

محضر استلام موقع

مشروع: أعمال الجسر الترابي لمشروع القطار الكهربائي السريع قطاع فوكة
- مطروح في المسافة من كم ٥٣٨+٠٠٠ الى كم ٥٤٨+٠٠٠ بطول ١٠
كم بالاتجاهين

تنفيذ: شركة صالح نوبي جروب للمقاولات

إشراف: المنطقة الخامسة - منطقة غرب الدلتا

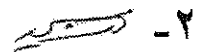
طبقاً للعقد رقم (٢٠٢٣/٢٠٢٢/١٠٨٢) بتاريخ: ٢٠٢٢/١٢/٢٧

إنه في يوم الأحد الموافق ٢٠٢٢/١٢/٢٩ اجتمع كل من:-

- ١- السيد المهندس /إبراهيم عبد الله الحناوي مهندس العملية - الهيئة العامة للطرق والكباري
 - ٢- السيد المهندس / محمد سمير عبد العظيم مدير مشروع - شركة صالح نوبي جروب للمقاولات
- وذلك للمرور على مسار العملية المذكورة عاليه لاستلام الموقع :-
وقد تبين أن الموقع خالياً من العوائق الظاهرية ويسمح بالبداية في التنفيذ وبناء عليه يعتبر
تاريخ ٢٠٢٢/١٢/٢٩ هو تاريخ استلام الموقع وبدء الأعمال بالعملية.
واقفل المحضر على ذلك ووقع الحضور

التوقيعات

١- 

٢- 

رئيس الإدارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عقيد مهندس /

"هاني محمد محمود طه"

٢٠٢٣
١٢/٢٩



قائمة الكميات الواردة بالمستخلص جاري (١٠)

مشروع : القطر الكهربائي السريع (العين السخنة - العاصمة الادارية - العلمين - مطروح) قطاع فوكة - مطروح في
المسافة من الكم ٥٣٨+٠٠٠ الى الكم ٥٤٨+٠٠٠ بطول ١٠,٠ كيلو متر بالإتجاهين

رقم البند و بيانه : (٤ - ٢) بالتر المكعب اعمال توريد وفرش طبقة أساس (Sub Ballast) من الاحجار الصلبة
المتدرجة ناتج تكسير الكسارات والمطابقة للمواصفات
تنفيذ : شركة صالح نوبي جروب للمقاولات

مقدار العمل السابق : ٠ م ٣

الكمية	الابعاد (متر)		الموقع الكيلومتری		بيان الاعمال بالمقايضة
	مساحة القطاع	طول	الى	من	
34.74	9.76185	400	541+400	541+000	القطاع الأول
4656	15.5200	200	542+500	542+300	القطاع الثاني
7122.4	13.18963	540	543+220	542+680	القطاع الثالث
4800.58	5.85437	820	544+160	543+340	القطاع الرابع
3513.19	5.85532	600	544+840	544+240	القطاع الخامس
411.15	5.13938	80	545+000	544+920	القطاع السادس
24408.06		اجمالي الكميات خلال فترة المستخلص الحالية (م ^٣)			
24408.06		الاجمالي الكلي (م ^٣)			

مهندس الهيئة العامة
للطرق والكباري
م / إبراهيم الحناوي

مهندس الاستشاري
مكتب د/ خالد قنديل
م / خالد فوزي

مهندس الاستشاري (xyz)
م / محمد خليل
محمد خليل

مهندس الشركة
م / وليد محمد عقاب



قائمة كميات بالمستخلص جارى (١٠)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في
المسافة من الكم ٥٣٨+٠٠٠ الى الكم ٥٤٨+٠٠٠ بطول ١٠,٠ كيلو متر بالإتجاهين

رقم البند وبيانه: (٢-٤) علاوة مسافة النقل ٢٥١ كم لأعمال (Sub Ballast)

علاوة مسافة النقل

تنفيذ : شركة هـ.الح نوبي جروب للمقاولات

مقدار العمل السابق : 0 م ٣

الكمية	بيان بالكميات
24408.06	الكمية طبقاً لقوائم الكميات
24408.06	اجمالي الكميات خلال فترة المستخلص الحالية (م ٢)
24408.06	الاجمالي الكلي (م ٣)

مهندس الهيئة العامة
للطرق والجسور
م / إبراهيم الحناوي

مهندس الإستشاري
مكتب د/خالد فتنديل
م / خالد فوزي

مهندس الإستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / وليد محمد عقاب

٢



قائمة كميات بالمستخلص جاري (١٠)

مشروع : القطار الكهربائي السريع (العين السخنة - العاصمة الادارية - العلمين - مطروح) قطاع فوكة - مطروح في المسافة من الكم ٥٣٨+٠٠٠ الى الكم ٥٤٨+٠٠٠ بطول ١٠,٠ كيلو متر بالإتجاهين
رقم البند وبيانه : (٢-٤) رسوم الكارثة والموازن طبقاً للمادة (٢٦) من الشروط العامة والمواصفات طبقاً لما جاء بالقائمة الموحدة لاسعار الطرق لاعمال طريقه (Sub Ballast)

الكارثات والموازن

تنفيذ : شركة صالح ذيني جروب للمقاولات

مقدار العمل السابق :

٣٠ ٥

الكمية		بيان بالكميات
24408.06		الكمية طبقاً لقوائم الكميات
24408.06	اجمالي الكميات خلال فترة المستخلص الحالية (م ^٣)	
24408.06	الاجمالي الكلي (م ^٣)	

مهندس الهيئة العامة
للطرق والجسور
/ إبراهيم الحناوي

مهندس الإستشاري
مكتب د/خالد قنديل
م / خالد فوزي

مهندس الإستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / وليد محمد عتاي

21

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي إ. م. خالد فاضل	 SWUSA SHAKER	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	الهيئة العامة للمواصلات (DARRELT)
		From Station 504+000 To Station 568+177	 الهيئة العامة للمواصلات (DARRELT)

Operating Lab.	AL Nuby Central Lab
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PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	22-07-2023	Code	Zone	543+000	545+000
LOCATION	K,P (543+800)	NWB (S.B -1)	Material	Sub Ballast (4000m3)	
NAME COMPANY	AL Nuby Group		Layer Thickness	20	

1-visual inspection test

2-Gradient test

									Table classify	
<u>A-gradation of bulk materials</u>			SAMPLE WEIGHT [g]		36923.00		gm		Soil Classify	A-1-a
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	PRO	2.225
Mass retained (g)	0.0	478.0	0.0	10560.0	0.0	6871.0	9420.0		WC	6.40
Cumulative Retained (g)	0.0	478.0	478.0	11038.0	11038.0	17909.0	27329.0		CBR	95.40
Cumulative Retained %	0.0	1.3	1.3	29.9	29.9	48.5	74.0		Los Angles	26.30
Cumulative Passing %	100.0	98.7	98.7	70.1	70.1	51.5	26.0		Specific gravity	2.589

<u>B-soft material gradation</u>				WT.OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	183.00	349.00	414.00				
Cumulative Retained %	36.60	69.80	82.80				
Cumulative Passing %	63.40	30.20	17.20				

<u>C-General gradient</u>										
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	98.7	98.7	70.1	70.1	51.5	26.0	16.5	7.8	4.5
Limits		100-75	100-50	70-75		60-15		0-35	30-0	0-7

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

Contractor Engineer :-	
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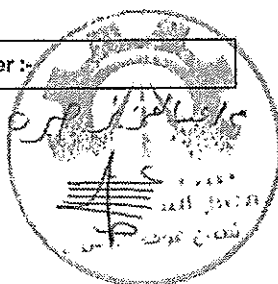
Name :

