



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



Testing Lab AL Nuby Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	20/05/2023	Code	Zone	507+000	509+000
LOCATION	K.P (507+000)	EGC (56)			
TESTING COMPANY	EG CONTRACT				

Inspection test

At test

ion of bulk materials			SAMPLE WEIGHT [g]		17209.00		gm	table classify	
ive size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
retained (g)		2058.0	1852.0	2031.0	1600.0	985.0	1036.0		A-1-a
ve Retained (g)	0.0	2058.0	3910.0	5941.0	7541.0	8526.0	9562.0	PRO	2.157
ive Retained %	0.0	12.0	22.7	34.5	43.8	49.5	55.6	WC	6.80
ive Passing %	100.0	88.0	77.3	65.5	56.2	50.5	44.4	CBR	60.20

terial gradation			WT.OF sample		500.00		gm
ive size	10	40	200				
ve Retained (g)	62.00	180.80	340.60				
ive Retained %	12.40	36.16	68.12				
ive Passing %	87.60	63.84	31.88				

al gradient										
size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
e Passing %	100.0	88.0	77.3	65.5	56.2	50.5	44.4	38.9	28.4	14.2

BERG TS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	24.90%	21.06%	3.84%



شركة إي جي كونترات
القطار السريع



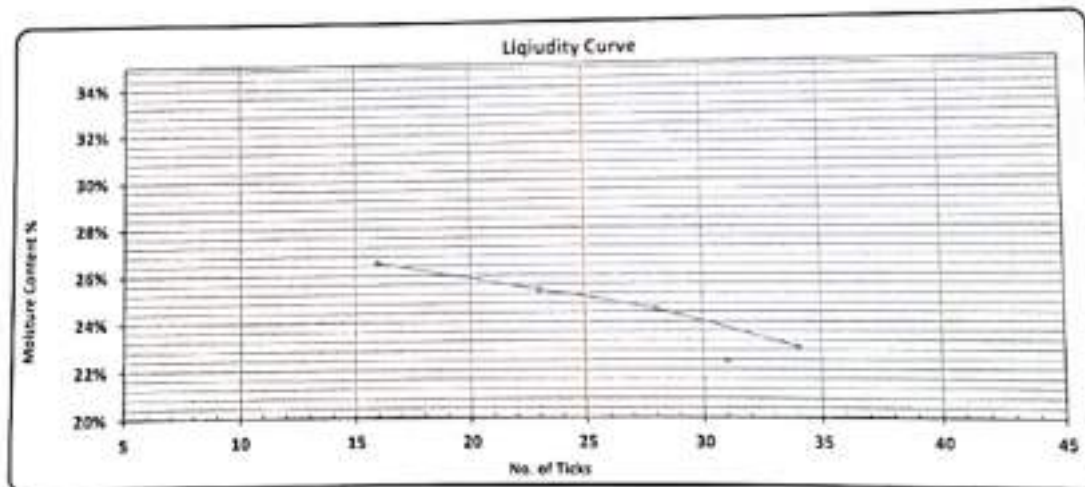
 	Electric Express Train - HSR	 
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Plasticity and Liquidity Test -Atterberg Limits

Testing Date:	20/05/2023	Code:	ZONE	507+000	509+000
Location:	K.P (507+000)	EGC (56)			
Company Name	EG CONTRACT				

Testing Results :-

Test	Liquid Limit				Plastic Limit	
	34	28	23	16	-	-
No. of Ticks	34	28	23	16	32	31
Tare No.	50	30	33	18	32	31
Tare WT. (gm)	80.90	79.69	78.80	40.9	82.20	80.10
Tare WT. + Wet WT. (gm)	110.90	113.60	111.90	71.90	85.60	83.60
Tare WT. + Dry WT. (gm)	105.20	106.99	105.20	65.40	83.00	83.00
Water WT. (gm)	5.60	6.70	6.70	6.50	0.60	0.60
Dry WT. (gm)	24.40	27.30	26.40	24.50	2.80	2.90
Moisture Content %	23.0%	24.5%	25.4%	26.5%	21.4%	20.7%
Average %					21.1%	



L.L.	P.L.	P.I
24.90%	21.06%	3.84%

Lab. Specialist	Lab. Engineer	Consultant Engineer
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Name :

Sign :

شركة إي جي كونترات
القسطار السريع

Name :

Sign :



Name :

Sign :

الاستشاري المهندس
د. خالد قنديل

	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		

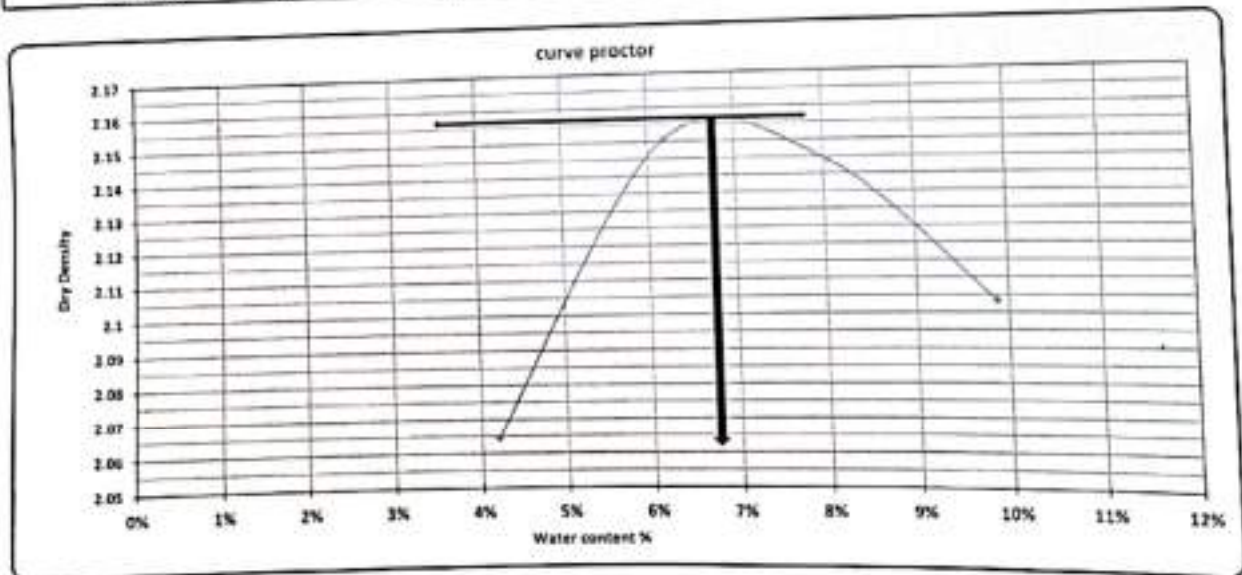
PROCTOR TEST

ESTING DATE:	20/05/2023	Code	zone	507+000	509+000
LOCATION	K.P (507+000)	EGC (56)			
AME COMPANY	EG CONTRACT				

Weight of empty mold :	6030.0	MAX Dry Density	2.157
Mold Volume:	2113.0	Water content %	6.5

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10575.0	10856.0	10925.0	10913	
WT. WET SOIL	4545.0	4826.0	4895.0	4883.0	
Wt. Density	2.151	2.284	2.317	2.311	

Tare No.	88	34	32	31	37	30	33	50		
Tare wt.	79.6	81.3	82.5	80.4	79.2	79.8	78.8	80.9		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	147.2	147.2	146.1	145.9	144.8	144.7	143.5	143.9		
Wt. Of water	2.8	2.8	3.9	4.1	5.2	5.3	6.5	6.1		
Wt. Of dry soil	67.6	65.9	63.6	65.5	65.6	64.9	64.7	63.0		
Water content %	4.1%	4.2%	6.1%	6.3%	7.9%	8.2%	10.0%	9.7%		
AV. Water content %	4.2%		6.2%		8.0%		9.9%			
Dry Density	2.064		2.151		2.144		2.103			



شركة إيجي كونتراتك
القطار السريع





Electric Express Train - HSR



Al-Naby Central Lab

California Bearing Ratio TEST

Testing Date :	23/05/2023	Code	FROM STA :	507+000	509+000
Location :	K.P (507+000)	EGC (56)			
Company Name	EG CONTRACT				

Test Results

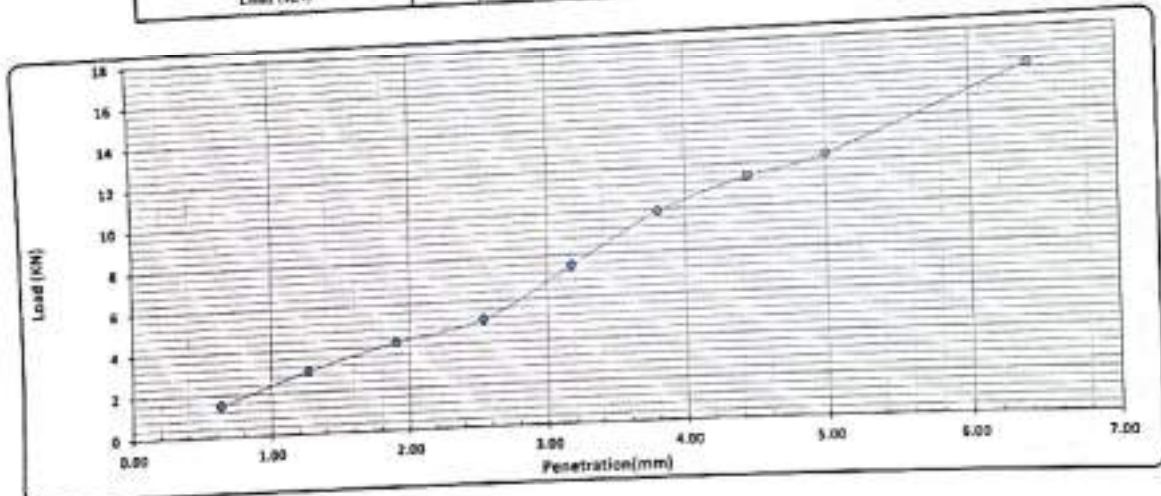
Compaction % for Mold	
Mold No.	6
Mold Vol. (cm ³)	2172
Mold WT. (gm)	5075
Mold WT. + Wet WT. (gm)	9968
Wet WT. (gm)	4893
Wet Density (g/cm ³)	2.303
Dry Density (g/cm ³)	2.158
Proctor Density (g/cm ³)	2.157
Compaction %	100.9

