الهيئة العامة
للطرق و الكباري
(GARB)

محضر استلام موقع

مشروع: أعمال الجسر الترابى لمسار القطار الكهربائي السريع الخط الاول (العين السخنة - مطروح) قطاع (فوكة/ مطروح) لتنفيذ المسافة من الكم 532+000 الى الكم 533+000 بطول 1 كم اتجاة راس الحكمة

تنفيذ: شركة اعمار للاستثمار العقاري والمقاولات العامة.

إشراف : المنطقة الخامسة – منطقة غرب الدلتا

طبقاً للعقد رقم (2024/2023/376) بتاريخ 2023/09/13

إنه في يوم الاربعاء الموافق2023/9/27 اجتمع كل من:-

1- السيد المهندس / محمد حسنى فياض — مدير عام المشروعات - الهيئة العامة للطرق والكباري

2- السيد المهندس /ابراهيم عبدالله الحناوى — مدير مشروع العملية - الهيئة العامة للطرق والكباري

3- السيد المهندس/ محمد فتحى غريب — مدير مشروع-شركة إعمار للاستثمار العقاري والمقاولات العامة

وذلك للمرور على مسار العملية المذكورة عاليه لاستلام الموقع :-

وقد تبين أن الموقع خالياً من العوائق الظاهرية ويسمح بالبدء في التنفيذ وبناء عليه يعتبر تاريخ 2023/9/27 هو تاريخ استلام الموقع وبدء الأعمال بالعملية

واقفل المحضر على ذلك ووقع الحضور

التوقيعات

3- محمد غريب

2-

1-

رئيس الإدارة المركزية
منطقة غرب الدلتا
الاسكندرية - مرسى مطروح
عميد . مهندس /
"هاني محمد محمود طه"

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

Opreating Lab	AL Nuby Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	26-2-2023	Code	zone	532+000	533+000
LOCATION	K,P (532+700)	MR (7)			
NAME COMPANY	Ammar				

1-visual inspection test .....

.....

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		21259.00		gm		table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS		soil classify
Mass retained (g)	0.0	2452.0	2352.0	1950.0	1896.0	2321.0	2352.0			A-1-a
Cumulative Retained (g)	0.0	2452.0	4804.0	6754.0	8650.0	10971.0	13323.0		PRO	2.17
Cumulative Retained %	0.0	11.5	22.6	31.8	40.7	51.6	62.7		WC	6.80
Cumulative Passing %	100.0	88.5	77.4	68.2	59.3	48.4	37.3		CBR	55.90

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	38.00	142.50	368.00					
Cumulative Retained %	7.60	28.50	73.60					
Cumulative Passing %	92.40	71.50	26.40					

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	88.5	77.4	68.2	59.3	48.4	37.3	34.5	26.7	9.9