Sign :

Lab. Engineer :-	
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Name :

Sign :



Consultant Engineer :-	
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Name : Hassan

Sign :

25/7/2023

 	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		 

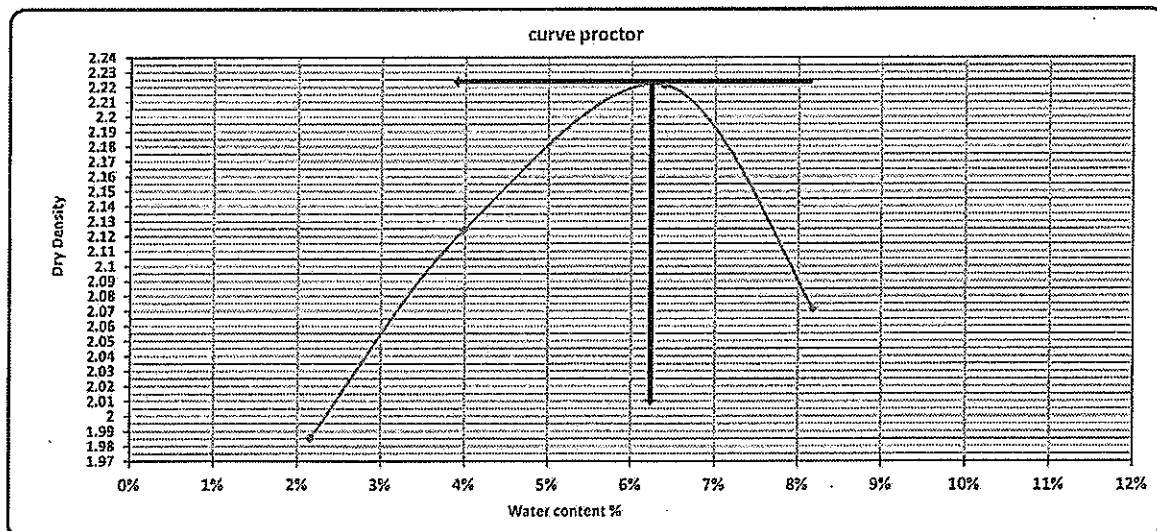
PROCTOR TEST

TESTING DATE:	23-07-203	Code			
LOCATION	K,P (543+800)	NWB (S.B - 1)	zone	543+000	545+000
NAME COMPANY	AL Nuby Group				

Weight of empty mold :	6290.0	MAX Dry Density	2.225
Mold Volume:	2142.0	Water content %	6.4

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10635.0	11021.0	11353.0	11091	
WT. WET SOIL.	4345.0	4731.0	5063.0	4801.0	
Wt. Density	2.028	2.209	2.364	2.241	

Tare No.	35	50	10	34	19	18	22	11		
Tare wt.	82.1	81	41.8	81.4	44	52.8	60.8	58		
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	148.6	148.5	145.8	147.4	143.8	144.0	143.1	143.2		
Wt. Of water	1.4	1.5	4.2	2.6	6.2	6.0	6.9	6.8		
Wt. Of dry soil	66.5	67.5	104.0	66.0	99.8	91.2	82.3	85.2		
Water content %	2.1%	2.2%	4.0%	3.9%	6.2%	6.6%	8.4%	8.0%		
AV. Water content %	2.2%		4.0%		6.4%		8.2%			
Dry Density	1.986		2.124		2.222		2.072			



Contractor Engineer :-

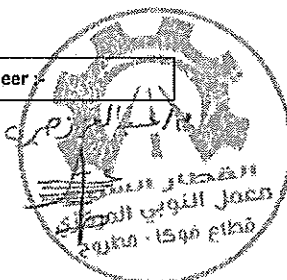
Name :

Sign :

Lab. Engineer :-

Name :

Sign :



Consultant Engineer :-

Name : Hassan

Sign :

[Signature] 25/7/2023

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد فاضل	 SAKKA	Electric Express Train - HSR	 الهيئة العامة للإعانة الهيئة العامة للإعانة الهيئة العامة للإعانة
		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	

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

TESTING DATE:	23-07-2023	code	zone	543+000	545+000
LOCATION	K.P (542+800)	NWB (S.B -1)			
NAME COMPANY	AL Nuby Group				

Weight of sample	2500	gm
Weight of saturated -dry surface sample (B)	2516	gm
Weight of saturated sample in water (C)	1560	gm
Weight of dry sample after heating (A)	2475	gm

Results:-

Bulk Specific gravity = $A / (B-C)$	2.589	
Apparent specific gravity = $A / (A-C)$	2.705	
Asorbition = $(B-A)/A$	1.657	%

Los Anglos abrasion AASHTO-T96

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3685	26.3

Contractor Engineer :-

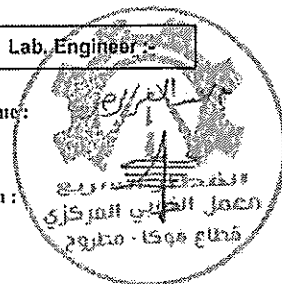
Name :

Sign :

Lab. Engineer :-

Name:

Sign :



Consultant Engineer :-

Name: Hassan

Sign :

25/7/2023



Electric Express Train - HSR



Spreading Lab

AL Nuby Central Lab

California Bearing Ratio TEST

Testing Date :	25-7-2023	Code	FROM STA :	543+000	545+000
Location :	K,P (543+800)	NWB (S.B -1)			
Company Name	AL Nuby Group				

- : Test Results

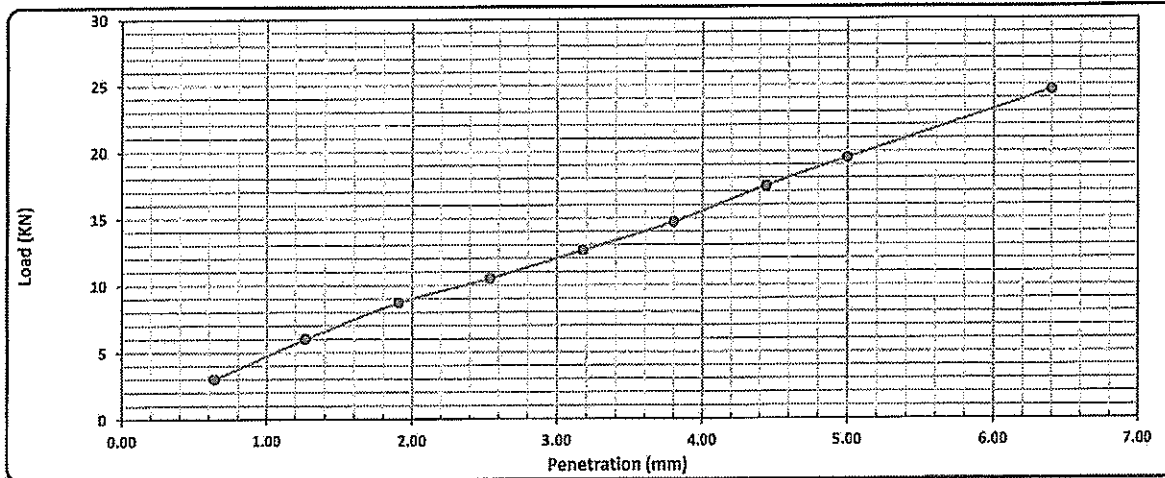
Compaction % for Mold	
Mold No.	5
Mold Vol. (cm ³)	2122
Mold WT. (gm)	4934
Mold WT. + Wet WT. (gm)	9945
Wet WT. (gm)	5011
Wet Density (g/cm ³)	2.361
Dry Density (g/cm ³)	2.220
Proctor Density (g/cm ³)	2.220
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	40
Tare WT. (gm)	46.4
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	143.8
3398	6.2
Dry WT. (gm)	97.4
Moisture Content %	6.4

