



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	30-05-23	code		From Station		TO Station
Location	K.P 522+300					
Company Name	ALARCAN 2	ARC2-13	Zone	522+000		522+500

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials			SAMPLE WEIGHT [g]			13105.00		gm	table classify	
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	soil classify	
Mass retained (g)	0.0	470.0	4093.0	878.0	1006.0	442.0	835.0		A-1-a	
Cumulative Retained (g)	0.0	470.0	4563.0	5441.0	6447.0	6889.0	7724.0		PRO	2.123
Cumulative Retained %	0.0	3.6	34.8	41.5	49.2	52.6	58.9		WC	7.8
Cumulative Passing %	100.0	96.4	65.2	58.5	50.8	47.4	41.1		CBR	61.9%
									corr.pro.	2.17%
									corr.O.M.C	7.50%

B-soft material gradation			WT.OF sample		500.00	gm
sieve size	10	40	200			
Cumulative Retained (g)	43.00	196.00	376.00			
Cumulative Retained %	8.60	39.20	75.20			
Cumulative Passing %	91.40	60.80	24.80			

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 %	100.0	96.4	65.2	58.5	50.8	47.4	41.1	37.5	25.0	10.2

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

Contractor

Consultant
mohamed elsaied

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

m. elsaied
3-6-2023

California Bearing Ratio TEST

Testing Date	1-6-2023	code	Zone	From Station		To station
Location	K.P 522+300	ARC2-13		522+000		522+500
Company Name	ALARCAN 2					

Test Results:

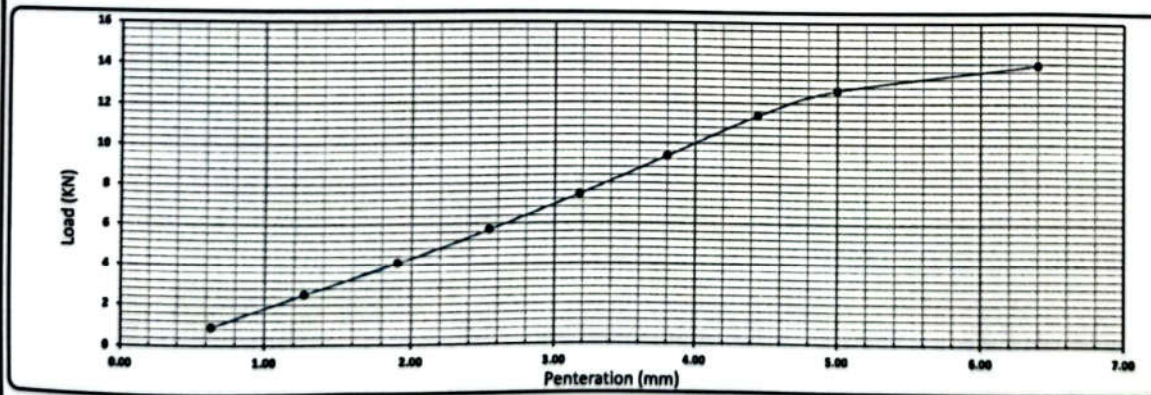
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2170
Mold WT. (gm)	7700
Mold WT. + Wet WT. (gm)	12650
Wet WT. (gm)	4950
Wet Density (g/cm ³)	2.281
Dry Density (g/cm ³)	2.120
Proctor Density (g/cm ³)	2.123
Compaction %	100

Moisture Ratio After Compacted Mold	
Tare No.	8
Tare WT. (gm)	36.26
Tare WT. + Wet WT. (gm)	143.58
Tare WT. + Dry WT. (gm)	136.02
Water WT. (gm)	7.6
Dry WT. (gm)	99.8
Moisture Content %	7.58

Swelling	
Mold No.	1
Date	1-6-2023
Initial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0.00
Sample Height (mm)	116.40
Swelling Ratio %	0%

Loading Reading :

Pentration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (kg)	91	255	415	583	760	955	1162	1290	1421
Load (KN)	0.9	2.5	4.1	5.7	7.4	9.4	11.4	12.6	13.9



Calculations :-

Pentration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	معدل نسبة 98
2.50	5.71	13.4	42.8%	100	98	42.0%
5.00	12.64	20.0	63.1%			61.9%

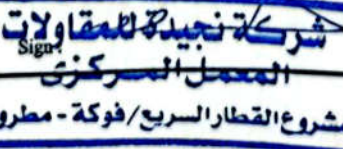
Lab. Specialist

Name :