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

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

PROCTOR TEST

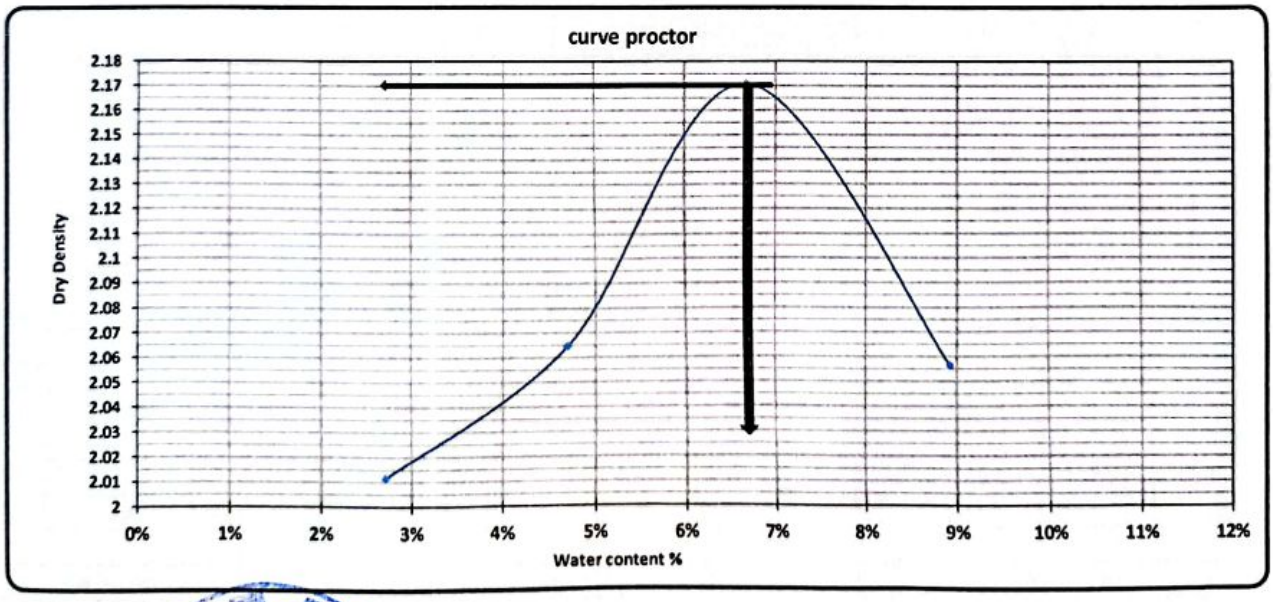
TESTING DATE:	26-2-2023	Code	zone	532+000	533+000
LOCATION	K,P (532+700)	MR (7)			
NAME COMPANY	Ammar				

Weight of empty mold :	5764.0
Mold Volume:	2169.0

MAX Dry Density	2.17
Water content %	6.8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10245.0	10452.0	10787.0	10622	
WT. WET SOIL	4481.0	4688.0	5023.0	4858.0	
Wt. Density	2.066	2.161	2.316	2.240	

Tare No.	20	18	45	19	32	90	11	26		
Tare wt.	60.9	77.7	41.5	44.4	74.4	62.5	46.1	55		
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	143.1	145.2	145.2	145.2	144.6	141.5	142.2		
Wt. Of water	3.5	6.9	4.8	4.8	4.8	5.4	8.5	7.8		
Wt. Of dry soil	123.0	267.8	103.7	100.8	70.8	82.1	95.4	87.2		
Water content %	2.8%	2.6%	4.6%	4.8%	6.8%	6.6%	8.9%	8.9%		
AV.Water content %	2.7%		4.7%		6.7%		8.9%			
Dry Density	2.011		2.064		2.171		2.056			



Contractor

Consultant

Electric Express Train - HSR

Opreating Lab: AL Nuby Central Lab

California Bearing Ratio TEST

Testing Date :	26-2-2023	Code			
Location :	K.P (532+700)	MR (7)	FROM STA :	532+000	533+000
Company Name	Ammar				

-: Test Results

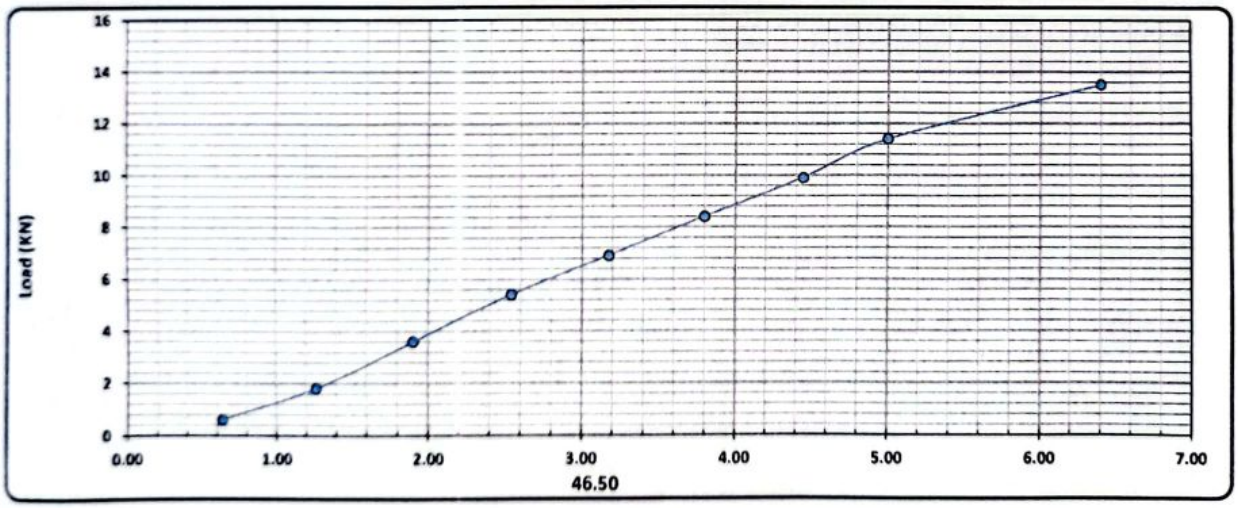
Compaction % for Mold	
Mold No.	8
Mold Vol. (cm^3)	2122
Mold WT. (gm)	4803
Mold WT. + Wet WT. (gm)	9711
Wet WT. (gm)	4908
Wet Density (g/cm^3)	2.313
Dry Density (g/cm^3)	2.166
Proctor Density (g/cm^3)	2.170
Compaction %	99.8

