MATERIAL INSPECTION REQUEST

Location Name	Contractor Company		Designer Company	
Electric express train	AL- ARKAN 2 Company		k.k	
Issued by Contractor	Name	Sign	Date	Time
	Eng. Salman Gamal		11-07-2023	
Contractor reference	ARC2 - (18) 11-07-2023			
Received by ER		MIR	C1 C2 C3 DD MM YY HH MM: 11 7 23	

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

Description of Materials	FILL MATERIAL RESULTS		
Location to be Used	From	To	LAYER
	522+000	522+220	-0.75
	522+000	522+220	-0.5
	522+000	522+220	-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	Sieve analysis	m^3	4000	09-07-2023	
2	Classification	m^3	4000	09-07-2023	
3	Proctor & O.m.c	m^3	4000	10-07-2023	
4	L.L & P.L & PI	m^3	4000	09-07-2023	
5	C.B.R	m^3	4000	11-07-2023	

Comments by:	Comments by:
A sample has been taken from fill material by K.K office to (Al Tawakol laboratory) and the results founded meet the specifications and accepted.	

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Salman Gamal		11-07-2023	
QA/QC *	Mohamed Ali			
GARB**				
Comments by				
Employers Representative				

* Designer
** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST

Location Name	Contractor Company		Designer Company
Electric express train	AL- ARC 2 Company		k.k

	Name	Sign	Date	Time
Issued by Contractor	Eng. Salman Gamal		11-07-2023	
Contractor Reference	ARC2 - (18) 11-07-2023			

Received by ER		MAR	C1	C2	C3	DD	MM	YY	HH	MM
						11	7	23		

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 (522+300)

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	12.15	
4	ASTM D 4318	Atterberg limit	N. PI	
5	ASTM D 2974	Moisture content	7.9 %	
6	ASTM D 1557	Modified proctor	2.16	
7	ASTM D 1883	CBR	50.8%	

Comments by:	Comments by:

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Salman Gamal		11-07-2023	
Contractor QA/QC *	Mohamed Ali			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

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

SYSTRA SHAKER

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

الهيئة القومية للأنفاق
(GAFELT)

Opreating lap	Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	09-07-2023	code	ZONE	522+000	522+500
LOCATION	K.P (522+300)	ARC 2 (18)	Material	fill material	
NAME COMPANY	AL ARKAN		quantity	4000 M	

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				TOTAL SAMPLE WEIGHT		50320.00		gm		table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS		soil classify
Mass retained (g)	560.0	2700.0	6100.0	4880.0	3470.0	5210.0	5560.0		CLASS	A-1-A
Cumulative Retained (g)	560.0	3260.0	9360.0	14240.0	17710.0	22920.0	28480.0	21840.0	PRO	2.16
Cumulative Retained %	1.1	6.5	18.6	28.3	35.2	45.5	56.6		WC	7.9
Cumulative Passing %	98.9	93.5	81.4	71.7	64.8	54.5	43.40		CBR	50.8
									CORR .PRO	-
									CORR .WC	-

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	70.00	205.00	360.00					
Cumulative Retained %	14.00	41.00	72.00					
Cumulative Passing %	86.00	59.00	28.00					

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 %	98.9	93.5	81.4	71.7	64.8	54.5	43.4	37.3	25.6	12.15

