MATERIAL INSPECTION REQUEST

Contractor Company	ALARCAN 2		Designer Company	
Issued by Contractor	Name: Eng/Salman gamal	Sign:	Date: 03/6/2023	Time:
Contractor Refrence	ARC-15			
Received by ER			MIR	

C1	C2	C3	DD	MM	YY	HH	MM
			03	6	2023		

CODE-1	S1 to S21 Station Reference	D1 to S5 Depot Reference	Kp XXX Note For Kilometer point only Start Km is used
CODE-2	Work Activity		
CODE-3	Sub Element of Activity		-

Description of Materials	Fill Material Result			
Location to be Used	522+000 522+120 -2.5 522+000 522+220 -2			
MAR Approval No	AR2-15		Date	
Supplier Name				
Test Requirement		Specification	Clause	
Reference Photos	Yes attached / No	Other		

Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & P.L & O.M.C %	m3	5000	1-6-2023	
2	Proctor	m3	5000	1-6-2023	
3	Classification	m3	5000	1-6-2023	
4	Sieve Analysis	m3	5000	1-6-2023	
5	C.B.R	m3	5000	3-6-2023	

Comments by:	Comments by:
	نتائج الصلاحيات والمنقات مطابقة لكمية تشتمل حوالى 5174

APPROVAL STATUS

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

* Designer
** Alignment / Bridges: Culvert Only

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

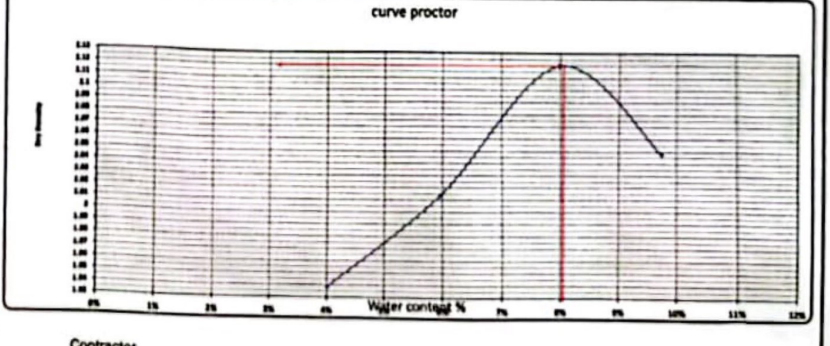
PROCTOR TEST

Testing Date	01-06-25	code		From Station	To Station
Location	K.P 522+500	ARC2-15	Zone	522+000	522+500
ALARCIAN 2	ALARCIAN 2				

Weight of empty mold	5807.0	MAX Dry Density	2.33
Mold Volume	2129.0	Water content %	8.1

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 %	4.00%		5.96%		7.97%		9.74%			
Dry Density	2.014		2.014		2.120		2.048			



Contractor

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

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

Operating Lab: Negida Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

Description of Materials: Embankment

Testing Date	01-06-23	code	Zone	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

sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS
Mass retained (g)	404.0	3312.0	3784.0	3000.0	2697.0	962.0	2121.0	
Cumulative Retained (g)	404.0	3312.0	7096.0	10096.0	12793.0	13755.0	15876.0	
Cumulative Retained %	1.5	12.0	25.8	36.7	46.5	50.0	57.7	
Cumulative Passing %	98.5	88.0	74.2	63.3	53.5	50.0	42.3	

	table classify
	soil classify
	A-1-a
PRO	2.120
WC	8.1
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 %	98.5	88.0	74.2	63.3	53.5	50.0	42.3	35.2	24.5	13.8

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

Contractor

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

Consultant

Electric Express Train - HSR

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 2					

Test Results:

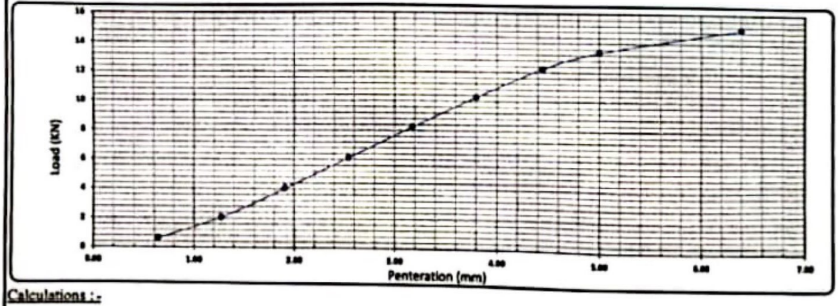
Compaction % for Mold	
Mold No.	1
Mold Vol (cm^3)	2170
Mold WT. (gm)	7700
Mold WT. + Wet WT. (gm)	12680
Wet WT. (gm)	4980
Wet Density (g/cm^3)	2.295
Dry Density (g/cm^3)	2.126
Proctor Density (g/cm^3)	2.120
Compaction %	100

