

MATERIAL INSPECTION REQUEST



Contractor Company	EL-ANOUD AL ARABIA		Designer Company	
Issued by Contractor	Name	Sign	Date	Time
	Eng/ Ahmed Rafaat		15-5-2023	
Received by ER			MIR	
			C1 C2 C3 DD MM YY HH MM	
			15 5 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		

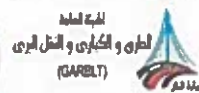
Description of Materials	REPLACEMENT FILL MATERIAL RESULTS				
Location to be Used	From 525+640 to 525+740 (-4) From 525+740 to 525+840 (-4) From 525+760 to 525+840 (-3.5) From 525+700 to 525+760 (-3.5) From 525+600 to 525+620 (-6) From 525+580 to 525+620 (-5.5) From 525+620 to 525+640 (-5.5)				
MAR Approval No	AD-4		Date		
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & PL & O.M.C %	m3	5000	15-5-2023	
2	Proctor	m3	5000	15-5-2023	
3	Classification	m3	5000	15-5-2023	
4	Seive Anylasis	m3	5000	15-5-2023	
5	C.B.R	m3	5000	15-5-2023	
Comments by:			Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Ahmed Rafaat	<i>Ahmed</i>		
QA/QC *	mohamed elsaied	<i>m.elsaied</i>		
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company			Designer Company							
Electric express train	AL-ANOUD AL ARABIA			k.k							
Issued by Contractor	Name	Sign	Date	Time							
			15-5-2023								
Contractor Reference	AD- (4) -15-5-2023										
Received by ER			MAR	C1	C2	C3	DD	MM	YY	HH	MM
							15	5	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 (525+500)			
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	9.5%	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	6.1	
6	ASTM D 1557	Modified proctor	2.195	
7	ASTM D 1883	CBR	56.90%	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Raa Fat			
Contractor QA/QC *	mohamed elsaied			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	12-5-2023	Code	zone	525+500	526+000
LOCATION	K.P (525+500)	AD (4)			
NAME COMPANY	AL Anoud				

-visual inspection test

-Gradient test

-gradation of bulk materials				SAMPLE WEIGHT [g]		33518.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	
Mass retained (g)	0.0	2585.0	3111.0	3150.0	4855.0	4660.0	4684.0		
Cumulative Retained (g)	0.0	2585.0	5696.0	8846.0	13701.0	18361.0	23045.0		PRO
Cumulative Retained %	0.0	7.7	17.0	26.4	40.9	54.8	68.8		WC
Cumulative Passing %	100.0	92.3	83.0	73.6	59.1	45.2	31.2		CBR

-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	41.50	179.10	348.00					
Cumulative Retained %	8.30	35.82	69.60					
Cumulative Passing %	91.70	64.18	30.40					

-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	92.3	83.0	73.6	59.1	45.2	31.2	28.7	20.1	9.5

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

Contractor



Consultant

mohamed elsaied
m-elsaied

17-5-2023



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



PROCTOR TEST

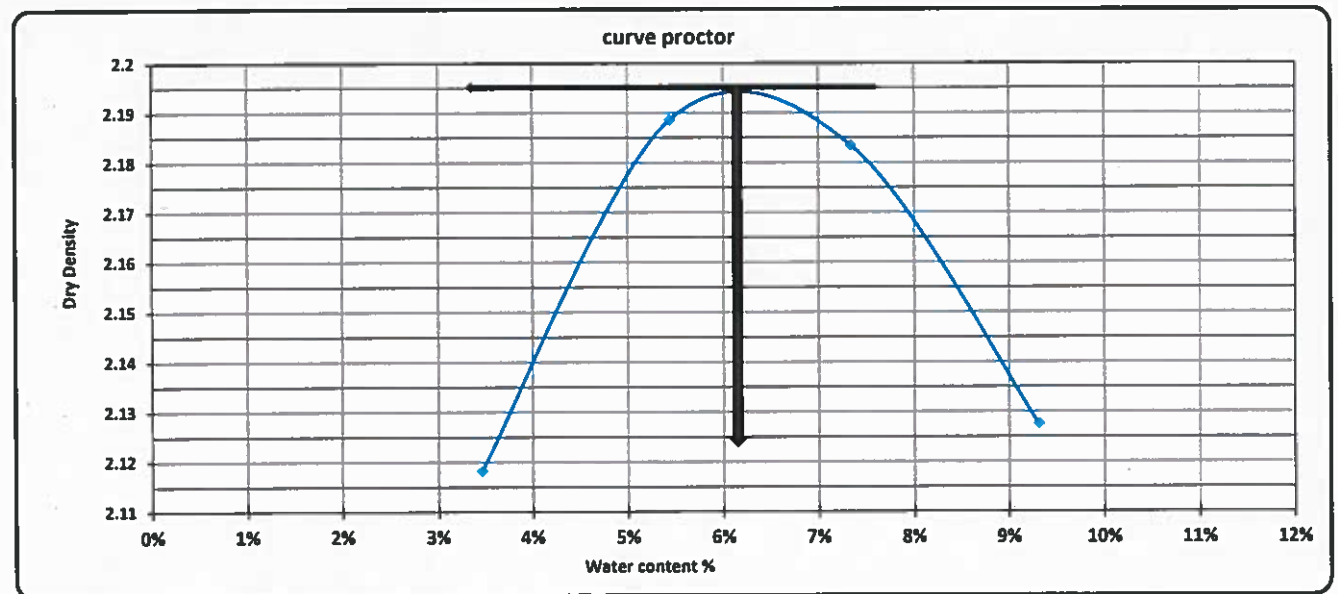
TESTING DATE:	12-5-2023	Code	zone	525+500	526+000
LOCATION	K.P (525+500)	AD (4)			
NAME COMPANY	AL Anoud				