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

Contractor	Consultant
	Mohammed Ali

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

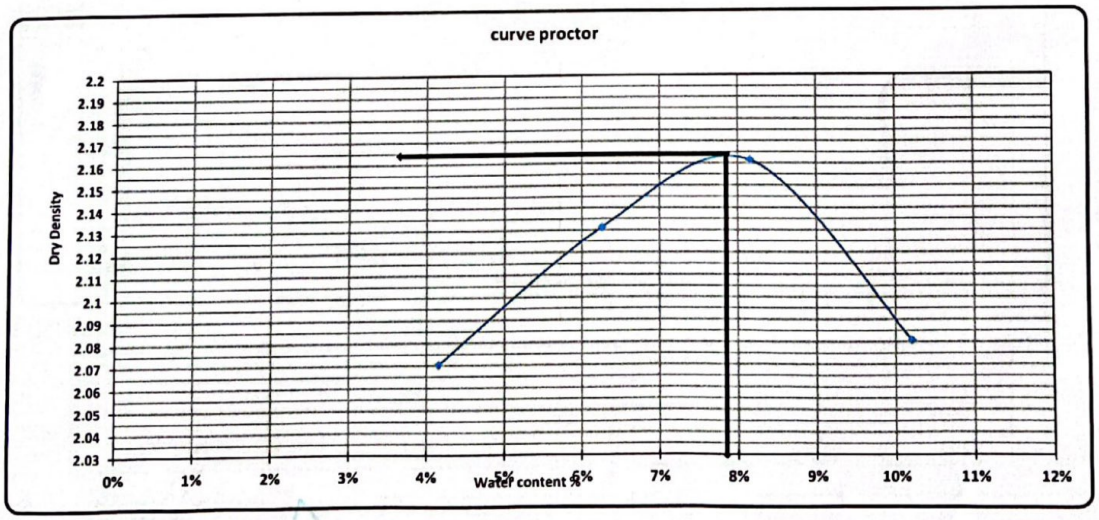
TESTING DATE:	10-07-2023	code	ZONE	522+000	522+500
LOCATION	K.P (522+300)	ARC 2 (18)	Material	fill material	
NAME COMPANY	AL ARKAN		quantity	4000 M	

Weight of empty mold :	5620.0
Mold Volume:	2124.0

MAX Dry Density	2.16
Water content %	7.9%

trial no :	1	2	3	4	
Wt. Of Mold + Wet Soil	10200.0	10430.0	10585.0	10490	
WT. WET SOIL	4580.0	4810.0	4965.0	4870.0	
Wt. Density	2.156	2.265	2.338	2.293	

Tare No.	18	20	19	14	5	15	2	4		
Tare wt.	55.39	54.94	56.18	53.73	56.38	54.35	55.24	53.56		
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	146.28	146.15	144.69	144.20	142.48	143.26	141.00	141.3		
Wt. Of water	3.7	3.8	5.4	5.8	7.5	6.7	9.0	8.7		
Wt. Of dry soil	90.9	91.2	88.4	90.5	86.1	88.9	85.8	87.7		
Water content %	4.1%	4.2%	6.1%	6.4%	8.7%	7.6%	10.5%	9.9%		
AV.Water content %	4.2%		6.3%		8.2%		10.2%			
Dry Density	2.070		2.131		2.161		2.081			



Contractor

Consultant

Mohamed Ali

Electric Express Train - HSR

California Bearing Ratio TEST ASTM D1883

Testing Date :	11/7/2023	Code	FROM STA :	522+000	522+500
Location :	K.P (522+300)	ARC 2 (18)	Material	fill material	
Company Name	AL ARKAN		quantity	4000M	