Swelling	
Mold No.	5
Date	25-7-2023
Initial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0
Sample Height (mm)	119.00
Swelling Ratio %	0.0%

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)	0.10	0.20	0.29	0.35	0.42	0.49	0.58	0.65	0.82
Load (KN)	3.0	6.0	8.7	10.5	12.6	14.7	17.4	19.5	24.6



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR (%)
2.50	10.50	13.4	78.7%	100	98	77.1%
5.00	19.50	20.0	97.4%			95.4%

Contractor Engineer

Name :

Sign :

Lab Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :

Hassan

25/7/2023

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.م. خالد فريد	 SYSTEM SHAKER	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	الهيئة العامة للمطارات و النقل الجوي (GARBLT)

Operating Lab.	AL Nuby Central Lab
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PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	27-07-2023	Code	Zone	541+000	545+000
LOCATION	K,P (543+800)	NWB (S.B -2)	Material	Sub Ballast (4000m3)	
NAME COMPANY	AL Nuby Group		Layer Thickness	20	

visual inspection test

Gradient test

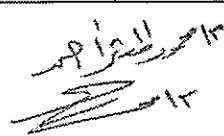
								Table classify	
<u>gradation of bulk materials</u>			SAMPLE WEIGHT [g]		17933.00		gm	Soil Classify	A-1-a
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	PRO
Mass retained (g)	0.0	404.0	1100.0	3335.0	2900.0	2944.0	3000.0		WC
Cumulative Retained (g)	0.0	404.0	1504.0	4839.0	7739.0	10683.0	13683.0		CBR
Cumulative Retained %	0.0	2.3	8.4	27.0	43.2	59.6	76.3		Los Angeles
Cumulative Passing %	100.0	97.7	91.6	73.0	56.8	40.4	23.7		Specific gravity

<u>soft material gradation</u>			WT.OF sample		500.00		gm
sieve size	10	40	200				
Cumulative Retained (g)	178.00	325.00	420.00				
Cumulative Retained %	35.60	65.00	84.00				
Cumulative Passing %	64.40	35.00	16.00				

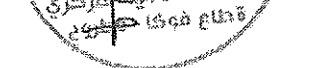
<u>General gradient</u>										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	97.7	91.6	73.0	56.8	40.4	23.7	15.3	8.3	3.8
Limits		100-75	100-50	70-75		60-15		0-35	30-0	0-7

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

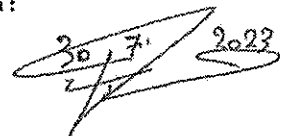
Contractor Engineer :-

Name : 

Lab. Engineer :-

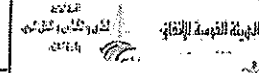
Name : 
 Sign : 

Consultant Engineer :-

Name : Hassan
 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 568+177



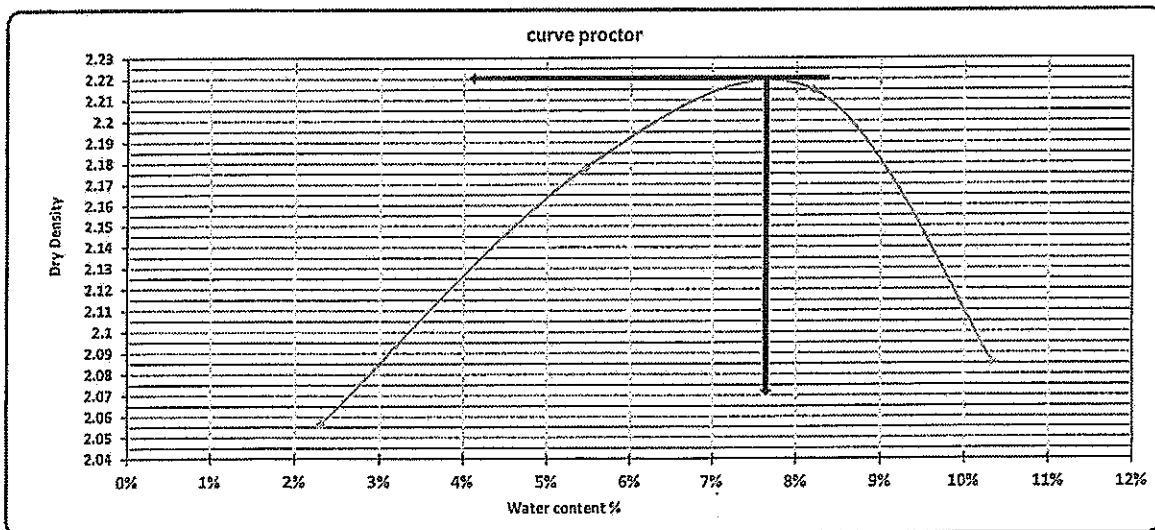
PROCTOR TEST

TESTING DATE:	27-7-2023	Code			
LOCATION	K.P (543+800)	NWB (S.B -2)	zone	541+000	545+000
NAME COMPANY	AL Nuby Group				

Weight of empty mold :	6290.0	MAX Dry Density	2.220
Mold Volume:	2142.0	Water content %	7.8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10797.0	11210.0	11423.0	11218	
WT. WET SOIL	4507.0	4920.0	5133.0	4928.0	
Wt. Density	2.104	2.297	2.396	2.301	

Tare No.	32	34	36	50	88	33	40	11		
Tare wt.	82.2	80.9	80.4	80.6	79.7	81.7	46.4	58		
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	148.6	148.3	146.4	146.4	144.9	144.6	140.5	141.2		
Wt. Of water	1.4	1.7	3.6	3.6	5.1	5.4	9.5	8.8		
Wt. Of dry soil	66.4	67.4	66.0	65.8	65.2	62.9	94.1	83.2		
Water content %	2.1%	2.5%	5.5%	5.5%	7.8%	8.6%	10.1%	10.6%		
A.V. Water content %	2.3%		5.5%		8.2%		10.3%			
Dry Density	2.056		2.178		2.215		2.095			



Contractor Engineer :-

Name :

Sign :

Lab. Engineer :-

Name :

Sign :

Consultant Engineer :-

Name : Hassan

Sign :

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد فتحي	 SINTRA SINTRA	Electric Express Train - HSR		 الهيئة العامة للنقل والتنمية الاقتصادية
		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		

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

TESTING DATE:	27-7-2023	code	zone	541+000	545+000
LOCATION	K.P (543+800)	NWB (S.B -2)			
NAME COMPANY	AL Nuby Group				

Weight of sample	2500	gm
Weight of saturated -dry surface sample (B)	2517	gm
Weight of saturated sample in water (C)	1557	gm
Weight of dry sample after heating (A)	2487	gm

Results:-

Bulk Specific gravity = A / (B-C)	2.591	
Apparent specific gravity = A / (A-C)	2.674	
Asorbtion = (B-A)/A	1.206	%

Los Anglos abrasion AASHTO-T96

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3773	24.54

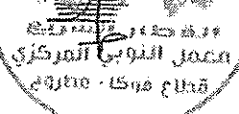
Contractor Engineer :-

Name : 

