction % for Mold	
Mold No.	3
Mold Vol. (cm ³)	2025
Mold WT. (gm)	5034
Mold WT. + Wet WT. (gm)	9700
Wet WT. (gm)	4666
Wet Density (g/cm ³)	2.304
Dry Density (g/cm ³)	2.153
Proctor Density (g/cm ³)	2.153
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	40
Tare WT. (gm)	46.6
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	143.2
5335	6.5
Dry WT. (gm)	96.8
Moisture Content %	7.0

Swelling	
Mold No.	3
Date	3-5-2023
Initial Height (mm)	1.00
Final Height (mm)	1.15
Difference	0
Sample Height (mm)	119.00
Swelling Ratio %	0.1%

Loading Reading :

46.50	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.09	5.74
Load Reading (mm)	0.05	0.04	0.05	0.07	0.10	0.12	0.15	0.18	0.24
Load (KN)	0.6	1.2	1.5	2.1	3.0	3.8	4.5	5.4	7.1



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Correlation (%)	CBR
2.50	2.10	13.6	15.7%	100	98	15.4%
5.00	5.40	20.0	17.0%			26.4%

Lab. Specialist

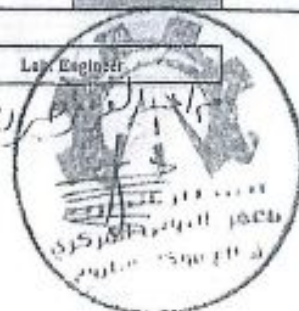
Name :

Sign :

Lab. Engineer

Name :

Sign :



Consultant Engineer

Name : mohamed etared

Sign : m. etared 15-5-23