Weight of empty mold :	6042.0
Mold Volume:	2106.0

MAX Dry Density	2.195
Water content %	6.1

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10658.0	10902.0	10978.0	10940	
WT. WET SOIL	4616.0	4860.0	4936.0	4898.0	
Wt. Density	2.192	2.308	2.344	2.326	

Tare No.	18	16	10	26	45	8	90	15		
Tare wt.	77.7	33.3	43.7	55	41.4	46.8	62.5	32		
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	147.5	146.2	144.5	145.1	142.5	143.0	142.5	140.0		
Wt. Of water	2.5	3.8	5.5	4.9	7.5	7.0	7.5	10.0		
Wt. Of dry soil	69.8	112.9	100.8	90.1	101.1	96.2	80.0	108.0		
Water content %	3.6%	3.4%	5.5%	5.4%	7.4%	7.3%	9.4%	9.3%		
AV. Water content %	3.5%		5.4%		7.3%		9.3%			
Dry Density	2.118		2.188		2.183		2.128			



Consultant

mohamed elsaied
 (Signature)
 17-5-2023

California Bearing Ratio TEST

Testing Date :	15-5-2023	Code	FROM STA :	525+500	526+000
Location :	K.P (525+500)	AD (4)			
Company Name	AL Anoud				

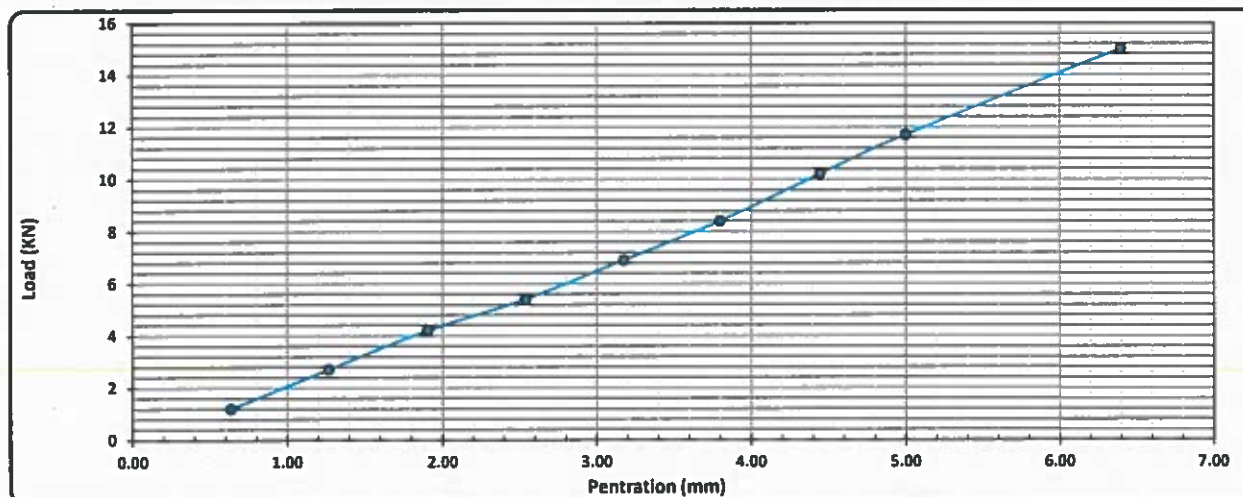
- : Test Results

Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2140
Mold WT. (gm)	4900
Mold WT. + Wet WT. (gm)	9914
Wet WT. (gm)	5014
Wet Density (g/cm ³)	2.343
Dry Density (g/cm ³)	2.210
Proctor Density (g/cm ³)	2.195
Compaction %	100.7

Moisture Ratio After Compacted Mold	
Tare No.	18
Tare WT. (gm)	77.8
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	145.9
Wt. Water	4.1
Dry WT. (gm)	68.1
Moisture Content %	6.0

Swelling	
Mold No.	2
Date	15-5-2023
Initial Height (mm)	6.00
Final Height (mm)	6.00
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)	0.04	0.09	0.14	0.18	0.23	0.28	0.34	0.39	0.50
Load (KN)	1.2	2.7	4.2	5.4	6.9	8.4	10.2	11.7	15.0



Calculations :-

Pentration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % عند نسبة 98
2.50	5.40	13.4	40.4%	101	98	39.4%
5.00	11.70	20.0	58.4%			56.9%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :

mohamed elszaid
m.elszaid

17-5-2023

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		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Ahmed Rafaat			
QA/QC *	<i>Youssef Ragab</i>	<i>Youssef Ragab</i>		
GARB**				
Employers Representative				