Sign : 

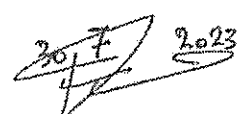
Lab. Engineer :-

Name : 

Sign : 

Consultant Engineer :-

Name : Hassan

Sign : 



Electric Express Train - HSR

الهيئة العامة للطرق
الوطنية
Ministry of Transport
National Road Authority

Operating Lab

AL Nuby Central Lab

California Bearing Ratio TEST

Testing Date :	30-7-2023	Code		FROM STA :	541+000	545+000
Location :	K.P (543+800)	NWB (S.B -2)				
Company Name	AL Nuby Group					

:- Test Results

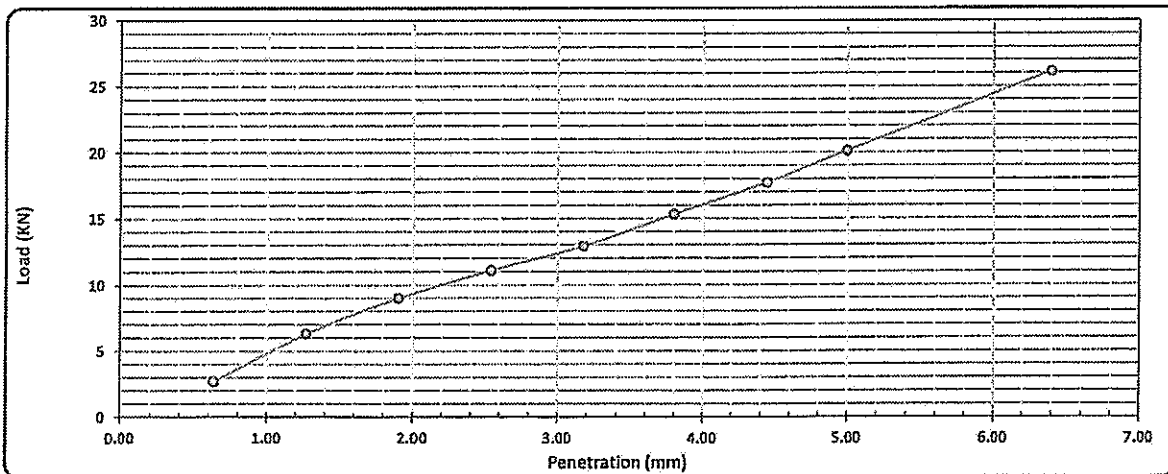
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2205
Mold WT. (gm)	5034
Mold WT. + Wet WT. (gm)	10305
Wet WT. (gm)	5271
Wet Density (g/cm ³)	2.390
Dry Density (g/cm ³)	2.219
Proctor Density (g/cm ³)	2.220
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	33
Tare WT. (gm)	81.7
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	145.1
Wet WT.	4.9
Dry WT. (gm)	63.4
Moisture Content %	7.7

Swelling	
Mold No.	1
Date	30-7-2023
Initial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0
Sample Height (mm)	120.00
Swelling Ratio %	0.0%

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)	0.09	0.21	0.30	0.37	0.43	0.51	0.59	0.67	0.87
Load (kN)	2.7	6.3	9.0	11.1	12.9	15.3	17.7	20.1	26.1



Calculations :-

Penetration (mm)	Load (kN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % عند نسبة 98
2.50	11.10	13.4	83.1%	100	98	81.5%
5.00	20.10	20.0	100.4%			98.4%

Contractor Engineer

Name :

Sign :

Signature of Contractor Engineer

Lab. Engineer

Name :

Sign :

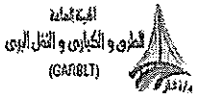
Signature of Lab. Engineer

Consultant Engineer

Name :

Sign :

Signature of Consultant Engineer

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد قنديل	 SUSTRA SHAKRA	Electric Express Train - HSR		 الهيئة العامة للطرق والكباري والنقل البري (GA/BLT)
		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		

Optimal Lab	AL Nuby Central Lab
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PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	03-08-2023	Code	Zone	541+000	543+300
LOCATION	K,P (542+600)	NWP (S.B-3)	Material	Sub Ballast (4000m3)	
NAME COMPANY	AL Nuby Group		Layer Thickness	20	

1-visual inspection test

2-Gradient test

A-gradation of bulk materials									Table classify	
				SAMPLE WEIGHT [g]		63684.00		gm	Soil Classify	A-1-a
sieve size	2	1.5	1	4/3	2/1	B/3	# 4	PASS	PRO	2.230
Mass retained (g)	0.0	562.0	8116.0	7360.0	7140.0	3644.0	13528.0		WC	6.80
Cumulative Retained (g)	0.0	562.0	8678.0	16038.0	23178.0	26822.0	40350.0		CBR	96.50
Cumulative Retained %	0.0	0.9	13.6	25.2	36.4	42.1	63.4		Los Angles	24.54
Cumulative Passing %	100.0	99.1	86.4	74.8	63.6	57.9	36.6		Specific gravity	2.591

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	113.00	295.00	415.00					
Cumulative Retained %	22.60	59.00	83.00					
Cumulative Passing %	77.40	41.00	17.00					

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	99.1	86.4	74.8	63.6	57.9	36.6	28.4	15.0	6.2
Limits		100-75	100-50	70-75		60-15		0-35	30-0	0-7

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

Contractor Engineer :-

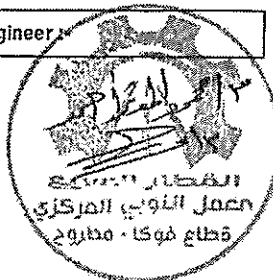
Name :

Sign :

Lab. Engineer :-

Name :

Sign :



Consultant Engineer :-

Name : Hassan

Sign : 7/8/2023

 	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA TO MARSA MATROUH From Station 594+000 To Station 668+177		 

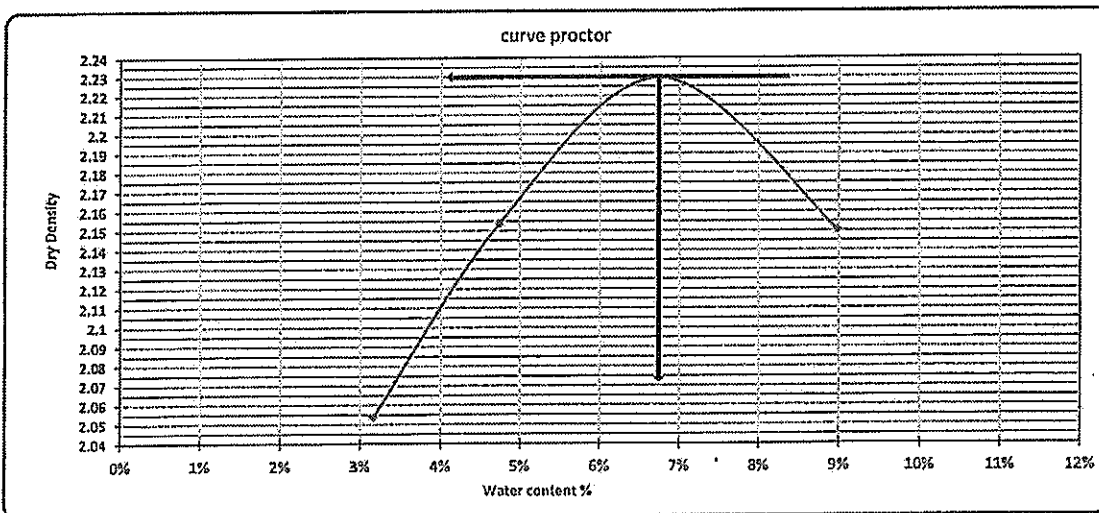
PROCTOR TEST

TESTING DATE:	03-08-2023	Code	zone	641+000	543+300
LOCATION	K,P (542+600)	NWB (S.B-3)			
NAME COMPANY	AL Nuby Group				