Sign :

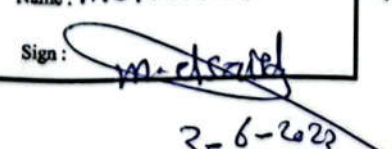
Lab. Engineer

Name :



Consultant Engineer

Name :



3-6-2023



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



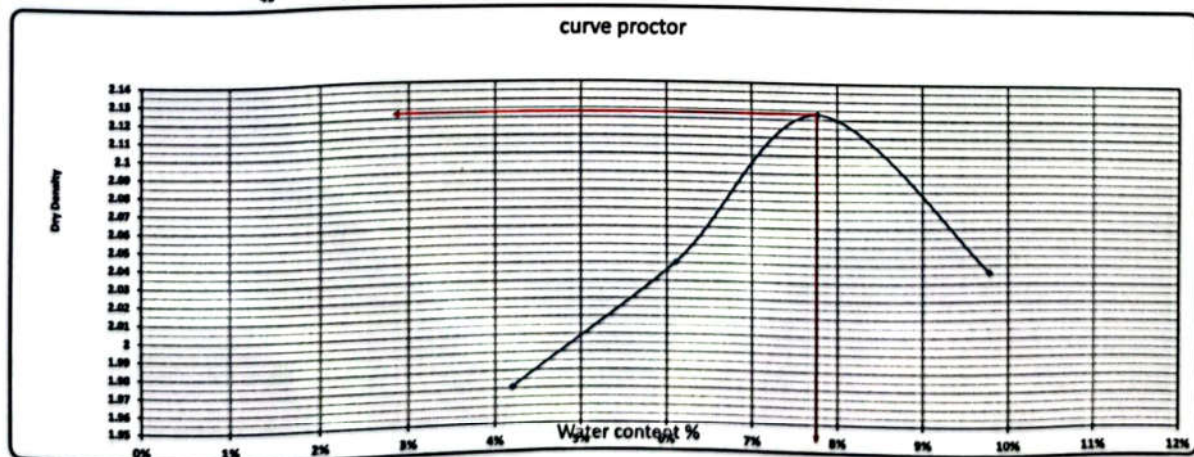
PROCTOR TEST

Testing Date	31-05-23	code	Zone	From Station	To Station
Location	K.P 522+300	ARC2-13		522+000	522+500
ALARCAN 2	ALARCAN 2				

Weight of empty mold	5698.0	MAX Dry Density	2.123
Mold Volume	2127.0	Water content %	7.8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10066.0	10303.0	10564.0	10452	
WT. WET SOIL	4368.0	4605.0	4866.0	4754.0	
Wt. Density	2.054	2.165	2.288	2.235	

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	155.02	155.11	152.93	152.82	150.93	151.13	148.99	148.88		
Wt. Of water	5.0	4.9	7.1	7.2	9.1	8.9	11.0	11.1		
Wt. Of dry soil	118.8	116.3	116.9	116.5	115.6	115.3	112.7	113.5		
Water content %	4.19%	4.21%	6.05%	6.16%	7.85%	7.69%	9.77%	9.79%		
AV. Water content %	4.20%	6.10%	7.77%	9.78%						
Dry Density	1.971	2.040	2.123	2.036						



Contractor

Consultant

mohamed elsaied

m-elsaied

3-6-2023

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

California Bearing Ratio TEST

Testing Date	3-6-2023	code	Zone	From Station	To station
Location	K.P 522+300	ARC2-14		522+000	522+500
Company Name	ALARCAN 2				

Test Results:

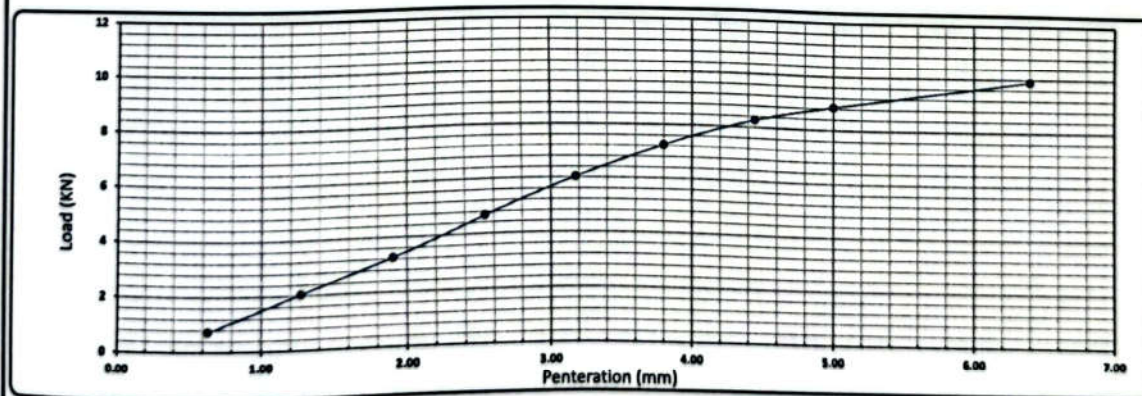
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2134
Mold WT. (gm)	8227
Mold WT. + Wet WT. (gm)	13077
Wet WT. (gm)	4850
Wet Density (g/cm ³)	2.273
Dry Density (g/cm ³)	2.107
Proctor Density (g/cm ³)	2.175
Compaction %	97

Moisture Ratio After Compacted Mold	
Tare No.	7
Tare WT. (gm)	35.99
Tare WT. + Wet WT. (gm)	183.98
Tare WT. + Dry WT. (gm)	173.16
Water WT. (gm)	10.8
Dry WT. (gm)	137.2
Moisture Content %	7.89

Swelling	
Mold No.	2
Date	3-6-2023
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)	75	209	333	476	616	739	844	903	1010
Load (KN)	0.7	2.0	3.3	4.7	6.0	7.2	8.3	8.8	9.9



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(KN)	(lb)	(%)	(%)	(%)	معدل نسبة 98
2.50	4.66	13.4	34.9%	97	98	35.4%
5.00	8.85	20.0	44.2%			44.7%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

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

Consultant Engineer

Name : mohamed elsaied

Sign :

m. elsaied

3-6-2023

	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	
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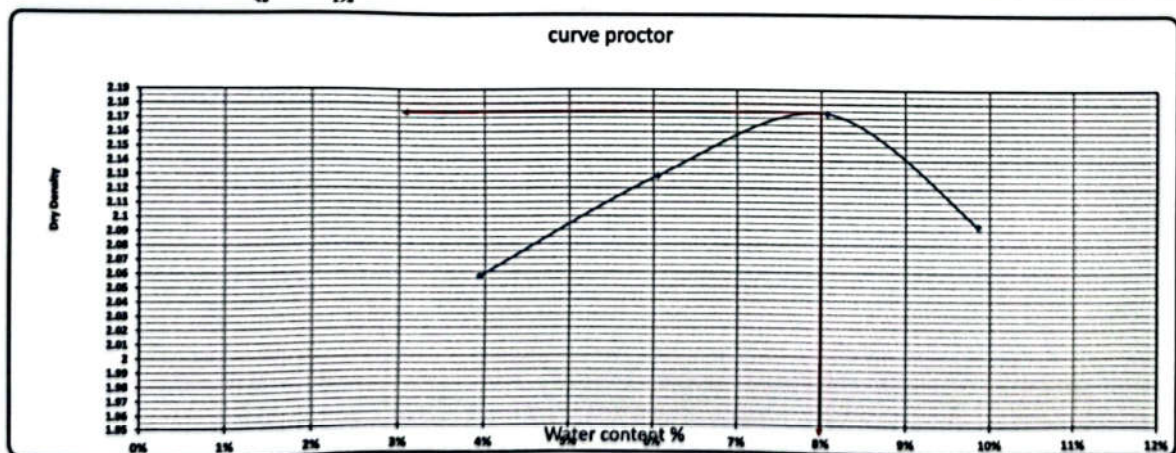
PROCTOR TEST

Testing Date	31-05-23	code		From Station	To Station
Location	K.P 522+300	ARC2-14	Zone	522+000	522+500
ALARCAN 2	ALARCAN 2				

Weight of empty mold	5698.0	MAX Dry Density	2.175
Mold Volume	2127.0	Water content %	8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10245.0	10500.0	10694.0	10590	
WT. WET SOIL	4547.0	4802.0	4996.0	4892.0	
Wt. Density	2.138	2.258	2.349	2.300	