Moisture Ratio After Compacted Mold	
Tare No.	40
Tare WT. (gm)	46.4
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	143.5
W.T Moisture	6.3
Dry WT. (gm)	97.1
Moisture Content %	6.7

Swelling	
Mold No.	6
Date	23/05/2023
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	4.43	5.00	6.40
Load Reading (mm)	0.95	8.10	6.14	5.17	6.25	6.33	6.38	6.41	6.54
Load (KN)	1.5	3.8	4.2	5.1	7.5	9.9	11.4	12.3	16.2



Calculations :

Penetration	Load (Kpa)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR (%)
1000						98
2.50	5.10	13.4	38.2%	100	98	37.4%
5.00	12.30	26.0	61.4%			60.2%

Lab. Specialist

Name :

Sign :

شركة ايجي كونتراك
القسطار السريع



Name :

Sign :

Consultant Engineer

Name :

Sign :

المكتب
الهندسة والبناء
الاساسات والاسفلت
د. خالد قنديل

	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 504+000 To Station 508+177	
Operating lap	Al Tawkol Central Lab	

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	23-05-2023	code	ZONE	507+000	509+000
LOCATION	K.P (508)	EGC (57)	Material	Embankment 50 cm	
NAME COMPANY	EG CONTRACK		layer thickness		

visual inspection test

Gradient test

gradation of bulk materials								SAMPLE WEIGHT [g]	29340.00	gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS		CLASS	soil classify
Mass retained (g)	0.0	1521.0	2754.0	3652.0	3854.0	3852.0	3252.0			PRO	A-1-A
Cumulative Retained (g)	0.0	1521.0	4285.0	7937.0	11791.0	15443.0	18695.0			WC	2.16
Cumulative Retained %	0.0	5.2	14.6	27.1	40.2	52.6	63.7			CBR	7.1
Cumulative Passing %	100.0	94.8	85.4	72.9	59.8	47.4	36.28				43.2

soft material gradation				WT.OF sample	500.00	gm
sieve size	10	40	200			
Cumulative Retained (g)	45.00	155.00	350.00			
Cumulative Retained %	9.00	31.00	70.00			
Cumulative Passing %	91.00	69.00	30.00			

-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	94.8	85.4	72.9	59.8	47.4	36.3	33.0	25.0	10.88

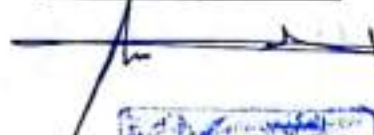
ATTERBERG LIMITS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	22.24%	21.09%	1.15%

Contractor


 المهندس المهندسين
 المهندس المهندسين

شركة ايجي كونتراتك
 القطار السريع

Consultant


 المهندس المهندسين
 المهندس المهندسين



المملكة العربية السعودية
الجمهورية العربية السورية



Electric Express Train - HSR

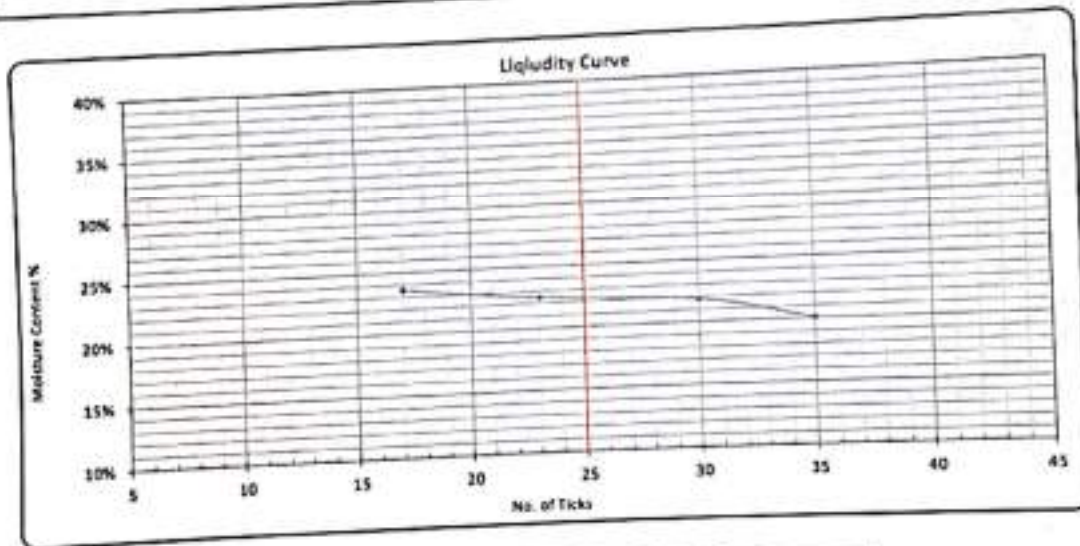


Plasticity and Liquidity Test - Atterberg Limits

Testing Date:	23/05/2023	Code:	FROM STA:	507+000	TO STA:	509+000
Location:	KP (508)	EGC (57)	Material:		Embankment	
Company Name:	EG CONTRACT		Layer Thickness:		50cm	

Testing Results:

Test	Liquid Limit				Plastic Limit	
	25	30	35	40	10	15
No. of Ticks	35	30	25	17	10	11
Tare No.	15	2	17	7	55.14	55.36
Tare WT. (gm)	54.38	52.85	56.61	52.85	61.53	60.29
Tare WT. + Wet WT. (gm)	71.52	68.07	71.85	70.03	60.5	59.4
Tare WT. + Dry WT. (gm)	68.65	65.34	69.05	66.73	1.07	0.89
Water WT. (gm)	2.87	2.73	2.80	3.28	5.31	4.04
Dry WT. (gm)	14.27	12.49	12.44	13.90	20.2%	22.0%
Moisture Content %	20.1%	21.9%	22.5%	23.6%	21.1%	
Average %						



L.L.	P.L.	P.I.
22.34%	21.09%	1.15%

Lab. Specialist	Lab. Engineer	Consultant Engineer
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Name :

Sign :

شركة إيجي كونتراتك
القطار السريع



Name :

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			

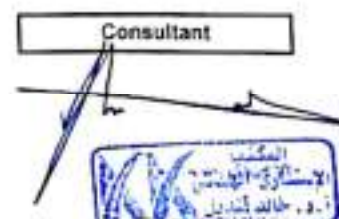
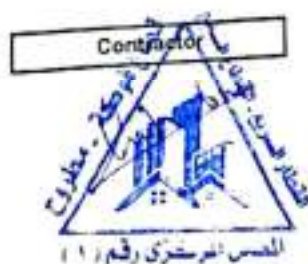
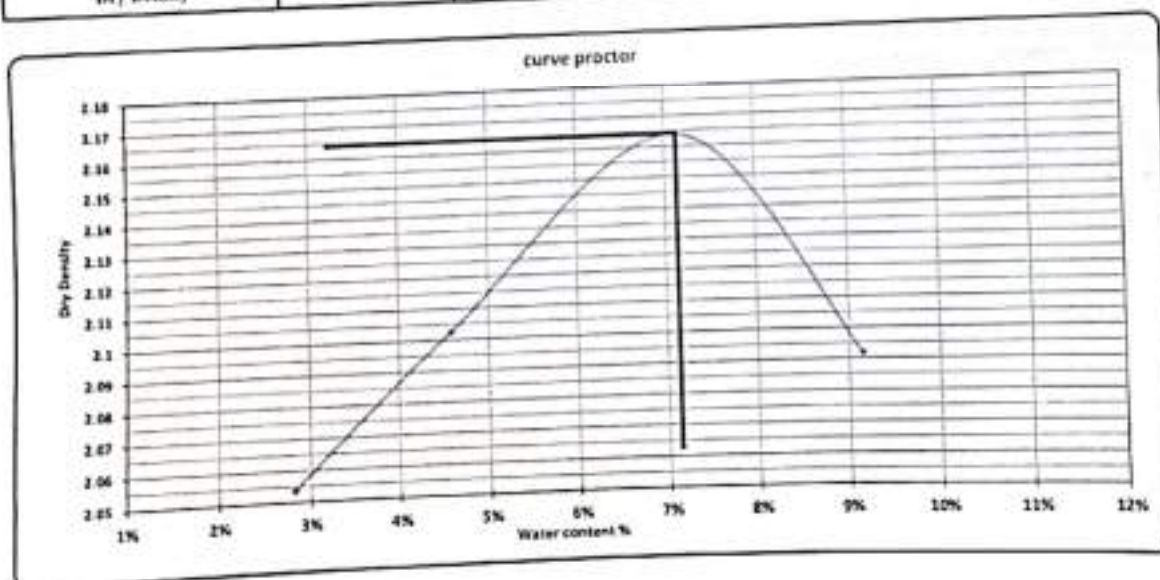
MODIFIED PROCTOR TEST ASTM D1557