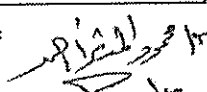
Weight of empty mold :	6275.0	MAX Dry Density	2.230
Mold Volume:	2158.0	Water content %	6.8

(trial) no :	1	2	3	4	
Wt. Of Mold+ wet soil	10847.0	11142.0	11411.0	11331	
WT. WET SOIL	4572.0	4867.0	5136.0	5056.0	
Wt. Density	2.119	2.255	2.380	2.343	

Tare No.	15	4	32	19	40	7	31	16		
Tare wt.	31	58.3	82.7	44.1	46.2	42.2	80.7	41.5		
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	146.2	147.3	146.9	145.3	143.2	143.4	144.2	141.2		
Wt. Of water	3.8	2.7	3.1	4.7	6.8	6.6	5.8	8.8		
Wt. Of dry soil	115.2	89.0	64.2	101.2	97.0	101.2	63.5	99.7		
Water content %	3.3%	3.0%	4.8%	4.6%	7.0%	6.5%	9.1%	8.8%		
A.V. Water content %	3.2%		4.7%		6.8%		9.0%			
Dry Density	2.054		2.153		2.229		2.150			



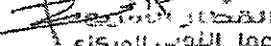
Contractor Engineer :-

Name : 

Sign : 

Lab. Engineer :-

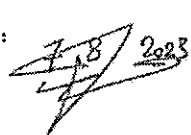
Name : 

Sign : 


 المركز القومي للبحوث
 قطاع الطرق - مطروح

Consultant Engineer :-

Name : Hassan

Sign : 

Absorption & Aggregate specific gravity
AASHTO-T86

Solo Maffei + (compagnia)

Weight of sample	2500	gm
Weight of saturated -dry surface sample (B)	2525	gm
Weight of saturated sample in water (C)	1558	gm
Weight of dry sample after heating (A)	2476	gm

Bulk Specific gravity = $A / (B-C)$	2.560	
Apparent specific gravity = $A / (A-C)$	2.697	
Absorption = $(B-A)/A$	1.979	%

Los Angeles abrasion: AASHTO-T96

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3750	25

Sign :

Hassan

~~78 2023~~

Sign:

 MINISTRY OF TRANSPORT AND MARITIME AFFAIRS وزارة النقل والملاحة البحرية جمهورية مصر العربية	Electric Express Train - HSR		الهيئة العامة للإقنات General Authority for Canal 
	From El Ain El Sokhna City To El Alamein - MATROUH		
	Section - 7 From FOKA To MARS MATROUH		
	From Station 504+000 To Station 558+177		

Operating Lab.	AL Nuby Central Lab
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PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	06-08-2023	Code	Zone	541+000	543+300
LOCATION	K,P (542+600)	NWB (S.B - 4)	Material	Sub Ballast (5000m3)	
NAME COMPANY	AL Nuby Group		Layer Thickness	20	

1-visual inspection test

2-Gradient test

								Table classify	
<u>A-gradation of bulk materials</u>				SAMPLE WEIGHT [g]		34173,00		gm	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	Soil Classify
Mass retained (g)	0.0	575.0	1140.0	7998.0	10110.0	1120.0	1010.0		PRO
Cumulative Retained (g)	0.0	575.0	1715.0	9713.0	19823.0	20943.0	21953.0		WC
Cumulative Retained %	0.0	1.7	5.0	28.4	58.0	61.3	64.2		CBR
Cumulative Passing %	100.0	98.3	95.0	71.6	42.0	38.7	35.8		Los Angles
									Specific gravity
									2.550

<u>B-soft material gradation</u>				WT.OF sample		500,00		gm
sieve size	10	40	200					
Cumulative Retained (g)	174.50	336.00	433.00					
Cumulative Retained %	34.90	67.20	86.60					
Cumulative Passing %	65.10	32.80	13.40					

<u>C-General gradient</u>										
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	98.3	95.0	71.6	42.0	38.7	35.8	23.3	11.7	4.8
Limits		100-75	100-60	70-75		60-15		0-35	30-0	0-7

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

Contractor Engineer :-	
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Name :

Sign :

Lab Engineer :-	
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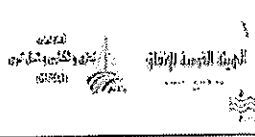
Name :

Sign :

Consultant Engineer :-	
------------------------	--

Name : Hassan

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 568+177		

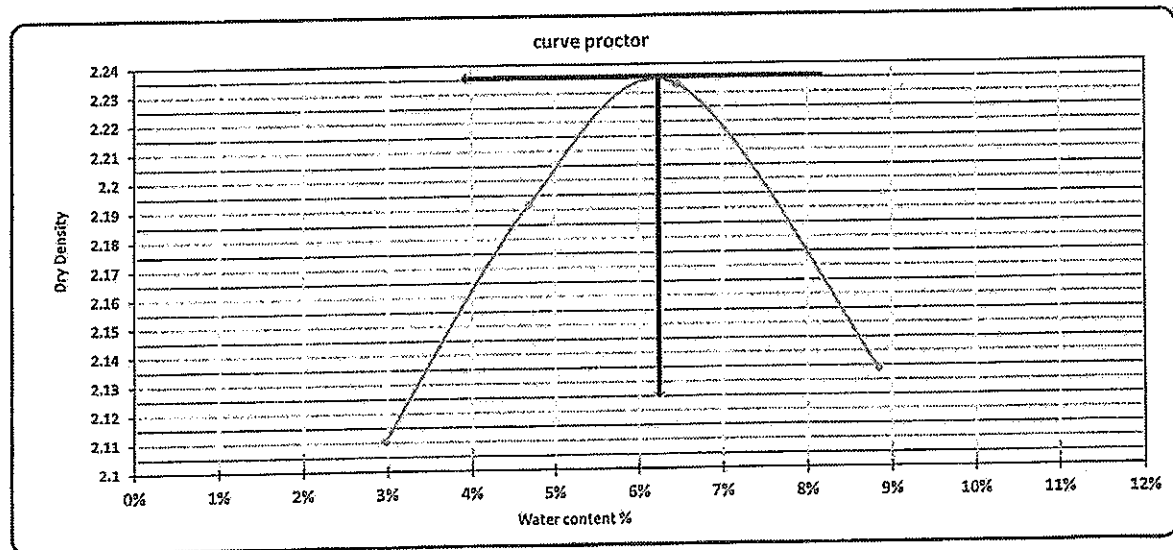
PROCTOR TEST

TESTING DATE:	06-08-2023	Code	zone	541+000	543+300
LOCATION	K,P (542+600)	NWB (S.B -4)			
NAME COMPANY	AL Nuby Group				

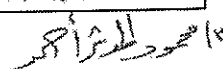
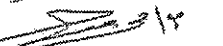
Weight of empty mold :	6275.0	MAX Dry Density	2.235
Mold Volume:	2158.0	Water content %	6.4

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10965.0	11226.0	11405.0	11287	
WT. WET SOIL	4690.0	4951.0	5130.0	5012.0	
Wt. Density	2.173	2.294	2.377	2.323	