-: Test Results

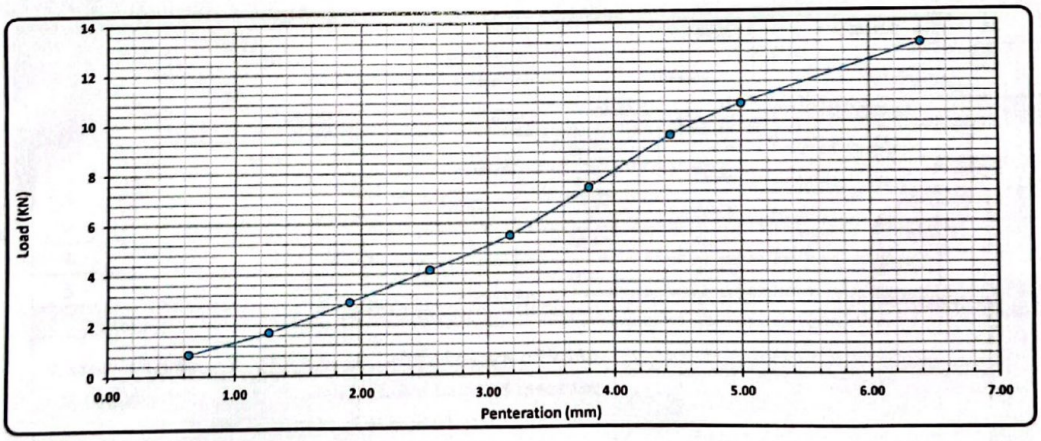
Compaction % for Mold	
Mold No.	2
Mold Vol.(cm^3)	2215
Mold WT. (gm)	5170
Mold WT. + Wet WT. (gm)	10330
Wet WT. (gm)	5160
Wet Density (g/cm^3)	2.330
Dry Density (g/cm^3)	2.159
Proctor Density (g/cm^3)	2.160
Compaction %	100.0

Mositure Ratio After Compacted Mold	
Tare No.	7
Tare WT. (gm)	54.22
Tare WT. +Wet WT. (gm)	150
Tare WT. +Dry WT. (gm)	143
Water WT. (gm)	7.0
Dry WT. (gm)	88.8
Moisture Content %	7.9

Swelling	
Mold No.	2
Date	11/7/2023
Intial Height (mm)	6.00
Final Height (mm)	6.00
Difference	0.00
Sample Height (mm)	119.4
Swelling Ratio %	0.00%

Loading Reading :

Penteration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (N)	95	190	320	460	610	820	1050	1190	1460
Load (KN)	0.9	1.7	2.9	4.1	5.5	7.4	9.5	10.7	13.1



Calculations : -

Penteration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR 95 % عند نسبة
2.50	4.14	13.4	31.0%	100	95	29.5%
5.00	10.71	20.0	53.5%			50.8%

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

MATERIAL INSPECTION REQUEST

الهيئة العامة للطرق و الكباري و النقل البري (GARBLT)

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

الهيئة القومية للأنفاق
NATIONAL AUTHORITY FOR TUNNELS (NAT)

القطار الكهربائي السريع Electric Express Train
SYSTRA SHAKER

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	M M	YY	HH	M M	
							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.م. صلاح	أ.م. صلاح		
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

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		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 *				
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

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

SYSTRA SHAKER

Opreating Lab | Negida Central Lab

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

(GARBLT)

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

Mohamed Hamed
المعمل المركزي
مشروع القطار السريع/ فوكه - مطروح

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)

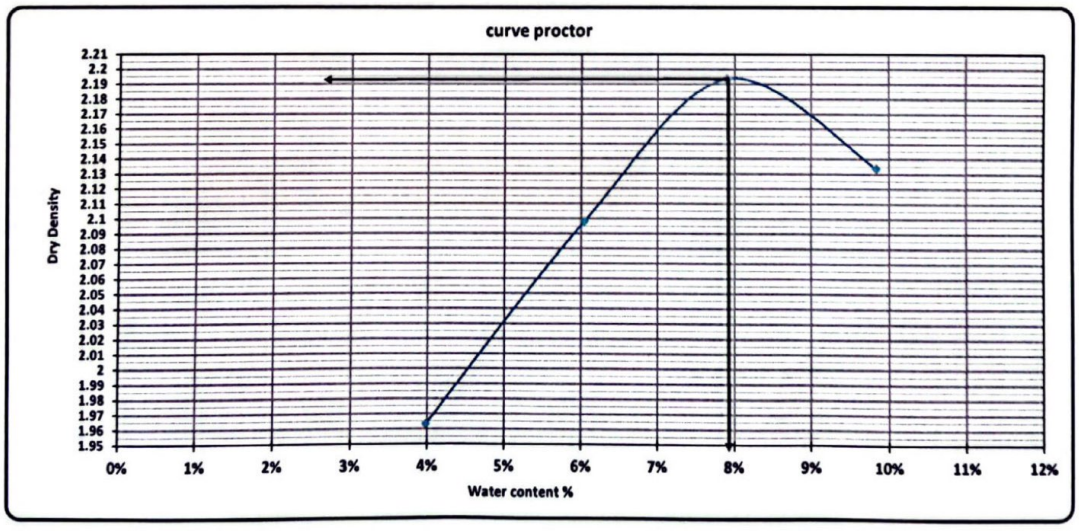
TESTING DATE:	18-7-2023	Code	zone	FROM	TO
LOCATION	522+140	ARC 2(P-1)		522+000	522+500
COMPANY NAME	ALARCAN 2				