TESTING DATE:	24-05-2023	code	ZONE	507+000	509+000
LOCATION	K.P (508)	EGC (57)	Material	Embankment	
NAME COMPANY	EG CONTRACT		layer thickness	50 cm	

Weight of empty mold :	5620.0	MAX Dry Density	2.16
Mold Volume:	2124.0	Water content %	7.1%

trial no :	1	2	3	4	
WL Of Mold + Wet Soil	10105.0	10196.0	10545.0	10470	
WT, WET SOIL	4485.0	4670.0	4925.0	4850.0	
WL Density	2.112	2.199	2.319	2.283	

Tare No.	12	13	14	15	16	17	18	19		
Tare wt.	53.12	53.64	55.33	54.21	56.35	57.63	52.31	53.21		
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	147.3	147.4	145.8	145.9	143.9	143.7	141.8	141.8		
WL Of water	2.7	2.6	4.2	4.1	6.1	6.3	8.2	8.1		
WL Of dry soil	94.2	93.8	90.5	91.7	87.4	86.1	89.5	86.7		
Water content %	2.8%	2.8%	4.7%	4.5%	7.0%	7.3%	9.2%	9.1%		
AV. Water content %	2.8%		4.6%		7.1%		9.2%			
Dry Density	2.054		2.103		2.194		2.092			



California Bearing Ratio TEST ASTM D1883

Testing Date :	25/05/2023	Code	FROM STA :	507+000	509+000
Location :	K.P (508)	EGC (57)	Material	Embankment	
Company Name	EG CONTRACT		Layer Thickness	50 cm	

1. Test Results

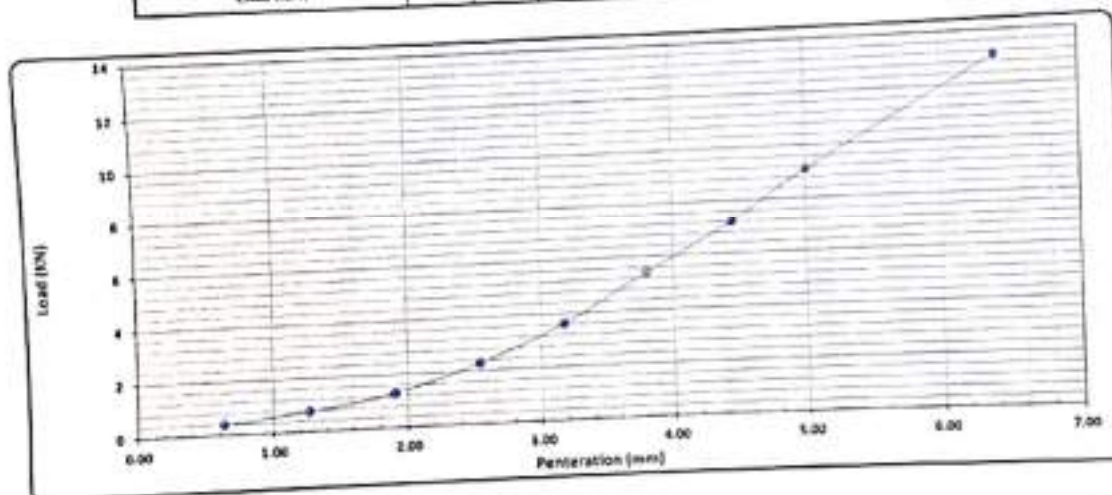
Compaction % for Mold	
Mold No.	3
Mold Vol. (cm ³)	2115
Mold WT. (gm)	5170
Mold WT. + Net WT. (gm)	10296
Net WT. (gm)	5126
Wet Density (g/cm ³)	2.314
Dry Density (g/cm ³)	1.108
Proctor Density (g/cm ³)	2.560
Compaction %	100.8

Moisture Ratio After Compacted Mold	
Tare No.	13
Tare WT. (gm)	87.06
Tare WT. + Wet WT. (gm)	139
Tare WT. + Dry WT. (gm)	142.8
Water WT. (gm)	6.2
Dry WT. (gm)	86.7
Moisture Content %	7.1

Swelling	
Mold No.	3
Date	12/4/2013
Initial Height (mm)	3.80
Final Height (mm)	3.12
Difference	0.68
Sample Height (mm)	128
Swelling Ratio %	8.10%

Landing Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.43	5.08	6.40
Load Reading (Kgs)	45	85	145	254	402	463	502	1012	1452
Load (KN)	0.4	0.8	1.3	2.3	3.6	4.4	5.2	9.8	13.1



Calculations :

Penetration	Load	Standard Load	CBR	Mold Compaction	Compaction	CBR
(mm)	(Ks)	(lb)	(%)	(%)	(%)	85 نسبة %
2.50	2.29	13.4	17.1%	100	95	16.3%
5.00	9.11	20.0	45.5%			43.1%

Lab. Specialist

Name :

Sign :

شركة إيجي كولتراك
التقنات السريعة

Lab. Engineer

المهندس المختبري رقم (١)

Consistent Engineer

Name :

Sign :

المهندس
الاستشاري المختبري
د. خالد قنديل



Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUHI
Section - 7 From FOKA To MARSA MATROUHI
From Station 584+000 To Station 588+177



Operating lap: Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	23-05-2023	0000	ZONE	507+000	509+000
LOCATION	K.P (507)	EGC (50)	Material	Embankment	
NAME COMPANY	EG CONTRACT		layer thickness	50 cm	

1) inspection test

2) field test

determination of bulk materials				SAMPLE WEIGHT (g)		32654.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	0.0	1456.0	2841.0	3652.0	3764.0	3569.0	2955.0		CLASS
unulative Retained (g)	0.0	1456.0	4297.0	7949.0	11733.0	15422.0	18377.0		PRO
Cumulative Retained %	0.0	4.5	13.2	24.3	35.9	47.2	56.3		WC
Cumulative Passing %	100.0	95.5	86.8	75.7	64.1	52.8	43.72		CBR

ft material gradation				WT. OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	40.00	160.00	368.00					
Cumulative Retained %	8.00	32.00	73.60					
Cumulative Passing %	92.00	68.00	26.40					

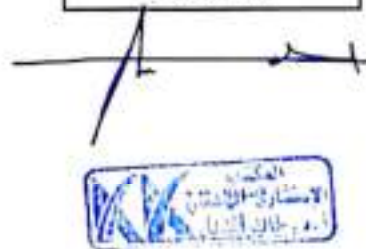
general gradient				3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(in)	2	1.5	1							
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
unulative Passing %	100.0	95.5	86.8	75.7	64.1	52.8	43.7	40.2	29.7	11.54

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

Contractor



Consultant





Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 7 From FOKA TO MARSA MATROUH
From Station 564+000 To Station 568+377



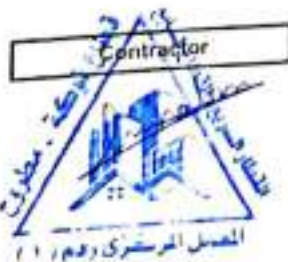
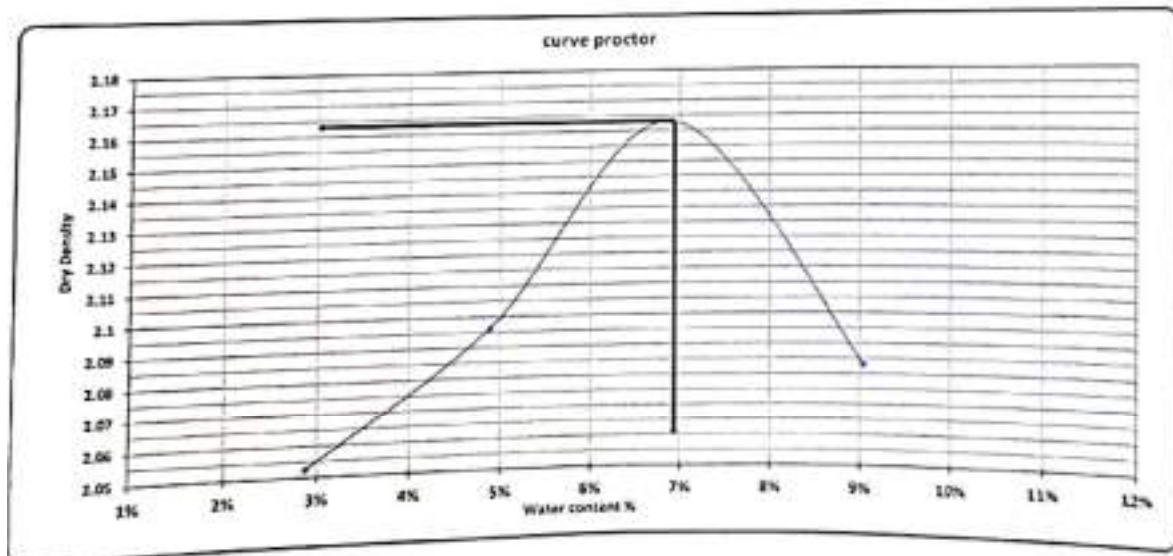
MODIFIED PROCTOR TEST ASTM D1557

TESTING DATE:	23-05-2023	code	ZONE	507+509	509+509
LOCATION	K.P (507)	EGC (58)	Material	Embankment	
NAME COMPANY	EG CONTRACT		Layer thickness	50 cm	