Mositure 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
Intial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0.00
Sample Height (mm)	116.40
Swelling Ratio %	0%

Loading Reading :

Penteration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.08	6.40
Load Reading (kg)	68	212	418	626	842	1050	1250	1365	1533
Load (KN)	0.6	2.1	4.1	6.1	8.3	10.3	12.3	13.4	15.0



Calculations :-

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

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

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

MATERIAL APPROVAL REQUEST

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

The Following Test Result are Attached For Review				
Description of Materials		Soil (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: نتائج العلاجيات والاضافات مطابقه كميا - تقبل حوالى 5174	

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

* Designer
** Alignment/Bridges: Culvert only

MATERIAL INSPECTION REQUEST

Contractor Company	ALARCAN 2			Designer Company						
Issued by Contractor	Name	Sign		Date				Time		
	Eng/SLAMAN GAMAL	19-7-2023		19-07-2023						
Contractor Refrence	P.S.G.1 ARC 2(P-1)									
Received by ER			MIR	C1	C2	C3	DD	MM	YY	HH MM
							19	07	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	Cursched Stone P.S.G.1 Material Result					
Location to be Used	522+000 TO 522+500 0.25+ 522+000 TO 522+500 0.50+					
MAR Approval No	P.S.G.1 ARC 2(P-1)			Date		
Supplier Name						
Test Requirement		Specification		Clause		
Reference Photos	Yes attached / No	Other				

Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & P.L & O.M.C %	m3	5000	17-07-2023	
2	Proctor	m3	5000	18-07-2023	
3	Classification	m3	5000	17-07-2023	
4	Sieve Analysis	m3	5000	17-07-2023	
5	C.B.R	m3	5000	19-07-2023	
6	L.A	m3	5000	18-07-2023	
7	SP.Gravity	m3	5000	18-07-2023	
8	Absorbtion	m3	5000	18-07-2023	

Comments by:	Comments by:

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Shehab Hamdi	19-7-2023		
QA/QC *	أ/ محمد صابر	أ/ محمد		
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST

ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد هندول

Location Name	Contractor Company			Designer Company				
Electric express train	ALARCAN 2			k.k				
Issued by Contractor	Name	Sign	Date	Time				
	Eng/SALMAN GAMAL		19-07-2023					
Contractor Reference	P.S.G.1 ARC2(P-1)							
Received by ER			MAR	C1	C2	C3	DD	MM	YY	HH	MM
							19	07	2023		

The Following Test Result are Attached For Review				
Description of Materials		P.S.G.1 (A-1-a)		
Location Of Stock		522+140		
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	5.2 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.90 %	
6	ASTM D 1557	Modified proctor	2.194	
7	ASTM D 1883	CBR	88.8 %	
8	AASHTO-T96	L.A	24 %	
9	AASHTO-T85	Absorbtion	2.908 %	
10	AASHTO-T85	SP.Gravity	2.652	
Comments by:			Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
Contractor QA/QC *	أ/ شهاب حامد	أ/ شهاب		
GARB**				
Employers Representative				

* Designer
** Alignment/Bridges: Culvert only

Electric Express Train - HSR

From El Ain El Sokhna City To El Alamein - MATROUH

Section - 7 From FOKA To MARSA MATROUH

From Station 804+000 To Station 568+177

Opreating Lab | Negida Central Lab

PARTICLE SIZE DISTRIBUTION OF PREPARED SUBGRADE

TESTING DATE:	17-07-2023	Code	Zone	FROM STATION	TO STATION
LOCATION	KP 522+140	ARC 2(P-1)		522+000	522+500
COMPANY NAME	ALARCAN 2				
MATERIALS	Prepared Subgrade				

1-visual Inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		31220.00		gm	Table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	Soil Classify	A-1-a
Mass retained (g)	0.0	1234.0	4817.0	2909.0	4920.0	2740.0	5838.0		PRO	2.194
Cumulative Retained (g)	0.0	1234.0	6051.0	8960.0	13880.0	16620.0	22458.0		WC	7.90
Cumulative Retained %	0.0	4.0	19.4	28.7	44.5	53.2	71.9		CBR	88.83%
Cumulative Passing %	100.0	96.0	80.6	71.3	55.5	46.8	28.1		Los Angles	24
									Absorption	2.908