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 :

شركة المقاولون العرب
Mohamed Hanem
المهندس المشرف
مشروع القطار السريع

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

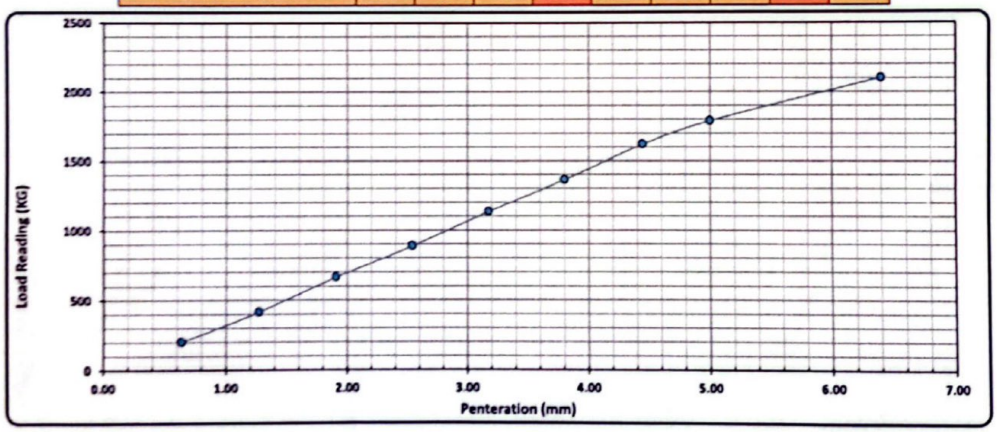
Compaction % for Mold	
Mold No.	1
Mold Vol.(cm^3)	2170
Mold WT. (gm)	7700
Mold WT. + Wet WT. (gm)	12666
Wet WT. (gm)	4966
Wet Density (g/cm^3)	2.288
Dry Density (g/cm^3)	2.120
Proctor Density (g/cm^3)	2.194
Compaction %	97

Mositure 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)	204.0	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	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	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 : 2023	Sign : 19/7/2023