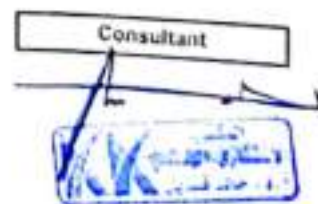
Weight of empty mold :	5620.0	MAX Dry Density	2.14
Mold Volume:	2124.0	Water content %	4.9%

trial no :	1	2	3	4	
WL Of Mold + Wet Soil	10105.0	10190.0	10113.0	10015	
WT, WET SOIL	4483.0	4670.0	4913.0	4913.0	
WL Density	2.112	2.199	2.303	2.271	

Tare No.	21	22	23	24	10	11	13	14		
Tare wt.	56.34	54.25	54.32	54.64	26.33	52.95	58.92	58.21		
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	147.30	147.40	145.50	145.60	143.91	143.71	142.60	141.9		
WL Of water	2.7	2.6	4.5	4.4	6.1	6.3	7.4	8.1		
WL Of dry soil	91.0	93.2	91.2	90.9	87.6	91.7	83.7	87.7		
Water content %	3.0%	2.8%	4.9%	4.8%	7.0%	6.9%	8.8%	9.2%		
AV Water content %	2.9%		4.9%		6.9%		9.0%			
Dry Density	2.052		2.096		2.163		2.083			



شركة إيجي كونتر اك
القطار السريع





Electric Express Train - HSR



California Bearing Ratio TEST ASTM D1883

Testing Date :	25/05/2023	Code	FROM STA :	537+000	539+000
Location :	K.P (507)	EGC(58)	Material	Embankment	
Company Name	EG CONTRACT		Layer Thickness	50 cm	

Test Results

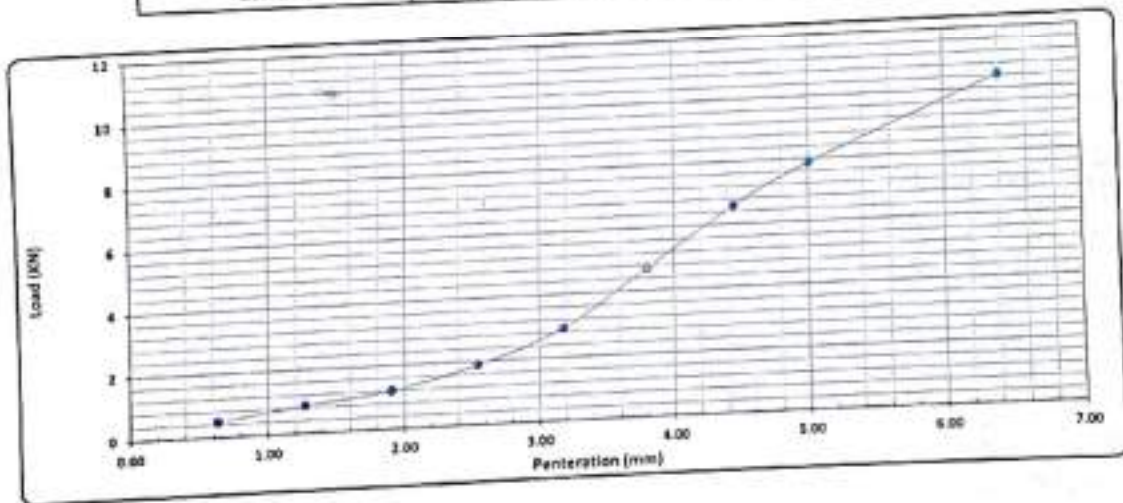
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2120
Mold WT. (gm)	5200
Mold WT. + Wet WT. (gm)	10207
Wet WT. (gm)	4997
Wet Density (g/cm ³)	2.318
Dry Density (g/cm ³)	2.161
Proctor Density (g/cm ³)	2.160
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	10
Tare WT. (gm)	37.06
Tare WT. + Wet WT. (gm)	100
Tare WT. + Dry WT. (gm)	104
Water WT. (gm)	6.9
Dry WT. (gm)	86.9
Moisture Content %	6.9

Swelling	
Mold No.	1
Date	25/05/2023
Initial Height (mm)	4.00
Final Height (mm)	4.00
Difference	0.00
Sample Height (mm)	100
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.08	6.40
Load Reading (Kg)	54	98	135	211	325	523	731	874	1190
Load (KN)	0.5	0.9	1.2	1.9	2.9	4.7	6.6	7.9	10.4



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(Tn)	(%)	(%)	(%)	% على نسبة 99
2.50	1.89	13.4	14.2%	100	92	13.4%
5.00	7.87	20.0	39.3%			37.3%

Lab. Specialist

Name :

Sign :

شركة إيجي كونترات
القسطار السريع

Lab. Engineer

Name :

Sign :

المسار المركزي رقم (١)

Consulting Engineer

Name :

Sign :

المستشار
الإستشاري الهندسي
2-1 - جازال قنطرة



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 509+177



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE	22/5/2023	code	EGC(59)	ZONE	507+000	509+000
location	K.P508+700					
NAME COMPANY	Egy Contrac					
1-visual inspection test	operate by	Gomaa Bader Lab				

2-Gradient test

A-gradation of bulk materials

sieve size	2	1.5	1	4/3	2/1	8/3	# 4	gm	table classify soil classify A-1-a PRO WC CBR
Mass retained (g)	0.0	1508.0	2572.0	2010.0	2316.0	2260.0	3092.0	PASS	
Cumulative Retained (g)	0.0	1508.0	4080.0	6090.0	8406.0	10666.0	13758.0		
Cumulative Retained %	0.0	6.6	17.9	26.8	36.9	46.9	60.4		
Cumulative Passing %	100.0	93.4	82.1	73.2	63.1	53.1	39.6		2.148 6.5% 58.8%

B-soft material gradation

sieve size	10	40	200	WT.OF sample	500.00	gm
Cumulative Retained (g)	132.61	243.61	376.60			
Cumulative Retained %	26.52	48.72	75.30			
Cumulative Passing %	73.48	51.28	24.70			

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	93.4	82.1	73.2	63.1	53.1	39.6	29.1	20.3	9.8

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

Contractor

Consultant

مشاريع النقل السريع
مشاريع السكك الحديدية
مشاريع الطرق
(رقم 6)

شركة إيجي كونتراتك
النقل السريع

مشاريع النقل السريع
مشاريع السكك الحديدية
مشاريع الطرق
(رقم 6)

 	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 509+177		

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE	22/5/2023	code	ZONE	507+000	509+000
location	K.P508+700	EGC(59)			
NAME COMPANY	Egy Contrac				
1-visual inspection test	operate by	Goman Bader Lab			

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		22760.00		gm	<table><tr><td>table classify</td></tr><tr><td>soil classify</td></tr><tr><td>A-1-a</td></tr><tr><td>2.143</td></tr><tr><td>6.5%</td></tr><tr><td>58.8%</td></tr></table>	table classify	soil classify	A-1-a	2.143	6.5%	58.8%
table classify															
soil classify															
A-1-a															
2.143															
6.5%															
58.8%															
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS							
Mass retained (g)	0.0	1508.0	2572.0	2010.0	2316.0	2260.0	3092.0								
Cumulative Retained (g)	0.0	1508.0	4080.0	6090.0	8406.0	10666.0	13758.0								
Cumulative Retained %	0.0	6.6	17.9	26.8	36.9	46.9	60.4								
Cumulative Passing %	100.0	93.4	82.1	73.2	63.1	53.1	39.6								
B-soft material gradation				WX OF sample					PRO						
									WC						
									CBR						

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	132.61	243.61	376.50					
Cumulative Retained %	26.52	48.72	75.30					
Cumulative Passing %	73.48	51.28	24.70					

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	93.4	82.1	73.2	63.1	53.1	39.6	29.1	20.3	9.8

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

Contractor

Consultant

مشروع القطار السريع
التحضير المسبق
مستشار المشروع
(رقم 6)

شركة إي جي كولتراك
القطار السريع

مستشار المشروع
م. خالد قنديل

Electric Express Train - HSR

California Bearing Ratio TEST

TESTING DATE	25/5/2023	CODE			
Location	K.P508+700	EOC-59	ZONE	507+000	509+000
NAME COMPANY	Egy Contract	operate by	Geotex Super Lab		

Test Results

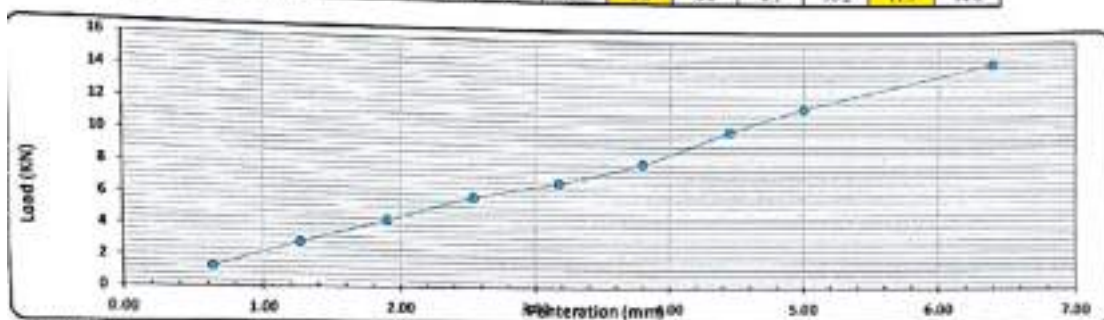
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2177.6
Mold WT. (gm)	16853
Mold WT. + Wet WT. (gm)	21480
Wet WT. (gm)	4627
Wet Density (g/cm ³)	2.254
Dry Density (g/cm ³)	2.131
Proctor Density (g/cm ³)	2.148
Compaction %	99