Mositure Ratio After Compacted Mold	
Tare No.	17
Tare WT. (gm)	54.2
Tare WT. +Wet WT. (gm)	150
Tare WT. +Dry WT. (gm)	143.9
3398	6.1
Dry WT. (gm)	89.7
Moisture Content %	6.8

Swelling	
Mold No.	5
Date	26-2-2023
Intial Height (mm)	5.00
Final Height (mm)	5.15
Difference	0
Sample Height (mm)	120.00
Swelling Ratio %	0.1%

Loading Reading :

46.50	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (mm)	0.02	0.06	0.12	0.18	0.23	0.28	0.33	0.38	0.45
Load (KN)	0.6	1.8	3.6	5.4	6.9	8.4	9.9	11.4	13.5



Calculations : -

Penteration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR عند نسبة 98 %
2.50	5.40	13.4	40.4%	100	98	39.7%
5.00	11.40	20.0	56.9%			55.9%

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

ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د خالد فديل	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

Opreating Lab | AL Nuby Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	1-3-2023	Code	zone	532+000	533+000
LOCATION	K,P (532+700)	MR (8)			
NAME COMPANY	Ammar				

1-visual inspection test .....

.....

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		21748.00		gm		table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS		soil classify
Mass retained (g)	0.0	2352.0	2254.0	2142.0	1547.0	2142.0	2502.0			A-1-a
Cumulative Retained (g)	0.0	2352.0	4606.0	6748.0	8295.0	10437.0	12939.0		PRO	2.14
Cumulative Retained %	0.0	10.8	21.2	31.0	38.1	48.0	59.5		WC	7.50
Cumulative Passing %	100.0	89.2	78.8	69.0	61.9	52.0	40.5		CBR	

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	57.00	173.00	378.00					
Cumulative Retained %	11.40	34.60	75.60					
Cumulative Passing %	88.60	65.40	24.40					

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	89.2	78.8	69.0	61.9	52.0	40.5	35.9	26.5	9.9