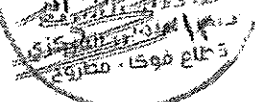
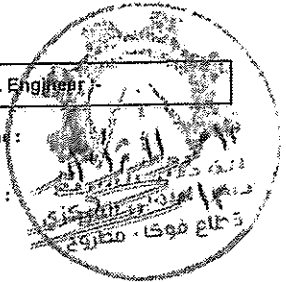
Tare No.	11	22	18	7	15	47	17	25		
Tare wt.	56.5	56.5	45	40.5	31.4	47.4	41.5	56.5		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	146.0	148.0	145.3	145.1	143.0	143.6	140.5	143.0		
Wt. Of water	3.4	2.0	4.7	4.9	7.0	6.4	9.5	7.0		
Wt. Of dry soil	90.1	91.5	100.3	104.6	111.6	96.2	99.0	86.5		
Water content %	3.8%	2.2%	4.7%	4.7%	6.3%	6.7%	9.6%	8.1%		
AV. Water content %	3.0%		4.7%		6.5%		8.8%			
Dry Density	2.110		2.192		2.233		2.134			



Contractor Engineer :-

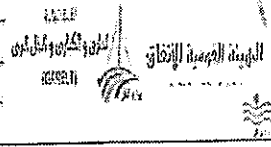
Name : 
Sign : 

Lab. Engineer :-

Name : 
Sign : 


Consultant Engineer :-

Name : Hassan
Sign : 

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ. م. خالد خليل	Electric Express Train - HSR		 الهيئة العامة للإذاعة الهيئة العامة للغذاء والدواء الهيئة العامة للغذاء والدواء الهيئة العامة للغذاء والدواء
	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		

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

TESTING DATE:	07-08-2023	code	zone	541+000	543+300
LOCATION	K.P (542+600)	NWB (S.B -4)			
NAME COMPANY	AL Nuby Group				

Weight of sample	2500	gm
Weight of saturated -dry surface sample (B)	2505	gm
Weight of saturated sample in water (C)	1540	gm
Weight of dry sample after heating (A)	2466	gm

Results:-

Bulk Specific gravity = A / (B-C)	2.555	
Apparent specific gravity = A / (A-C)	2.663	
Asorbtion = (B-A)/A	1.582	%

Los Anglos abrasion AASHTO-T96

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3755	24.9

Contractor Engineer :-

Name :

Sign :

Lab. Engineer :-

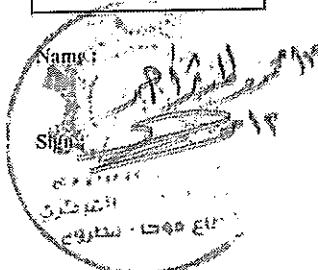
Name :

Sign :

Consultant Engineer :-

Name :

Sign :



Hassan
12/8/2023

	Electric Express Train - HSR	
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California Bearing Ratio TEST

Testing Date :	10-08-2023	Code	FROM STA :	541+000	543+300
Location :	K,P (542+600)	NWB (S.B -4)			
Company Name	AL Nuby Group				

- : Test Results

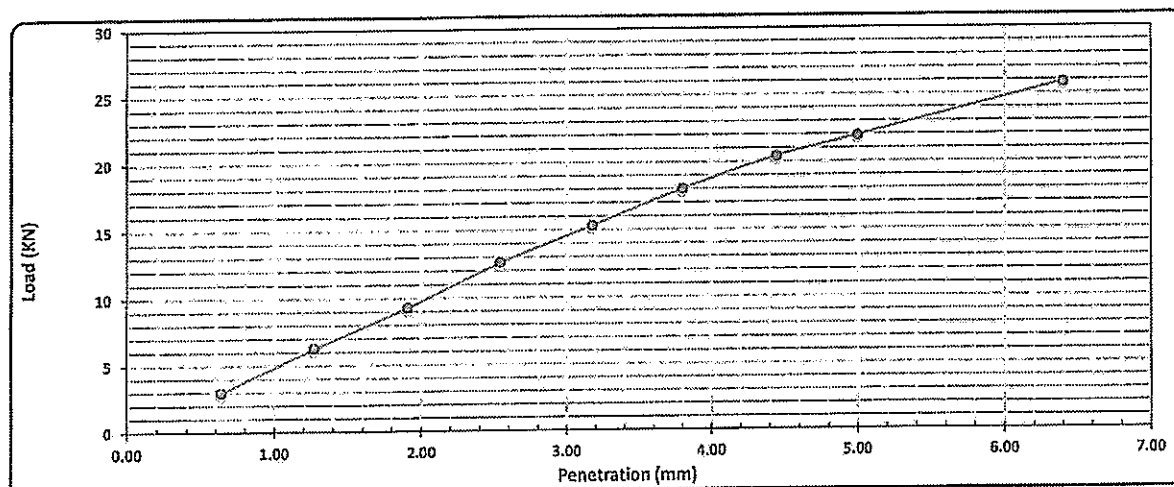
Mold No.	1
Mold Vol. (cm ³)	2205
Mold WT. (gm)	5034
Mold WT. + Wet WT. (gm)	10213
Wet WT. (gm)	5179
Wet Density (g/cm ³)	2,349
Dry Density (g/cm ³)	2,216
Proctor Density (g/cm ³)	2,235
Compaction %	99,1

Tare No.	22
Tare WT. (gm)	58,1
Tare WT. +Wet WT. (gm)	150
Tare WT. +Dry WT. (gm)	144,8
Wet WT	5,2
Dry WT. (gm)	86,7
Moisture Content %	6,0

Mold No.	1
Date	10-08-2023
Initial Height (mm)	5,50
Final Height (mm)	5,50
Difference	0
Sample Height (mm)	120,00
Swelling Ratio %	0,0%

Loading Reading :

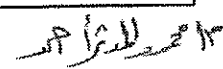
Penetration (mm)	0,64	1,27	1,91	2,54	3,18	3,80	4,45	5,00	6,40
Load Reading (mm)	0,10	0,21	0,31	0,42	0,51	0,60	0,68	0,73	0,86
Load (KN)	3,0	6,3	9,3	12,6	15,3	18,0	20,4	21,9	25,8

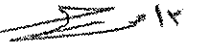


Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % عند نسبة 98
2.50	12.60	13.4	94.4%	99	98	93.3%
5.00	21.90	20.0	109.4%			108.1%

Contractor Engineer

Name : 

Sign : 

Lab Engineer

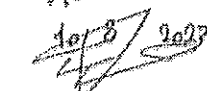
Name : 

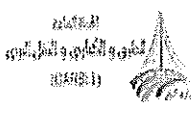
Sign : 

مطبعة - 150 - 200

Consultant Engineer

Name : Hassan

Sign : 

	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		

Operating Lab.	AL Nuby Central Lab
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PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	13-8-2023	Code	Zone	542+000	545+000
LOCATION	K,P (543+800)	NWB (S.B -6)	Material	Sub Ballast (5000m3)	
NAME COMPANY	AL Nuby Group		Layer Thickness	20	

1-visual inspection test

2-Gradient test

								Table classify	
A-gradation of bulk materials				SAMPLE WEIGHT (g)		29887.00		gm	Soil Classify
sieve size	2	1.5	1	4/3	2/1	3/3	# 4	PASS	A-1-a
Mass retained (g)	0.0	820.0	1544.0	5655.0	6577.0	4499.0	3720.0		PRO
Cumulative Retained (g)	0.0	820.0	2364.0	8019.0	13596.0	18095.0	21815.0		WC
Cumulative Retained %	0.0	2.7	7.9	26.8	45.5	60.5	73.0		CBR
Cumulative Passing %	100.0	97.3	92.1	73.2	54.5	39.5	27.0		Los Angies
									Specific gravity