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	147.00	322.00	408.00					
Cumulative Retained %	29.40	64.40	81.60					
Cumulative Passing %	70.60	35.60	18.40					

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	96.0	80.6	71.3	55.5	46.8	28.1	19.8	10.0	5.2
SPECIFICATION	——	97	——	70 -- 75	——	15 -- 60	——	0 -- 35	——	0 -- 12

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

Contractor

Consultant

19/7/2023

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 (PREPARED SUBGRADE)

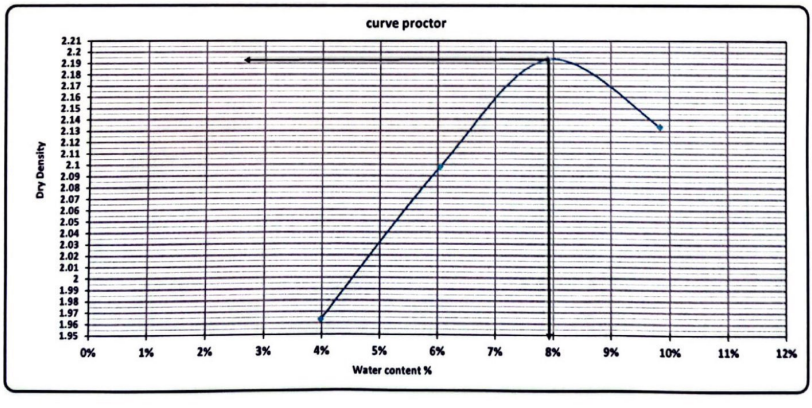
TESTING DATE:	18-7-2023	Code	zone	FROM	TO
LOCATION	522+140	ARC 2(P-1)		522+000	522+500
COMPANY NAME	ALARCAN 2				

Weight of empty mold :	5652.0
Mold Volume:	2125.0

MAX Dry Density	2.194
Water content %	7.9

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	9990.0	10380.0	10682.0	10633	
WT. WET SOIL	4338.0	4728.0	5030.0	4981.0	
Wt. Density	2.041	2.225	2.367	2.344	

Tare No.	7	19	13	17	15	40	31	32		
Tare wt.	42.2	44.1	53.6	53.2	30.9	46.2	80.7	82.7		
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	145.20	145.00	142.63	142.50	140.20	140.35	138.00	137.80		
Wt. Of water	4.8	5.0	7.4	7.5	9.8	9.7	12.0	12.2		
Wt. Of dry soil	123.0	123.0	123.0	123.0	123.0	123.0	123.0	123.0		
Water content %	3.9%	4.1%	6.0%	6.1%	8.0%	7.8%	9.8%	9.9%		
AV.Water content %	4.0%		6.0%		7.9%		9.8%			
Dry Density	1.963		2.098		2.194		2.134			



Contractor

Mohamed Hamed

Consultant

19/7/2023

Absorbtion & Aggregate specific gravity AASHTO-T85

PREPARED SUBGRADE

TESTING DATE:	18-7-2023	code	zone	FROM	TO
LOCATION	522+140	ARC 2(P-1		522+000	522+500
COMPANY NAME	ALARCAN 2				

Weight of sample Before Test	——	gm
Weight of saturated -dry surface sample (B)	3008	gm
Weight of saturated sample in water (C)	1821	gm
Weight of dry sample after heating (A)	2923	gm

10695

Results:-

Bulk specific gravity = A / (B-C)	2.463	
Apparent specific gravity = A /(A-C)	2.652	
Asorbtion = (B-A)/A	2.908	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3785	24

Lab. Specialist
Name :
Sign :
19/7/2023

Lab. Engineer
Name :
Sign :

Consultant Engineer
Name :
Sign :

Electric Express Train - HSR

Operating Lab: AL Nuby Central Lab

California Bearing Ratio TEST

PREPARED SUBGRADE

Testing Date :	19-07-2023	Code	ZONE	FROM	TO
Location :	522+140	ARC 2(P-1)		522+000	522+500
COMPANY NAME	ALARCAN 2				