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

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

PROCTOR TEST

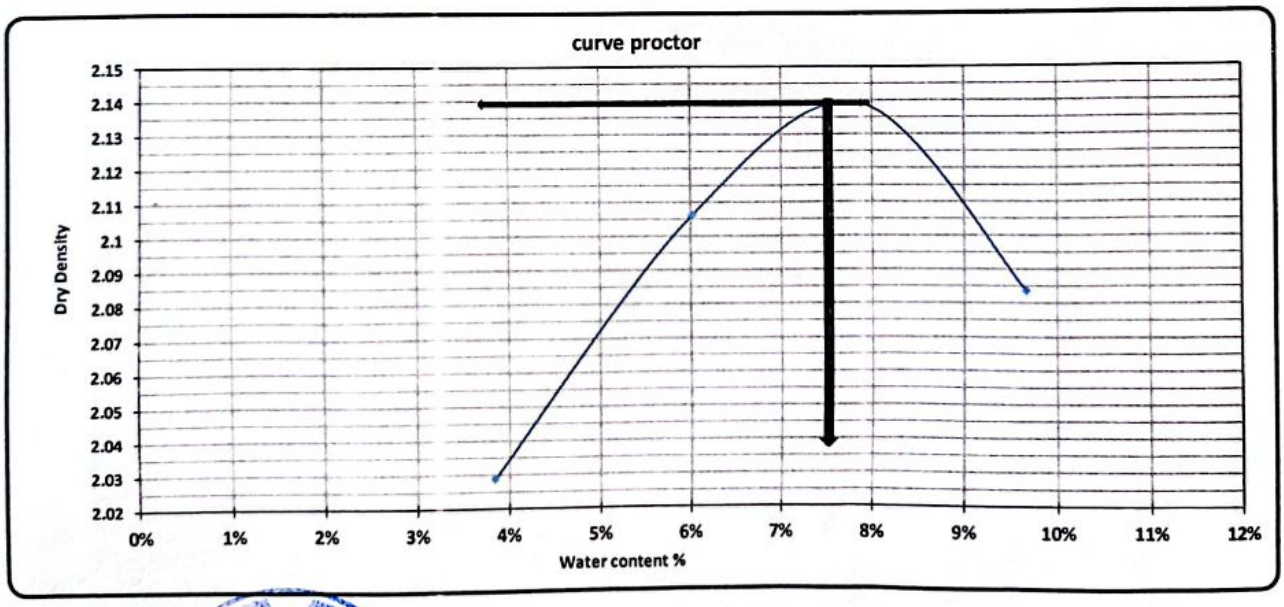
TESTING DATE:	1-3-2023	Code	zone	532+000	533+000
LOCATION	K.P (532+700)	MR (8)			
NAME COMPANY	Ammar				

Weight of empty mold :	6034.0
Mold Volume:	2113.0

MAX Dry Density	2.14
Water content %	7.5

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10485.0	10752.0	10910.0	10862	
WT. WET SOIL	4451.0	4718.0	4876.0	4828.0	
Wt. Density	2.106	2.233	2.308	2.285	

Tare No.	40	16	23	20	32	10	15	26		
Tare wt.	46.4	33.9	54.1	60.9	74.4	43.7	31.9	55		
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	145.1	140.1	144.6	144.9	144.5	142.2	139.5	141.7		
Wt. Of water	4.9	9.9	5.4	5.1	5.5	7.8	10.5	8.3		
Wt. Of dry soil	123.0	267.8	90.5	84.0	70.1	98.5	107.6	86.7		
Water content %	4.0%	3.7%	6.0%	6.1%	7.8%	7.9%	9.8%	9.6%		
AV.Water content %	3.8%		6.0%		7.9%		9.7%			
Dry Density	2.029		2.106		2.139		2.084			



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 604+000 To Station 668+177

Opreating Lab | Al Nuby Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE	9-2-2023	code	ZONE	532+000	533+000
LOCATION	K.P (532+500)	M R (6)			
NAME COMPANY	Ammar				

1-visual inspection test .....

.....

2-Gradient test

A-gradation of bulk materials

				SAMPLE WEIGHT [g]		24401.00		gm		table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS		soil classify
Mass retained (g)	0.0	2330.0	2352.0	2252.0	2145.0	2152.0	1986.0			A-1-b
Cumulative Retained (g)	0.0	2330.0	4682.0	6934.0	9079.0	11231.0	13216.0		PRO	2.13
Cumulative Retained %	0.0	9.5	19.2	28.4	37.2	46.0	54.2		WC	6.70
Cumulative Passing %	100.0	90.5	80.8	71.6	62.8	54.0	45.8		CBR	58.70

B-soft material gradation

				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	33.00	167.00	366.00					
Cumulative Retained %	6.60	33.40	73.20					
Cumulative Passing %	93.40	66.60	26.80					

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	90.5	80.8	71.6	62.8	54.0	45.8	42.8	30.5	12.3