**** Alignment / Bridges: Culvert Only**

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company		Designer Company	
Electric express train	AL-ANOUD AL ARABIA		k.k	
Issued by Contractor	Name	Sign	Date	Time
	Ahmed Raffat	Ahmed Raffat		
Contractor Reference	AN- (3) -13-5-2023			
Received by ER			MAR	
	C1	C2	C3	DD MM YY HH MM
				13 5 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 (525+500)			
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	14.1%	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.6	
6	ASTM D 1557	Modified proctor	2.169	
7	ASTM D 1883	CBR	50.23%	
Comments by:		Comments by:		
		الصلاحيه مقبول لطيف للاصهارات لا جبال كليه 500m		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Raffat	Ahmed Raffat		
Contractor QA/QC *	Youssef Ragab	Youssef Ragab		
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



Operating Lab Negida Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

Testing Date	09-05-23	code		From Station		TO Station
Location	K.P 525+500	AN-3	Zone	525+500		526+000
Company Name	Alanoud					

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials				SAMPLE WEIGHT [g]		8122.00	gm	table classify	
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	soil classify
Mass retained (g)	0.0	319.0	1302.0	577.0	886.0	560.0	822.0		A-1-a
Cumulative Retained (g)	0.0	319.0	1621.0	2198.0	3084.0	3644.0	4466.0	PRO	2.169
Cumulative Retained %	0.0	3.9	20.0	27.1	38.0	44.9	55.0	WC	7.6
Cumulative Passing %	100.0	96.1	80.0	72.9	62.0	55.1	45.0	CBR	50.23%

B-soft material gradation				WT.OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	53.00	188.00	343.00				
Cumulative Retained %	10.60	37.60	68.60				
Cumulative Passing %	89.40	62.40	31.40				

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	96.1	80.0	72.9	62.0	55.1	45.0	40.2	28.1	14.1

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

Contractor

Mohamed Hamed
2021
مشروع القطار السريع - فوكا - مطروح

Consultant

Youssef R. Rab



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



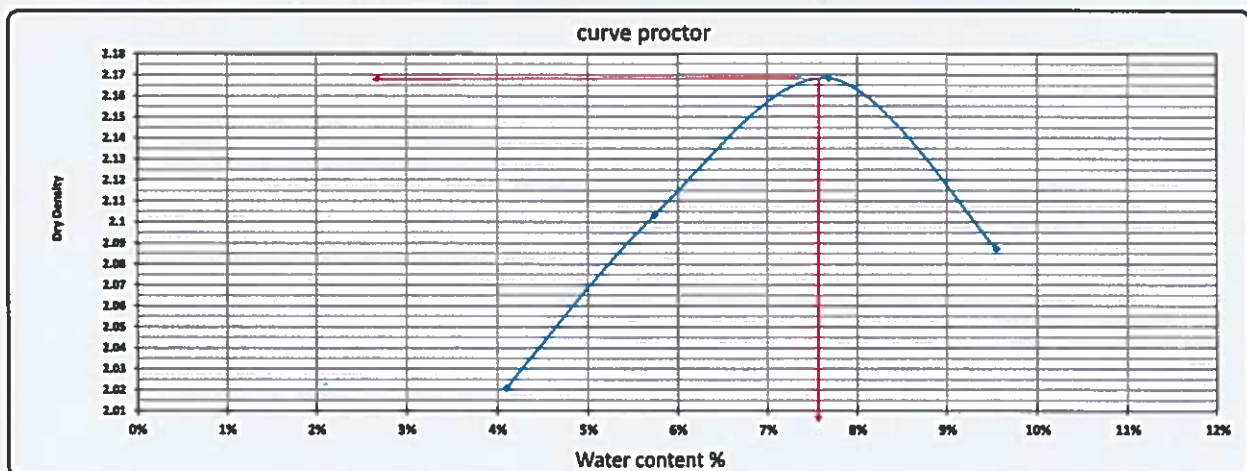
PROCTOR TEST

Testing Date	10-05-23	code	Zone	From Station	To Station
Location	K.P 525+500	AN-3		525+500	526+000
Alanoud	Alanoud				

Weight of empty mold	5807.0	MAX Dry Density	2.169
Mold Volume	2129.0	Water content %	7.6

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10285.0	10542.0	10778.0	10675	
WT. WET SOIL	4478.0	4735.0	4971.0	4868.0	
Wt. Density	2.103	2.224	2.335	2.287	

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	155.02	154.60	152.76	152.80	150.55	150.50	149.15	149.18		
Wt. Of water	5.0	5.4	7.2	7.2	9.4	9.5	10.9	10.8		
Wt. Of dry soil	126.0	127.8	124.7	126.9	123.8	122.9	113.7	113.4		
Water content %	3.95%	4.23%	5.81%	5.67%	7.63%	7.73%	9.55%	9.54%		
AV. Water content %	4.09%		5.74%		7.68%		9.54%			
Dry Density	2.021		2.103		2.168		2.087			



Contractor
Mohamed Hamed
مشروع القطار السريع / فوكة - مطروح

Consultant
Youssef Ragab

California Bearing Ratio TEST

Testing Date	13-5-2023	code	AN-3	From Station	525+500	To station	526+000
Location	K.P 525+500	Zone					
Company Name	Alnoud						

Test Results:

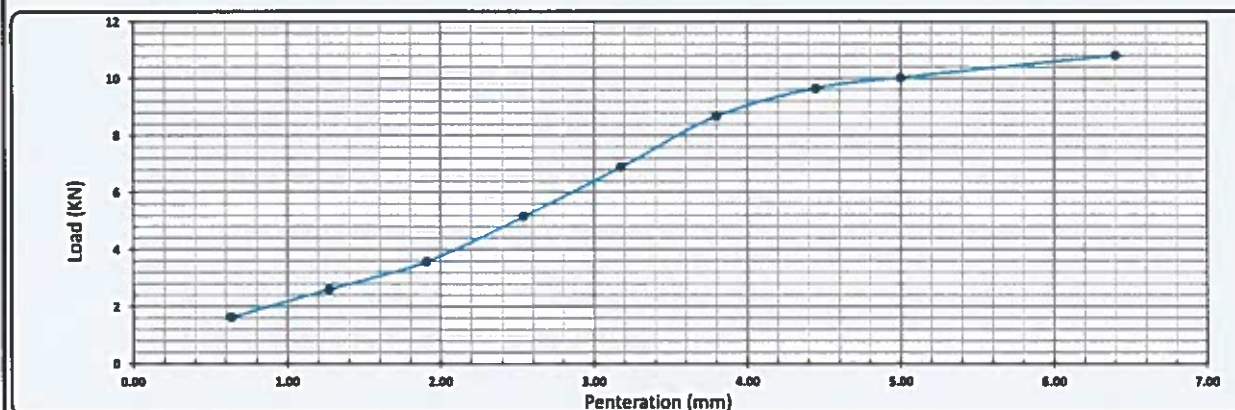
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2170
Mold WT. (gm)	7700
Mold WT. + Wet WT. (gm)	12650
Wet WT. (gm)	4950
Wet Density (g/cm ³)	2.281
Dry Density (g/cm ³)	2.119
Proctor Density (g/cm ³)	2.169
Compaction %	98

Moisture Ratio After Compacted Mold	
Tare No.	2
Tare WT. (gm)	35.76
Tare WT. + Wet WT. (gm)	169.76
Tare WT. + Dry WT. (gm)	160.21
Water WT. (gm)	9.5
Dry WT. (gm)	124.5
Moisture Content %	7.7

Swelling	
Mold No.	1
Date	13-5-2023
Initial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0.00
Sample Height (mm)	120.00
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)	166	265	365	527	703	885	985	1023	1103
Load (KN)	1.6	2.6	3.6	5.2	6.9	8.7	9.7	10.0	10.8



Calculations :-

Penteration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	عند نسبة 98
2.50	5.16	13.4	38.7%	98	98	38.8%
5.00	10.03	20.0	50.1%			50.2%

Lab. Specialist
 Name :
 Sign :

Lab. Engineer
 Name : Mohamed Hamed
 Sign :

Consultant Engineer
 Name :
 Sign : Youssif Rafab

MATERIAL INSPECTION REQUEST



Contractor Company	AL-ANOUD AL ARABIA			Designer Company	
Issued by Contractor	Name Eng/ Ahmed Rafaat	Sign 	Date	Time	
Received by ER			MIR	C1	C2
				C3	DD
				MM	YY
				HH	MM

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	From 525+760 to 525+820 (-5) From 525+740 to 525+840 (-4.5) From 525+640 to 525+660 (-5) From 525+500 to 525+580 (-3)				
MAR Approval No	AN-2		Date		
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & PL & O.M.C %	m3	5000	8-5-2023	
2	Proctor	m3	5000	8-5-2023	
3	Classification	m3	5000	8-5-2023	
4	Seive Anylysis	m3	5000	8-5-2023	
5	C.B.R	m3	5000	11-5-2023	
Comments by:		Comments by:			
		الصلاحيه مقبوله لبقا للاختبارات المرفقه لتجالي كمية حوالى ٥٠٠٠ م٣			

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

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company		Designer Company	
Electric express train	AL-ANOUD AL ARABIA		k.k	
Issued by Contractor	Name	Sign	Date	Time
	Ahmed Rafaat			
Contractor Reference	AN- (2) -8-5-2023			
Received by ER			MAR	

C1	C2	C3	DD	MM	YY	HH	MM

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 (525+500)			
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	12.7%	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	8	
6	ASTM D 1557	Modified proctor	2.175	
7	ASTM D 1883	CBR	56.53%	
Comments by:			Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Rafaat			
Contractor QA/QC *	Ahmed hamed			
GARB**				
Employers Representative				

- * Designer
- ** Alignment/Bridges: Culvert only

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ل.د. خالد فاضل	 HSR	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSА MATROUH From Station 504+000 To Station 568+177	 جمهورية مصر العربية الهيئة القومية للإنتفاق الهيئة العامة للنقل
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Operating Lab **Negida Central Lab**

PARTICLE SIZE DISTRIBUTION OF SOIL

Testing Date	08-05-23	code		From Station	TO Station
Location	K.P 525+500	AN-2	Zone	525+500	526+000
Company Name	Alanoud				