-: Test Results

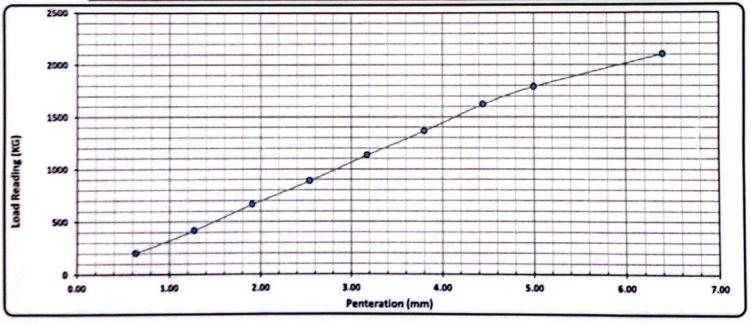
Compaction % for Mold	
Mold No.	1
Mold Vol.(cm^3)	2170
Mold WT. (gm)	7700
Mold WT. + Wet WT. (gm)	12666
Wet WT. (gm)	4966
Wet Density (g/cm^3)	2.288
Dry Density (g/cm^3)	2.120
Proctor Density (g/cm^3)	2.394
Compaction %	97

Moisture Ratio After Compacted Mold	
Tare No.	19
Tare WT. (gm)	44.1
Tare WT. +Wet WT. (gm)	188.62
Tare WT. +Dry WT. (gm)	178
Water WT. (gm)	10.6
Dry WT. (gm)	133.9
Moisture Content %	7.9

Swelling	
Mold No.	1
Date	19-07-2023
Intial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0
Sample Height (mm)	116.40
Swelling Ratio %	0.0%

Loading Reading :

Penteration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (KG)	284.0	416.0	665.0	888.0	1135.0	1365.0	1621.0	1790.0	2103.0
Load Reading (KN)	2.0	4.1	6.5	8.7	11.1	13.4	15.9	17.5	20.6



Calculations : -

Penteration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR عند نسبة 98 %
2.50	8.70	13.4	65.2%	97	98	66.1%
5.00	17.54	20.0	87.6%			88.8%

Lab. Specialist	Lab. Engineer	Consultant Engineer
Name :	Name : Mohamed Hamed	Name :
Sign :	Sign :	Sign :
	مشروع القطار السريع / فوكة - مطروح	19/7/2023

KK

Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 2 From FUKA TO MARSA MATROUH
From Station 504+000 To Station 668+177

PROCTOR TEST

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

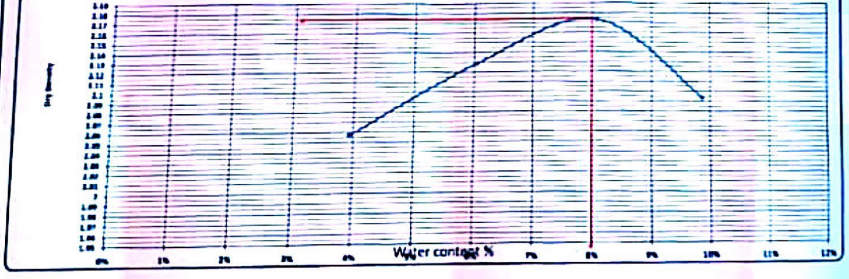
Weight of empty mold	5698.0
Mold Volume	2127.0

MAX Dry Density	2.175
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			

curve proctor



Contractor

شركة نجيكة للمقاولات
المعمل المركزى
مشروع القطار السريع / فوكة - مطر

Consultant

mohamed elsaid

M. elsaid

3-6-2023

MATERIAL INSPECTION REQUEST

Contractor Company	Al Arkan for general contracting		Designer Company		
Issued by Contractor	Name	Sign	Date	Time	
	Eng/ Salman Gamal		3-6-2023		
Contractor Reference	ARC2-14				
Received by ER			MIR		

CODE 1	11 to 121 Station Reference	211 to 23 Depot Reference	Up 222 Note For Kilometer point only Start Km is used
CODE 2		Work Activity	
CODE 3		Sub Element of Activity	

Description of Materials	REPLACMENT FILL MATERIAL RESULTS				
Location to be Used	S22+000 to S22+220 (-3.00) S22+120 to S22+220 (-2.50)				
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	31/5/2023	
2	Atterberg Limits	M^3	5000	31/5/2023	
3	Proctor	M^3	5000	31/5/2023	
4	CBR	M^3	5000	1/6/2023	
Comments by:				Comments by:	
A sample has been taken from fill material by KK Office to (Negida Central Lab) and the results founded meet the specifications accepted					

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-A/M/C-R
Contractor	Eng/ Salman Gamal			
QA/QC *	Mohamed [illegible]	[illegible]	[illegible]	
GARB**				
Employers Representative				

Egyptian Expressway Project
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 7 From KOM To MARSA MATROUH
From Station 504+000 To Station 568+177