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

Contractor

Consultant

المختبر المركزي
معمل النوبي المركزي
قطاع موكا - مطروح

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 868+177

PROCTOR TEST

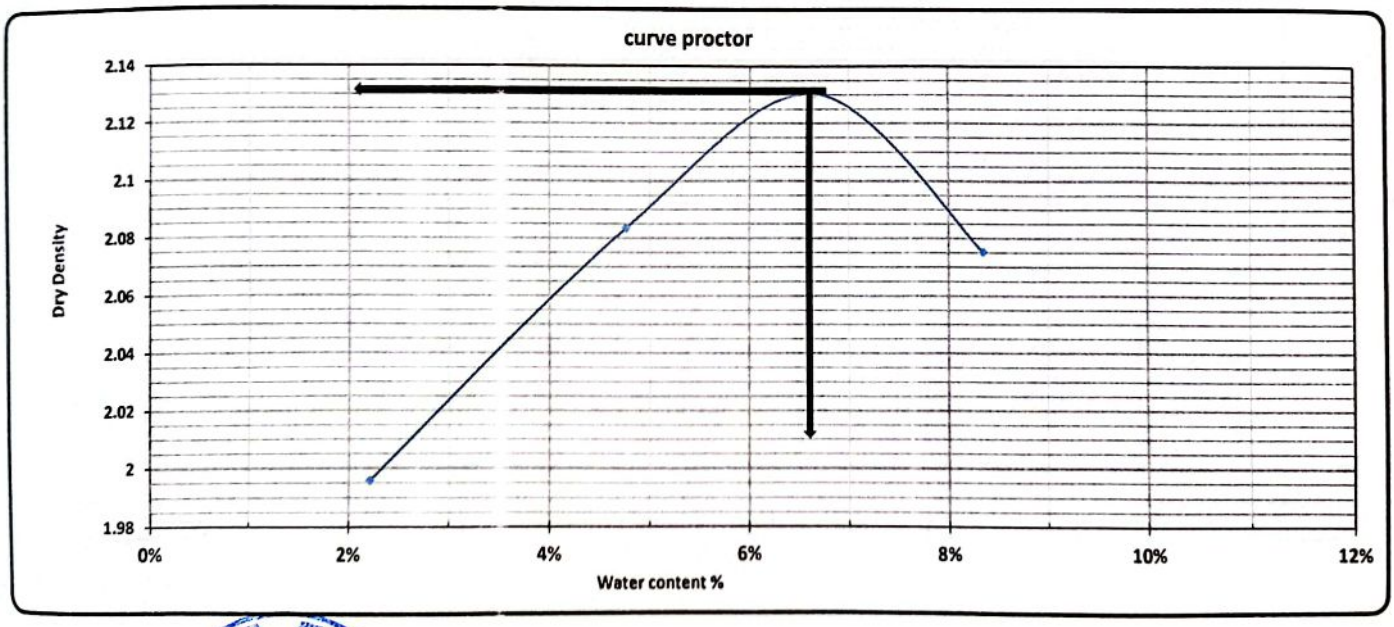
TESTING DATE	9-2-2023	code	ZONE	532+000	533+000
LOCATION	K.P (532+500)	M R (6)			
NAME COMPANY	Ammar				

Weight of empty mold :	6062.0
Mold Volume:	2103.0

MAX Dry Density	2.13
Water content %	6.7

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10352.0	10652.0	10840.0	10790	
WT. WET SOIL	4290.0	4590.0	4778.0	4728.0	
Wt. Density	2.040	2.183	2.272	2.248	

Tare No.	32	21	26	4	8	15	20	8		
Tare wt.	74.4	55.2	55	60.1	46.8	31.9	60.9	46.8		
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	148.4	147.9	145.7	145.9	143.5	142.7	143.1	142.1		
Wt. Of water	1.6	2.1	4.3	4.1	6.5	7.3	6.9	7.9		
Wt. Of dry soil	74.0	92.7	90.7	85.8	96.7	110.8	82.2	95.3		
Water content %	2.2%	2.3%	4.7%	4.8%	6.7%	6.6%	8.4%	8.3%		
AV.Water content %	2.2%		4.8%		6.7%		8.3%			
Dry Density	1.996		2.083		2.130		2.075			