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	140.00	320.00	430.00					
Cumulative Retained %	28.00	64.00	86.00					
Cumulative Passing %	72.00	36.00	14.00					

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	97.3	92.1	73.2	54.5	39.5	27.0	19.4	9.7	3.8
Limits		100-75	100-60	70-75		60-15		0-35	30-0	0-7

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

Contractor Engineer :-	
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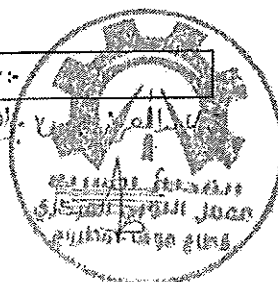
Name :

Sign :

Lab. Engineer :-	
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Name :

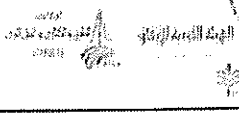
Sign :



Consultant Engineer :-	
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Name : Hassan

Sign : 15/8/2023

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

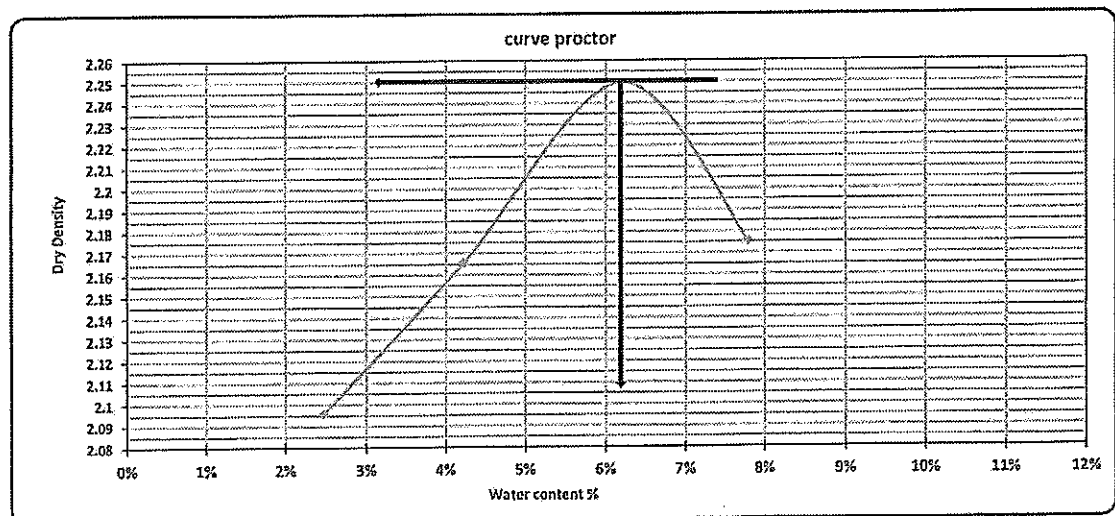
PROCTOR TEST

TESTING DATE:	13-8-2023	Code			
LOCATION	K.P (543+000)	NWB (S.B -6)	zone	542+000	545+000
NAME COMPANY	AL Nuby Group				

Weight of empty mold :	6275.0	MAX Dry Density	2.25
Mold Volume:	2158.0	Water content %	6.3

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10910.0	11146.0	11430.0	11335	
WT. WET SOIL	4635.0	4871.0	5155.0	5060.0	
Wt. Density	2.148	2.257	2.389	2.345	

Tare No.	31	32	35	38	34	36	15	12		
Tare wt.	80.5	82.6	81.5	75.5	80.7	80.4	33	52.6		
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	148.5	148.2	147.2	147.0	146.0	145.9	141.5	143.0		
Wt. Of water	1.5	1.8	2.8	3.0	4.0	4.1	8.5	7.0		
Wt. Of dry soil	68.0	65.6	65.7	71.5	65.3	65.5	108.5	90.4		
Water content %	2.2%	2.7%	4.3%	4.2%	6.1%	6.3%	7.8%	7.7%		
AV. Water content %	2.5%		4.2%		6.2%		7.8%			
Dry Density	2.096		2.166		2.249		2.175			



Contractor Engineer :- Name : Sign :		Consultant Engineer :- Name : Hassan Sign :
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	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			

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

TESTING DATE:	13-08-2023	code	zone	542+000	544+000
LOCATION	K.P (542+600)	NWB (S.B -5)			
NAME COMPANY	AL Nuby Group				

Weight of sample	2500	gm
Weight of saturated -dry surface sample (B)	2520	gm
Weight of saturated sample in water (C)	1545	gm
Weight of dry sample after heating (A)	2490	gm

Results:-

Bulk Specific gravity = A / (B-C)	2.554	
Apparent specific gravity = A/(A-C)	2.635	
Asorbition = (B-A)/A	1.205	%

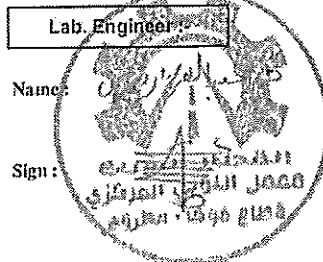
Los Anglos abrasion AASHTO-T96

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3745	25.1

Contractor Engineer :-

Name :

Sign :



Consultant Engineer :-

Name :

Sign :

15/8/2023



	Electric Express Train - HSR	
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California Bearing Ratio TEST

Testing Date :	15-8-2023	Code	FROM STA :	542+000	545+000
Location :	K,P (543+800)	NWB (S.B -5)			
Company Name	AL Nuby Group				

:- Test Results

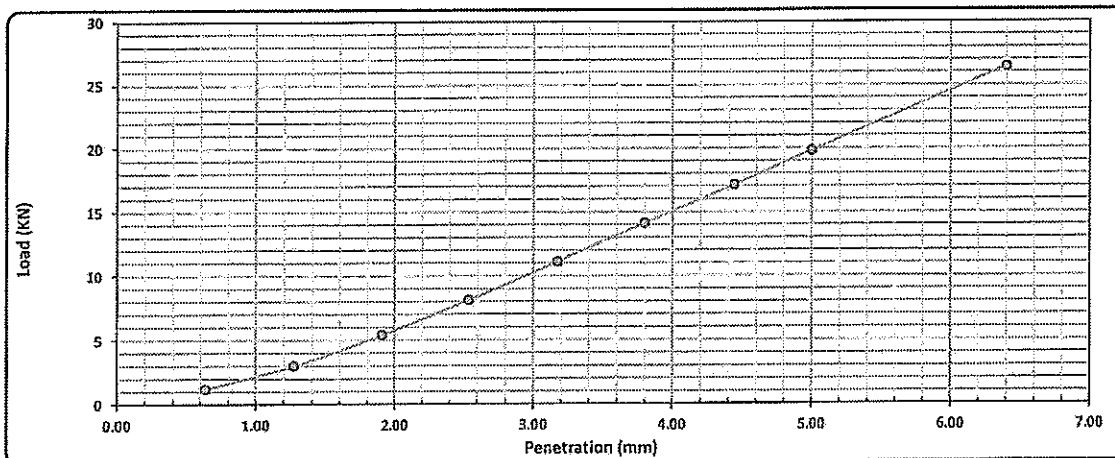
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2122
Mold WT. (gm)	4803
Mold WT. + Wet WT. (gm)	9875
Wet WT. (gm)	5072
Wet Density (g/cm ³)	2.390
Dry Density (g/cm ³)	2.249
Proctor Density (g/cm ³)	2.250
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	40
Tare WT. (gm)	46.4
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	143.9
Wet WT	6.1
Dry WT. (gm)	97.5
Moisture Content %	6.3

