

MATERIAL APPROVAL REQUEST



Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar	<i>[Signature]</i>	3-2-2023								
Contractor reference	MB-(6) 3-2-2023										
Received by ER			MAR	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	Soil (A-1-a)		
Location to be Used	K.p (558)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TO SPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 11.5% ATTEBERG LIMIT N.P MOISTURE CONTENT 6.6% MODIFIED PROCTOR 2.14 CBR 45%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Omar	<i>[Signature]</i>		
QA/QC *	Ahmed Abo Zaid	<i>[Signature]</i>	3/2/2023	
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

MATERIAL INSPECTION REQUEST



Contractor Company	Magdy Bekhet			Designer Company	
Issued by Contractor	Name	Sign	Date	Time	
	Eng/ Omar		3-2-2023		
Contractor reference	MB-(6) 3-2-2023				
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	Soil (A-1-a)				
Location to be Used	From	To	Level		
	558+100	558+180	-0.75		
	557+700	557+800	-8.50		
	558+280	558+340	-3.00		
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	M3	5000		
2	CLSSIFICATION	M3	5000		
3	PROCTOR & O.M.C	M3	5000		
4	L.L & P.L & PI	M3	5000		
5	C.B.R	M3	5000		
Comments by:			Comments by:		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Eng/ Omar				
QA/QC *	Ahmed Abu Zaid		3/2/23		
GARB**					
Employers Representative					

* Designer

** Alignment / Bridges: Culvert Only

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد قنديل	 SVS/SA SHAKER	Electric Express Train - HSR		 الهيئة العامة للنقل الهيئة العامة للنقل (GHELT)
		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				

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	2/2/2023	code			
LOCATION	k.p 558+000			ZONE	557+500
NAME COMPANY	Magdi bkheet	MB- 6			559+000

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		18100.00		gm	table classify	
sieve size	2	1 1/2	1	3/4	1/2	3/8	# 4	PASS	soil classify	
(g)Mass retained	0.0	2743.0	3232.0	1685.0	967.0	392.0	1628.0		A-1-a	
(g)Cumulative Retained	0.0	2743.0	5975.0	7660.0	8627.0	9019.0	10647.0		PRO	2.140
Cumulative Retained %	0.0	15.2	33.0	42.3	47.7	49.8	58.8		WC	6.6%
Cumulative Passing %	100.0	84.8	67.0	57.7	52.3	50.2	41.2		CBR	45%

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
(g)Cumulative Retained	30.00	252.50	360.00					
Cumulative Retained %	6.00	50.50	72.12					
Cumulative Passing %	94.00	49.50	27.88					

C-General gradient										
(in)sieve size	5	4.0	3	1 1/2	3/4	3/8	# 4	# 10	# 40	# 200
(mm)sieve size	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	84.8	67.0	57.7	52.3	50.2	41.2	38.7	20.4	11.5

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

Contractor

operate

Consultant

المعمل المركزي
شركة جمعه بدر نوح

Gomaa badr lab

[Signature]

 ENGINEERING CONSULTANTS OFFICE مكتب الاستشارات الهندسية أ.د. خالد كركسي	 SVS TRA شركة س. في. س. ت. ر. ا	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 563+177	 الهيئة العامة للطرق والكباري والجسور (GARBLT)  الهيئة القومية للتونان NATIONAL AUTHORITY FOR TUNNELS
---	---	---	---

PROCTOR TEST

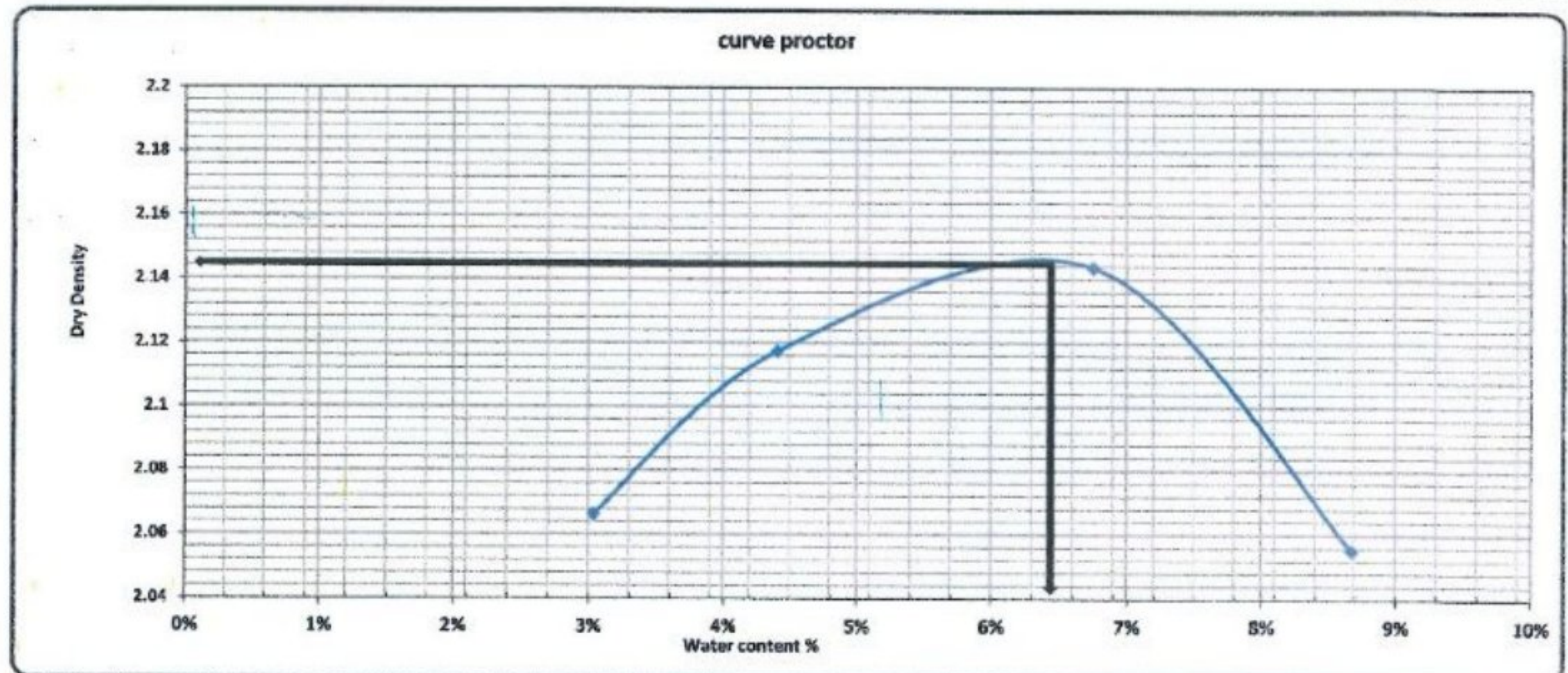
TESTING DATE:	2/2/2023	code	ZONE	557+500	559+000
LOCATION:	k.p 558+000	MB- 6			
NAME COMPANY:	Magdi bkheet				

Weight of empty mold :	6212.0
Mold Volume:	2104.9

MAX Dry Density	2.140
Water content %	6.60

trial no :	1	2	3	4		
Wt. Of Mold+ wet soil	10702.0	10874.0	11038.0	10922		
WT. WET SOIL	4490.0	4662.0	4826.0	4710.0		
Wt. Density	2.133	2.215	2.293	2.238		

Tare No.	10	10	11	11	16	16	30	30				
Tare wt.	27.09	27.09	25.79	25.79	23.03	23.03	27.36	27.36				
Wt. Of wet soil & tare	111.5	111.5	153.8	153.8	134.1	134.1	137.6	137.6				
Wt. Of dry soil & tare	108.82	108.82	148.12	148.12	126.9	126.9	128.6	128.6				
Wt. Of water	2.7	2.7	5.6	5.6	7.2	7.2	9.0	9.0				
Wt. Of dry soil	81.7	81.7	122.3	122.3	103.9	103.9	101.2	101.2				
Water content %	3.2%	3.2%	4.6%	4.6%	7.0%	7.0%	8.9%	8.9%				
AV. Water content %	3.2%		4.6%		7.0%		8.9%					
Dry Density	2.066		2.117		2.144		2.055					



Contractor

المعمل المركزي
شركة جمعه بدر نوح

operate

Gomaa badr lab

Consultant

[Signature]

 K.K. CONSULTING OFFICE المكتب الاستشاري الهندسي ل.د. خالد كوكب	 SVSCRA شركة ص.م.ع.م.	Electric Express Train - HSR	 الهيئة العامة للإعانة وزارة النقل والبنية التحتية (DART)
--	-----------------------------	-------------------------------------	--

California Bearing Ratio TEST

Testing Date :	4/2/2023	Code	ZONE	557+500	559+000
Location :	k.p 558+000	MB -6			
Name Company	Magdi bkheet				

Test Results

Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2177.5
Mold WT. (gm)	16444
Mold WT. + Wet WT. (gm)	21311
Wet WT. (gm)	4867
Wet Density (g/cm ³)	2.235
Dry Density (g/cm ³)	2.106
Proctor Density (g/cm ³)	2.140
Compaction %	98.4

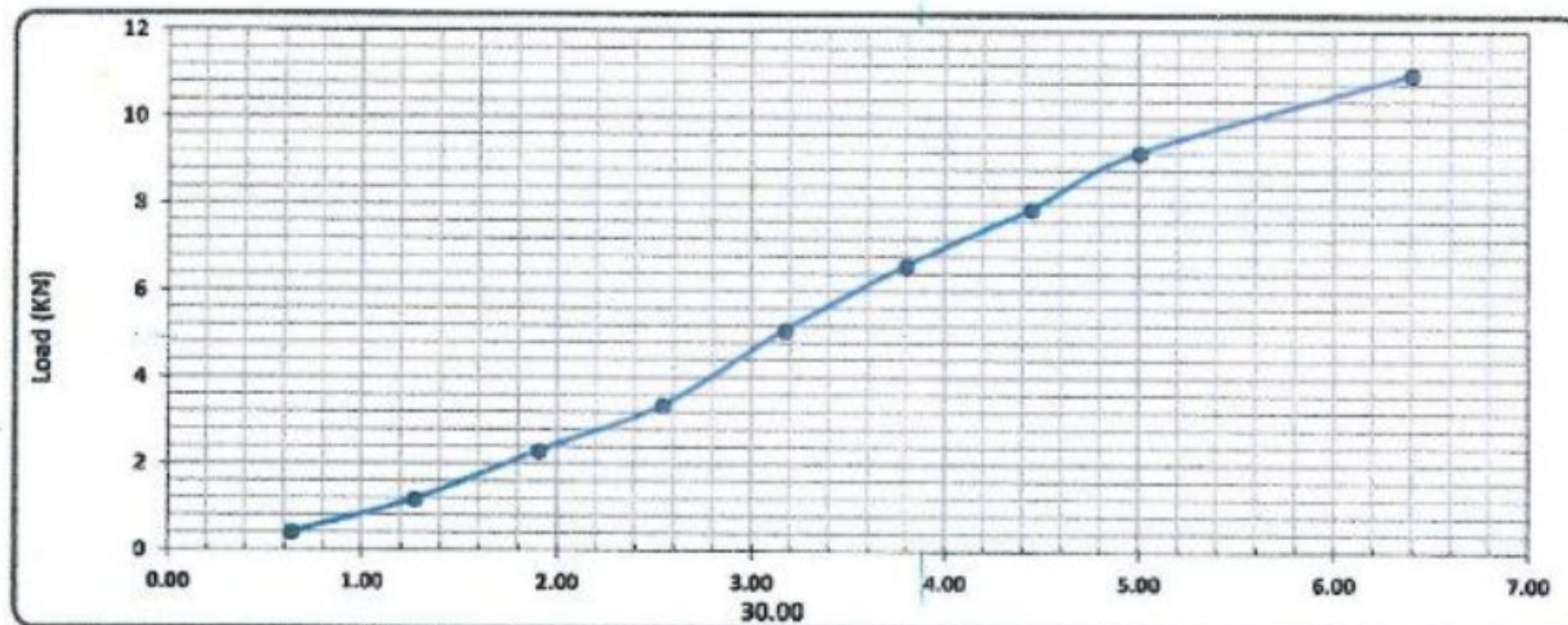
1685

Moisture Ratio After Compacted Mold	
Tare No.	14
Tare WT. (gm)	25.26
Tare WT. +Wet WT. (gm)	133.6
Tare WT. +Dry WT. (gm)	127.35
967	6.3
Dry WT. (gm)	102.1
Moisture Content %	6.1

Swelling	
Mold No.	
Date	
Initial Height (mm)	
Final Height (mm)	
Difference	0.0
Sample Height (mm)	
Swelling Ratio %	

Loading Reading :

30.00	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
(mm)Load Reading	41	119	234	341	519	671	805	938	1124
(KN)Load	0.4	1.2	2.3	3.3	5.1	6.6	7.9	9.2	11.0



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	% عند نسبة 100
2.50	3.34	13.4	25.0%	98.4	100	25.4%
5.00	9.19	20.0	45.9%			46.6%

Lab. Specialist Name : Sign :	operate Gomaa badr lab	Consultant Engineer Name : Sign :
---	---------------------------	---

المعمل المركزي
شركة جمعه بدر نوح

MATERIAL APPROVAL REQUEST



Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar		7-2-2023								
Contractor reference	MB-(7) 7-2-2023										
Received by ER			MAR	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	Soil (A-1-a)		
Location to be Used	K.p (558)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TOSPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 12.4% ATTEBERG LIMIT N.P MOISTURE CONTENT 6.5% MODIFIED PROCTOR 2.14 CBR 45%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Omar			
QA/QC *	Abdallah SAMY			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

MATERIAL INSPECTION REQUEST



Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar		7-2-2023								
Contractor reference	MB-(7) 7-2-2023										
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	Soil (A-1-a)				
Location to be Used	From	To	Level		
	557+940	558+100	-3.00		
	557+640	557+680	-10.50		
	557+700	557+800	-8.00		
	558+100	558+180	-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	M3	5000		
2	CLSSIFICATION	M3	5000		
3	PROCTOR & O.M.C	M3	5000		
4	L.L & P.L & PI	M3	5000		
5	C.B.R	M3	5000		
Comments by:			Comments by:		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Eng/ Omar				
QA/QC *	Abdallah SAMY				
GARB**					
Employers Representative					

* Designer

** Alignment / Bridges: Culvert Only

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد قنديل	 SYSTRA SHAKER	Electric Express Train - HSR		 الهيئة القومية للإزفاق مصر
		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		

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	6/2/2023	code	ZONE	557+500	559+000
LOCATION	k.p 558+000	MB-7			
NAME COMPANY	Magdi bkheet				
1-visual inspection test	operate by	GOMAA BADR LAB			

2-Gradient test

A-gradation of bulk materials			SAMPLE WEIGHT [g]			18378.00		gm	table classify	
sieve size	2	1 1/2	1	3/4	1/2	3/8	# 4	PASS	soil classify	
(g)Mass retained	230.0	2826.0	2541.0	1696.0	623.0	1023.0	1922.0		A-1-a	
g)Cumulative Retained	230.0	3056.0	5597.0	7293.0	7916.0	8939.0	10861.0	PRO	2.140	
Cumulative Retained %	1.3	16.6	30.5	39.7	43.1	48.6	59.1	WC	6.5%	
Cumulative Passing %	98.7	83.4	69.5	60.3	56.9	51.4	40.9	CBR	45%	

B-soft material gradation			WT.OF sample		500.00	gm
sieve size	10	40	200			
(g)Cumulative Retained	52.20	253.70	348.00			
Cumulative Retained %	10.44	50.74	69.60			
Cumulative Passing %	89.56	49.26	30.40			

C-General gradient										
(in)sieve size	5	4.0	3	1 1/2	3/4	3/8	# 4	# 10	# 40	# 200
(mm)sieve size	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	98.7	83.4	69.5	60.3	56.9	51.4	40.9	36.6	20.1	12.4

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

Contractor

operate

Consultant

المعمل المركزي
شركة جمعه بدر نوح

Gomaa badr lab

عبدالله

	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:	6/2/2023	code			
LOCATION	k.p 558+000	MB-7	ZONE	557+500	559+000
NAME COMPANY	Magdi bkheet				

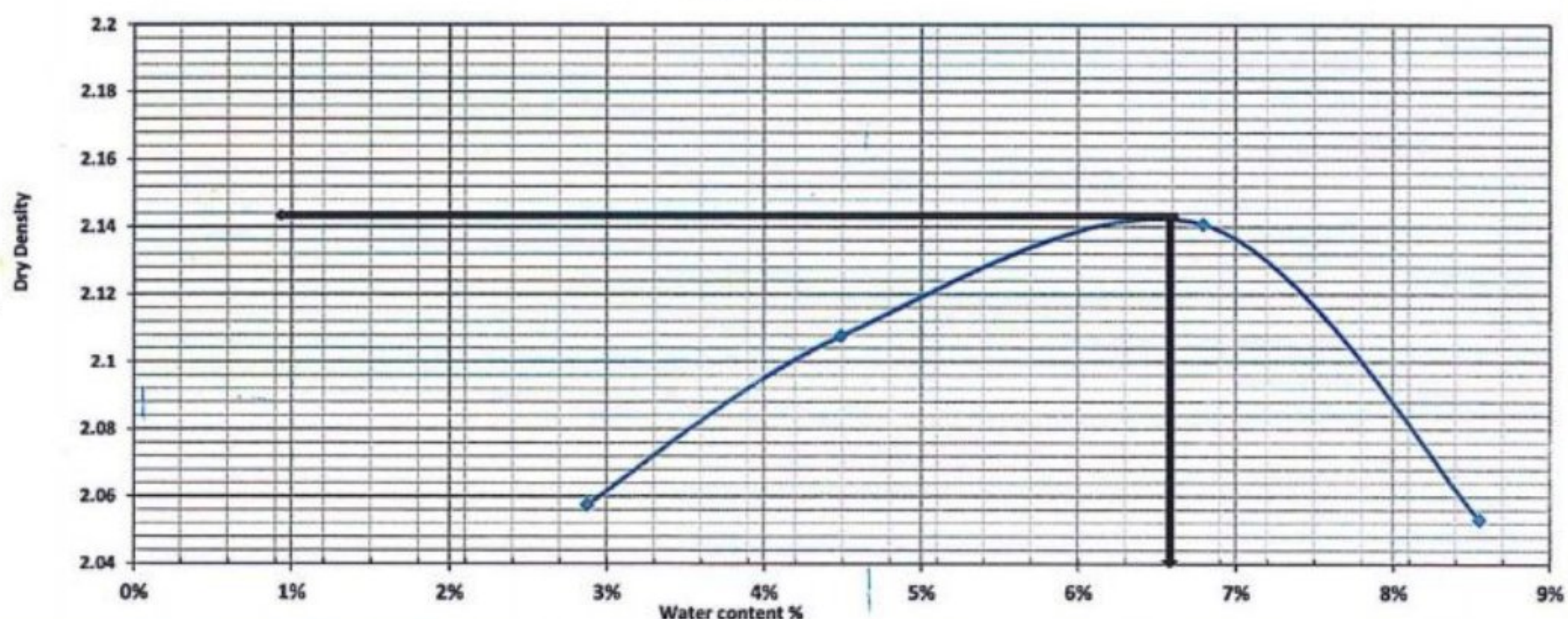
	operate by	GOMAA BADR LAB
--	------------	----------------

Weight of empty mold :	6105.0	MAX Dry Density	2.140
Mold Volume:	2104.9	Water content %	6.50

trial no :	1	2	3	4		
Wt. Of Mold+ wet soil	10569.0	10749.0	10926.0	10805		
WT. WET SOIL	4464.0	4644.0	4821.0	4700.0		
Wt. Density	2.121	2.206	2.290	2.233		

Tare No.	5	5	7	7	16	16	45	45				
Tare wt.	24.25	24.25	25.26	25.26	26.06	26.06	25.29	25.29				
Wt. Of wet soil & tare	115.3	115.3	153.8	153.8	111.9	111.9	107.6	107.6				
Wt. Of dry soil & tare	112.58	112.58	148	148	106.25	106.25	101.01	101.01				
Wt. Of water	2.7	2.7	5.8	5.8	5.6	5.6	6.6	6.6				
Wt. Of dry soil	88.3	88.3	122.7	122.7	80.2	80.2	75.7	75.7				
Water content %	3.1%	3.1%	4.7%	4.7%	7.0%	7.0%	8.8%	8.8%				
AV. Water content %	3.1%		4.7%		7.0%		8.8%					
Dry Density	2.057		2.107		2.141		2.053					

curve proctor



Contractor

operate

Consultant

المعمل المركزي
شركة جمعه بدر نوح

Gomaa badr lab

عبد الوهيد طاي

 KK ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي د. خالد فهد	 VSTRA SHAKER	Electric Express Train - HSR	 الهيئة العامة للإستثمار وزارة النقل والبنية التحتية
---	--	-------------------------------------	---

California Bearing Ratio TEST

Testing Date :	7/2/2023	Code	ZONE	557+500	559+000
Location :	k.p 558+000	MB -7			
Name Company	Magdi bkheet				
- : Test Results		operate by <u>GOMAA BADR LAB</u>			

Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2177.5
Mold WT. (gm)	16444
Mold WT. + Wet WT. (gm)	21325
Wet WT. (gm)	4881
Wet Density (g/cm ³)	2.242
Dry Density (g/cm ³)	2.115
Proctor Density (g/cm ³)	2.140
Compaction %	98.8

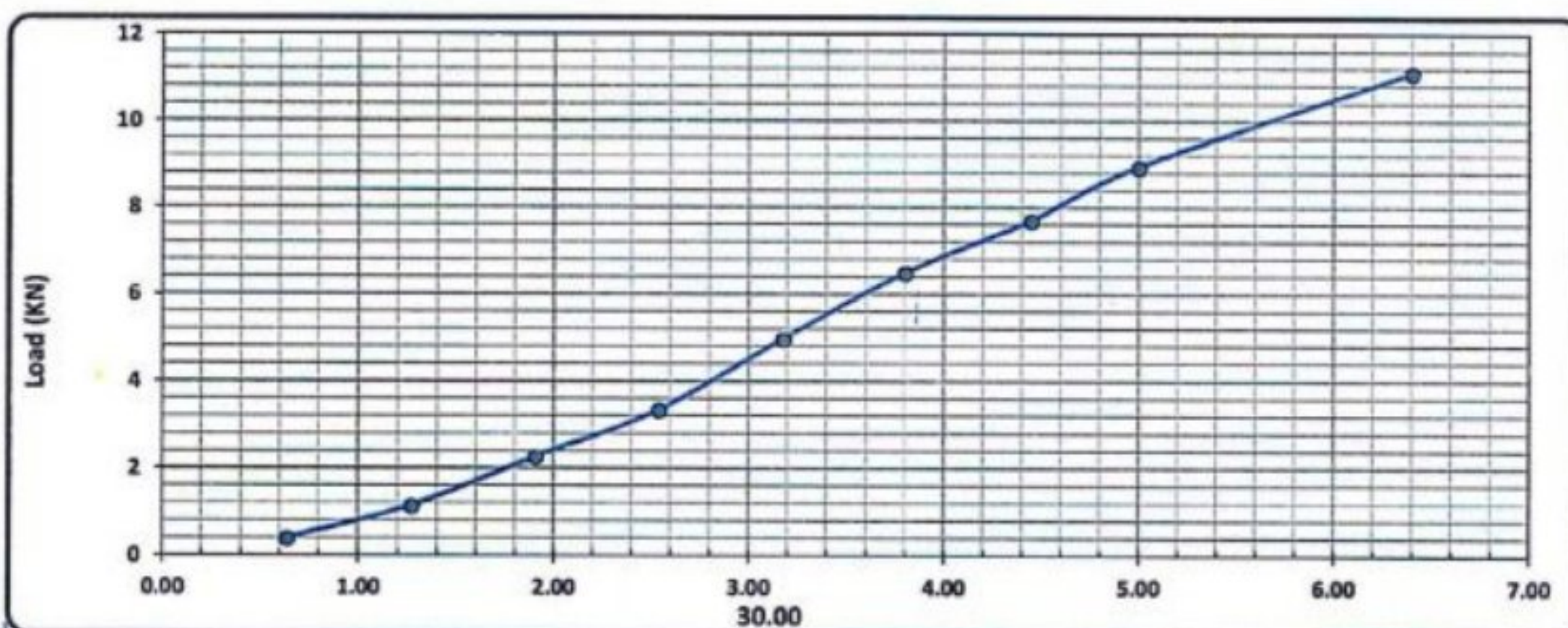
1685

Moisture Ratio After Compacted Mold	
Tare No.	15
Tare WT. (gm)	25.26
Tare WT. +Wet WT. (gm)	132.41
Tare WT. +Dry WT. (gm)	126.35
967	6.1
Dry WT. (gm)	101.1
Moisture Content %	6.0

Swelling	
Mold No.	
Date	
Initial Height (mm)	
Final Height (mm)	
Difference	0.0
Sample Height (mm)	
Swelling Ratio %	

Loading Reading :

30.00	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
(mm)Load Reading	39	115	229	339	505	660	783	910	1132
(KN)Load	0.4	1.1	2.2	3.3	4.9	6.5	7.7	8.9	11.1



Calculations :-

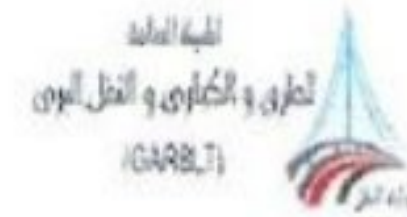
Penetration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % عند نسبة 100
2.50	3.32	13.4	24.9%	98.8	100	25.2%
5.00	8.92	20.0	44.5%			45.1%

Lab. Specialist Name : المعمل المركزي Sign : شركة جمعه بدر نوح	operate Gomaa badr lab	Consultant Engineer Name : عبدالله سامي Sign : عبدالله سامي
---	---------------------------	---

MATERIAL APPROVAL REQUEST



الهيئة القومية للإنفاق



Contractor Company	Magdy Bekhet		Designer Company	
Issued by Contractor	Name	Sign	Date	Time
	Eng/ Omar			
Contractor reference	MB-(9) 13-2-2023			
Received by ER			MAR	

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 Used	K.p (558)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TO SPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 12.5% ATTEBERG LIMIT NP MOISTURE CONTENT 8.9% MODIFIED PROCTOR 2.13 CBR 61%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. OMAR			
QA/QC *	Abdallah SAMY			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

MATERIAL INSPECTION REQUEST



Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar	<i>[Signature]</i>									
Contractor reference	MB-(9) 13-2-2023										
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	Soil (A-1-a)				
Location to be Used	From	To			
	558+280	558+340	(-2.5)		
	557+960	558+080	(-2)		
	558+360	558+440	(Ferma)		
	558+520	558+720	(Ferma)		
	558+100	558+180	(-0.5)		
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	M3	5000		
2	CLSSIFICATION	M3	5000		
3	PROCTOR & O.M.C	M3	5000		
4	L.L & P.L & PI	M3	5000		
5	C.B.R	M3	5000		
Comments by:			Comments by:		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Eng. OMAR	<i>[Signature]</i>			
QA/QC *	Abdallah SAMY	<i>[Signature]</i>			
GARB**					
Employers Representative					

* Designer

** Alignment / Bridges: Culvert Only

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد قنديل	 SYSTRA SHAKER	Electric Express Train - HSR		 الهيئة القومية للإزفاق الميناء والقناة والسكك الحديدية (GABUT)
		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		

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	12/2/2023	code			
location	K.P 558+000	MB-9	ZONE	557+500	559+000
NAME COMPANY	Magdi Bkheet				
1-visual inspection test	operate by	GOMAA BADR LAB			

2-Gradient test

A-gradation of bulk materials			SAMPLE WEIGHT (g)		19000.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	
Mass retained (g)	253.0	3245.0	4740.0	2240.0	1592.0	670.0	1770.0	
Cumulative Retained (g)	253.0	3498.0	8238.0	10478.0	12070.0	12740.0	14510.0	
Cumulative Retained %	1.3	18.4	43.4	55.1	63.5	67.1	76.4	PRO
Cumulative Passing %	98.7	81.6	56.6	44.9	36.5	32.9	23.6	WC
								CBR

B-soft material gradation			WT.OF sample		500.00		gm
sieve size	10	40	200				
Cumulative Retained (g)	62.00	147.21	234.61				
Cumulative Retained %	12.40	29.44	46.92				
Cumulative Passing %	87.60	70.56	53.08				

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 %	98.7	81.6	56.6	44.9	36.5	32.9	23.6	20.7	16.7	12.5

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

Contractor

Consultant

المعمل المركزي
شركة جمعه بدر نوح
Rumayh Tarek

Abdallah SAMY

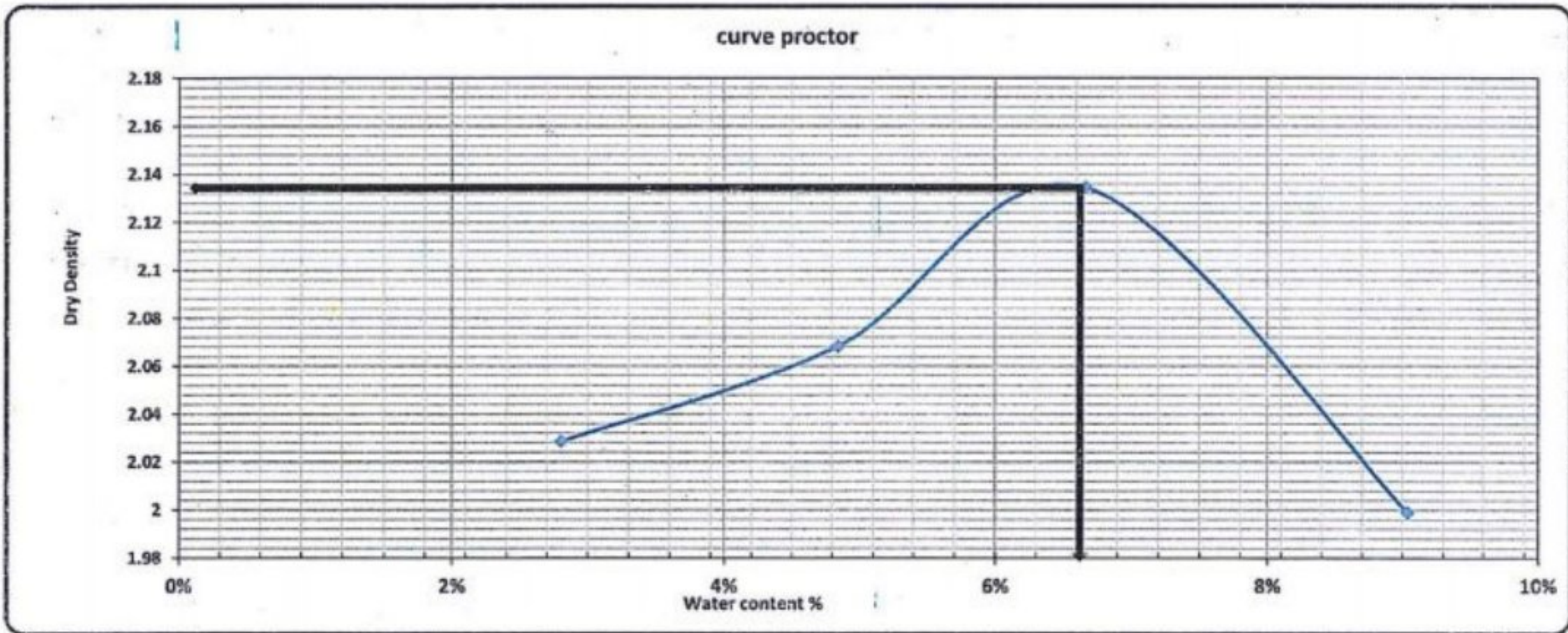
 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد قنديل	 SVS TRA SHAKER	Electric Express Train - HSE From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKE TO APSA MATROUH From Station 504+000 To Station 568+177		 المهنة العامة للمسح والقياس والبناء (GARBLT)	 الهيئة القومية للإنفاق NATIONAL AUTHORITY FOR INFRASTRUCTURE (2007)

PROCTOR TEST

TESTING DATE:	12/2/2023	code			
location	K.P 558+000	MB-9	ZONE	557+500	559+000
NAME COMPANY	Magdi Bkheet				
	operate by	GOMAA BADR LAB			
Weight of empty mold :	6085.0		MAX Dry Density	2.134	
Mold Volume:	2104.9		Water content %	6.90	

trial no :	1	2	3	4		
Wt. Of Mold+ wet soil	10483.0	10658.0	10886.0	10581		
WT. WET SOIL	4398.0	4573.0	4801.0	4596.0		
Wt. Density	2.089	2.173	2.281	2.183		

Tare No.	12	12	46	46	11	11	16	16				
Tare wt.	26.24	26.24	23.14	23.14	24.33	24.33	25.98	25.98				
Wt. Of wet soil & tare	126.3	126.3	173.5	173.5	96.0	96.0	98.0	98.0				
Wt. Of dry soil & tare	123.42	123.42	166.24	166.24	85.78	85.78	91.91	91.91				
Wt. Of water	2.9	2.9	7.2	7.2	4.2	4.2	6.1	6.1				
Wt. Of dry soil	97.2	97.2	143.1	143.1	61.5	61.5	65.9	65.9				
Water content %	3.0%	3.0%	5.0%	5.0%	6.9%	6.9%	9.2%	9.2%				
AV. Water content %	3.0%		5.0%		6.9%		9.2%					
Dry Density	2.028		2.068		2.134		1.999					



Contractor

المعمل المركزي
شركة جمعه بدر نوح

Ramadan Taky

Consultant

Abdallah SAMS

California Bearing Ratio TEST

TESTING DATE:	13/2/2023	code	WB-6	ZONE	557+500	559+000
Location	K.P 559+000					
NAME COMPANY	Magdi Elsheet	operate by	GOMAA RAD LAB			

Test Results

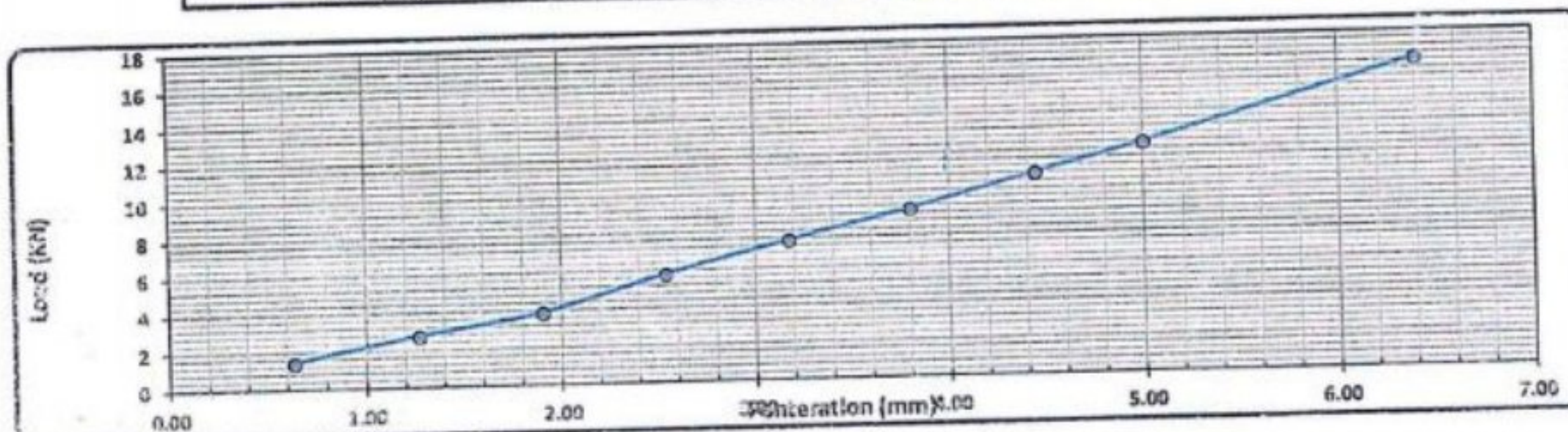
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2177.5
Mold WT. (gm)	16444
Mold WT. + Wet WT. (gm)	21324
Wet WT. (gm)	4880
Wet Density (g/cm ³)	2.246
Dry Density (g/cm ³)	2.104
Proctor Density (g/cm ³)	2.134
Compaction %	99

Moisture Ratio After Compacted Mold	
Tare No.	11
Tare WT. (gm)	27.53
Tare WT. + Wet WT. (gm)	168.34
Tare WT. + Dry WT. (gm)	159.48
Wet WT. (gm)	140.81
Dry WT. (gm)	131.9
Moisture Content %	6.7

Swelling	
Mold No.	2
Date	
Initial Height (mm)	
Final Height (mm)	
Difference	0
Sample Height (mm)	
Swelling Ratio %	

Loading Reading :

penetration	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (kg)	142.00	276.00	391.00	585.00	757.00	916.00	1095.00	1253.00	1682.00
Load (KN)	1.4	2.7	3.8	5.7	7.4	9.0	10.8	12.3	16.5



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % 100
2.50	5.74	13.4	43.0%	99	100	43.6%
5.00	12.28	20.0	61.3%			62.2%

Lab. Specialist

Consultant Engineer

Name :

Sign :

المعمل المركزي
شركة جمعه بدر نوح

Ramab Taha

MATERIAL APPROVAL REQUEST



Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar	<i>[Signature]</i>	13-2-2023								
Contractor reference	MB-(10) 13-2-2023										
Received by ER			MAR	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	Soil (A-1-a)		
Location to be Used	K.p (558)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TO SPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 12.0% ATTEBERG LIMIT N.P MOISTURE CONTENT 7.0% MODIFIED PROCTOR 2.14 CBR 59%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Omar	<i>[Signature]</i>		
QA/QC *	Abdullah SAMY	<i>[Signature]</i>		
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

MATERIAL INSPECTION REQUEST



Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar		13-2-2023								
Contractor reference	MB-(10) 13-2-2023										
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	Soil (A-1-a)		
	From	To	Level
	558+300	558+320	-2.00
	558+200	558+280	-1.00
	558+440	558+520	0.00
	558+820	559+000	0.00
	558+120	558+180	0.00
	557+700	557+800	-7.00

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	M3	5000		
2	CLSSIFICATION	M3	5000		
3	PROCTOR & O.M.C	M3	5000		
4	L.L & P.L & PI	M3	5000		
5	C.B.R	M3	5000		

Comments by:		Comments by:	
--------------	--	--------------	--

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Omar			
QA/QC *	Abdallah SAMY			
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



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	12/2/2023	code			
location	K.P 558+000	MB-10	ZONE	557+500	559+000
NAME COMPANY	Magdi Bkheet				
1-visual inspection test	operate by	GOMAA BADR LAB			

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		22946.00	gm		table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	0.0	3830.0	7000.0	2400.0	1258.0	580.0	1394.0		A-1-a
Cumulative Retained (g)	0.0	3830.0	10830.0	13230.0	14488.0	15068.0	16462.0	PRO	2.140
Cumulative Retained %	0.0	16.7	47.2	57.7	63.1	65.7	71.7	WC	7.0
Cumulative Passing %	100.0	83.3	52.8	42.3	36.9	34.3	28.3	CBR	59.0%

B-soft material gradation				WT.OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	79.63	176.60	287.23				
Cumulative Retained %	15.93	35.32	57.45				
Cumulative Passing %	84.07	64.68	42.55				

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	83.3	52.8	42.3	36.9	34.3	28.3	23.8	18.3	12.0

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

Contractor

Consultant

المعمل المركزي
شركة جمعه بدر نوح

Abdallah SAM

 الهيئة القومية للإنفاق GARBLI	Electric Express Train - MTR From El Ahn El Sekhna City To El Ahmadi - MATROUH Section - 7 From FOKA TO MASSA MATROUH From Station 504+000 To Station 503+177		 الهيئة القومية للإنفاق GARBLI

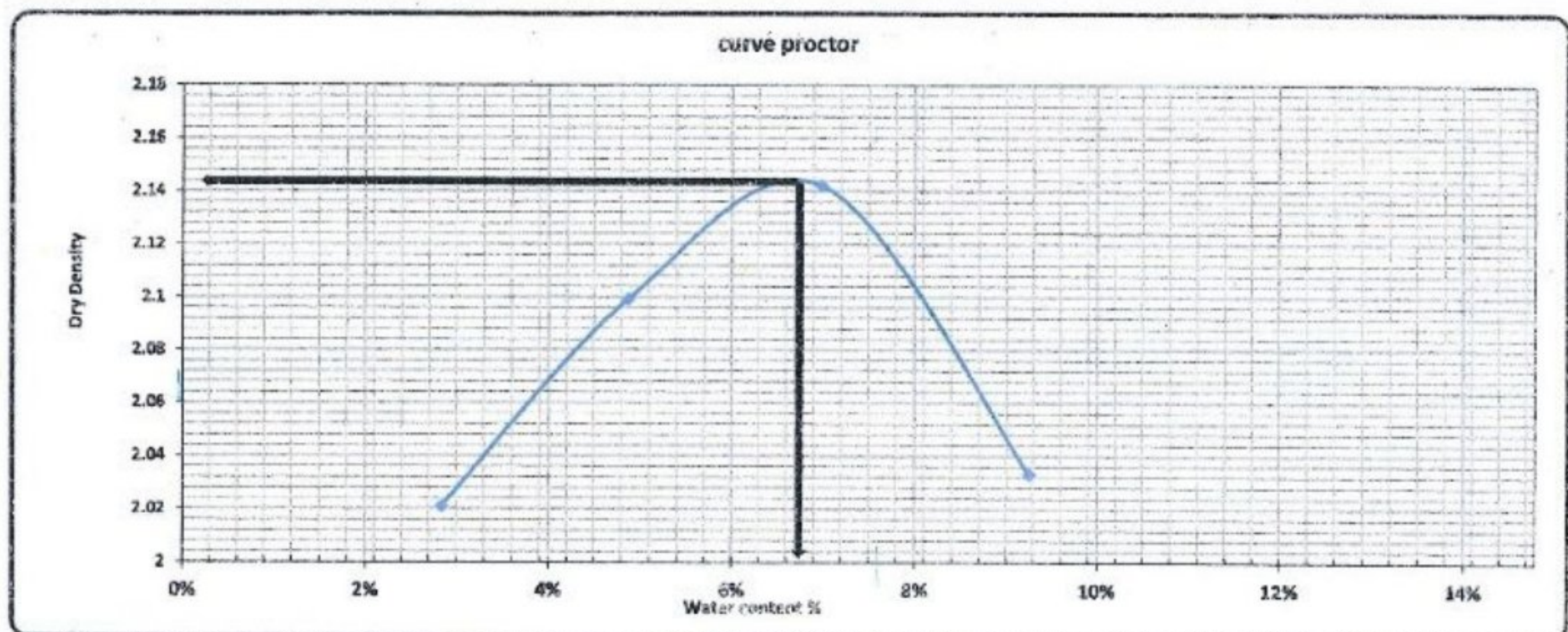
PROCTOR TEST

TESTING DATE:	12/2/2023	code		ZONE	557+500	559+000
location	K.P 558+000	MB-10				
NAME COMPANY	Magdi Bkheet					

	operate by	GOMAA BADR I.A.S				
Weight of empty mold :	6353.0		MAX Dry Density	2.142		
Mold Volume:	2104.9		Water content %	7.60		

trial no :	1	2	3	4		
Wt. Of Mold+ wet soil	10936.0	11195.0	11386.0	11237		
WT. WET SOIL	4383.0	4642.0	4833.0	4684.0		
Wt. Density	2.082	2.205	2.296	2.225		

Tare No.	10	10	16	16	1	1	2	2				
Tare wt.	27.34	27.34	24.35	24.35	26.87	26.87	22.83	21.83				
Wt. Of wet soil & tare	162.3	162.3	147.2	147.2	103.3	103.3	127.0	127.0				
Wt. Of dry soil & tare	158.27	158.27	143.3	141.3	98.18	98.18	118	118				
Wt. Of water	4.0	4.0	5.9	5.9	5.1	5.1	9.0	9.0				
Wt. Of dry soil	130.9	130.9	117.0	117.0	71.3	71.3	95.2	95.2				
Water content %	3.0%	3.0%	5.1%	5.1%	7.2%	7.2%	9.5%	9.5%				
A.V. Water content %	3.0%	3.0%	5.1%	5.1%	7.2%	7.2%	9.5%	9.5%				
Dry Density	2.021	2.021	2.099	2.099	2.142	2.142	2.033	2.033				



Contractor

المعمل المركزي
شركة جمعه بدر نوح

Ramadan Taha

Consultant

Abdallah S.M.Y

California Bearing Ratio TEST

TESTING DATE:	13/2/2023	code			
location	K.P 558+000	MB-10	ZONE	557+500	559+000
NAME COMPANY	Magdi Bkheet	operate by	GOMAA SADR LAB		

Test Results

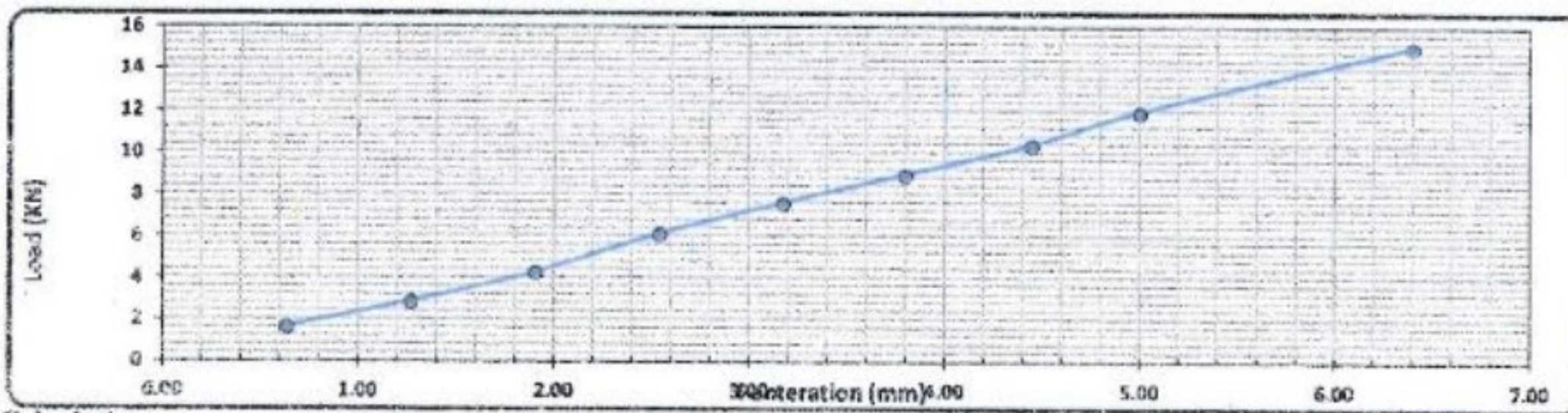
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2177.5
Mold WT. (gm)	16444
Mold WT. + Wet WT. (gm)	21264
Wet WT. (gm)	4920
Wet Density (g/cm ³)	2.259
Dry Density (g/cm ³)	2.122
Proctor Density (g/cm ³)	2.142
Compaction %	99

Moisture Ratio After Compacted Mold	
Tare Pan.	9
Tare WT. (gm)	27.28
Tare WT. + Wet WT. (gm)	152.36
Tare WT. + Dry WT. (gm)	145.21
1444	7.7
Dry WT. (gm)	118.1
Moisture Content %	6.5

Swelling	
Mold No.	2
Date	
Initial Height (mm)	
Final Height (mm)	
Difference	0
Sample Height (mm)	
Swelling Ratio %	

Loading Reading :

penetration	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (kg)	163.00	286.00	429.00	616.00	767.00	906.00	1051.00	1214.00	1532.00
Load (KN)	1.6	2.8	4.2	6.0	7.5	8.9	10.3	11.9	15.0



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	6.04	13.4	45.2%			45.6%
5.80	11.90	26.0	59.4%	99	100	60.0%

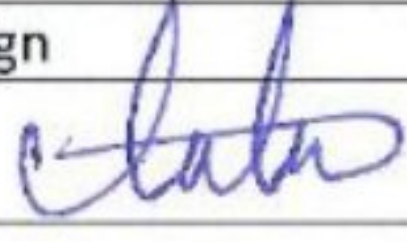
Lab. Specialist

Consultant Engineer

المعمل المركزي
شركة جمعه بدر نوح

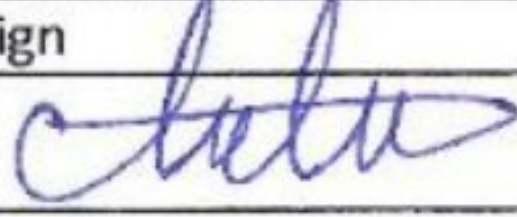
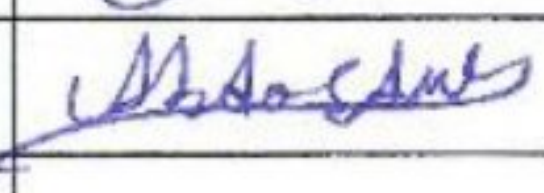
Rumah Terey

Name : *Abdallah SAMA*
Sign :

Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar		22-2-2023								
Contractor reference	MB-(11) 22-2-2023										
Received by ER			MAR	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	Soil (A-1-a)		
Location to be Used	K.p (558)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TOSPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 13.0% ATTEBERG LIMIT N.P MOISTURE CONTENT 6.7% MODIFIED PROCTOR 2.156 CBR 61%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	

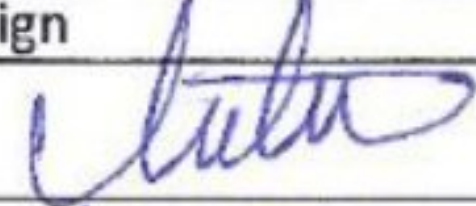
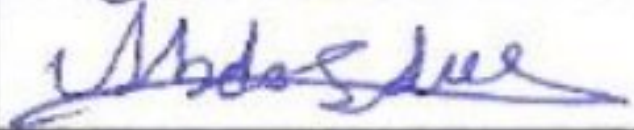
APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Omar			
QA/QC *	Abdallah SAMY			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar		22-2-2023								
Contractor reference	MB-(11) 22-2-2023										
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	Soil (A-1-a)					
Location to be Used	From	To	Level			
	558+280	558+320	-1.75			
	558+200	558+260	-0.75			
	558+100	558+180	0.00			
	557+700	557+800	-6.50			
	557+640	557+660	-9.50			
	558+280	558+320	-1.50			
MAR Approval No				Date		
Supplier Name						
Test Requirement				Specification	Clause	
Reference Photos	Yes attached / No	Other				
Item	Description	Unit	Quantity	Arrival Date	Note	
1	SIEVE ANALYSIS	M3	5000			
2	CLSSIFICATION	M3	5000			
3	PROCTOR & O.M.C	M3	5000			
4	L.L & P.L & PI	M3	5000			
5	C.B.R	M3	5000			
Comments by:		Comments by:				
APPROVAL STATUS						
Organisation	Name	Sign	Date	A-AWC-R		
Contractor	Eng/ Omar					
QA/QC *						
GARB**						
Employers Representative						

* Designer
 ** Alignment / Bridges: Culvert Only

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد قنديل	 SVS TRA 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 العامة لقطاع السكك الحديدية (EG.R.T)
---	---	---	--

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	21/2/2023	code		ZONE	557+500	559+000
location	K.P 558+000	MB-11				
NAME COMPANY	Magdi Bkheet					
1-visual inspection test	operate by	GOMAA BADR LAB				

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		18000.00		gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify	
Mass retained (g)	0.0	970.0	3472.0	2950.0	1245.0	375.0	1312.0		A-1-a	
Cumulative Retained (g)	0.0	970.0	4442.0	7392.0	8637.0	9012.0	10324.0		PRO	2.156
Cumulative Retained %	0.0	5.4	24.7	41.1	48.0	50.1	57.4		WC	6.7
Cumulative Passing %	100.0	94.6	75.3	58.9	52.0	49.9	42.6		CBR	61.0%

B-soft material gradation			WT.OF sample		500.00		gm
sieve size	10	40	200				
Cumulative Retained (g)	70.00	223.00	347.00				
Cumulative Retained %	14.00	44.60	69.40				
Cumulative Passing %	86.00	55.40	30.60				

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 %	100.0	94.6	75.3	58.9	52.0	49.9	42.6	36.7	23.6	13.0

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

Contractor

Consultant

المعمل المركزي
 شركة جمعه بدر نوح
 Ramah Taha

Abdallah SAMY

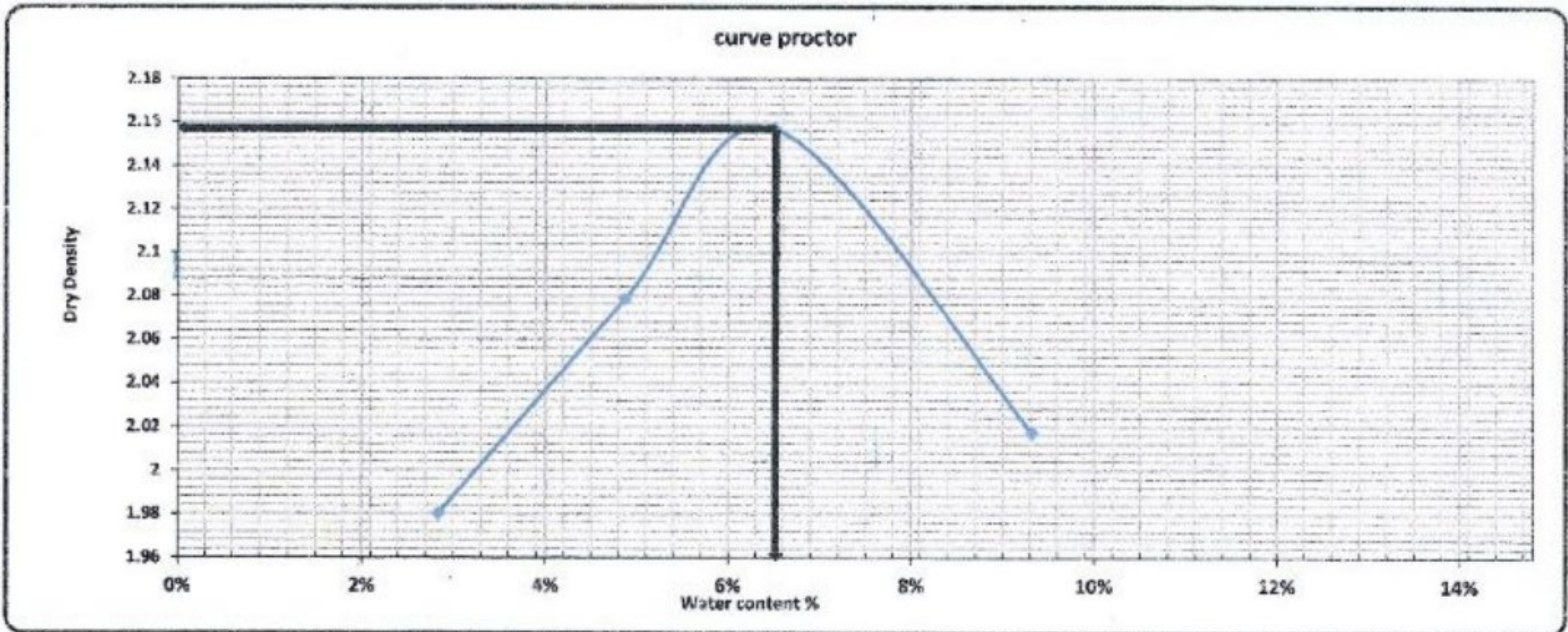
	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA TO MARSA MATROUH From Station 594+000 To Station 588+177		

PROCTOR TEST

TESTING DATE:	22/2/2023	code			
location	K.P 558+000	MB-11	ZONE	557+500	559+000
NAME COMPANY	Magdi Bkheet				
	operate by	GOMAA BADR LAB			
Weight of empty mold :	6238.0		MAX Dry Density	2.156	
Mold Volume:	2104.9		Water content %	5.70	

trial no :	1	2	3	4		
Wt. Of Mold+ wet soil	10524.0	10826.0	11074.0	10880		
WT. WET SOIL	4294.0	4596.0	4844.0	4650.0		
Wt. Density	2.040	2.183	2.301	2.209		

Tare No.	30	30	6	6	10	10	14	14				
Tare wt.	27.34	27.34	24.35	24.35	26.5	26.5	22.91	22.91				
Wt. Of wet soil & tare	162.3	162.3	147.2	147.2	107.1	107.1	111.3	111.3				
Wt. Of dry soil & tare	158.17	158.27	141.3	141.3	101.98	101.98	103.63	103.63				
Wt. Of water	4.0	4.0	5.9	5.9	5.1	5.1	7.7	7.7				
Wt. Of dry soil	130.9	130.9	117.0	117.0	75.5	75.5	80.7	80.7				
Water content %	3.0%	3.0%	5.1%	5.1%	6.7%	6.7%	9.5%	9.5%				
AV. Water content %	3.0%	3.0%	5.1%	5.1%	6.7%	6.7%	9.5%	9.5%				
Dry Density	1.980	1.980	2.078	2.078	2.156	2.156	2.017	2.017				



Contractor

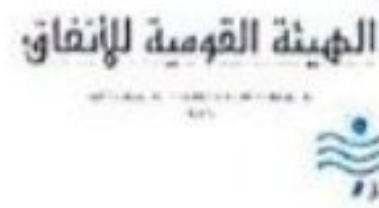
المعمل المركزي
شركة جمعه بدر نوح

Rumana Taky

Consultant

Abdelhak

MATERIAL INSPECTION REQUEST



Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar										
Contractor reference	MB-(1) 6-3-2023										
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	Soil (A-1-a)					
Location to be Used	From	To	(+0.25)	From	To	(+0.5)
	558+840	559+000		558+500	558+700	
	558+340	558+500	(+0.25)	558+120	558+180	(+0.25)
	558+500	558+720	(+0.25)	558+180	558+280	(+0.5)
	558+840	559+000	(+0.5)			
	558+340	558+500	(+0.5)			
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	M3	5000			
2	CLSSIFICATION	M3	5000			
3	PROCTOR & O.M.C	M3	5000			
4	L.L & P.L & PI	M3	5000			
5	C.B.R	M3	5000			
Comments by:			Comments by:			
APPROVAL STATUS						
Organisation	Name	Sign	Date	A-AWC-R		
Contractor	Omar					
QA/QC *	Khalid Zakir					
GARB**						
Employers Representative						

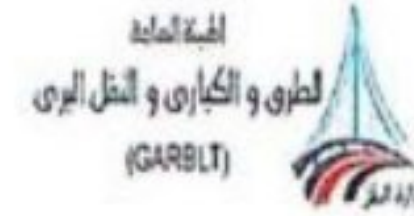
* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



الهيئة القومية للإنفاق
الهيئة القومية للإنفاق



Contractor Company	Magdy Bekhet		Designer Company	
Issued by Contractor	Name	Sign	Date	Time
	Eng/ Omar			
Contractor reference	MB-(1) 6-3-2023			
Received by ER			MAR	

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 Used	K.p (558)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TO SPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 5.9% ATTEBERG LIMIT NP MOISTURE CONTENT 6.7% MODIFIED PROCTOR 2.175 CBR 60%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Omar			
QA/QC *	Khaled Zaki			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد فهد دبل	 SYSTRA	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	 الهيئة العامة للإعانة وزارة النقل والبنية التحتية (GABRI)
---	---	--	--

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE	4/3/2023	code	ZONE	557+500	559+000
location	K.P558+000	MB-1	Material	prepared sub grade	
NAME COMPANY	Magdi Bkheet				
1-visual inspection test	operate by	GOMAA BADR LAB			

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		37611.00		gm	table classify	
sieve size	5	4	3	1 1/2	3/4	3/8	# 4	PASS	soil classify	
Mass retained (g)	0.0	0.0	0.0	3453.0	15267.0	9632.0	3040.0		A-1-a	
Cumulative Retained (g)	0.0	0.0	0.0	3453.0	18720.0	28352.0	31392.0		PRO	2.175
Cumulative Retained %	0.0	0.0	0.0	9.2	49.8	75.4	83.5		WC	6.7
Cumulative Passing %	100.0	100.0	100.0	90.8	50.2	24.6	16.5		CBR	60.0%

B-soft material gradation			WT.OF sample		500.00		gm
sieve size	10	40	200				
Cumulative Retained (g)	82.00	236.00	321.00				
Cumulative Retained %	16.40	47.20	64.20				
Cumulative Passing %	83.60	52.80	35.80				

C-General gradient										
sieve size(in)	5	4	3	1 1/2	3/4	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	100.0	100.0	90.8	50.2	24.6	16.5	13.8	8.7	5.9
	100	100 - 95	99 - 75	90 - 50	75 - 20	60 - 15		35 - 0		0 - 12

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

Contractor

المعمل المركزي
شركة جمعه بدر نوح

Ramad 1975

Consultant

Abdallah SAMH

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

**Absorbition & Aggregate specific gravity
AASHTO-T85**

TESTING DATE:	6/3/2023	code	ZONE	557+500	559+000
LOCATION	K.P558+000	MB-1	Material	prepared sub grade	
NAME COMPANY	Magdi Bkheet				

Weight of sample	2000.00	gm
Weight of saturated -dry surface sample (B)	2074.40	gm
Weight of saturated sample in water (C)		gm
Weight of dry sample after heating (A)	1993.50	gm

Results:-

Bulk specific gravity = A / (B-C)	0.961	
Apparent specific gravity = A / (A-C)	1.000	
Asorbition = (B-A)/A	4.058	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3652	26.96

Lab. Engineer

Name :

المعمل المركزي
شركة جمعه بدر نوح

Sign :

Ramadan Tarek

OPERATE BY
GOMAA BADR LAB

Consultant Engineer

Name :

Sign :

Abdallah SANEY

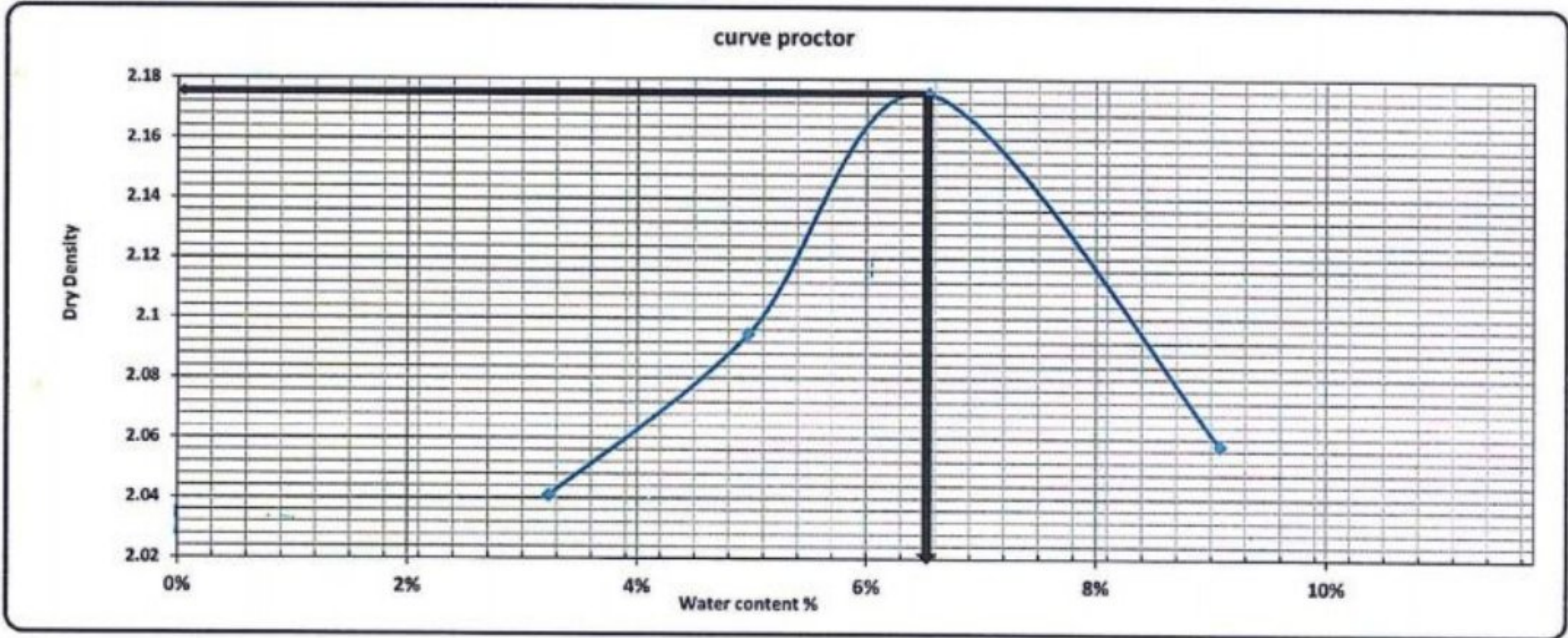
 KK ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي د. خالد فهد	 SVS TRA شركة الصناعات SHAKER	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA TO MARSA MATROUH From Station 504+000 To Station 568+177	 الهيئة العامة للطرق والكباري والنقل البري (GARBIT)	 الهيئة القومية للإنفاق National Authority for Infrastructure
---	---	---	---	--

PROCTOR TEST

TESTING DATE	5/3/2023	code	ZONE	557+500	559+000
location	K.P558+000	MB-1	Material	prepared sub grade	
NAME COMPANY	Magdi Bkheet				
operate by		GOMAA BADR LAB			
Weight of empty mold :	6417.0	MAX Dry Density		2.175	
Mold Volume:	2104.9	Water content %		6.70	

trial no :	1	2	3	4		
Wt. Of Mold+ wet soil	10860.0	11054.0	11304.0	11150		
WT. WET SOIL	4443.0	4637.0	4887.0	4733.0		
Wt. Density	2.111	2.203	2.322	2.249		

Tare No.	5	5	11	11	14	14	30	30				
Tare wt.	27.41	27.41	24.34	24.34	22.9	22.9	25.83	25.83				
Wt. Of wet soil & tare	145.23	145.23	116.23	116.23	111.03	111.03	109.18	109.18				
Wt. Of dry soil & tare	141.32	141.32	111.71	111.71	105.46	105.46	102.1	102.1				
Wt. Of water	3.9	3.9	4.5	4.5	5.6	5.6	7.1	7.1				
Wt. Of dry soil	113.9	113.9	87.4	87.4	82.6	82.6	76.3	76.3				
Water content %	3.4%	3.4%	5.2%	5.2%	6.7%	6.7%	9.3%	9.3%				
AV. Water content %	3.4%		5.2%		6.7%		9.3%					
Dry Density	2.041		2.095		2.175		2.058					



المعمل المركزي
شركة جمعه بدر نوح
 Contractor
Ramallah Taha

Consultant
Abdallah SAMY



Electric Express Train - HSR



California Bearing Ratio TEST

TESTING DATE	6/3/2023	code	ZONE	557+500	559+000
location	K.P558+000	MB-1	Material	prepared sub grade	
NAME COMPANY	Magdi Bkheet	operate by	GOMAA BADR LAB		

-: Test Results

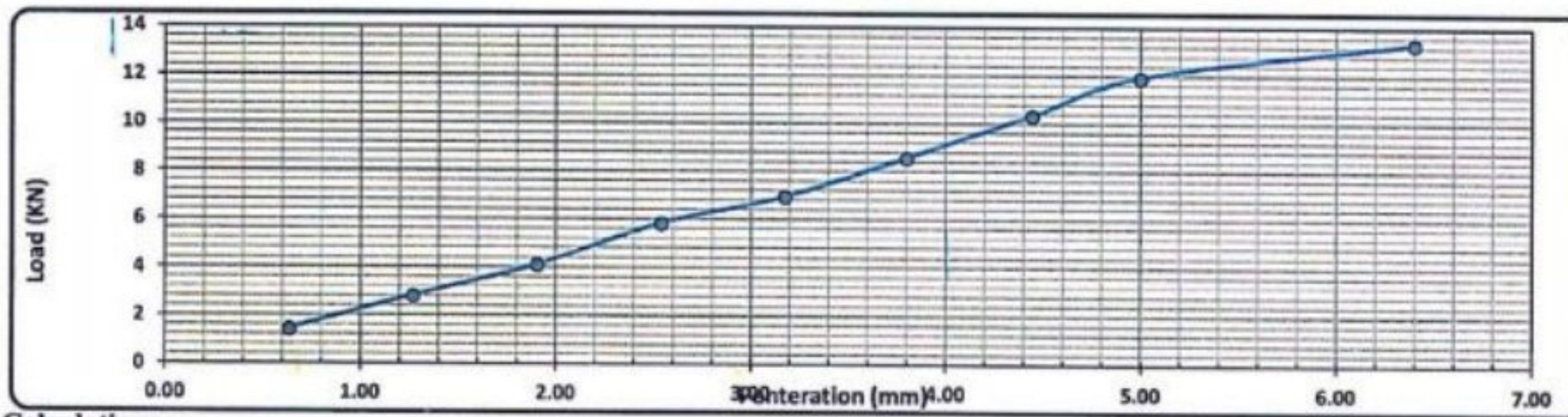
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2177.5
Mold WT. (gm)	16444
Mold WT. + Wet WT. (gm)	21386
Wet WT. (gm)	4942
Wet Density (g/cm ³)	2.270
Dry Density (g/cm ³)	2.136
Proctor Density (g/cm ³)	2.175
Compaction %	98

Moisture Ratio After Compacted Mold	
Tare No.	15
Tare WT. (gm)	27.51
Tare WT. + Wet WT. (gm)	153.26
Tare WT. + Dry WT. (gm)	145.87
WT. Of water	7.4
Dry WT. (gm)	118.4
Moisture Content %	6.2

Swelling	
Mold No.	2
Date	
Initial Height (mm)	
Final Height (mm)	
Difference	0
Sample Height (mm)	
Swelling Ratio %	

Loading Reading :

penetration	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (kg)	143.00	284.00	416.00	592.00	706.00	872.00	1053.00	1215.00	1359.00
Load (KN)	1.4	2.8	4.1	5.8	6.9	8.5	10.3	11.9	13.3



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	% عند نسبة 100
2.50	5.80	13.4	43.5%	98	100	44.2%
5.00	11.91	20.0	59.5%			60.5%

Lab. Specialist

Name : **المعمل المركزي**
Sign : **شركة جمعه بدر نوح**

Ramiah Taseer

Consultant Engineer

Name : **Abdelbaki SAMY**
Sign : *Abdelbaki SAMY*



Electric Express, HSR



California Bearing Ratio TEST

TESTING DATE	23/2/2023	code			
Location	K.P 556+000	MR-11	ZONE	517+500	556+000
NAME COMPANY	Magdi Elsheet	operate by	GOMMA BAGELAB		

Test Results

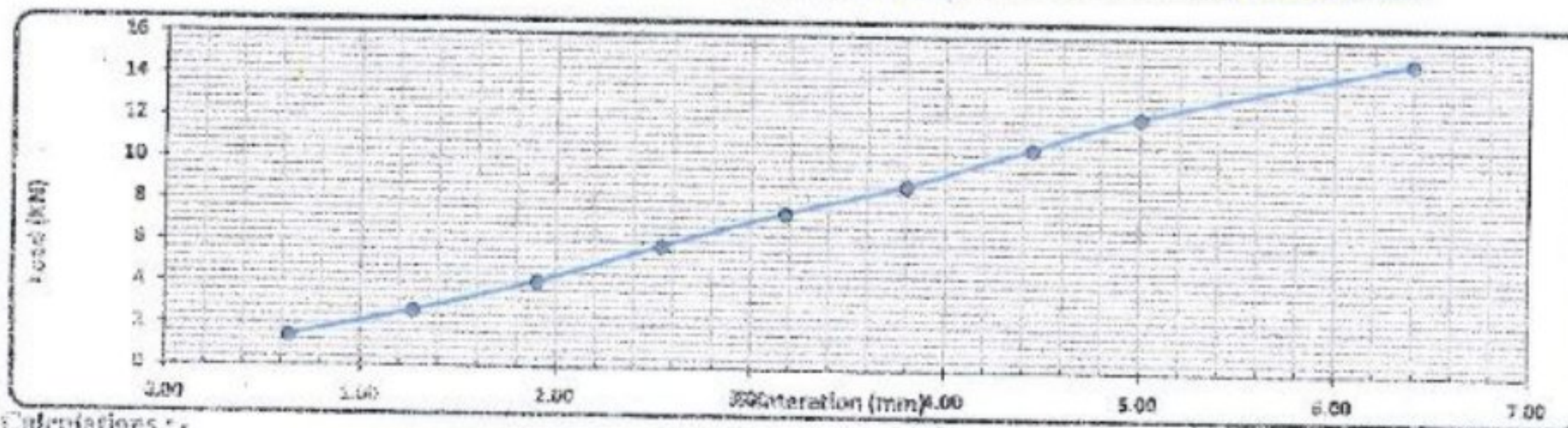
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2177.5
Mold WT. (gm)	1644
Mold WT. + Wet WT. (gm)	21405
Wet WT. (gm)	4961
Wet Density (g/cm ³)	2.278
Dry Density (g/cm ³)	2.141
Proctor Density (g/cm ³)	2.156
Compaction %	99

Moisture Ratio After Compacted Mold	
Tare No.	15
Tare WT. (gm)	26.37
Tare WT. + Wet WT. (gm)	143.41
Tare WT. + Dry WT. (gm)	140.36
Wet WT. (gm)	7.3
Dry WT. (gm)	114.3
Moisture Content %	6.4

Swelling	
Mold No.	2
Date	
Initial Height (mm)	
Final Height (mm)	
Difference	6
Sample Height (mm)	
Swelling Ratio %	

Loading Reading :

penetration	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (kg)	141.00	268.00	413.00	592.00	758.00	898.00	1085.00	1241.00	1521.00
Load (KN)	1.4	2.6	4.0	5.8	7.4	8.8	10.6	12.2	14.9



Calculations :

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	M-45 - Compaction (%)	Compaction (%)	CBR (%)
2.50	5.80	13.4	43.5%			
5.00	12.16	28.0	60.7%	99	100	61.3%

Lab. Specialist

Consultant Engineer

Name :

Name :

Sign :

المعمل المركزي
شركة جمعه بدر نوح

Ramallah Tarek

محضر استلام موقع

عملية: اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي
السريع الخط الاول (العين السخنة - العاصمة الادارية - العلمين - مطروح) قطاع
فوكة - مطروح مرحلة تشكيل الجسور وطبقات التأسيس وخرسانات الميول
المسافة من الكم 557+960 الى الكم 558+120 بطول 0.160 كم

تنفيذ: مكتب مجدي بخيت متى بنيامين

إشراف : المنطقة الخامسة - منطقة غرب الدلتا

طبقاً للعقد رقم (2024/2023/507) بتاريخ : 2023/10/15

انه في يوم الثلاثاء الموافق 2023/11/7 اجتمع كل من:-

- 1- السيد المهندس / محمد حسني فياض مدير عام المشروعات - الهيئة العامة للطرق والكباري
- 2- السيد المهندس / إبراهيم عبد الله الحناوي مهندس العملية - الهيئة العامة للطرق والكباري
- 3- السيد المهندس / علي الشربيني مدير مشروع - مكتب مجدي بخيت متى بنيامين

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 2023/11/11 هو تاريخ استلام الموقع وبدء الأعمال بالعملية.
واقفل المحضر على ذلك ووقع الحضور

التوقيعات

3- علي محمد الشربيني

2- محمد حسني فياض

1- محمد حسني فياض

رئيس الإدارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عميد . مهندس /

"هاني محمد محمود طه"

٢٠٢٣/١١/١١