Moisture Ratio After Compacted Mold	
Tare No.	18
Tare WT. (gm)	14.81
Tare WT. + Wet WT. (gm)	167.11
Tare WT. + Dry WT. (gm)	158.9
Wt. of water	8.2
Dry WT. (gm)	150.7
Moisture Content %	5.3

Swelling	
Mold No.	1
Date	24/5
Initial Height (mm)	6.81
Final Height (mm)	6.85
Difference	0
Sample Height (mm)	181.00
Swelling Ratio %	0%

Loading Reading:

Penetration	0.64	1.27	1.91	2.54	3.18	3.80	4.43	5.00	6.40
Load Reading (kg)	131.00	293.00	442.00	594.00	655.00	824.00	1080.00	1381.00	1890.00
Load (KN)	1.3	2.9	4.3	5.8	6.5	8.1	10.2	11.3	14.6



Calculations:-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % (100 lb) (lb)
2.50	5.82	13.4	43.6%	99	100	44.0%
5.00	11.67	26.8	55.1%			58.8%

Lab. Specialist

Name:

Hussain

Consulting Engineer

Name:

Sign:

مشاريع القطار السريع
القضايا المساحية
مكتب المساحة
(رقم 6)

شركة إيجي كونتراك
المساحة السريعة

المساحة السريعة
مكتب المساحة
(رقم 6)



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 566+177



Rating Lab: Negda Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

Location of Materials: Embankment

Testing Date	18-05-23	code	Zone	From Station	TO Station	
Location	506+300	EGC-60		506+000		509+000
Company Name	EG CONTRACT COMPANY					

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials								table classify	
SAMPLE WEIGHT [g]								soil classify	
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	A-1-a
Mass retained (g)	3512.0	3546.0	5272.0	3140.0	3900.0	2030.0	4183.0		
Cumulative Retained (g)	3512.0	7058.0	12330.0	15470.0	19370.0	21400.0	25583.0	PRO	2.115
Cumulative Retained %	9.2	18.5	32.3	40.5	50.7	56.0	67.0	WC	8.1
Cumulative Passing %	90.8	81.5	67.7	59.5	49.3	44.0	33.0	CBR	62.33%
								Corr. PROCTOR	2.20
								Corr. O.M.C	7.60

B-soft material gradation				WT. OF sample		500.00		gm	
sieve size	10	40	200						
Cumulative Retained (g)	61.00	173.00	321.00						
Cumulative Retained %	12.20	34.60	64.20						
Cumulative Passing %	87.80	65.40	35.80						

C-General gradient

sieve size(n)	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 %	90.8	81.5	67.7	59.5	49.3	44.0	33.0	29.0	21.6	11.8

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

Contractor
المعمل المركزي
المطار السريع - المطار

شركة إيجي كونتراك
المطار السريع

المستشار
الاستشارية
المطار السريع



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 565+177



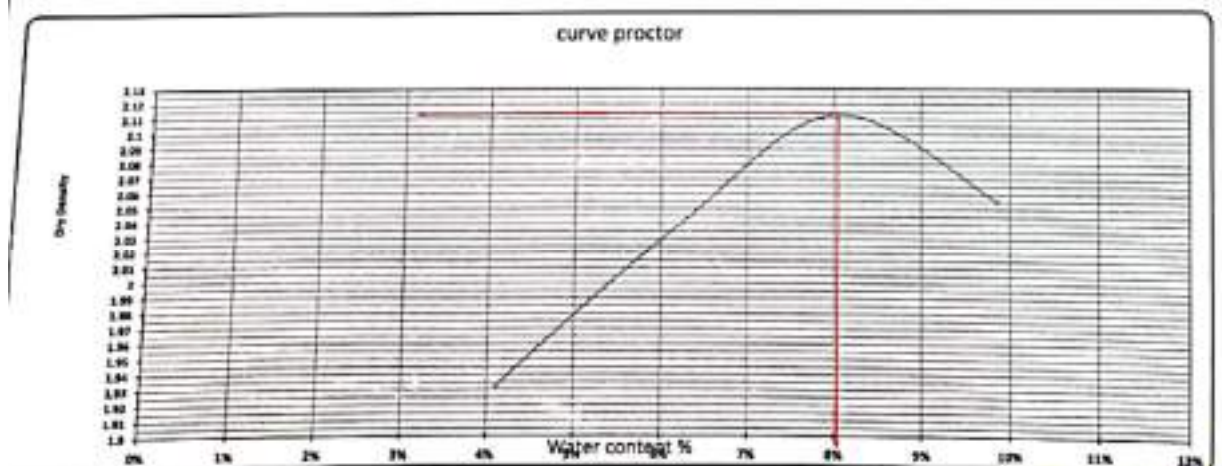
PROCTOR TEST

Testing Date	18-05-23	code	Zone	From Station	To Station
Location	508+300	EGC-60		508+000	509+000
EG CONTRACT COMPANY	EG CONTRACT COMPANY				

Weight of empty mold	5698.0	MAX Dry Density	2.115
Mold Volume	2127.0	Water content %	8.1

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	9979.0	10310.0	10554.0	10502	
WT. WET SOIL	4281.0	4612.0	4856.0	4804.0	
Wt. Density	2.013	2.168	2.283	2.259	

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	155.10	155.25	152.77	152.69	150.77	150.75	148.81	148.93		
Wt. Of water	4.9	4.8	7.2	7.3	9.2	9.3	11.2	11.1		
Wt. Of dry soil	118.8	116.4	116.8	116.4	115.4	115.0	112.6	113.6		
Water content %	4.12%	4.08%	6.19%	6.28%	8.00%	8.05%	9.94%	9.75%		
AV. Water content %	4.10%	6.24%	8.02%	9.84%						
Dry Density	1.933	2.041	2.113	2.056						



Contractor
Mohamed Hamed
المهندس محمد حامد
القطار السريع - القطاع السابع

شركة إيجي كونتراكت
القطار السريع

Consultant
الاستشاري
2023/05/18



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 509+177



PROCTOR TEST

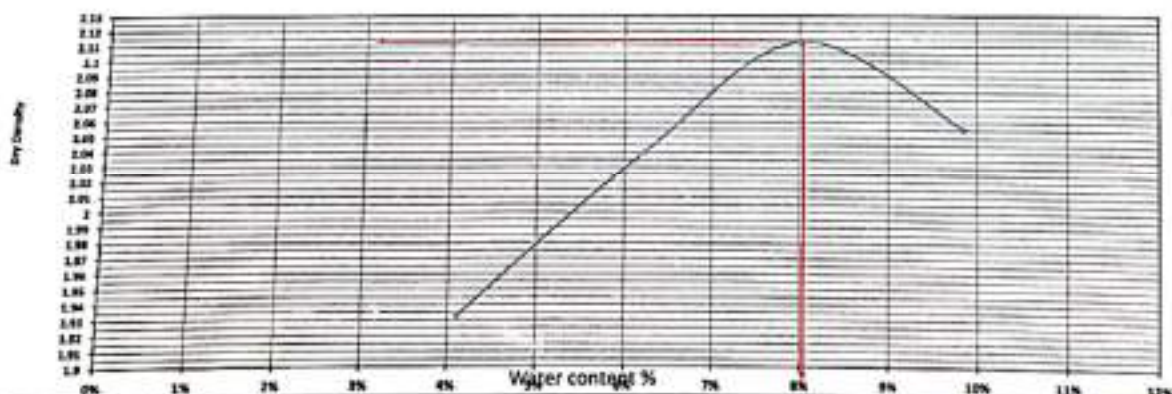
Testing Date	18-05-23	code	Zone	From Station	To Station
Location	508+300	EGC-60		508+000	509+000
CONTRACT COMPANY	EG CONTRACT COMPANY				

Weight of empty mold	5698.0	MAX Dry Density	2.115
Mold Volume	2127.0	Water content %	8.1

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	9979.0	10310.0	10554.0	10502	
WT. WET SOIL	4281.0	4612.0	4856.0	4804.0	
Wt. Density	2.013	2.168	2.283	2.259	

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	155.10	155.25	152.77	152.69	150.77	150.75	148.81	148.93		
Wt. Of water	4.9	4.8	7.2	7.3	9.2	9.3	11.2	11.1		
Wt. Of dry soil	118.8	116.4	116.8	116.4	115.4	115.0	112.6	113.6		
Water content %	4.12%	4.08%	6.19%	6.28%	8.00%	8.05%	9.94%	9.75%		
AV. Water content %	4.10%		6.24%		8.02%		9.84%			
Dry Density	1.933		2.041		2.113		2.056			

curve proctor



Contractor

ahamed Hamed
المهندس احمد حمدي
القطار السريع - القطاع 7

Consultant

شركة ايجي كونترات
القطار السريع

Electric Express Train - HSR



California Bearing Ratio TEST

Test Date	20-5-2023	code	Zone	From Station	To station
Location	508+300	EOC-60		508+000	
Company Name	EG CONTRACT COMPANY				

Results:

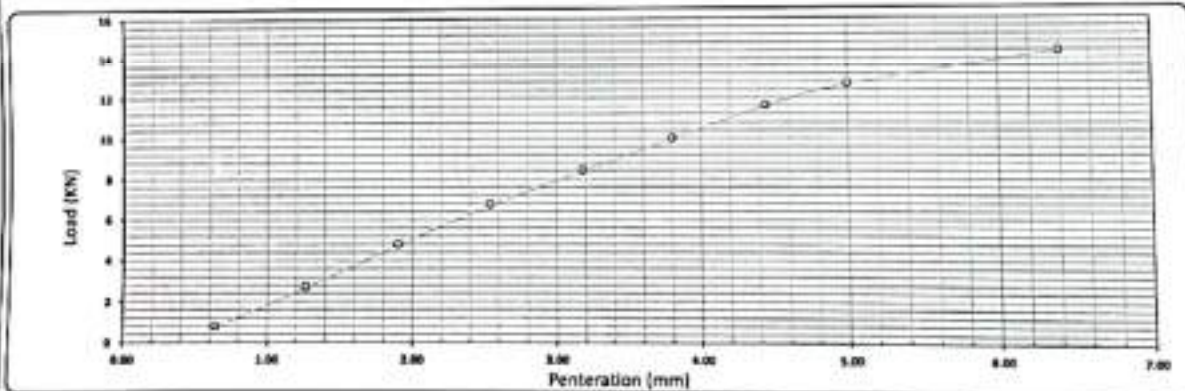
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2170
Mold WT. (gm)	7700
Mold WT. + Wet WT. (gm)	12650
Wet WT. (gm)	4950
Wet Density (g/cm ³)	2.281
Dry Density (g/cm ³)	2.112
Proctor Density (g/cm ³)	2.115
Compaction %	100

Moisture Ratio After Compacted Mold	
Tare No.	4
Tare WT. (gm)	36.28
Tare WT. + Wet WT. (gm)	161.63
Tare WT. + Dry WT. (gm)	152.35
Water WT. (gm)	9.3
Dry WT. (gm)	116.1
Moisture Content %	8.00

Swelling	
Mold No.	1
Date	20-5-2023
Initial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0.00
Sample Height (mm)	116.40
Swelling Ratio %	0%

Loading Reading:

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (kg)	81	278	490	688	860	1021	1185	1298	1466
Load (KN)	0.8	2.7	4.9	6.7	8.4	10.0	11.6	12.7	14.4



Calculations :-

Penetration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	6.74	13.4	50.3%	100	98	49.6%
5.00	12.72	20.0	63.5%			62.3%

Lab. Specialist

Name:

Sign:

شركة إي جي كونتراك
القطار السريع

Lab. Engineer

Name: Mohamed Hamed

Sign:

المعمل المركزي رقم ٢
القطار السريع - القطاع السابع

Consultant Engineer

Name:

Sign:

شركة
م. خالد الشاذلي
20-5-2023



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



Operating lap

Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE	25-05-2023	code	ZONE	507+000	509+000
LOCATION	K.P (507)	EOC (61)	Material	fill material	
NAME COMPANY	EG CONTRACT		quantity	5000 m3	

visual inspection test

Gradient test

gradation of bulk materials								table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	soil classify
Mass retained (g)	0.0	1120.0	2500.0	3440.0	3890.0	4700.0	8090.0	CLASS
Cumulative Retained (g)	0.0	1120.0	3620.0	7060.0	10950.0	15650.0	23740.0	PRO
Cumulative Retained %	0.0	2.7	8.7	17.0	26.4	37.7	57.1	WC
Cumulative Passing %	100.0	97.3	91.3	83.0	73.6	62.3	42.9	CBR

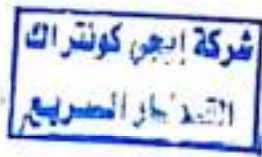
soft material gradation				WT.OF sample	500.00	gm
sieve size	10	40	200			
Cumulative Retained (g)	40.00	140.00	330.00			
Cumulative Retained %	8.00	28.00	66.00			
Cumulative Passing %	92.00	72.00	34.00			

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	97.3	91.3	83.0	73.6	62.3	42.9	39.4	30.9	14.57

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

Contractor

Consultant





California Bearing Ratio TEST ASTM D1883

Testing Date :	27-05-2023	Code	FROM STA :	507+000	509+000
Location :	K.P (507)	EGC(61)	Material	fill material	
Contract Name :	EG CONTRACT		quantity	5000 m3	

Test Results

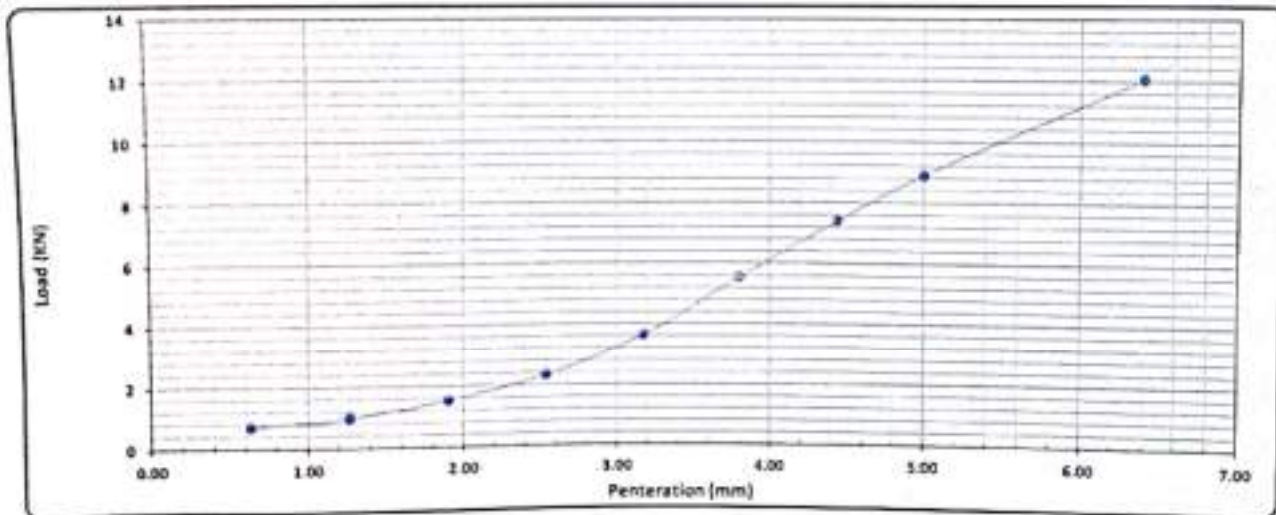
Compaction % for Mold	
Mold No.	3
Mold Vol. (cm ³)	2160
Mold WT. (gm)	4820
Mold WT. + Wet WT. (gm)	9600
Wet WT. (gm)	4780
Wet Density (g/cm ³)	2.306
Dry Density (g/cm ³)	2.151
Proctor Density (g/cm ³)	2.150
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	3
Tare WT. (gm)	56.3
Tare WT. + Wet WT. (gm)	130
Tare WT. + Dry WT. (gm)	143.7
Water WT. (gm)	6.3
Dry WT. (gm)	87.4
Moisture Content %	7.2

Swelling	
Mold No.	3
Date	24-05-2023
Initial Height (mm)	6.00
Final Height (mm)	6.00
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00 %

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.43	5.00	6.40
Load Reading (Kg)	80	110	170	260	405	617	824	990	1340
Load (KN)	0.7	1.0	1.5	2.3	3.6	5.6	7.4	8.9	12.1



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % على نسبة 95
2.50	2.34	13.4	17.5%	100	95	16.6%
5.00	8.91	20.0	44.5%			42.3%

Lab. Specialist

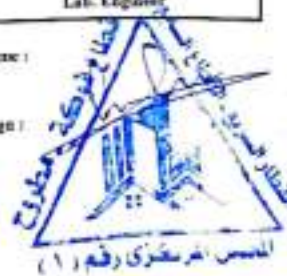
Name :

Sign :

Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :



شركة إي جي كونتراك
القطار السريع

الإستشاري الهندسي

PROCTOR TEST

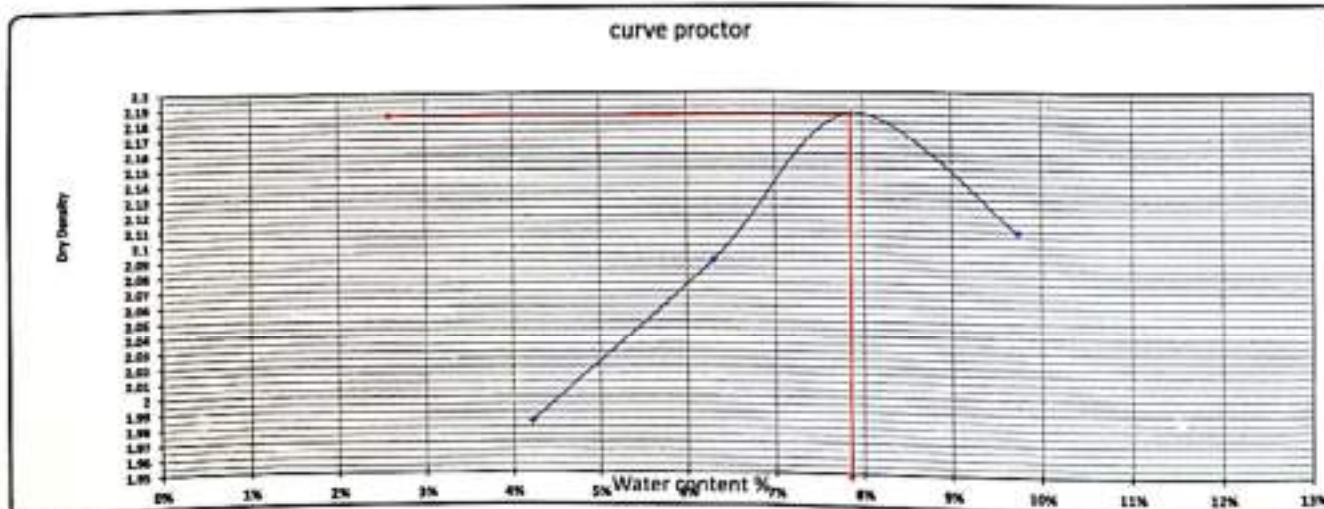
Testing Date	25-05-23	code	Zone	From Station	To Station
Location	508+300	EGC-62		507+000	509+000
Company Name	EG CONTRACT COMPANY				