Contractor

Consultant

Electric Express Train - HSR

California Bearing Ratio TEST

Testing Date :	12-2-2023	Code	FROM STA :	532+000	٠٠٠+٥٣٢
Location :	K.P (532+500)	M R (8)			
Company name	Ammar				

:: Test Results

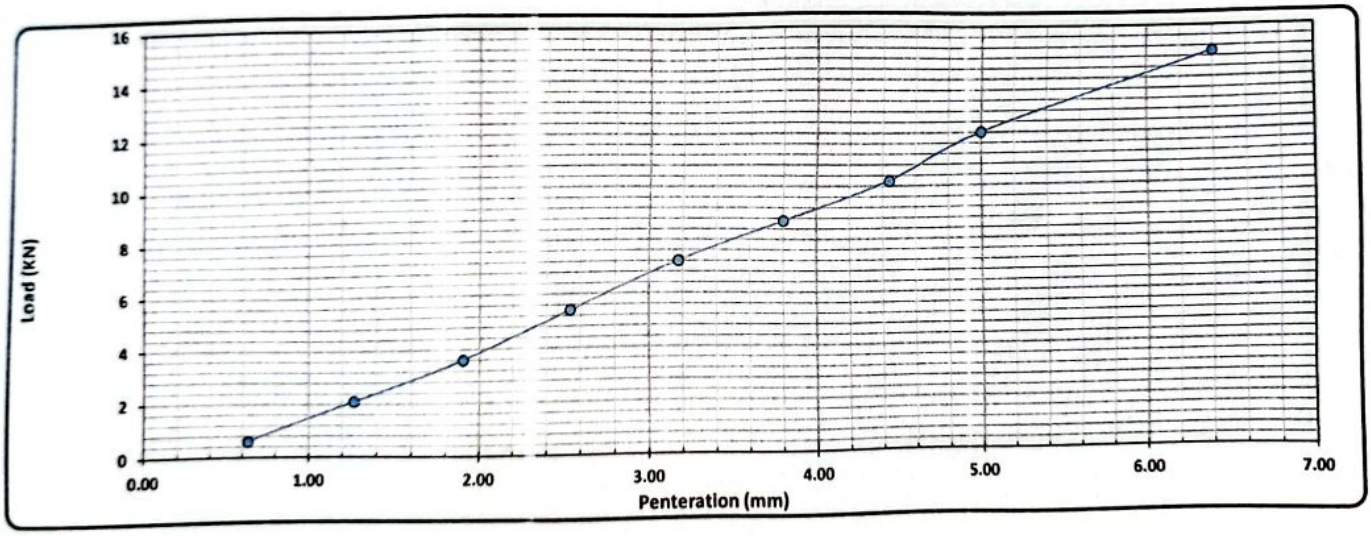
Compaction % for Mold	
Mold No.	4
Mold Vol.(cm^3)	2140
Mold WT. (gm)	4900
Mold WT. + Wet WT. (gm)	9760
Wet WT. (gm)	4860
Wet Density (g/cm^3)	2.271
Dry Density (g/cm^3)	2.131
Proctor Density (g/cm^3)	2.130
Compaction %	100.0

Mositure Ratio After Compacted Mold	
Tare No.	20
Tare WT. (gm)	60.9
Tare WT. +Wet WT. (gm)	150
Tare WT. +Dry WT. (gm)	144.5
Water WT. (gm)	5.5
Dry WT. (gm)	83.6
Moisture Content %	6.6

Swelling	
Mold No.	4
Date	12-2-2023
Intial Height (mm)	8.00
Final Height (mm)	8.10
Difference	0
Sample Height (mm)	120.00
Swelling Ratio %	0.1%

Loading Reading :

Penteration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (mm)	0.02	0.07	0.12	0.18	0.24	0.29	0.34	0.40	0.50
Load (KN)	0.6	2.1	3.6	5.4	7.2	8.7	10.2	12.0	15.0



Calculations :-

Penteration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	% عند نسبة ٩٨
2.50	5.40	13.4	40.4%	100	98	39.6%
5.00	12.00	20.0	59.9%			58.7%

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