1-visual inspection test :-

2-Gradient test :-

A-gradation of bulk materials				SAMPLE WEIGHT [g]		11282.00		gm	table classify	
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	soil classify	
Mass retained (g)	327.0	838.0	1114.0	824.0	1194.0	663.0	1346.0		A-1-a	
Cumulative Retained (g)	327.0	836.0	1950.0	2774.0	3968.0	4631.0	5977.0		PRO	2.175
Cumulative Retained %	2.9	7.4	17.3	24.6	35.2	41.0	53.0		WC	8
Cumulative Passing %	97.1	92.6	82.7	75.4	64.8	59.0	47.0		CBR	56.53%

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	59.00	204.00	365.00					
Cumulative Retained %	11.80	40.80	73.00					
Cumulative Passing %	88.20	59.20	27.00					

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 %	97.1	92.6	82.7	75.4	64.8	59.0	47.0	41.5	27.8	12.7

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

Contractor

Consultant

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

Ahmed Mohamed



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



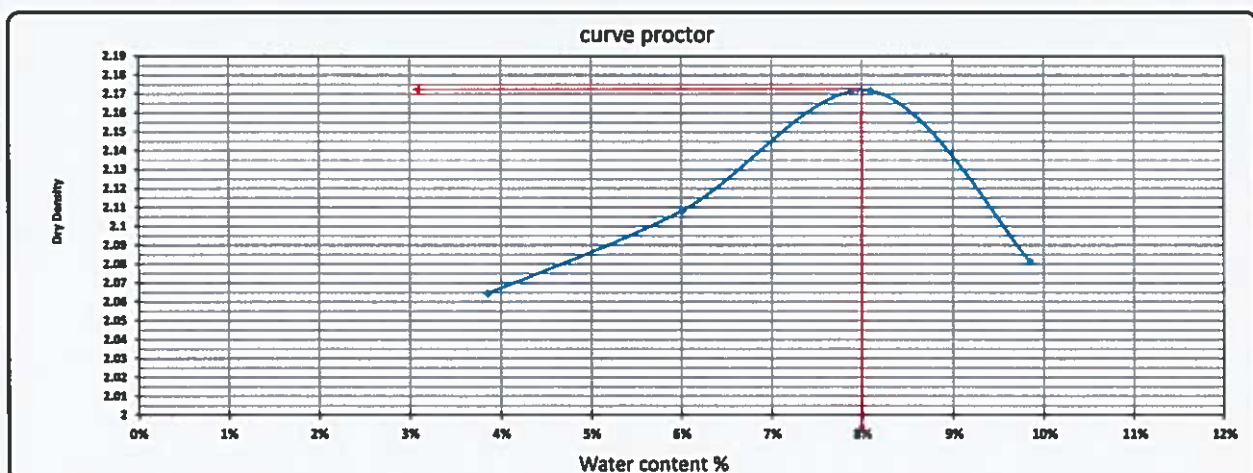
PROCTOR TEST

Testing Date	09-05-23	code	Zone	From Station	To Station
Location	K.P 525+500	AN-2		525+500	526+000
Alanoud	Alanoud				

Weight of empty mold	5810.0	MAX Dry Density	2.175
Mold Volume	2136.0	Water content %	8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10390.0	10585.0	10825.0	10694	
WT. WET SOIL	4580.0	4775.0	5015.0	4884.0	
Wt. Density	2.144	2.235	2.348	2.287	

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	155.20	155.00	152.60	152.30	150.20	149.90	149.00	148.70		
Wt. Of water	4.8	5.0	7.4	7.7	9.8	10.1	11.0	11.3		
Wt. Of dry soil	126.1	128.2	124.6	126.4	123.5	122.3	113.5	112.9		
Water content %	3.81%	3.90%	5.94%	6.09%	7.94%	8.26%	9.69%	10.01%		
AV. Water content %	3.85%	6.02%	8.10%	9.85%						
Dry Density	2.065	2.109	2.172	2.082						



Contractor

Consultant

شركة تجيلة للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكا - مطروح

Ahmed Mohamed

California Bearing Ratio TEST

Testing Date	11-5-2023	code	Zone	From Station	To station
Location	K.P 525+500	AN-2		525+500	526+000
Company Name	Alanoud				

Test Results:

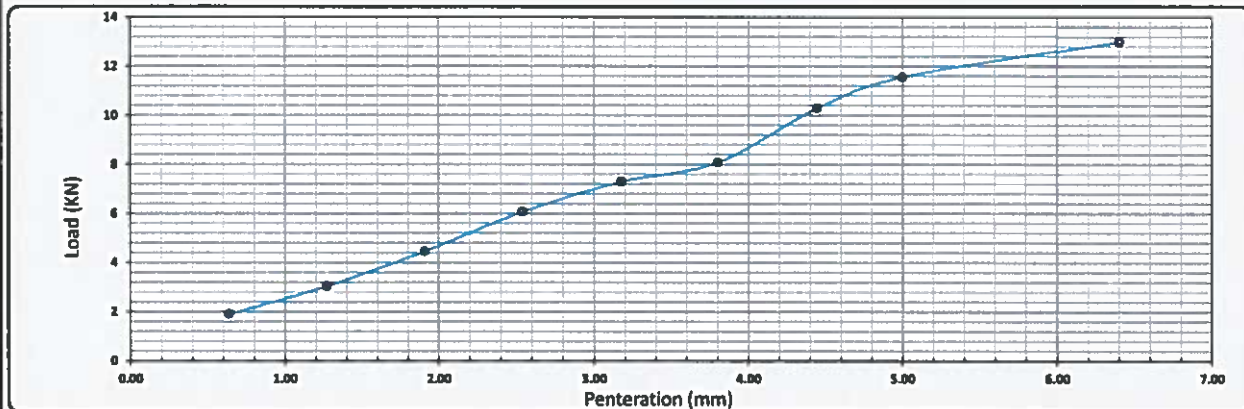
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2120
Mold WT. (gm)	8056
Mold WT. + Wet WT. (gm)	13040
Wet WT. (gm)	4984
Wet Density (g/cm ³)	2.351
Dry Density (g/cm ³)	2.178
Proctor Density (g/cm ³)	2.175
Compaction %	100