Weight of empty mold	5698.0	MAX Dry Density	2.186
Mold Volume	2127.0	Water content %	7.8

trial no :	1	2	3	4
Wt. Of Mold+ wet soil	10095.0	10424.0	10714.0	10620
WT. WET SOIL	4397.0	4726.0	5016.0	4922.0
Wt. Density	2.067	2.222	2.358	2.314

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	154.75	154.60	152.22	152.02	150.23	150.39	148.93	149.02
Wt. Of water	5.3	5.4	7.8	8.0	9.8	9.6	11.1	11.0
Wt. Of dry soil	125.7	127.8	124.2	126.2	123.5	122.8	113.5	113.3
Water content %	4.18%	4.23%	6.27%	6.33%	7.91%	7.83%	9.76%	9.69%
AV. Water content %	4.20%	6.30%	7.87%	9.73%				
Dry Density	1.984	2.090	2.186	2.109				

curve proctor



Contractor







California Bearing Ratio TEST

Testing Date	27-5-2023	code	Zone	From Station	To station
Location	508+300	EGC-62		507+000	509+000
Company Name	EG CONTRACT COMPANY				

Test Results:

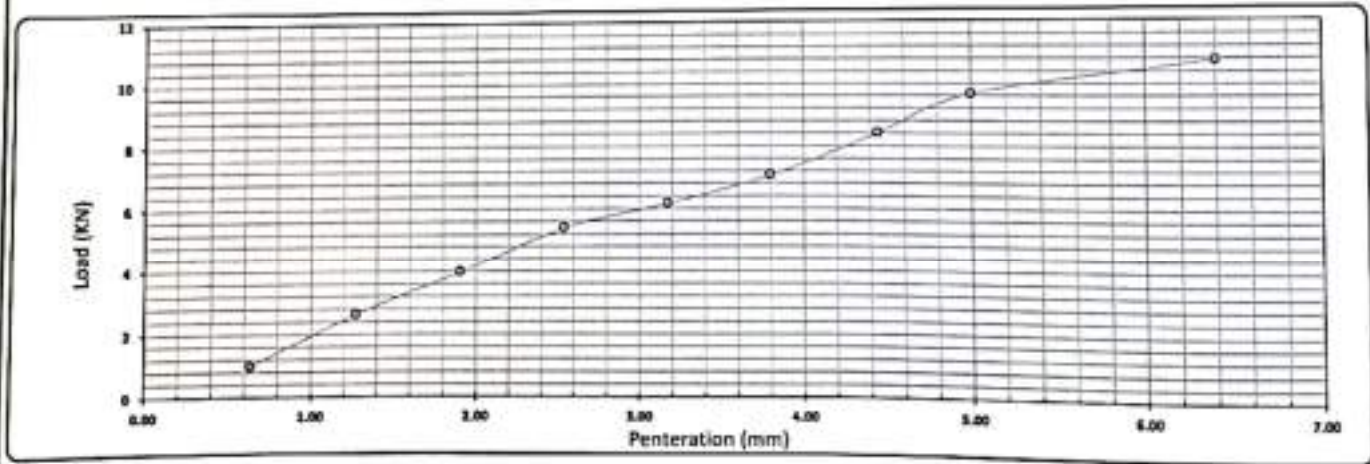
Compaction % for Mold	
Mold No.	3
Mold Vol. (cm ³)	2103
Mold WT. (gm)	7099
Mold WT. + Wet WT. (gm)	11945
Wet WT. (gm)	4846
Wet Density (g/cm ³)	2.304
Dry Density (g/cm ³)	2.139
Proctor Density (g/cm ³)	2.186
Compaction %	98

Moisture Ratio After Compacted Mold	
Tare No.	1
Tare WT. (gm)	29.06
Tare WT. + Wet WT. (gm)	228.4
Tare WT. + Dry WT. (gm)	214.08
Water WT. (gm)	14.3
Dry WT. (gm)	185.0
Moisture Content %	7.7

Swelling	
Mold No.	3
Date	27-5-2023
Initial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0.00
Sample Height (mm)	116.40
Swelling Ratio %	0%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (kg)	103	269	406	552	630	722	860	987	1098
Load (KN)	1.0	2.6	4.0	5.4	6.2	7.3	8.4	9.7	10.8



Calculations :-

Penetration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	5.41	13.4	40.5%	98	98	40.6%
5.00	9.67	20.0	48.3%			48.4%

Lab. Specialist

Name :

Sign :

شركة ايجي كونتراتك
القطار السريع

Lab. Engineer

Name :  Hamel

Sign : 

Consultant Engineer

Name : 

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



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	508+300	EGC-63		507+000		509+000
Company Name	EG CONTRACK COMPANY					

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials				SAMPLE WEIGHT [g]		23809.00	gm	table classify	
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	soil classify
Mass retained (g)	453.0	1694.0	2104.0	2114.0	2889.0	2678.0	3618.0		A-1-a
Cumulative Retained (g)	453.0	2147.0	4251.0	6365.0	9254.0	11932.0	15550.0	PRO	2.175
Cumulative Retained %	1.9	9.0	17.9	26.7	38.9	50.1	65.3	WC	7.7
Cumulative Passing %	98.1	91.0	82.1	73.3	61.1	49.9	34.7	CBR	57.1%

B-soft material gradation				WT.OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	59.00	224.00	381.00				
Cumulative Retained %	11.80	44.80	76.20				
Cumulative Passing %	88.20	55.20	23.80				

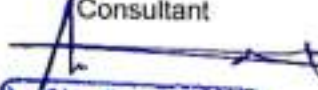
C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	98.1	91.0	82.1	73.3	61.1	49.9	34.7	30.6	19.1	8.3

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

Contractor

المهندس محمد حميد
القطار السريع - القطاء الساه

شركة إيجي كونتراك
القطار السريع

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 568+177



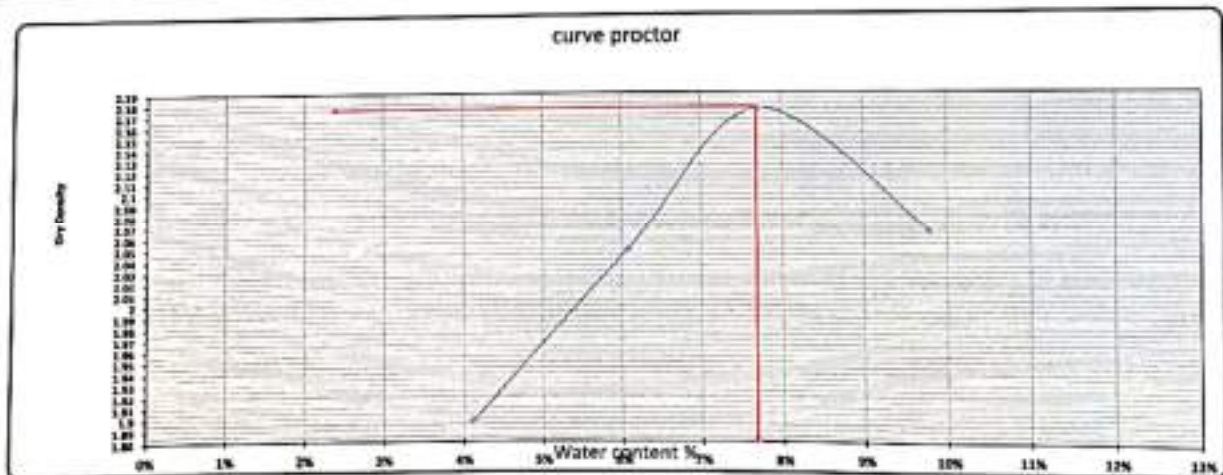
PROCTOR TEST

Testing Date	27-05-23	code	Zone	From Station	To Station
Location	508+300	EGC-63		507+000	509+000
Company Name	EG CONTRACT COMPANY				

Weight of empty mold	5807.0	MAX Dry Density	2.175
Mold Volume	2129.0	Water content %	7.7

trial no :	1	2	3	4
Wt. Of Mold+ wet soil	10010.0	10435.0	10794.0	10635
WT. WET SOIL	4203.0	4628.0	4987.0	4828.0
Wt. Density	1.974	2.174	2.342	2.268

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	154.88	154.69	152.39	152.35	150.44	150.51	148.90	148.88
Wt. Of water	5.1	5.3	7.6	7.7	9.6	9.5	11.1	11.1
Wt. Of dry soil	125.8	127.8	124.3	126.5	123.7	122.9	113.4	113.1
Water content %	4.07%	4.15%	6.12%	6.05%	7.73%	7.72%	9.79%	9.83%
AV. Water content %	4.11%	6.08%	7.73%	9.81%				
Dry Density	1.896	2.049	2.174	2.065				



Contractor
المهندس محمد هاشم
القطار السريع - القطاع السابع

شركة إي جي كونتراك
القطار السريع

Consultant
المهندس محمد هاشم
القطار السريع - القطاع السابع

California Bearing Ratio TEST

Testing Date	28-5-2023	code	Zone	From Station	507+000	To station
Location	508+300	EOC-63				509+000
Company Name	EG CONTRACT COMPANY					

Test Results:

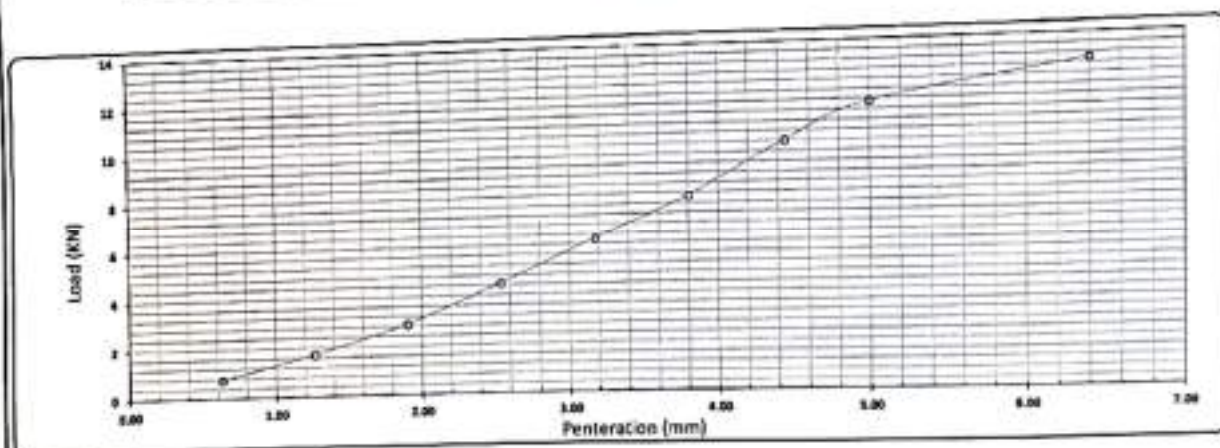
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2170
Mold WT. (gm)	7700
Mold WT. + Wet WT. (gm)	12699
Wet WT. (gm)	4999
Wet Density (g/cm ³)	2.304
Dry Density (g/cm ³)	2.141
Proctor Density (g/cm ³)	2.175
Compaction %	98

Moisture Ratio After Compacted Mold	
Tare No.	1
Tare WT. (gm)	35.48
Tare WT. + Wet WT. (gm)	155.6
Tare WT. + Dry WT. (gm)	147.12
Water WT. (gm)	8.5
Dry WT. (gm)	111.6
Moisture Content %	7.6

Swelling	
Mold No.	1
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 :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.09	6.40
Load Reading (kg)	74	174	293	455	632	803	1021	1173	1325
Load (KN)	0.7	1.7	2.9	4.5	6.2	7.9	10.0	11.5	13.0



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	4.46	13.4	33.4%	98	98	33.3%
5.00	11.50	20.0	57.4%			57.1%

Lab. Specialist

Name :

Sign :

شركة ايجي كونتراك
 القطار السريع

Lab. Engineer

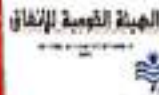
Name : Mohamed Hamed
 Sign :

Consolid Engineer

Name :

Sign :

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company		Designer Company																	
Electric Express Train	EG CONTRACT		k.k																	
Issued by Contractor	Name	Sign	Date	Time																
	ENG/ MOHAMED MASRY		29-05-2023																	
Contractor Reference	EGC (64) 29-05-2023																			
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>k.p (508)</td> <td>EW</td> <td>CS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	k.p (508)	EW	CS						
C1	C2	C3	DD	MM	YY	HH	MM													
k.p (508)	EW	CS																		

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 (507-509)	
Item	Specification	Test requirement	Test result attachment
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	12.50 %
4	ASTM D 4318	Atterberg limit	N.P
5	ASTM D 2974	Moisture content	7.60 %
6	ASTM D 1557	Modified proctor	2.197
7	ASTM D 1883	CBR	64.30 %
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor			29-05-2023	A
Contractor QA/QC *	Ahmed Abu Zaid		29-05-2023	A
GARB**	Hussien Fouad		29-05-2023	A
Employers Representative				

* Designer
** Alignment/Bridges: Culvert only

Contractor Company	EG CONTRACT			Designer Company	K.K			
Issued by Contractor	Name	شركة ايجي كونترال المهندس السريبر			Date	29/5/2023		
	Eng/ MOHAMED MASRY				Time			
Contractor reference	EGC (64) 29/5/2023							
Received by ER			MIR					

C1	C2	C3	DD	MM	YY	HH	MM
k.p (508)	EW	CS					

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	MIDDLE EMBANKMENT FILL MATERIAL RESULTS				
Location to be Used	508+705	508+800	(-4.00)		
	508+800	508+990	(-3.00)		
MAR Approval No				Date	
Supplier Name					
Test Requirement			Specification	Clause	
Reference Photos	Yes attached / No		Other		

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sieve analysis	M3	5000	27/5/2023	
2	Classification	M3	5000	27/5/2023	
3	Proctor & O.m.c	M3	5000	27/5/2023	
4	L.L & P.L & PI	M3	5000	27/5/2023	
5	C.B.R	M3	5000	29/5/2023	

Comments by:

Comments by:

The Test Result For Estimated Quantities is about (5000) m³

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor			29/5/2023	A
QA/QC *	Ahmed Abo Zaid		29/5/2023	A
GARB**	Hussien Fouad		29/5/2023	A
Employers Representative				

* Designer
 ** Alignment / Bridges: Culvert Only

Operating Lab: Negida Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

Description of Materials	Embankment	code	Zone	From Station	TO Station
Testing Date	27-05-23	EGC-64		507+000	509+000
Location	508+300				
Company Name	EG CONTRACT COMPANY				

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials				SAMPLE WEIGHT [g]		17542.00		gm	table classify	
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	soil classify	
Mass retained (g)	0.0	1882.0	1743.0	1453.0	2620.0	2587.0	1945.0		A-1-a	
Cumulative Retained (g)	0.0	1882.0	3625.0	5078.0	7698.0	10285.0	12230.0		PRO	2.197
Cumulative Retained %	0.0	10.7	20.7	28.9	43.9	58.6	69.7		WC	7.6
Cumulative Passing %	100.0	89.3	79.3	71.1	56.1	41.4	30.3		CBR	64.3%

B-soft material gradation			WT.OF sample		500.00	gm
sieve size	10	40	200			
Cumulative Retained (g)	58.00	152.00	293.00			
Cumulative Retained %	11.60	30.40	58.60			
Cumulative Passing %	88.40	69.60	41.40			

C-General gradient

sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	89.3	79.3	71.1	56.1	41.4	30.3	26.8	21.1	12.5

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

Contractor

Consultant

Mahamed Hamed
المهندس محمد حمدي
القطار السريع - القطاع السابع

شركة إيجي كونتراك
القطار السريع

الاستشارات الهندسية
أ.د. خالد قنديل



قائمة الكميات الواردة بالمستخلص جاري (2)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم 507+000 الى الكم 509+000 بطول 2 كيلو متر اتجاه سيدى برانى

رقم البند و بيانه : (1-3) أعمال توريد و تشغيل اترية صالحة للردم مطابقة للمواصفات

تنفيذ : شركة ايجي كونترالك - زكريا جابر قلندس رشيد

مقدار العمل السابق : 0.0 م 3

الكمية	الابعاد (متر)		المواقع الكيلومترى		بيان الاعمال بالمقايسة
	مساحة المقطع	طول	الى	من	
4140.990	7.140	580	507+580	507+000	القطاع الأول
12944.290	22.318	580	508+440	507+850	القطاع الثاني
19975.778	35.671	560	509+000	508+440	القطاع الثالث
37061.058	اجمالي الكميات خلال فترة المستخلص الحالية (م ³)				
37061.058	الاجمالي الكلي (م ³)				

مهندس الهيئة العامة
للطرق والمواصلات
م / إبراهيم الحلوي

مهندس الاستشاري
مكتب د/خالد فتنديل
م / خالد فوزي

مهندس الاستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / ابراهيم صلاح

المهندس

المهندس

المهندس



قائمة كميات بالمستخلص جاري (2)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم 507+000 الى الكم 509+000 بطول 2 كيلو متر اتجاه سيدي براني

رقم البند و بيانه : (3-1) علاوة مسافة النقل 285.5 كم

علاوة مسافة النقل

تسليم : شركة اي جي كونتراك - زكريا جابر قلدي رشيد

3م

0

مقدار العمل السابق :

الكمية	بيان بالكميات
37061.058	الكمية طبقاً لقوائم الكميات
37061.058	اجمالي الكميات خلال فترة المستخلص الحالية (3م)
37061.058	الاجمالي الكلي (م ³)

مهندس الهيئة العامة
للطرق والجسور
م / إبراهيم العناني

مهندس الاستشاري
مكتب د/خالد قنديل
م / خالد فوزي
الحمد لولاس

مهندس الاستشاري (xyz)
م / محمد خليل
محمد خليل

مهندس الشركة
م / ابراهيم صلاح
ابراهيم صلاح

المنطقة الخامسة - (غرب الدلتا)

السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة.. وبعد،،

بالإحالة إلى مشروع القطر الكهربائي فائق السرعة (فوكة - مطروح) (القطاع السابع)
نفتشرف بأن نرفق لسيادتكم طيه المقاييس المعدله للقطاعات الآتية:

مسلسل	اسم الشركة	بداية القطاع (كم)	نهاية القطاع (كم)	اتجاه
١	شركة ايجى كونتراك (لصاحبها زكريا جابر قلندس)	٥٠٧+٠٠٠	٥٠٩+٠٠٠	سيدي برانى

برجاء من سيادتكم التفضل بالأحاطه والتوجيه بالازم

وتفضلوا بقبول فائق الاحترام والتقدير،،

رئيس الإدارة المركزية

المنطقة الخامسة - غرب الدلتا

٢٠٢٤
٧١٤٨
"هاني محمد محمود طه"

عميد مهندس/