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	155.28	155.45	153.01	152.85	150.66	150.76	148.96	148.75		
Wt. Of water	4.7	4.6	7.0	7.2	9.3	9.2	11.0	11.3		
Wt. Of dry soil	119.0	116.6	117.0	116.6	115.3	115.0	112.7	113.4		
Water content %	3.97%	3.90%	5.97%	6.13%	8.10%	8.04%	9.80%	9.92%		
AV. Water content %	3.93%		6.05%		8.07%		9.86%			
Dry Density	2.057		2.129		2.173		2.094			



Contractor

Consultant

mohamed elsaid

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

m.elsaid

3-6-2023

Operating Lab	Negida Central Lab
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PARTICLE SIZE DISTRIBUTION OF SOIL

Description of Materials	Embankment
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Testing Date	31-05-23	code	Zone	From Station		TO Station
Location	K.P 522+300	ARC2-14		522+000		522+500
Company Name	ALARCAN 2					

1-visual inspection test :-

2-Gradient test :-

<u>A-gradation of bulk materials</u>			SAMPLE WEIGHT [g]		46052.00		gm			table classify
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS		soil classify
Mass retained (g)	177.0	4552.0	6268.0	3671.0	3573.0	1886.0	4100.0			A-1-a
Cumulative Retained (g)	177.0	4552.0	10820.0	14491.0	18064.0	19950.0	24050.0		PRO	2.175
Cumulative Retained %	0.4	9.9	23.5	31.5	39.2	43.3	52.2		WC	8
Cumulative Passing %	99.6	90.1	76.5	68.5	60.8	56.7	47.8		CBR	44.7%

<u>B-soft material gradation</u>				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	57.00	201.00	369.00					
Cumulative Retained %	11.40	40.20	73.80					
Cumulative Passing %	88.60	59.80	26.20					

[illegible]

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

Contractor

Consultant

consultant
mohamed elsaied

~~misale~~

3-6-2022

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

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

Page 1 of 1



Electric Express Train - EET
From El Ayn El Sudani City To El Azzameen MATRICULA
Section - 7 From FORA TO MARSA MATRICULA
From Station 524+000 To Station 558+177



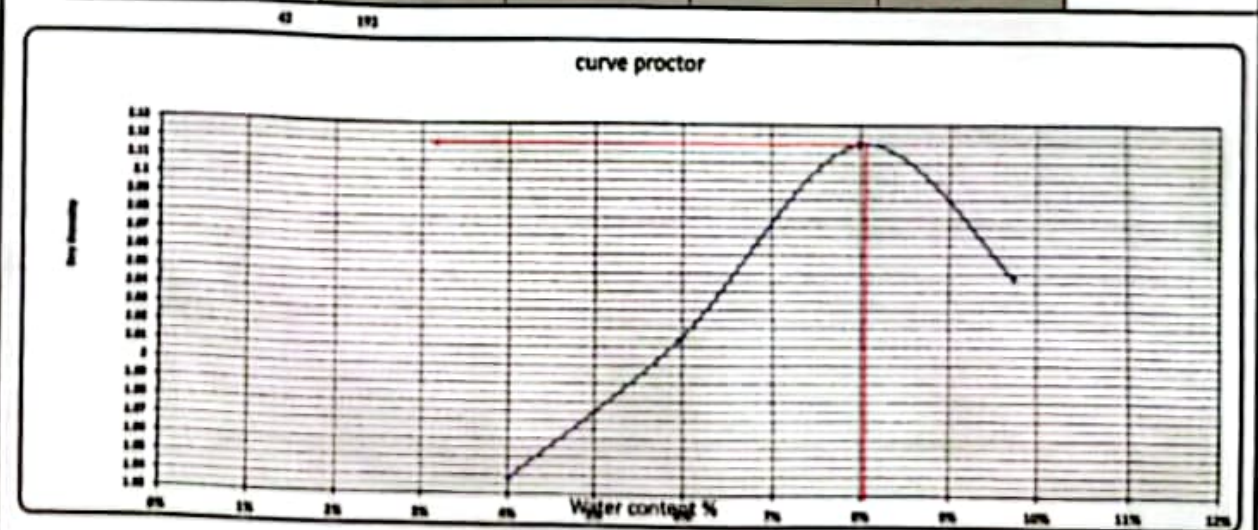
PROCTOR TEST

Testing Date	01-06-23	ARC2-15	Zone	From Station	To Station
Location	K.M 522+000			522+000	522+500
ALABIAN 2	ALABIAN 2				