Mositure Ratio After Compacted Mold	
Tare No.	5
Tare WT. (gm)	35.35
Tare WT. +Wet WT. (gm)	269.9
Tare WT. +Dry WT. (gm)	252.6
Water WT. (gm)	17.3
Dry WT. (gm)	217.3
Moisture Content %	8.0

Swelling	
Mold No.	2
Date	10-5-2023
Intial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0.00
Sample Height (mm)	120.00
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)	195	311	455	620	745	825	1050	1180	1326
Load (KN)	1.9	3.0	4.5	6.1	7.3	8.1	10.3	11.6	13.0



Calculations :-

Penteration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	عند نسبة 98
2.50	6.08	13.4	45.5%	100	98	44.6%
5.00	11.56	20.0	57.7%			56.5%

Lab. Specialist
Name :
Sign :

Lab. Engineer
Name :
Sign :

Consultant Engineer
Name : Ahmed hamed
Sign : Ahmed hamed

شركة ايجيلا للهندسة
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

MATERIAL INSPECTION REQUEST



Contractor Company	AL-ANOUD AL ARABIA			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Ahmed Rafaat	<i>Ahmed</i>									
Received by ER			MIR	C1	C2	C3	DD	MM	YY	HH	MM

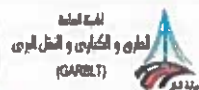
CODE - 1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp XXX Note For Kilometer point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

Description of Materials	REPLACEMENT FILL MATERIAL RESULTS				
Location to be Used	From 525+520 to 525+580 (-3.5) From 525+660 to 525+760 (-5) From 525+760 to 525+820 (-5.5) From 525+820 to 525+840 (-5) From 525+600 to 525+620 (-6.5) From 525+640 to 525+660 (-5.5)				
MAR Approval No	AD-1			Date	
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & PL & O.M.C %	m3	5000	12-4-2023	
2	Proctor	m3	5000	12-4-2023	
3	Classification	m3	5000	12-4-2023	
4	Seive Anylasis	m3	5000	12-4-2023	
5	C.B.R	m3	5000	14-4-2023	
Comments by:			Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Ahmed Rafaat	<i>Ahmed</i>		
QA/QC *	Hassan	<i>Hassan</i>		
GARB**				
Employers Representative				

* Designer
** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company		Designer Company							
Electric express train	AL-ANOUD AL ARABIA		k.k							
Issued by Contractor	Name	Sign	Date	Time						
	Eng/Ahmed Rafaat									
Contractor Reference	AD- (1) - 12-4-2023									
Received by ER			MAR							
			C1	C2	C3	DD	MM	YY	HH	MM

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 (525+500)			
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	14.1%	
4	ASTM D 4318	Atterberg limit	2.8	
5	ASTM D 2974	Moisture content	7.5	
6	ASTM D 1557	Modified proctor	2.16	
7	ASTM D 1883	CBR	58.80%	
Comments by:		Comments by:		

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

* Designer

** Alignment/Bridges: Culvert only

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	12-4-2023	Code	zone	525+500	526+000
LOCATION	K.P (525+500)	AD (1)			
NAME COMPANY	AL Anoud				

1-visual inspection test

2-Gradient test

1-gradation of bulk materials				SAMPLE WEIGHT [g]		20027.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	0.0	1752.0	1563.0	1860.0	2521.0	2365.0	2531.0		A-1-a
Cumulative Retained (g)	0.0	1752.0	3315.0	5175.0	7696.0	10061.0	12592.0		PRO 2.16
Cumulative Retained %	0.0	8.7	16.6	25.8	38.4	50.2	62.9		WC 7.50
Cumulative Passing %	100.0	91.3	83.4	74.2	61.6	49.8	37.1		CBR 58.80

3-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	56.00	146.00	310.00					
Cumulative Retained %	11.20	29.20	62.00					
Cumulative Passing %	88.80	70.80	38.00					

2-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	83.4	74.2	61.6	49.8	37.1	33.0	26.3	14.1

ATTERBERG LIMITS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	24.5%	21.6%	2.8%