PARTICLE SIZE DISTRIBUTION OF SOIL

Testing Date	31-05-23			From Station	TO Station
Location	K.P 522+500	ARC2-14	Zone	522+000	522+500
Company Name	ALARCAN 3				

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials

SAMPLE WEIGHT (g)	46052.00	gm

sieve size	2	1.5	1	3/4	1/2	3/8	#4	PASS
Mass retained (g)	177.0	4552.0	6268.0	3671.0	3573.0	1886.0	4100.0	
Cumulative Retained (g)	177.0	4552.0	10820.0	14491.0	18064.0	19950.0	24050.0	
Cumulative Retained %	0.4	9.9	23.5	31.5	39.2	43.3	52.2	
Cumulative Passing %	99.6	90.1	76.5	68.5	60.8	56.7	47.8	

table classify	
soil classify	
A-1-a	
PRO	2.175
WC	8
CBR	44.7%

B-soft material gradation

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					

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 %	99.6	90.1	76.5	68.5	60.8	56.7	47.8	42.3	28.6	12.5

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

Contractor

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

Consultant
mohamed elsaid
3-6-2023

Scanned with CamScanner

MATERIAL APPROVAL REQUEST

Contractor Company	AL-Arkan for general contracting		Designer Company		
Issued by Contractor	Name	Sign	Date	Time	
	Eng/ Salman Gamal		3-6-2023		
Contractor Reference	ARC2-14				
Received by ER			MAR		

C1	C2	C3	DD	MM	YY	HH	MM
			03	06	2023		

CODE-1	S1 to S21 Station Reference	D1 to S7 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	Soil (A-1-A)			
Location to be stock	S22+300			

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	12.5	
4	ASTM D4318	Atterberg limit	NP	
5	ASTM 2974	Moisture content	8.00	
6	ASTM D1557	Modified Proctor	2.175	
7	ASTM D1883	CBR	44.7	

Comments by:	Comments by:
	تم اختبار صلاحية مصدر أتربة مماثلة لـ ١٠٠٠٠م٣ تقريباً طبقاً للاشتراطات المرجعية.

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Salman Gamal			
QA/QC *	mohamed elsaied	m elsaied 6-6-2023		
GARB**				
Employers Representative				

KK

Electric Express Train - HSR

California Bearing Ratio TEST

Testing Date	1-6-2023				
Location	K.P 322+800	ARCE-16			
Company Name	ALARCAN 2				

Test Results

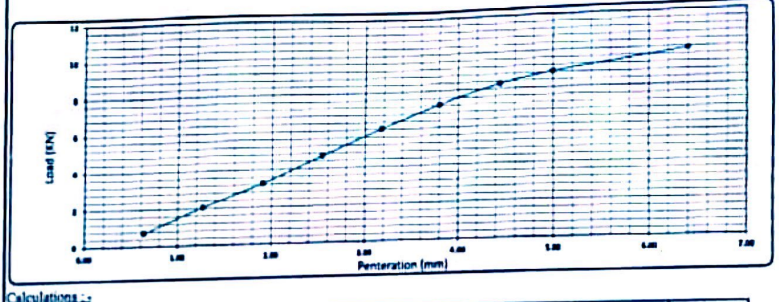
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm^3)	2134
Mold WT. (gm)	8227
Mold WT. + Wet WT. (gm)	13077
Wet WT. (gm)	4850
Wet Density (g/cm^3)	2.273
Dry Density (g/cm^3)	2.107
Proctor Density (g/cm^3)	2.175
Compaction %	97

Moisture Ratio After Compaction Mold	
Tare No.	7
Tare WT. (gm)	61.99
Tare WT. + Wet WT. (gm)	183.98
Tare WT. + Dry WT. (gm)	173.14
Water WT. (gm)	10.8
Dry WT. (gm)	117.2
Moisture Content %	7.89

Swelling	
Mold No.	2
Date	1-6-2023
Initial Height (mm)	5.00
Final Height (mm)	5.00
Difference	0.00
Sample Height (mm)	118.40
Swelling Ratio %	0%

Loading Reading :

Penteration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.08	6.40
Load Reading (kg)	75	299	353	476	616	729	844	903	1210
Load (KN)	0.7	2.9	3.5	4.7	6.0	7.2	8.3	8.8	9.9



Calculations :-

Penteration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % من سبة
2.50	4.66	13.4	34.9%	97	98	35.4%
5.00	8.85	20.0	44.2%			44.7%

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

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

m. elsaied
3-6-2023