Weight of empty mold	5807.0	MAX Dry Density	2.12
Mold Volume	2129.0	Water content %	9.1

trial no :	1	2	3	4	
Wt. Of Mold + wet soil	10100.0	10350.0	10681.0	10592	
WT. WET SOIL	4293.0	4543.0	4874.0	4785.0	
Wt. Density	2.016	2.134	2.289	2.248	

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	155.22	155.35	153.00	153.07	150.72	150.90	149.00	148.96		
Wt. Of water	4.8	4.7	7.0	6.9	9.3	9.1	11.0	11.0		
Wt. Of dry soil	119.0	116.5	117.0	116.8	115.4	115.1	112.7	113.6		
Water content %	4.02%	3.99%	5.98%	5.93%	8.04%	7.91%	9.76%	9.72%		
AV. Water content %	4.80%	4.80%	5.98%	5.93%	8.04%	7.91%	9.76%	9.72%		
Dry Density	2.014	2.014	2.128	2.128	2.128	2.128	2.128	2.128		



Contractor

شركة لجودة للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكة - مهنوح

Consultant

[Signature]



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



Operating Lab: Negida Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

Description of Materials: Embankment

Testing Date	01-06-23	code		From Station		TO Station	
Location	K.P 522+300	ARC2-15		522+000		522+500	
Company Name	ALARCAN 2						

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials								SAMPLE WEIGHT (g)		27535.00	gm	table classify
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS				soil classify
Mass retained (g)	404.0	3312.0	3784.0	3000.0	2697.0	962.0	2121.0					A-1-a
Cumulative Retained (g)	404.0	3312.0	7096.0	10096.0	12793.0	13755.0	15876.0				PRO	2.120
Cumulative Retained %	1.5	12.0	25.8	36.7	46.5	50.0	57.7				WC	8.1
Cumulative Passing %	98.5	88.0	74.2	63.3	53.5	50.0	42.3				CBR	65.3%
											corr. pro.	2.198%
											corr. O.M.C	7.80%

B-soft material gradation				WT. OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	84.00	211.00	337.00				
Cumulative Retained %	16.80	42.20	67.40				
Cumulative Passing %	83.20	57.80	32.60				

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 %	68.5	88.0	74.2	63.3	53.5	50.0	42.3	35.2	24.5	13.8

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

Contractor

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

Consultant

(Signature)

California Bearing Ratio TEST

Testing Date	3-6-2023	code	Zone	From Station	To station
Location	K P 522+300	ARC2-15		522+000	522+500
Company Name	ALARCAN 1				

Test Results:

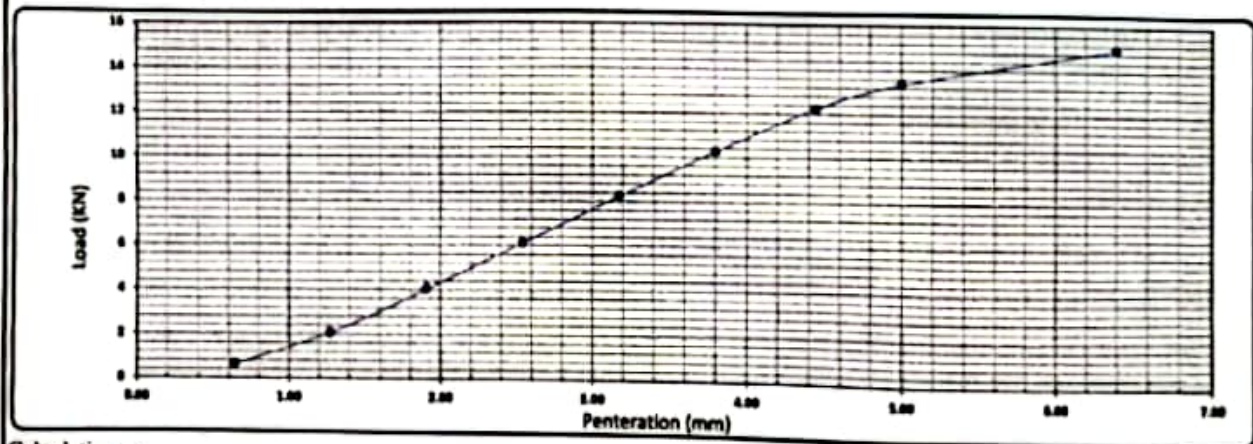
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2170
Mold WT. (gm)	7700
Mold WT. + Wet WT. (gm)	12680
Wet WT. (gm)	4980
Wet Density (g/cm ³)	2.295
Dry Density (g/cm ³)	2.126
Proctor Density (g/cm ³)	2.120
Compaction %	100