شركة نجيدة للمقاولات
العمل المرحلة
مشروع القطار السريع / فوكة - مطروح

Electric Express Train - HSR

Opreating Lab: AL Nuby Central Lab

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				

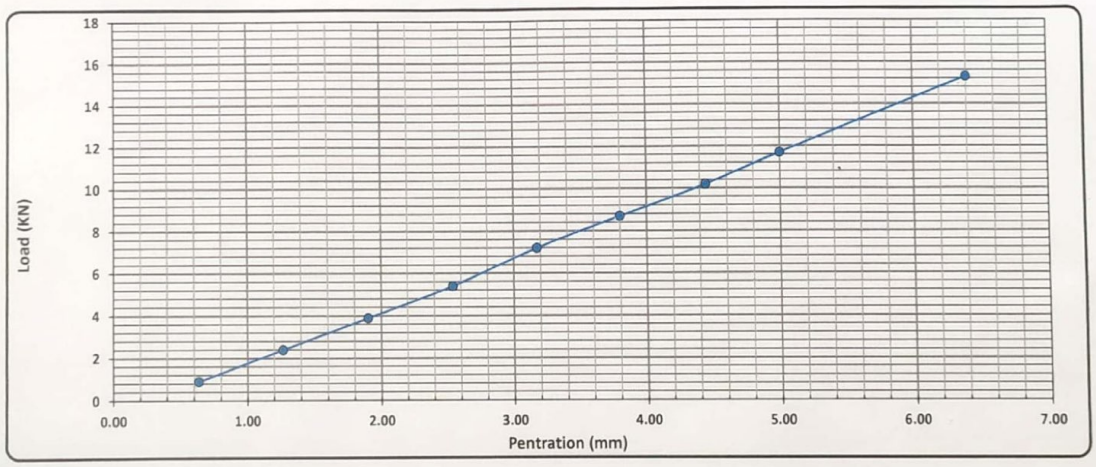
-: Test Results

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

Mositure 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
Intial 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 : -

Penteration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(Ib)	(%)	(%)	(%)	% 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	Lab. Engineer	Consultant Engineer
Name :	Name :	Name :
Sign :	Sign :	Sign :

Electric Express Train - HSR

From El Ain El Sokhna City To El Alamein - MATROUH

Section - 7 From FOKA TO MARSA MATROUH

From Station 504+000 To Station 568+177

PROCTOR TEST

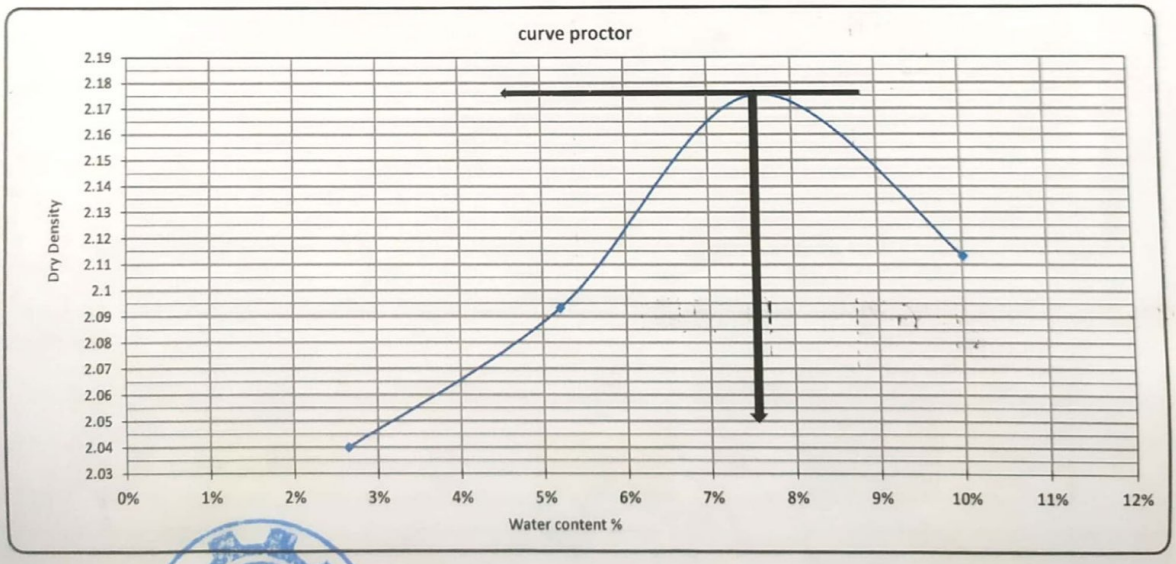
TESTING DATE:	5-6-2023	Code			
LOCATION	K.P (522+250)	ARC 2 (16)	zone	522+000	522+250
NAME COMPANY	AL Arkan 2				

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.	52.9	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			



Contractor

Consultant

Electric Express Train - HSR

From El Ain El Sokhna City To El Alamein - MATROUH

Section - 7 From FOKA To MARSA MATROUH

From Station 504+000 To Station 568+177

Operating Lab | AL Nuby Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

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

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	Work Activity		
CODE - 3	Sub Element of Activity		

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	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	**REPLACMENT 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				