Contractor

Consultant

Hassan



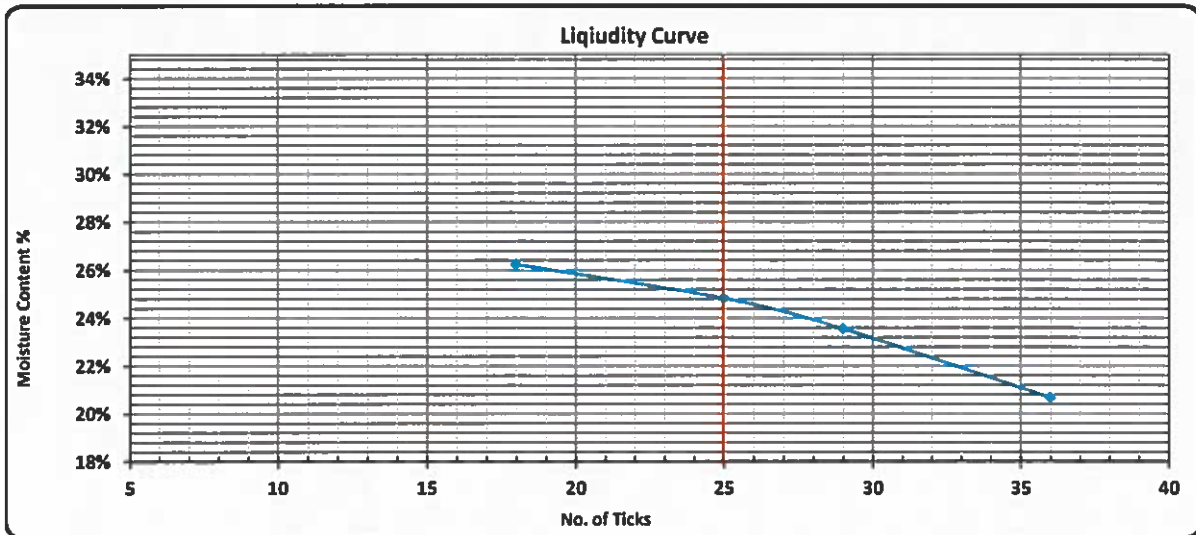
	Electric Express Train - HSR	
Operating Lab	AL Nuby Central Lab	

Plasticity and Liquidity Test -Atterberg Limits

:Testing Date	12-4-2023	:Code	Zone	525+500	526+000
:Location	K.P (525+500)	AD (1)			
:.Layer No	AL Anoud				

:- Testing Results

Test	Liqud Limit				Plastic Limit	
No. of Ticks	18	25	29	36	-	-
Tare No.	34	36	33	37	7	21
Tare WT. (gm)	81.10	80.40	78.80	79.40	42.20	53.90
Tare WT. + Wet WT. (gm)	113.30	103.00	100.80	99.80	44.50	56.10
Tare WT. + Dry WT. (gm)	106.60	98.50	96.60	96.30	44.1	55.70
Water WT. (gm)	6.70	4.50	4.20	3.50	0.40	0.40
Dry WT. (gm)	25.50	18.10	17.80	16.90	1.90	1.80
Moisture Content %	26.3%	24.9%	23.6%	20.7%	21.1%	22.2%
Average %					21.6%	



L.L	P.L	P.I
24.5%	21.6%	2.8%

Lab. Specialist Name : Sign :	Lab. Engineer Name : Sign :	Consultant Engineer Name : Sign :
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Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 7 From FOKA TO MARSA MATROUH
From Station 504+000 To Station 568+177



PROCTOR TEST

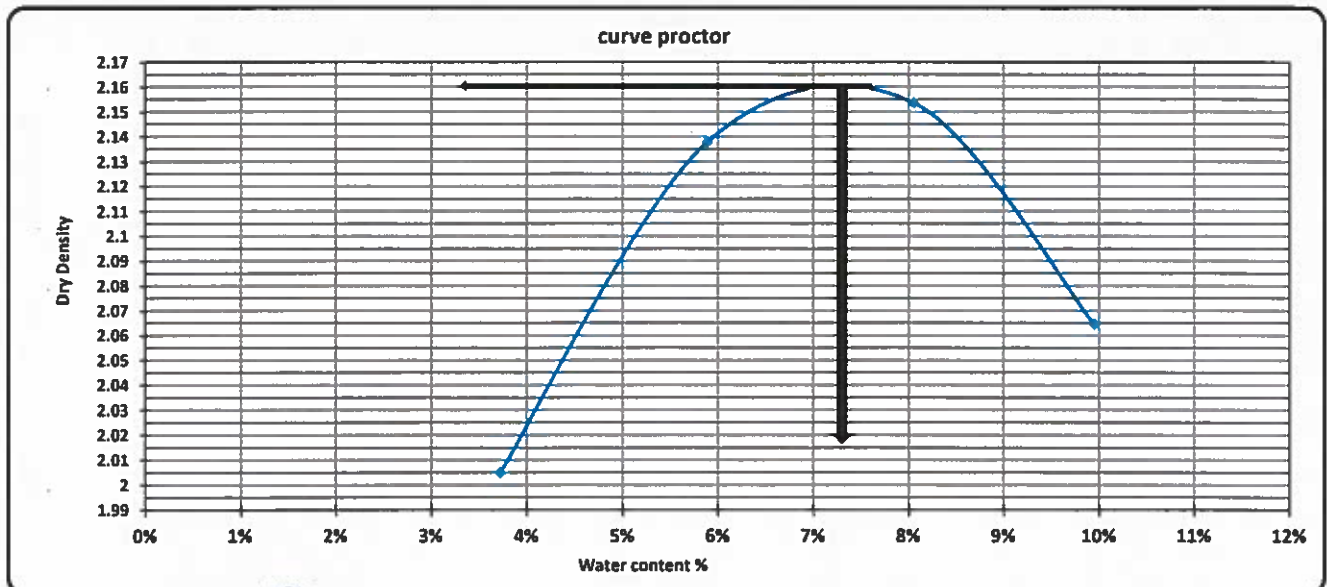
TESTING DATE:	12-4-2023	Code	zone	525+500	526+000
LOCATION	K.P (525+500)	AD (1)			
NAME COMPANY	AL Anoud				