Moisture Ratio After Compacted Mold	
Tare No.	5
Tare WT. (gm)	35.35
Tare WT. + Wet WT. (gm)	156.01
Tare WT. + Dry WT. (gm)	147.13
Water WT. (gm)	8.9
Dry WT. (gm)	111.8
Moisture Content %	7.94

Swelling	
Mold No.	1
Date	3-6-2023
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)	66	212	414	626	842	1050	1250	1368	1533
Load (KN)	0.6	2.1	4.1	6.1	8.3	10.3	12.3	13.3	15.3



Calculations :-

Penetration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	6.13	13.4	46.0%	100	98	44.9%
5.00	13.38	20.0	66.8%			65.3%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

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

Consultant Engineer

Name :

Sign :

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company				Designer Company						
Electric express train	ALARCAN 2				k.k						
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Salman gamal		3/6/2023								
Contractor Reference	AR2-15										
Received by ER			MAR	C1	C2	C3	DO	M	YY	HH	MM
							3	6	2023		

The Following Test Result are Attached For Review				
Description of Materials	Soll (A-1-a)			
Location to be Used	522+050			
Item	AR2-15	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	13.8 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.8%	
6	ASTM D 1557	Modified proctor	2.198%	
7	ASTM D 1883	CBR	65.3 %	
Comments by:		Comments by:		
		تأريخ الملاحظات والملاحظات مطابقه الكمية مثل حواس 5174		

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

* Designer

** Alignment/Bridges: Culvert only

California Bearing Ratio TEST

Testing Date :	09-06-2023	Code	FROM STA :	522+000	522+250
Location :	K.P (522+250)	ARC 2 (16)			
Company Name	AL Arkan 2				

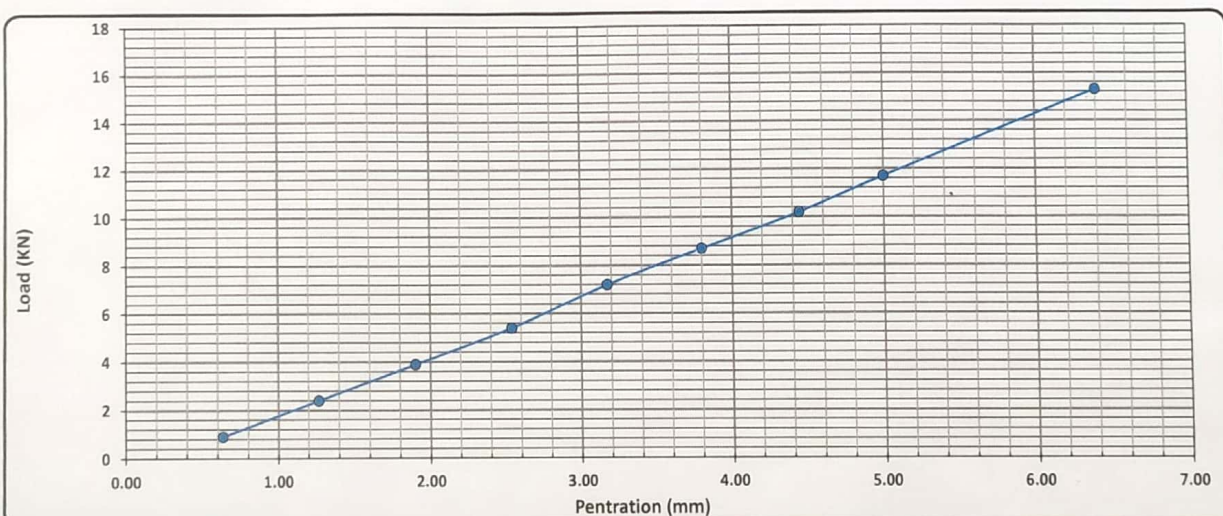
- : Test Results

Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2205
Mold WT. (gm)	5034
Mold WT. + Wet WT. (gm)	10063
Wet WT. (gm)	5029
Wet Density (g/cm ³)	2.281
Dry Density (g/cm ³)	2.129
Proctor Density (g/cm ³)	2.175
Compaction %	97.9

Moisture Ratio After Compacted Mold	
Tare No.	7
Tare WT. (gm)	41.5
Tare WT. +Wet WT. (gm)	150
Tare WT. +Dry WT. (gm)	142.8
Wt. Water	7.2
Dry WT. (gm)	101.3
Moisture Content %	7.1

Swelling	
Mold No.	1
Date	09-06-2023
Initial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0
Sample Height (mm)	120.00
Swelling Ratio %	0.0%

Pentration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (mm)	0.03	0.08	0.13	0.18	0.24	0.29	0.34	0.39	0.51
Load (KN)	0.9	2.4	3.9	5.4	7.2	8.7	10.2	11.7	15.3



Calculations :-

Pentration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	% عند نسبة ٩٨
2.50	5.40	13.4	40.4%	98	98	40.5%
5.00	11.70	20.0	58.4%			58.5%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :

PROCTOR TEST

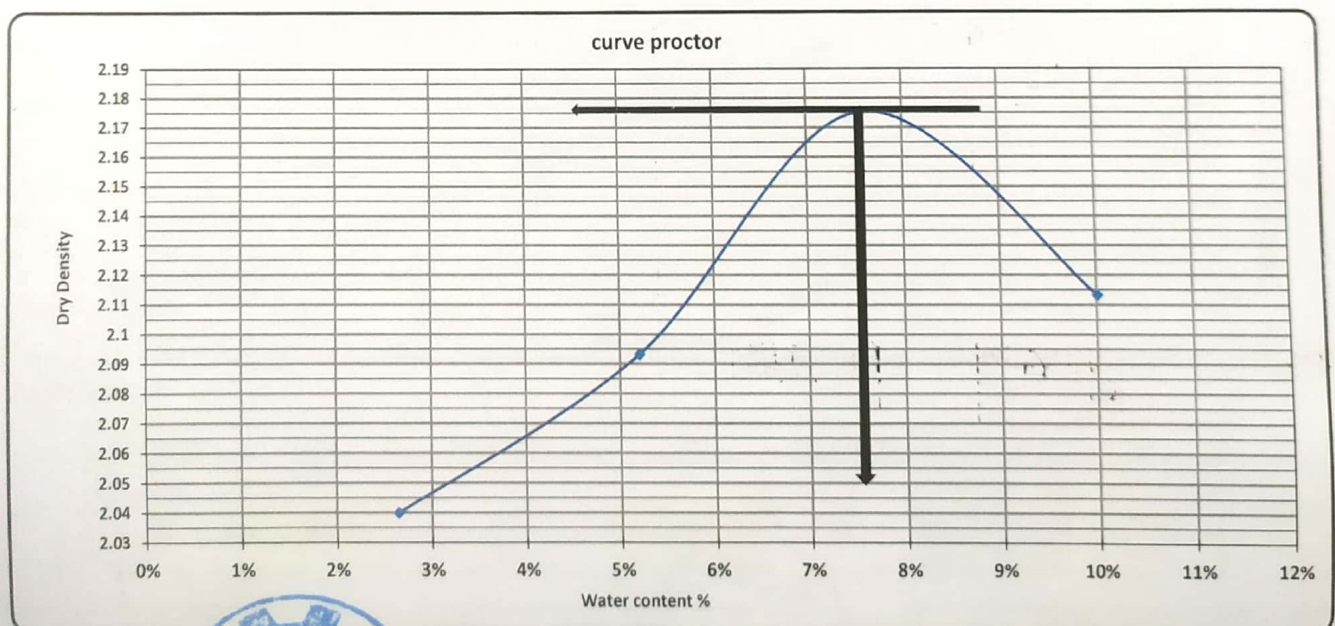
TESTING DATE:	5-6-2023	Code			
LOCATION	K.P (522+250)	ARC 2 (18)	zone	522+000	522+250
NAME COMPANY	AL Arkan 2				

Weight of empty mold :	6280.0
Mold Volume:	2022.0

MAX Dry Density	2.175
Water content %	7.5

trial no :	1	2	3	4	
Wt. Of mold+ wet soil	10514.0	10733.0	11012.0	10981	
WT. WET SOIL	4234.0	4453.0	4732.0	4701.0	
Wt. Density	2.094	2.202	2.340	2.325	

Tare No.	18	80	15	22	47	13	37	7		
Tare wt.	52.0	45.8	30.8	59.1	45.7	45.5	80.2	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	147.6	147.2	144.1	145.5	143.1	142.2	143.6	140.2		
Wt. Of water	2.4	2.8	5.9	4.5	6.9	7.8	6.4	9.8		
Wt. Of dry soil	94.7	101.4	113.3	86.4	97.4	96.7	63.4	98.7		
Water content %	2.5%	2.8%	5.2%	5.2%	7.1%	8.1%	10.1%	9.9%		
AV. Water content %	2.6%		5.2%		7.6%		10.0%			
Dry Density	2.040		2.093		2.175		2.113			



Consultant

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد فهد	 SVS TRA SHAKER	Electric Express Train - HSR		 الهيئة القومية للإنتاج طوبو الجيولوجيا والبيئة (GABRIEL)
		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				
Dpreating Lab		AL Nuby Central Lab		

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	5-6-2023	Code			
LOCATION	K.P (522+250)	ARC 2 (16)	zone	522+000	522+250
NAME COMPANY	AL Arkan 2				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		22254.00		gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify	
Mass retained (g)	0.0	1928.0	2300.0	2700.0	1694.0	1800.0	1200.0		A-1-a	
Cumulative Retained (g)	0.0	1928.0	4228.0	6928.0	8622.0	10422.0	11622.0		PRO	2.175
Cumulative Retained %	0.0	8.7	19.0	31.1	38.7	46.8	52.2		WC	7.50
Cumulative Passing %	100.0	91.3	81.0	68.9	61.3	53.2	47.8		CBR	58.50

B-sort material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	72.00	200.00	350.00					
Cumulative Retained %	14.40	40.00	70.00					
Cumulative Passing %	85.60	60.00	30.00					

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	91.3	81.0	68.9	61.3	53.2	47.8	40.9	28.7	14.3

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

Contractor

Consultant



MATERIAL APPROVAL REQUEST



المهنة العامة
المحرق والكبارى والنقل البرى
(GARBLT)



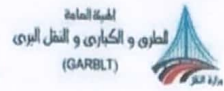
المهنة القومية للإنفاق
NATIONAL AUTHORITY FOR TUNNELS
2003



Contractor Company	AL-Arkan for general contracting		Designer Company								
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Salman Gamal										
Contractor Reference	ARC2-16										
Received by ER			MAR	C1	C2	C3	DD	MM	YY	HH	MM
							09	06	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											
CODE - 3											

Description of Materials		Soil (A-1-A)		
Location to be stock		522+100		
Item	Specificatin	Test requirement	Test result attachment	Remarks
1	ASTM D75	Aggregate sampling	According to SPCS	
2	ASTM C136	Sieve Analysis	According to SPCS	
3	ASTM D1440	Passing sieve #200	14.3	
4	ASTM D4318	Atterberg limit	NP	
5	ASTM 2974	Moisture content	7.50	
6	ASTM D1557	Modified Proctor	2.175	
7	ASTM D1883	CBR	58.50	
Comments by:		Comments by:		
APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Salman Gamal			
QA/QC *				
GARB**				
Employers Representative				

MATERIAL INSPECTION REQUEST



Contractor Company	AL-Arkan for general contracting		Designer Company																
Issued by Contractor	Name	Sign	Date	Time															
	Eng/ Salman Gamal																		
Contractor Reference	ARC2-16																		
Received by ER		MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>09</td> <td>06</td> <td>2023</td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				09	06	2023		
C1	C2	C3	DD	MM	YY	HH	MM												
			09	06	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	REPLACEMENT FILL MATERIAL RESULTS					
Location to be Used	522+000 to 522+220		(-1.75)			
	522+000 to 522+220		(-1.50)			
	522+300 to 522+500		(-0.50)			
	522+000 to 522+100		(-0.25)			
MAR Approval No				Date		
Supplier Name						
Test Requirement	Specification			Clause		
Reference Photos	Yes attached / No			Other		
Item	Description	Unit	Quantity	Arrival Date	Note	
1	Seive Analysis	M^3	5000	05/06/2023		
2	Atterberg Limits	M^3	5000	05/06/2023		
3	Proctor	M^3	5000	05/06/2023		
4	CBR	M^3	5000	09/06/2023		
Comments by:			Comments by:			
A sample has been taken from fill material by KK Office to (AL-Nuby Central Lab) and the results founded meet the specifications accepted						
APPROVAL STATUS						
Organisation	Name	Sign	Date	A-AWC-R		
Contractor	Eng/ Salman Gamal					
QA/QC *						
GARB**						
Employers Representative						