Swelling	
Mold No.	2
Date	15-8-2023
Initial Height (mm)	6.00
Final Height (mm)	6.00
Difference	0
Sample Height (mm)	120.00
Swelling Ratio %	0.0%

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)	0.04	0.10	0.18	0.27	0.37	0.47	0.57	0.66	0.88
Load (KN)	1.2	3.0	5.4	8.1	11.1	14.1	17.1	19.8	26.4



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % على نسبة 98
2.50	8.10	13.4	60.7%	100	98	59.5%
5.00	19.80	20.0	99.0%			96.9%

Contractor Engineer

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي إ. د. خالد فاضل	Electric Express Train - HSR		 الهيئة العامة للنقل والبنية التحتية (GABRIEL)
	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		

Operating Lab.	AL Nuby Central Lab
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PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	16-8-2023	Code	Zone	542+000	545+000
LOCATION	K,P (542+600)	NWB (S.B -6)	Material	Sub Ballast (5000m3)	
NAME COMPANY	AL Nuby Group		Layer Thickness	20	

1-visual inspection test

2-Gradient test

									Table classify	
A-gradation of bulk materials				SAMPLE WEIGHT (g)		30264.00		gm	Soil Classify	A-1-a
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	PRO	2.23
Mass retained (g)	0.0	799.0	2500.0	5420.0	5190.0	3255.0	3600.0		WC	7.00
Cumulative Retained (g)	0.0	799.0	3299.0	8719.0	13909.0	17164.0	20764.0		CBR	98.40
Cumulative Retained %	0.0	2.6	10.9	28.8	46.0	56.7	68.6		Los Angeles	24.96
Cumulative Passing %	100.0	97.4	89.1	71.2	54.0	43.3	31.4		Specific gravity	2.574

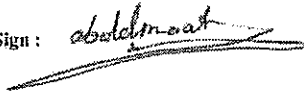
B-soft material gradation				WT.OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	118.00	299.00	417.00				
Cumulative Retained %	23.60	59.80	83.40				
Cumulative Passing %	76.40	40.20	16.60				

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	97.4	89.1	71.2	54.0	43.3	31.4	24.0	12.6	5.2
Limits		100-75	100-60	70-75		80-15		0-35	30-0	0-7

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

Contractor Engineer :-

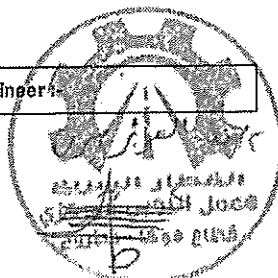
Name : ahmed abdelmoaty

Sign : 

Lab. Engineer :-

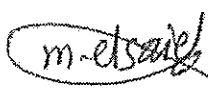
Name :

Sign :



Consultant Engineer :-

Name : mohamed elsaid

Sign : 

21-8-2023

	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		

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

TESTING DATE:	16-08-2023	code	zone	542+000	545+000
LOCATION	K.P (542+600)	NWB (S.B - 6)			
NAME COMPANY	AL Nuby Group				

Weight of sample	2500	gm
Weight of saturated -dry surface sample (B)	2513	gm
Weight of saturated sample in water (C)	1548	gm
Weight of dry sample after heating (A)	2484	gm

Results:-

Bulk Specific gravity = $A / (B-C)$	2.574	
Apparent specific gravity = $A / (A-C)$	2.654	
Asorbtion = $(B-A)/A$	1.167	%

Los Anglos abrasion AASHTO-T96

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3752	24.96

Contractor Engineer :-

Name : *ahmed abdelsamir*

Sign : *abdelsamir*

Lab. Engineer :-

Name : *محمد عبد الحليم*
 Sign : *محمد عبد الحليم*

Consultant Engineer :-

Name : *mohamed elsaied*

Sign : *m. elsaied*

21-8-2023



Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date :	19-8-2023	Code	FROM STA :	542+000	545+000
Location :	K.P (542+600)	NWB (S.B -8)			
Company Name	AL Nuby Group				

:- Test Results

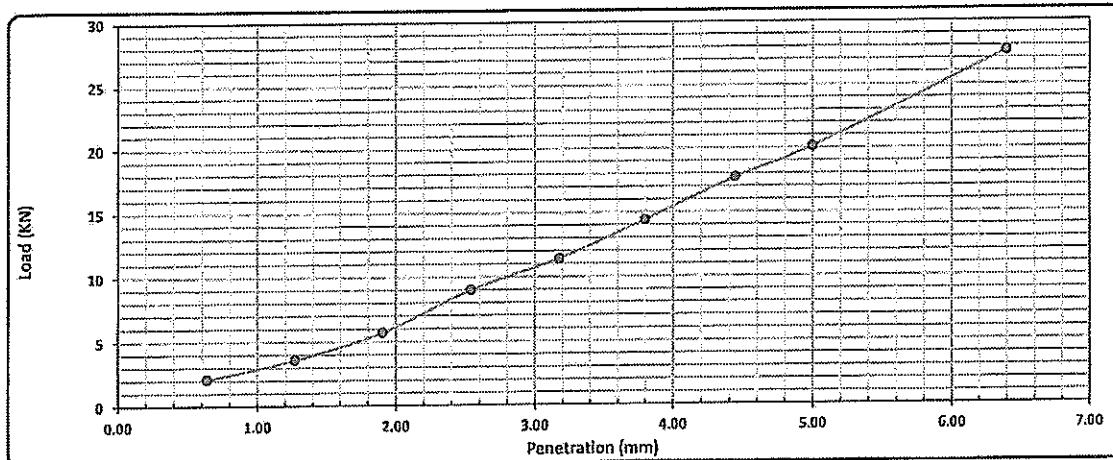
Compaction % for Mold	
Mold No.	4
Mold Vol. (cm ³)	2140
Mold WT. (gm)	4900
Mold WT. + Wet WT. (gm)	10050
Wet WT. (gm)	5150
Wet Density (g/cm ³)	2.407
Dry Density (g/cm ³)	2.249
Proctor Density (g/cm ³)	2.258
Compaction %	109.8

Moisture Ratio After Compacted Mold	
Tare No.	27
Tare WT. (gm)	59.6
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	144.1
Wet WT	5.9
Dry WT. (gm)	84.5
Moisture Content %	7.0

Swelling	
Mold No.	4
Date	19-8-2023
Initial Height (mm)	5.00
Final Height (mm)	5.00
Difference	0
Sample Height (mm)	120.00
Swelling Ratio %	0.0%

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)	0.07	0.12	0.19	0.30	0.38	0.48	0.59	0.67	0.92
Load (KN)	2.1	3.6	5.7	9.0	11.4	14.4	17.7	20.1	27.6



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Avoid - Compaction (%)	Compaction (%)	CBR (%)
2.50	9.00	13.4	67.4%	100	98	66.1%
5.00	20.10	20.0	100.4%			98.4%

Contractor Engineer

Name : *Abdul Mohamad*

Sign : *Abdul Mohamad*

Lab. Engineer

Name : *محمد بن عبد الله*

Sign : *محمد بن عبد الله*

Consultant Engineer

Name : *Mohamed Elsaied*

Sign : *M. Elsaied*

21-8-2023