Weight of empty mold :	6037.0
Mold Volume:	2113.0

MAX Dry Density	2.16
Water content %	7.5

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10432.0	10821.0	10955.0	10834	
WT. WET SOIL	4395.0	4784.0	4918.0	4797.0	
Wt. Density	2.080	2.264	2.327	2.270	

Tare No.	17	16	7	4	45	8	21	33		
Tare wt.	54.7	33.3	43	59.1	41.4	46.7	55.2	73.6		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	146.5	145.9	144.1	144.9	141.9	142.3	141.4	143.1		
Wt. Of water	3.5	4.1	5.9	5.1	8.1	7.7	8.6	6.9		
Wt. Of dry soil	91.8	112.6	101.1	85.8	100.5	95.6	86.2	69.5		
Water content %	3.8%	3.6%	5.8%	5.9%	8.1%	8.1%	10.0%	9.9%		
AV. Water content %	3.7%		5.9%		8.1%		10.0%			
Dry Density	2.005		2.138		2.154		2.065			



Contractor

(Signature and Stamp)

Consultant

(Signature)

California Bearing Ratio TEST

Testing Date :	14-4-2023	Code	FROM STA :	525+500	526+000
Location :	K.P (525+500)	AD (1)			
Company Name	AL Anoud				

- : Test Results

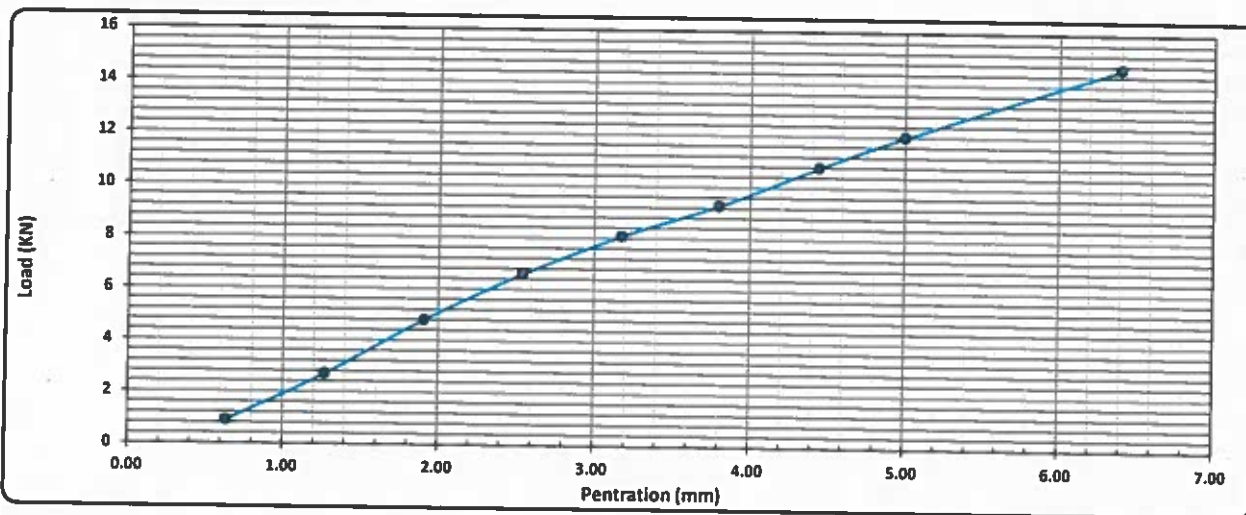
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2168
Mold WT. (gm)	5089
Mold WT. + Wet WT. (gm)	10140
Wet WT. (gm)	5051
Wet Density (g/cm ³)	2.330
Dry Density (g/cm ³)	2.158
Proctor Density (g/cm ³)	2.160
Compaction %	99.9

Mositure Ratio After Compacted Mold	
Tare No.	17
Tare WT. (gm)	46.7
Tare WT. +Wet WT. (gm)	150
Tare WT. +Dry WT. (gm)	142.4
Wt. Water	7.6
Dry WT. (gm)	95.7
Moisture Content %	7.9

Swelling	
Mold No.	2
Date	14-4-2023
Intial Height (mm)	4.00
Final Height (mm)	4.00
Difference	0
Sample Height (mm)	120.00
Swelling Ratio %	0.0%

Loading Reading :

Pentration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (mm)	0.03	0.09	0.16	0.22	0.27	0.31	0.36	0.40	0.49
Load (KN)	0.9	2.7	4.8	6.6	8.1	9.3	10.8	12.0	14.7



Calculations : -

Pentration (mm)	Load (Kn)	Standard Load (Ib)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % عند نسبة 98
2.50	6.60	13.4	49.4%	100	98	48.5%
5.00	12.00	20.0	59.9%			58.8%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :