

MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SINA COMPANY شركة كينو سينا		Designer Company																	
Issued by Contractor	Name Eng. Ahmed Abdallah	Sign [Signature]	Date 17-01-2023	Time																
Contractor reference	KS2 - (09)																			
Received by ER	A I	MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>KP509</td> <td>EW</td> <td>CS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	KP509	EW	CS						
C1	C2	C3	DD	MM	YY	HH	MM													
KP509	EW	CS																		

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			
	509+600	509+700	509+700	509+800	(-7.00)	
	509+700	509+800	509+800	509+880	(-6.50)	
	509+840	509+880	509+880	509+880	(-5.50)	
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	14-01-2023		
2	Classification	m³	5000	14-01-2023		
3	Proctor & O.m.c	m³	5000	15-01-2023		
4	L.L & P.L & PI	m³	5000	15-01-2023		
5	C.B.R	m³	5000	17-01-2023		
Comments by:			Comments by:			
A sample has been taken from fill material by K.K office to (Al Twakol laboratory) and the results founded meet the specifications and accepted.			TEST RESULTS FOR ESTIMATED QUANTITIES OF ABOUT 5000 m³.			
APPROVAL STATUS						
Organisation	Name	Sign	Date	A-AWC-R		
Contractor	Ahmed Abdallah	Ahmed	17-01-2023			
QA/QC *	mohamed elsaied	[Signature]	17-01-2023			
GARB**	Hussien Fouad	[Signature]	17-01-2023			
Employers Representative	A I	[Signature]	17/1/23	A		

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company		Designer Company																
Electric express train	KNOOZ SINA COMPANY		k.k																
Issued by Contractor	Name	Sign	Date	Time															
	Ahmed Abdallah		17-01-2023																
Contractor Reference	KS2 - (09)																		
Received by ER	A2	MAR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>KP509</td> <td>EW</td> <td>CS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	KP509	EW	CS					
C1	C2	C3	DD	MM	YY	HH	MM												
KP509	EW	CS																	

NB:Package 1 only (Package 2 via Content)				
The following test result are attached for review				
Description of Materials	Soil (A-1-b)			
Location of stock	K.p (509+580)			
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	14.6 %	
4	ASTM D 4318	Atterberg limit	3.74 %	
5	ASTM D 2974	Moisture content	8.5 %	
6	ASTM D 1557	Modified proctor	2.15	
7	ASTM D 1883	CBR	61.6 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdallah		17-01-2023	
Contractor QA/QC *	mohamed elsaied		17-01-2023	
GARB**	Hussien Fouad		17-01-2023	
Employers Representative	A2		17/1/23	A

* Designer

** Alignment/Bridges: Culvert only

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ. د. خالد قنديل	 SVS/TA	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 565+177	 الهيئة العامة للنقل (ARE)
Opresting lap	Al Tewkol Central Lab		

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	14-01-2023	code	ZONE	509+580	510+000
LOCATION	K.P (509+580)	K52 (09)	Material	fill material	
NAME COMPANY	knouz sina2		quantity	5000	

1-visual inspection test

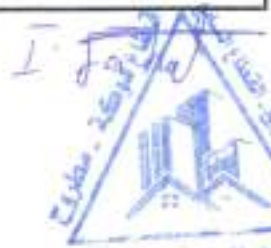
2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		32970.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	5/3	# 4	PASS	soil classify
Mass retained (g)	2833.0	2865.0	2053.0	2588.0	2433.0	1778.0	1855.0		A-1-b
Cumulative Retained (g)	2833.0	5698.0	7751.0	10339.0	12772.0	14550.0	16405.0	PRO	2.15
Cumulative Retained %	8.6	17.3	23.5	31.4	38.7	44.1	49.8	WC	8.5
Cumulative Passing %	91.4	82.7	76.5	68.6	61.3	55.9	50.2	CBR	61.6

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	60.00	185.00	355.00					
Cumulative Retained %	12.00	37.00	71.00					
Cumulative Passing %	88.00	63.00	29.00					

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 %	91.4	82.7	76.5	68.6	61.3	55.9	50.2	44.2	31.7	14.6

ATTERBERG LIMTS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
	24.67%	20.93%	3.74%

Contractor  	Consultant  	
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 جمهورية مصر العربية وزارة النقل والمواصلات الهيئة العامة للإسكان	 جمهورية مصر العربية وزارة الإسكان الهيئة العامة للإسكان	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		 جمهورية مصر العربية وزارة التخطيط الهيئة العامة للإسكان

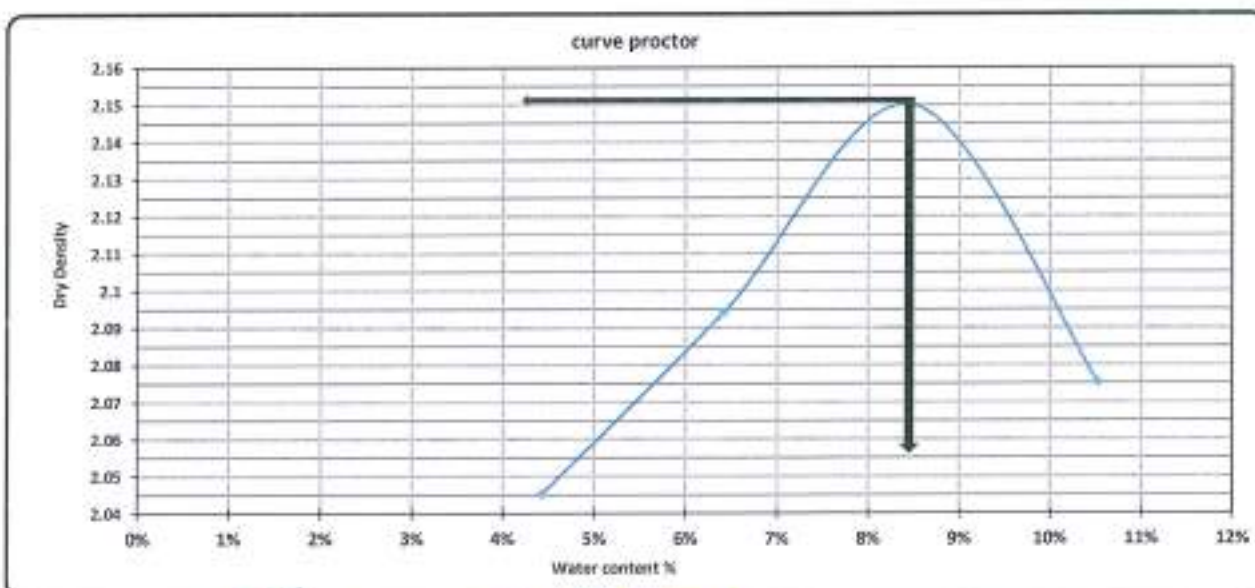
PROCTOR TEST

TESTING DATE:	15-01-2023	code	Station	509+580	510+000
LOCATION	K.P (509+580)	KS2 (08)	Material	fill material	
NAME COMPANY	knouz sina2		quantity	5000	

Weight of empty mold :	5620.0	MAX Dry Density	2.15
Mold Volume:	2030.0	Water content %	8.5

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	9956.0	10144.0	10355.0	10276	
WT. WET SOIL	4336.0	4524.0	4735.0	4656.0	
Wt. Density	2.136	2.229	2.333	2.294	

Tare No.	5	11	8	6	4	10	21	23		
Tare wt.	56.3	55.33	57.06	53.97	55.33	55.63	54.42	54.4		
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	146.2	145.8	144.4	144.2	142.5	142.7	141.0	140.8		
Wt. Of water	3.8	4.2	5.6	5.8	7.5	7.3	9.0	9.2		
Wt. Of dry soil	89.9	90.5	87.3	90.2	87.2	87.3	86.6	86.4		
Water content %	4.2%	4.6%	6.4%	6.4%	8.6%	8.4%	10.4%	10.6%		
AV. Water content %	4.4%		6.4%		8.5%		10.5%			
Dry Density	2.045		2.094		2.150		2.075			



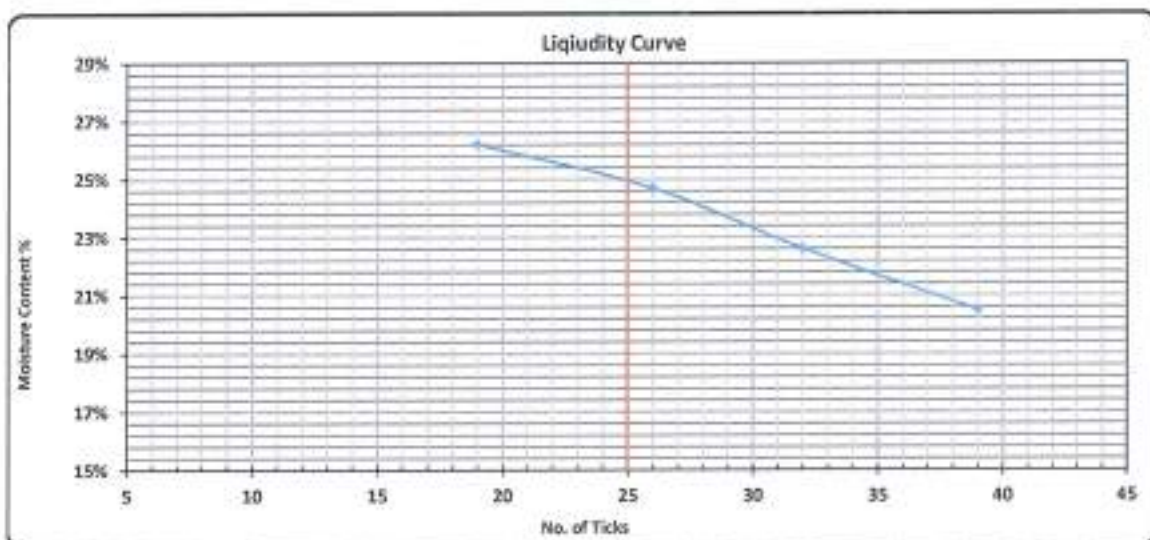
 	Electric Express Train - HSR	 
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Plasticity and Liquidity Test -Atterberg Limits

Testing Date:	15-01-2023	Code:	FROM STA:	509+500	TO STA:	510+000
Location:	K.P (509+580)	KS2 (09)	Material:		fill material	
Company Name	knouz sina2		quantity		5000.00	

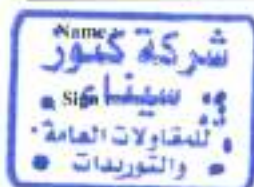
Testing Results :-

Test	Liquid Limit				Plastic Limit	
No. of Ticks	39	32	26	19	-	-
Tare No.	1	6	8	12	4	9
Tare WT. (gm)	52.81	53.97	57.06	54.83	55.33	55.88
Tare WT. + Wet WT. (gm)	72.80	76.20	76.50	71.20	59.80	60.20
Tare WT. + Dry WT. (gm)	69.40	72.10	72.65	67.80	59.1	59.4
Water WT. (gm)	3.40	4.10	3.85	3.40	0.75	0.77
Dry WT. (gm)	16.59	18.13	15.59	12.97	3.72	3.55
Moisture Content %	20.5%	22.6%	24.7%	26.2%	20.2%	21.7%
Average %					20.9%	



L.L.	P.L.	P.I
24.67%	20.93%	3.74%

Lab. Specialist	Lab. Engineer	Consultant Engineer
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Name: Ibrahim Fahmy

Sign: [Signature]

المهندس الميكانيكي رقم (١)

Name: mohamed elsaied

Sign: [Signature]

17-1-2023

 	Electric Express Train - HSR	 
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California Bearing Ratio TEST

Testing Date :	17-01-2023	Code	FROM STA :	509+500	TO STA :	510+000
Location :	K.P (509+500)	KS2 (09)	Material		fill material	
Company Name	knouz sba2		Quantity		5000.00	

Test Results

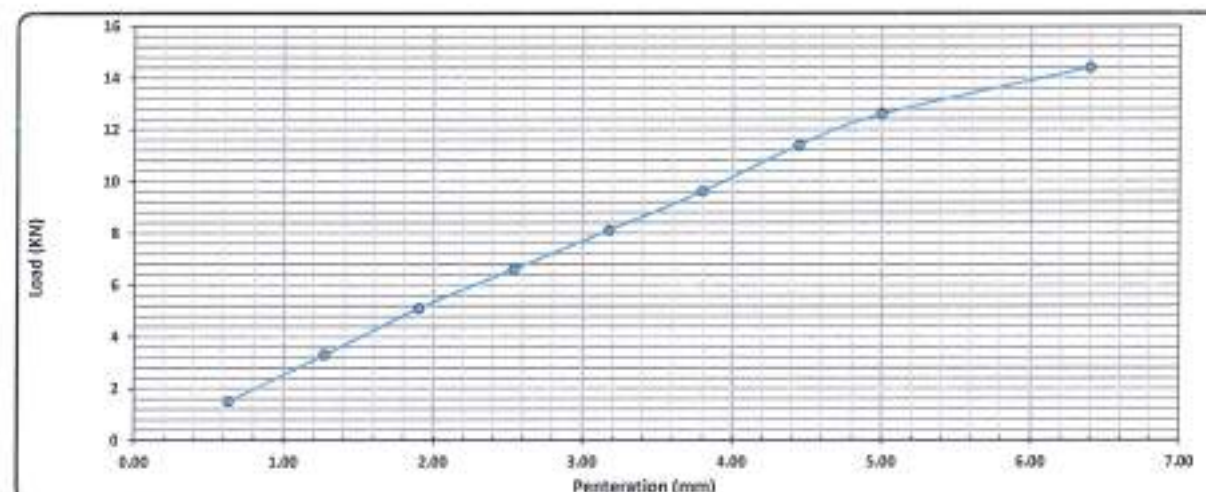
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	1168
Mold WT. (gm)	5089
Mold WT. + Wet WT. (gm)	10159
Wet WT. (gm)	5061
Wet Density (g/cm ³)	3.314
Dry Density (g/cm ³)	2.151
Proctor Density (g/cm ³)	2.156
Compaction %	99.8

Moisture Ratio After Compacted Mold	
Tare No.	24
Tare WT. (gm)	35.83
Tare WT. + Wet WT. (gm)	159
Tare WT. + Dry WT. (gm)	142.6
Water WT. (gm)	7.4
Dry WT. (gm)	86.8
Moisture Content %	8.5

Swelling	
Mold No.	2
Date	17-01-2023
Initial Height (mm)	6.00
Final Height (mm)	6.00
Difference	0
Sample Height (mm)	12.10
Swelling Ratio %	0%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (mm)	0.05	0.11	0.17	0.22	0.27	0.32	0.38	0.42	0.48
Load (KN)	1.5	3.3	5.1	6.6	8.1	9.6	11.4	12.6	14.4



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Ka)	(Kb)	(%)	(%)	(%)	% على نسبة 98
2.50	6.60	13.4	49.4%	100	98	48.4%
5.00	12.60	20.0	62.9%			61.6%

Lab. Specialist

Name :



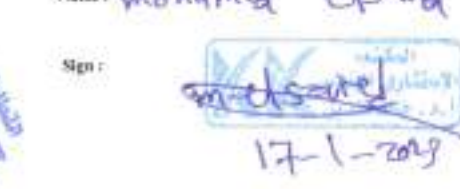
Lab. Engineer

Name :



Consultant Engineer

Name :



MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SINA COMPANY شركة كنوز سيناء		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng. Ahmed Abdallah		21-01-2023																	
Contractor reference	KS2 - (10)																			
Received by ER	AZ	MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>KP509</td> <td>EW</td> <td>CS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	KP509	EW	CS						
C1	C2	C3	DD	MM	YY	HH	MM													
KP509	EW	CS																		

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				
	509+740	509+800	(-5.50)			
	509+840	509+880	(-5.00)			
	509+600	509+700	(-6.50)			
	509+840	509+900	(-4.50)			
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	m ³	5000	18-01-2023		
2	Classification	m ³	5000	18-01-2023		
3	Proctor & O.m.c	m ³	5000	19-01-2023		
4	LL & P.L & PI	m ³	5000	19-01-2023		
5	C.B.R	m ³	5000	21-01-2023		
Comments by:			Comments by:			
A sample has been taken from fill material by K.K office to (Al Twakol laboratory) and the results founded meet the specifications and accepted.			TEST RESULTS FOR ESTIMATED QUANTITIES OF ABOUT 5000 m ³ .			
APPROVAL STATUS						
Organisation	Name	Sign	Date	A-AWC-R		
Contractor	Ahmed Abdallah		21-01-2023			
QA/QC *	mohamed elsaied		21-01-2023			
GARB**	Hussien Fouad		21-01-2023			
Employers Representative	AZ		21/1/23	A		

* Designer

** Alignment / Bridges: Culvert Only

Location Name	Contractor Company			Designer Company		
Electric express train	KNOOZ SINA COMPANY			k.k		
Issued by Contractor	Name	Sign	Date	Time		
	Ahmed Abdallah		21-01-2023			
Contractor Reference	KS2 - (10) - 21-01-2023					
Received by ER	A2		MAR	C1	C2	C3
				KP509	EW	CS
				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-b)			
Location of stock	K.p (509+580)			
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	11.9 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.4 %	
6	ASTM D 1557	Modified proctor	2.17	
7	ASTM D 1883	CBR	58.7 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdallah		21-01-2023	
Contractor QA/QC *	Abdallah SAMY		21-01-2023	
GARB**	Hussien Fouze		21-01-2023	
Employers Representative	A2		21/1/23	

* Designer

** Alignment/Bridges: Culvert only



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



Operating lap

Al Tewkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	18-01-2023	code	ZONE	509+580	510+000
LOCATION	K.P (509+580)	KS2 (010)	Material	fill material	
NAME COMPANY	knooz sina2		Quantity	5000	

-visual inspection test

-Gradient test

I-gradation of bulk materials				SAMPLE WEIGHT (g)		37690.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	3266.0	3.0	2996.0	2866.0	2536.0	2911.0	2685.0		A-1-b
Cumulative Retained (g)	3266.0	3269.0	6265.0	9131.0	11667.0	14578.0	17263.0		PRO
Cumulative Retained %	8.7	8.7	16.6	24.2	31.0	38.7	45.8		WC
Cumulative Passing %	91.3	91.3	83.4	75.8	69.0	61.3	54.2		CBR

I-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	55.00	215.00	390.00					
Cumulative Retained %	11.00	43.00	78.00					
Cumulative Passing %	89.00	57.00	22.00					

I-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 %	91.3	91.3	83.4	75.8	69.0	61.3	54.2	48.2	30.9	11.9

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

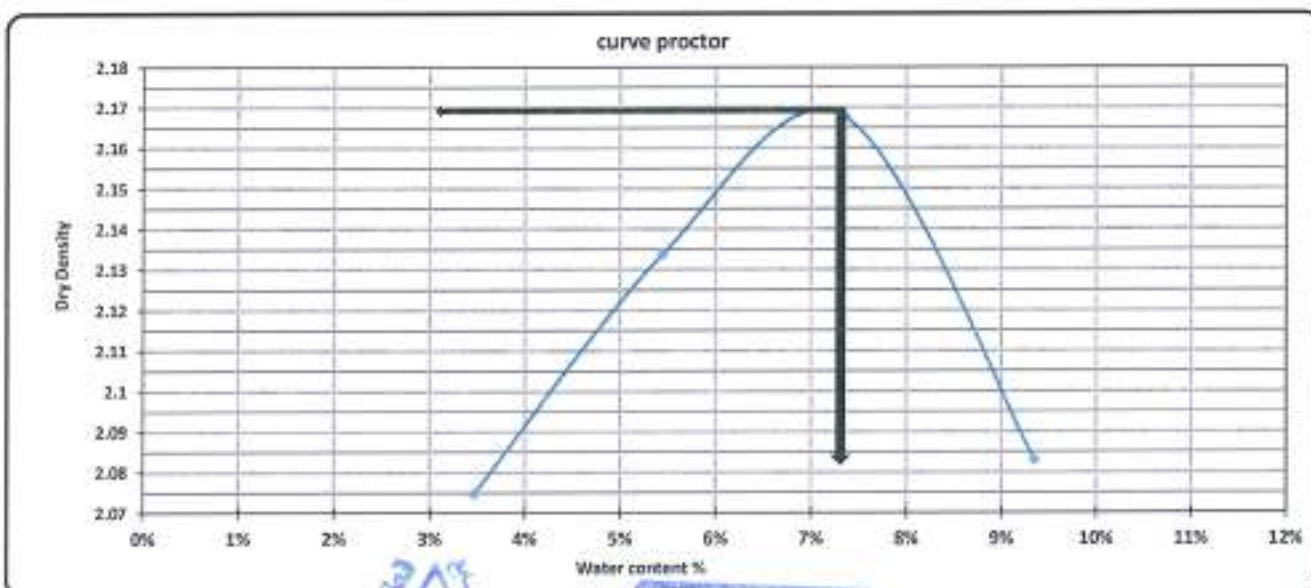
PROCTOR TEST

TESTING DATE:	19-01-2023	code	Station	509+580	510+000
LOCATION	K.P (509+580)	KS2 (010)	Material	fill material	
NAME COMPANY	knooz sina2		Quantity	5000	

Weight of empty mold :	5620.0	MAX Dry Density	2.17
Mold Volume:	2030.0	Water content %	7.4

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	9978.0	10188.0	10344.0	10244	
WT. WET SOIL	4358.0	4568.0	4724.0	4624.0	
Wt. Density	2.147	2.250	2.327	2.278	

Tare No.	2	7	13	11	16	18	20	21		
Tare wt.	52.81	53.52	53.21	55.33	56.51	55.38	55.02	54.4		
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	146.8	146.7	144.9	145.2	143.6	143.5	142.0	141.7		
Wt. Of water	3.2	3.3	5.1	4.8	6.4	6.5	8.0	8.3		
Wt. Of dry soil	94.0	93.2	91.7	89.9	87.1	88.1	87.8	87.3		
Water content %	3.4%	3.5%	5.6%	5.3%	7.3%	7.4%	9.2%	9.5%		
AV. Water content %	3.5%		5.5%		7.4%		9.4%			
Dry Density	2.075		2.134		2.168		2.083			



Contractor

E. Fohat
المعمل المركزي رقم 1



Consultant

Abdost
المستشار المهندس
م.ع. خالد قنديل

California Bearing Ratio TEST

Testing Date :	21-01-2023	Code	FROM STA :	509+580	TO STA :	510+000
Location :	K.P (509+580)	KS2 (010)	Material	fill material		
Company Name	knorz sinn2		Quantity	5000		

Test Results

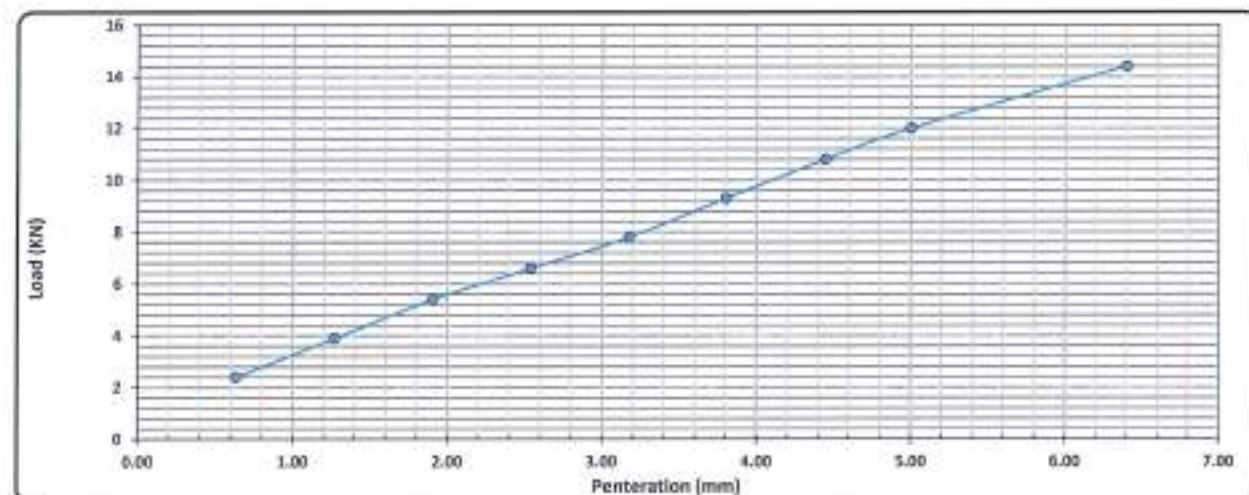
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2158
Mold WT. (gms)	4886
Mold WT. + Wet WT. (gms)	8925
Wet WT. (gms)	5038
Wet Density (g/cm ³)	2.333
Dry Density (g/cm ³)	2.178
Proctor Density (g/cm ³)	2.178
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	18
Tare WT. (gms)	85.38
Tare WT. + Wet WT. (gms)	158
Tare WT. + Dry WT. (gms)	143.4
Water WT. (gms)	6.6
Dry WT. (gms)	86.8
Moisture Content %	7.5

Swelling	
Mold No.	1
Date	21-01-2023
Initial Height (mm)	4.59
Final Height (mm)	4.59
Difference	0
Sample Height (mm)	12.00
Swelling Ratio %	0%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.09	6.40
Load Reading (mm)	0.08	0.13	0.18	0.22	0.26	0.33	0.36	0.40	0.48
Load (KN)	2.4	3.9	5.4	6.6	7.8	9.3	10.8	12.0	14.4



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	58.7 %
2.50	6.68	13.4	49.4%	100	98	48.6%
5.09	12.00	20.0	59.9%			58.7%

Lab. Specialist

Name :

Sign :



Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :



MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SINA COMPANY		Designer Company																	
Issued by Contractor	Name Eng. Ahmed Abdallah	Sign <i>Ahmed</i>	Date 22-01-2023	Time																
Contractor reference	KS2 - (11) - 22-01-2023																			
Received by ER	<i>AZ</i>	<i>[Signature]</i>	MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>KP509</td> <td>EW</td> <td>CS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	KP509	EW	CS					
C1	C2	C3	DD	MM	YY	HH	MM													
KP509	EW	CS																		

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		
		509+740	509+840	(-5.00)	
		509+840	509+900	(-4.00)	
		509+660	509+740	(-6.00)	
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	19-01-2023	
2	Classification	m³	5000	19-01-2023	
3	Proctor & O.m.c	m³	5000	20-01-2023	
4	L.L & P.L & PI	m³	5000	20-01-2023	
5	C.B.R	m³	5000	22-01-2023	
Comments by:		Comments by:			
A sample has been taken from fill material by K.K office to (Al Twakol laboratory) and the results founded meet the specifications and accepted.		Test results For estimated quantities of about [5000]			
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Ahmed Abdallah	<i>Ahmed</i>	22-01-2023		
QA/QC *	Abdullah S.M.Y	<i>Abdullah</i>	22-01-2023		
GARB**	Hussien Fouad	<i>Hussien</i>	22-01-2023		
Comments by					
Employers Representative	<i>AZ</i>	<i>[Signature]</i>	22/1/23	A	

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Location Name	Contractor Company			Designer Company		
Electric express train	KNOOZ SINA COMPANY			k.k		
Issued by Contractor	Name	Sign	Date	Time		
	Ahmed Abdallah		22-01-2023			
Contractor Reference	KS2 - (11) - 22-01-2023					
Received by ER			MAR	C1	C2	C3
				KP509	EW	CS
				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-b)			
Location of stock	K.p (509+580)			
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	12.6 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.5 %	
6	ASTM D 1557	Modified proctor	2.16	
7	ASTM D 1883	CBR	67.5 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdallah		22-01-2023	
Contractor QA/QC *	Abdullah Samir		22-01-2023	
GARB**	Hussien Fouad		22-01-2023	
Employers Representative	A Z		22/1/23	A

* 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 569+177



Operating lap

Al Tewkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	18-01-2023	code	ZONE	509+580	510+000
LOCATION	K.P (509+580)	KS2 (011)	Material	fill material	
NAME COMPANY	Knouz sina2		Quantity	5000	

-visual inspection test

-Gradient test

1-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
Mass retained (g)	2812.0	2764.0	2025.0	2530.0	2418.0	1632.0	1856.0		A-1-b
Cumulative Retained (g)	2812.0	5578.0	7601.0	10131.0	12549.0	14181.0	16037.0	PRO	2.16
Cumulative Retained %	9.0	17.9	24.3	32.5	40.2	45.4	51.4	WC	7.5
Cumulative Passing %	91.0	82.1	75.7	70.1	59.8	54.6	48.6	CBR	67.5

1-soft material gradation

				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	70.00	150.00	370.00					
Cumulative Retained %	14.00	30.00	74.00					
Cumulative Passing %	86.00	70.00	26.00					

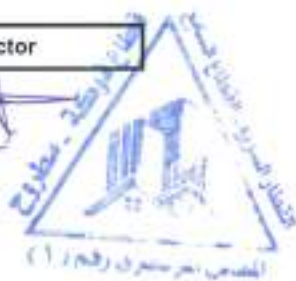
1-General gradient

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 %	91.0	82.1	75.7	70.1	59.8	54.6	48.6	41.8	34.0	12.6

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

Contractor

I. forhat



Consultant

Abdelhak



 K.K. KONSULTING & CONSTRUCTION شركة ك.ك. للتصميم والبناء أو تشارك	 HSR High Speed Rail	Electric Express Train - HSR		 قناة السويس SUEZ CANAL	 الهيئة العامة للقناة SUEZ CANAL AUTHORITY
		From El Ain El Sokhna City To El Alamein - MATROUH			
		Section - 7 From FOKA TO MARS MATROUH			
From Station 504+000 To Station 565+177					

PROCTOR TEST

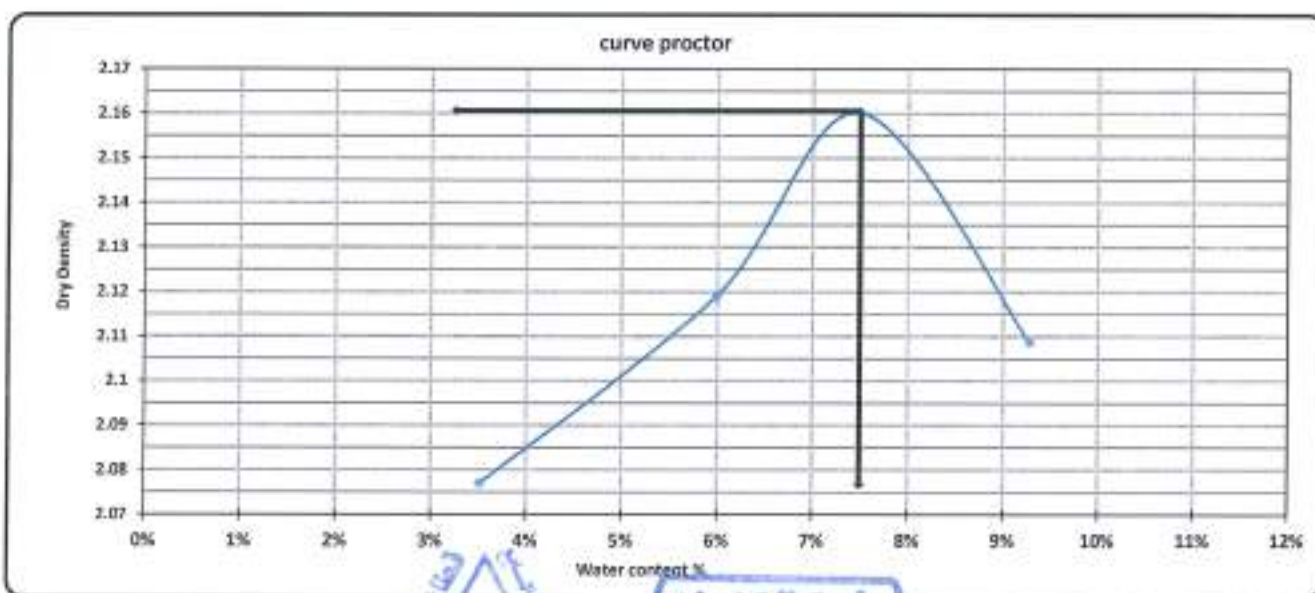
TESTING DATE:	20-01-2023	code	Station	509+580	510+000
LOCATION	K.P (509+580)	KS2 (011)	Material	fill material	
NAME COMPANY	knouz sina2		quantity	5000	

Weight of empty mold :	5620.0
Mold Volume:	2030.0

MAX Dry Density	2.161
Water content %	7.5

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	9985.0	10180.0	10334.0	10298	
WT. WET SOIL	4365.0	4560.0	4714.0	4678.0	
Wt. Density	2.150	2.246	2.322	2.304	

Tare No.	2	5	21	6	10	11	14	15		
Tare wt.	52.81	56.3	70.1	53.97	55.43	55.33	53.66	54.41		
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	146.6	146.9	144.9	144.9	143.2	143.6	141.8	141.9		
Wt. Of water	3.4	3.1	5.1	5.1	6.8	6.4	8.2	8.1		
Wt. Of dry soil	93.8	90.6	74.8	90.9	87.8	88.3	88.1	87.5		
Water content %	3.6%	3.4%	6.8%	5.6%	7.7%	7.3%	9.3%	9.3%		
AV. Water content %	3.5%		6.0%		7.5%		9.3%			
Dry Density	2.077		2.119		2.160		2.109			



Contractor

I. Farhat

الممثل المبرمج رقم (1)



Consultant

Abdallah



Sign:

MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SINA COMPANY		Designer Company																	
Issued by Contractor	Name Eng. Ahmed Abdallah	Sign 	Date 22-01-2023	Time																
Contractor reference	KS2 - (12)																			
Received by ER	A2	MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>KPS09</td> <td>EW</td> <td>CS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	KPS09	EW	CS						
C1	C2	C3	DD	MM	YY	HH	MM													
KPS09	EW	CS																		

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		
		509+840	509+900	(-3.50)	
		509+740	509+840	(-4.50)	
		509+660	509+740	(-6.00)	
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	m ³	5000	19-01-2023	
2	Classification	m ³	5000	19-01-2023	
3	Proctor & O.m.c	m ³	5000	20-01-2023	
4	L.L & P.L & PI	m ³	5000	20-01-2023	
5	C.B.R	m ³	5000	22-01-2023	
Comments by:			Comments by:		
A sample has been taken from fill material by K.K office to (Al Twakol laboratory) and the results founded meet the specifications and accepted.			TEST RESULTS FOR ESTIMATED QUANTITIES OF ABOUT 5000 m ³ .		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Ahmed Abdallah	Ahmed	22-01-2023		
QA/QC *	mohamed elsaied		22-01-2023		
GARB**	Hussien Fouad		22-01-2023		
Employers Representative	A2		22/1/23		

* Designer

** Alignment / Bridges: Culvert Only



Location Name	Contractor Company			Designer Company	
Electric express train	KNOOZ SINA COMPANY			k.k	
Issued by Contractor	Name	Sign	Date	Time	
	Ahmed Abdallah	Ahmed	22-01-2023		
Contractor Reference	KS2 - (12) - 22-01-2023				
Received by ER	A2	MAR			

NB:Package 1 only (Package 2 via Content)				
The following test result are attached for review				
Description of Materials	Soil (A-1-a)			
Location of stock	K.p (509+580)			
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	13.6 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.7 %	
6	ASTM D 1557	Modified proctor	2.17	
7	ASTM D 1883	CBR	60.2 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdelattah	Ahmed	22-01-2023	
Contractor QA/QC *	Abdelattah SAMY	Abdelattah	22-01-2023	
GARB**	Hussien Fouad	Hussien	22-01-2023	
Employers Representative	A2		22/1/23	A

* 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 lap

Al Tewkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	18-01-2023	code	ZONE	509+580	510+000
LOCATION	K.P(509+580)	KS2 (012)	material	fill material	
NAME COMPANY	knooz sina2		Quantity	5000	

1-visual inspection test

2-Gradient test

1-gradation of bulk materials				SAMPLE WEIGHT [g]		29440.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	2932.0	2846.0	2135.0	2536.0	2574.0	1805.0	2125.0		A-1-a
Cumulative Retained (g)	2932.0	5778.0	7913.0	10449.0	13023.0	14828.0	16953.0	PRO	2.17
Cumulative Retained %	10.0	19.6	26.9	35.5	44.2	50.4	57.6	WC	7.7
Cumulative Passing %	90.0	80.4	73.1	64.5	55.8	49.6	42.4	CBR	60.2

2-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	60.00	170.00	340.00					
Cumulative Retained %	12.00	34.00	68.00					
Cumulative Passing %	88.00	66.00	32.00					

3-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 %	90.0	80.4	73.1	64.5	55.8	49.6	42.4	37.3	28.0	13.6

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

Contractor

I. Farhat



Consultant



 شركة كينوز كينوز كينوز	 High Speed Rail كينوز	Electric Express Train - HSR		 قناة السويس كينوز	 قناة السويس كينوز
		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					

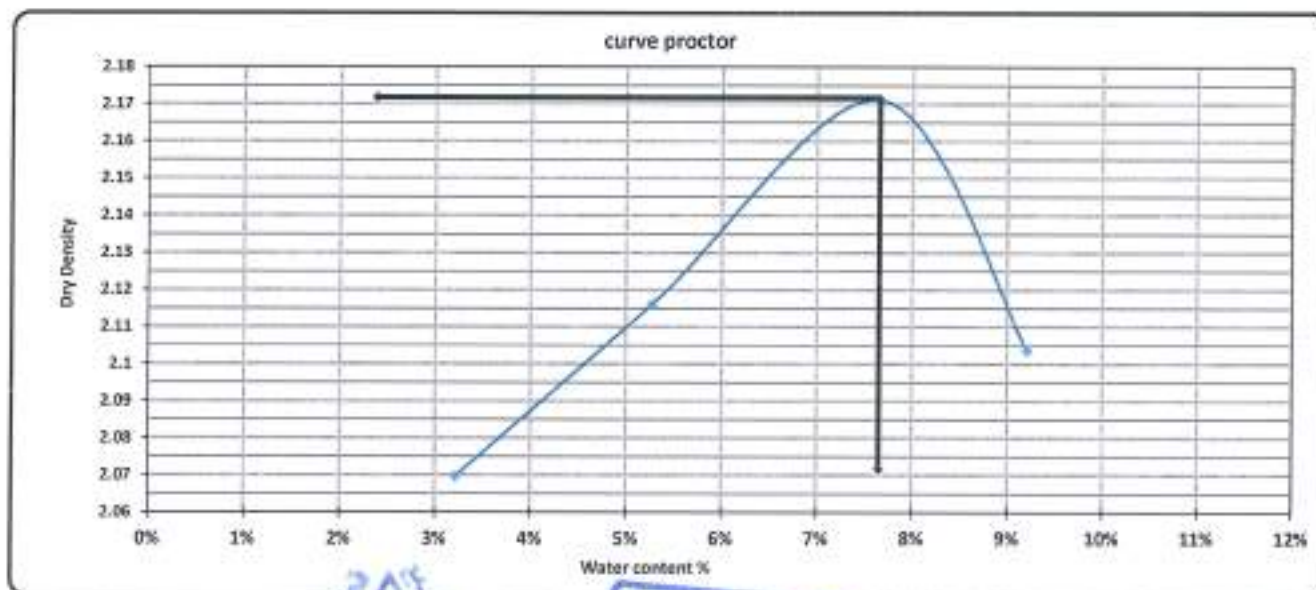
PROCTOR TEST

TESTING DATE:	20-01-2023	code	Station	509+580	510+000
LOCATION	K.P (509+580)	KS2 (012)	Material	fill material	
NAME COMPANY	knouz sina2		Quantity	5000	

Weight of empty mold :	5620.0	MAX Dry Density	2.171
Mold Volume:	2030.0	Water content %	7.7

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	9957.0	10142.0	10365.0	10284	
WT. WET SOIL	4327.0	4522.0	4745.0	4664.0	
Wt. Density	2.136	2.228	2.337	2.298	

Tare No.	3	4	5	6	9	15	16	20		
Tare wt.	55.72	55.33	56.3	53.97	55.88	54.41	56.51	55.82		
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	147.1	147.0	145.2	145.3	143.6	142.9	142.3	141.8		
Wt. Of water	2.9	3.0	4.8	4.7	6.4	7.1	7.7	8.2		
Wt. Of dry soil	91.4	91.7	88.9	91.3	87.7	88.5	85.8	86.8		
Water content %	3.2%	3.3%	5.4%	5.1%	7.3%	8.0%	9.0%	9.4%		
AV. Water content %	3.2%		5.3%		7.7%		9.2%			
Dry Density	2.070		2.116		2.171		2.104			



Contractor

E. Farhat
المهندس عمر فارح (م.د.ا.)

شركة كنوز
سيناء
للمقاولات العامة
والتوريدات

Consultant

المهندس
الاستشاري المهندس
أ.م. خالد أحمد

California Bearing Ratio TEST

Testing Date :	22-01-2023	Code	FROM STA :	509+580	TO STA :	510+000
Location :	K.P (509+580)	KS2 (012)	: Material	fill material		
Company Name	knouz sina2		Quantity	5000.00		

- : Test Results

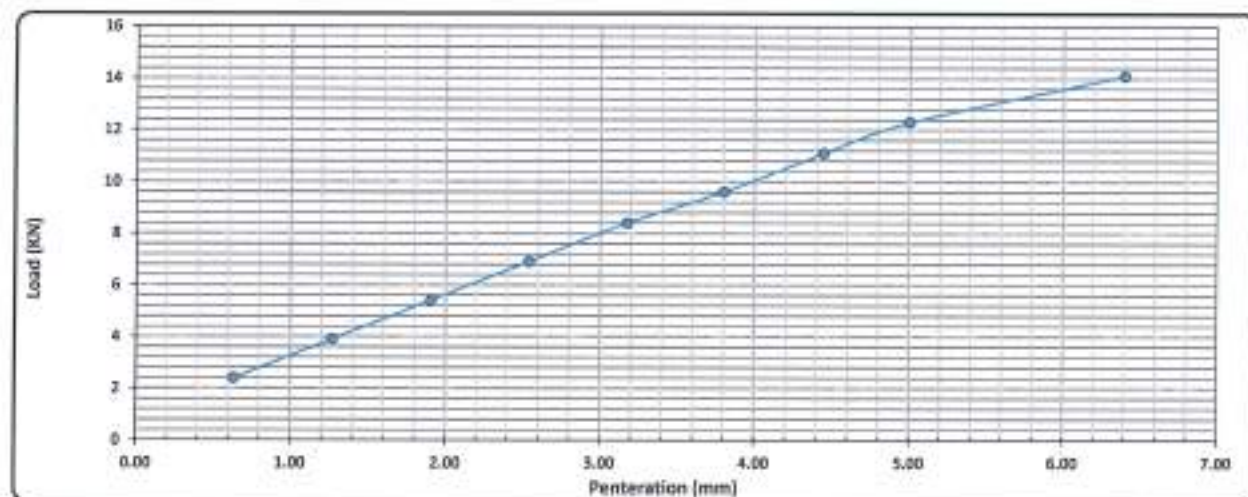
Compaction % for Mold	
Mold No.	5
Mold Vol. (cm ³)	2122
Mold WT. (gms)	4893
Mold WT. + Wet WT. (gms)	9765
Wet WT. (gms)	4962
Wet Density (g/cm ³)	2.338
Dry Density (g/cm ³)	2.171
Proctor Density (g/cm ³)	2.178
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	28
Tare WT. (gms)	55.82
Tare WT. + Wet WT. (gms)	150
Tare WT. + Dry WT. (gms)	143.2
Water WT. (gms)	6.8
Dry WT. (gms)	88.2
Moisture Content %	7.7

Swelling	
Mold No.	5
Date	22-01-2023
Initial Height (mm)	3.50
Final Height (mm)	3.50
Difference	0
Sample Height (mm)	12.00
Swelling Ratio %	0%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (mm)	0.08	0.13	0.18	0.23	0.28	0.32	0.37	0.41	0.47
Load (KN)	2.4	3.9	5.4	6.9	8.4	9.6	11.1	12.3	14.1



Calculations :

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR %
2.54	6.90	13.4	51.7%	100	98	50.6%
5.00	12.30	20.0	61.4%			60.2%

Lab. Specialist

Name :

Sign :



Lab. Engineer

Name :

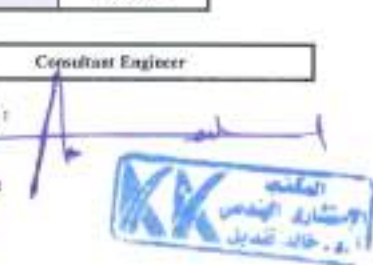
Sign :



Consultant Engineer

Name :

Sign :



MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SHIA COMPANY		Designer Company																	
Issued by Contractor	Name	Eng. Ahmed Abdallah	Date	31-01-2023																
Contractor reference	KS2 - (13)																			
Received by ER	AZ	MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>KP509</td> <td>EW</td> <td>C5</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		C1	C2	C3	DD	MM	YY	HH	MM	KP509	EW	C5					
C1	C2	C3	DD	MM	YY	HH	MM													
KP509	EW	C5																		

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		
		509+840	509+920	(-3.00)	
		509+900	509+920	(-3.50)	
		509+600	509+740	(-5.50)	
		509+620	509+740	(-4.50)	
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	28-1-2023	
2	Classification	m³	5000	28-1-2023	
3	Proctor & O.m.c	m³	5000	29-1-2023	
4	L.L & P.L & PI	m³	5000	29-1-2023	
5	C.B.R	m³	5000	31-1-2023	
Comments by:			Comments by:		
A sample has been taken from fill material by K.K office to (Al Twakol laboratory) and the results founded meet the specifications and accepted.			TEST RESULTS FOR ESTIMATED QUANTITIES OF ABOUT 5000 m³.		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Ahmed Abdallah	Ahmed	31-01-2023		
QA/QC *	mohamed elsaied	mohamed	31-01-2023		
GARB **	Hussien Fouad	Hussien	31-01-2023		
Employers Representative	AZ		31/1/23	A	

* Designer
** Alignment / Bridges: Culvert Only



Location Name	Contractor Company			Designer Company							
Electric express train	KNOOZ SINA COMPANY			k.k							
Issued by Contractor	Name	Sign	Date	Time							
	Ahmed Abdallah	<i>Ahmed</i>	31-01-2023								
Contractor Reference	KS2 - (13) - 31-1-2023										
Received by ER	A 2	<i>[Signature]</i>	MAR	C1	C2	C3	DD	MM	YY	HH	MM
				KPS09	EW	CS					

NB: Package 1 only (Package 2 via Content)				
The following test result are attached for review				
Description of Materials		Soil (A-1-a)		
Location of stock		K.p (509+580)		
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	13.5 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	6.9 %	
6	ASTM D 1557	Modified proctor	2.16	
7	ASTM D 1883	CBR	58.3 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdallah	<i>Ahmed</i>	31-01-2023	
Contractor QA/QC *	Mohamed elsaied	<i>Mohamed elsaied</i>	31-01-2023	
GARB**	Hussien Fouad	<i>Hussien Fouad</i>	31-01-2023	
Employers Representative	A 2	<i>[Signature]</i>	31/1/23	

* Designer

** Alignment/Bridges: Culvert only



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 588+177



PROCTOR TEST

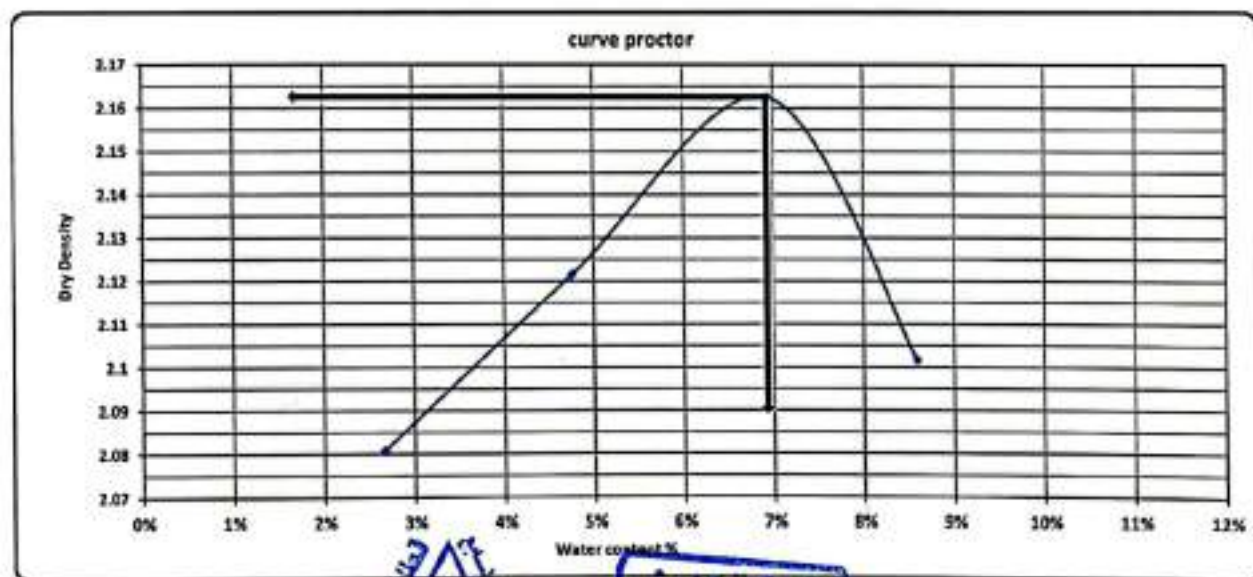
TESTING DATE:	29-01-2023	code	Station	509+580	510+000
LOCATION	K.P (509+580)	KS2 (013)	Material	fill material	
NAME COMPANY	knouz sina2		quantity	5000	

Weight of empty mold :	5620.0
Mold Volume:	1030.0

MAX Dry Density	2.163
Water content %	6.9%

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	9957.0	10132.0	10315.0	10253	
WT. WET SOIL	4337.0	4512.0	4695.0	4633.0	
Wt. Density	2.134	2.123	2.113	2.282	

Tare No.	5	4	1	2	11	12	3	9		
Tare wt.	56.3	55.33	58.03	52.74	55.9	54.77	55.7	55.94		
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	147.6	145.8	145.6	143.9	143.8	142.3	142.8		
Wt. Of water	2.5	2.4	4.2	4.4	6.1	6.2	7.7	7.2		
Wt. Of dry soil	91.2	92.3	87.8	92.9	88.0	89.0	86.6	86.9		
Water content %	2.7%	2.6%	4.8%	4.7%	6.9%	7.0%	8.9%	8.3%		
AV. Water content %	2.7%		4.8%		6.9%		8.6%			
Dry Density	2.081		2.122		2.163		2.102			



Contractor

F. Fahat
 المهندس فهد فهد
 العمل المشترك رقم 1

شركة كنوز سيناء
 للمقاولات العامة
 والتوريدات

Consultant

Mohamed Elmaghrabi
 المهندس محمد المغرabi
 31-1-2023

California Bearing Ratio TEST

Testing Date :	31/01/2023	Code	FROM STA :	509+580	TO STA :	510+000
Location :	K.P (509+580)	KS2 (913)	Material	fill material		
Company Name	knouz snc2		quantity	5000.00		

Test Results

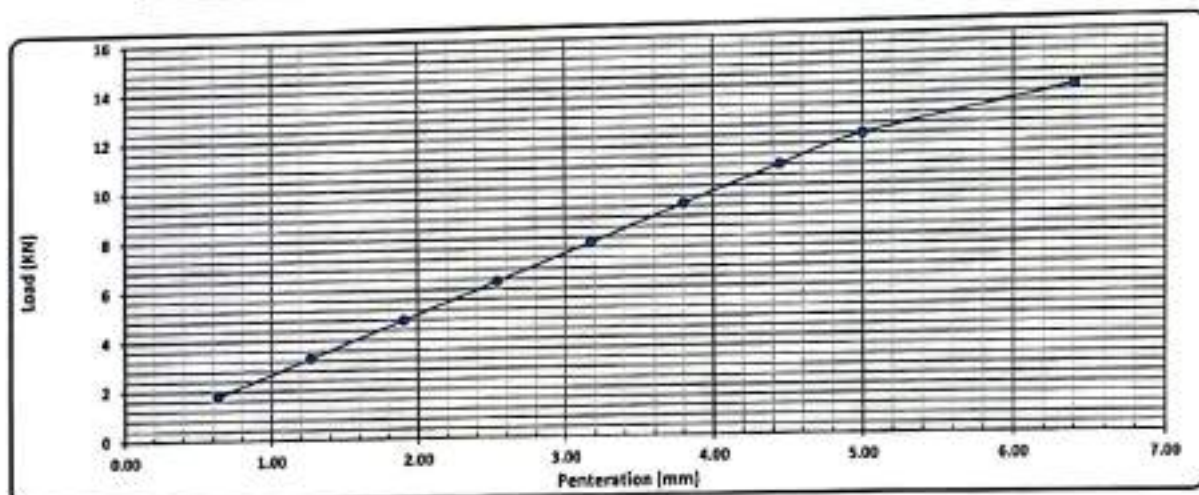
Compaction % for Mold	
Mold No.	3
Mold Vol. (cm ³)	2168
Mold WT. (gm)	5989
Mold WT. + Wet WT. (gm)	10135
Wet WT. (gm)	5046
Wet Density (g/cm ³)	2.327
Dry Density (g/cm ³)	2.177
Proctor Density (g/cm ³)	2.160
Compaction %	100.8

Moisture Ratio After Compacted Mold	
Tare No.	24
Tare WT. (gm)	6.83
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	140.7
Water WT. (gm)	9.3
Dry WT. (gm)	134.5
Moisture Content %	6.9

Swelling	
Mold No.	3
Date	04/02/2023
Initial Height (mm)	4.00
Final Height (mm)	4.00
Difference	0
Sample Height (mm)	11.90
Swelling Ratio %	0%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.08	6.40
Load Reading (mm)	0.06	0.11	0.16	0.21	0.26	0.31	0.36	0.40	0.46
Load (KN)	1.8	3.3	4.8	6.3	7.8	9.3	10.8	12.0	13.8



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(KN)	(lb)	(%)	(%)	(%)	08 mm لينة %
2.50	6.30	13.4	47.2%	101	98	45.9%
5.00	12.00	20.0	60.0%			58.3%

Lab. Specialist

Name :

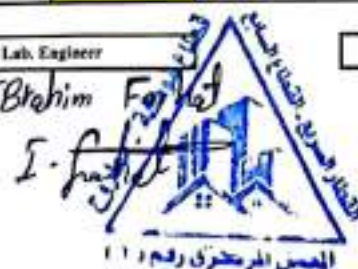
Sign :



Lab. Engineer

Name : IBrahim

Sign :



Consultant Engineer

Name : mohamed elsaied

Sign :



 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ك.إ. ك.إ. ك.إ.	 سكك الحديدية Egyptian Railways	Electric Express Train - HSR From El Ain El Bekhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 504+000 To Station 508+177		 وزارة النقل والاقتصاد وزارة النقل والاقتصاد

Operating lap: Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	28-01-2023	code	ZONE	509+560	510+000
LOCATION	K.P (509+580)	K52 (013)	Material	fill material	
NAME COMPANY	knooz sina2		Quantity	5000	

1-visual inspection test

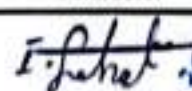
2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		18940.00		gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify	
Mass retained (g)	1250.0	1369.0	1463.0	1365.0	1380.0	1103.0	1132.0		A-1-a	
Cumulative Retained (g)	1250.0	2627.0	4090.0	5455.0	6835.0	7938.0	9070.0		PRO	2.18
Cumulative Retained %	6.6	13.9	21.6	28.8	36.1	41.9	47.9		WC	8.9
Cumulative Passing %	93.4	86.1	78.4	71.2	63.9	58.1	52.1		CBR	58.3

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	60.00	225.00	370.00					
Cumulative Retained %	12.00	45.00	74.00					
Cumulative Passing %	88.00	55.00	26.00					

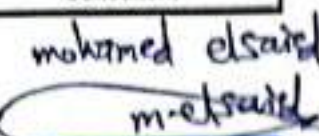
C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	93.4	86.1	78.4	71.2	63.9	58.1	52.1	45.9	26.7	13.5

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

Contractor


 المهندس احمد خنجرى رقم (١١)

شركة كنوز
 سيناء
 للتقانات العامة
 والتوريدات

Consultant



MATERIAL INSPECTION REQUEST



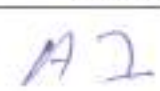
Contractor Company	KNOOZ SINA COMPANY		Designer Company																	
Issued by Contractor	Name Eng. Ahmed Abdallah	Sign 	Date 31-01-2023	Time																
Contractor reference	KS2 - (14)																			
Received by ER	A2	MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DO</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>KP505</td> <td>EW</td> <td>CS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DO	MM	YY	HH	MM	KP505	EW	CS						
C1	C2	C3	DO	MM	YY	HH	MM													
KP505	EW	CS																		

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		

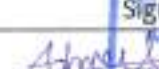
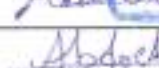
Description of Materials	FILL MATERIAL RESULTS																
Location to be Used	<table border="1"> <tr> <th>From</th> <th>To</th> <th></th> </tr> <tr> <td>509+660</td> <td>509+740</td> <td>(-5.00)</td> </tr> <tr> <td>509+840</td> <td>509+920</td> <td>(-2.50)</td> </tr> <tr> <td>509+740</td> <td>509+840</td> <td>(-3.00)</td> </tr> </table>					From	To		509+660	509+740	(-5.00)	509+840	509+920	(-2.50)	509+740	509+840	(-3.00)
From	To																
509+660	509+740	(-5.00)															
509+840	509+920	(-2.50)															
509+740	509+840	(-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	m ³	5000	28-1-2023													
2	Classification	m ³	5000	28-1-2023													
3	Proctor & O.m.c	m ³	5000	29-1-2023													
4	LL & P.L & PI	m ³	5000	29-1-2023													
5	C.B.R	m ³	5000	31-1-2023													
Comments by:			Comments by:														
A sample has been taken from fill material by K.K office to (Al Twakol laboratory) and the results founded meet the specifications and accepted.			TEST RESULTS FOR ESTIMATED QUANTITIES OF ABOUT 5000 m ³ .														
APPROVAL STATUS																	
Organisation	Name	Sign	Date	A-AWC-R													
Contractor	Ahmed Abdallah	Ahmed	31-01-2023														
QA/QC *	mohamed elsaied	mohamed elsaied	31-01-2023														
GARB**	Hussien Fouad	Hussien Fouad	31-01-2023														
Employers Representative	A2		31/1/23	A													

* Designer

** Alignment / Bridges: Culvert Only

Location Name	Contractor Company			Designer Company			
Electric express train	KNOOZ SINA COMPANY			k.k			
Issued by Contractor	Name	Sign	Date	Time			
	Ahmed Abdallah		31-01-2023				
Contractor Reference	KS2 - (14) - 31-1-2023						
Received by ER			MAR	C1	C2	C3	DD
				KP509	FW	CS	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 of stock	K.p (509+580)			
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	13.6 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.1 %	
6	ASTM D 1557	Modified proctor	2.16	
7	ASTM D 1883	CBR	60.2 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdallah		31-01-2023	
Contractor QA/QC *	Abdallah Samy		31-01-2023	
GARB**	Hussien Fouad		31-01-2023	
Employers Representative	A2		31/1/23	A

* Designer

** Alignment/Bridges: Culvert only

Operating lap

Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	28-01-2023	code	ZONE	509+580	510+000
LOCATION	K.P (509+580)	KS2 (014)	Material	fill material	
NAME COMPANY	knouz sina2		quantity	5000	

-visual inspection test

-Gradient test

-gradation of bulk materials				SAMPLE WEIGHT [g]		33270.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	2143.0	2541.0	2369.0	2486.0	2598.0	2774.0	2189.0		A-1-a
Cumulative Retained (g)	2143.0	4684.0	7053.0	9539.0	12137.0	14911.0	17100.0		PRO
Cumulative Retained %	6.4	14.1	21.2	28.7	36.5	44.8	51.4		WC
Cumulative Passing %	93.6	85.9	78.8	71.3	63.5	55.2	48.6		CBR

-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	45.00	192.00	360.00					
Cumulative Retained %	9.00	38.40	72.00					
Cumulative Passing %	91.00	61.60	28.00					

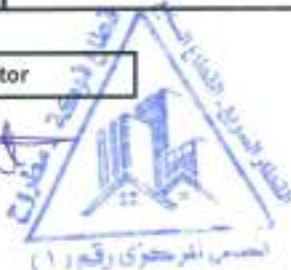
-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	93.6	85.9	78.8	71.3	63.5	55.2	48.6	44.2	29.9	13.6

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

Contractor

Consultant

I. Farhat



شركة كنوز
سيناء
للمقاولات العامة
والتوريدات

M. S. A.



 	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

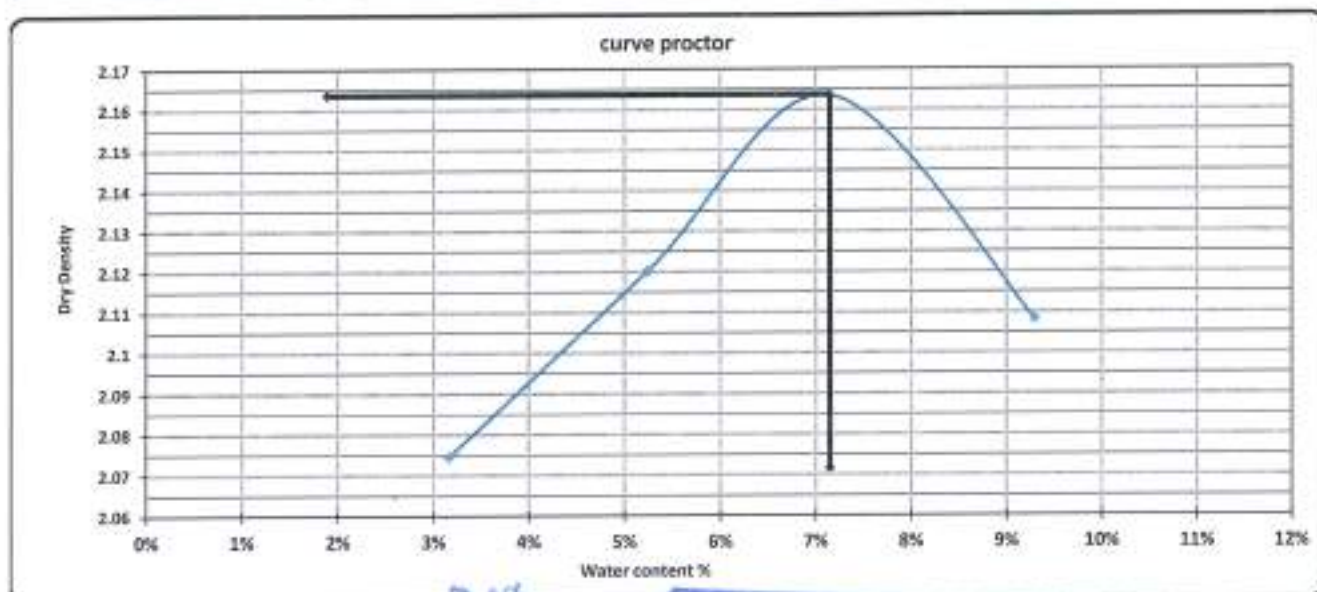
TESTING DATE:	29-01-2023	code	Station	509+580	510+000
LOCATION	K.P (509+580)	KS2 (014)	Material	fill material	
NAME COMPANY	K.P (509+580)		layer thickness	5000	

Weight of empty mold :	5620.0
Mold Volume:	2030.0

MAX Dry Density	2.16
Water content %	7.1%

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	9965.0	10150.0	10326.0	10298	
WT. WET SOIL	4345.0	4530.0	4706.0	4678.0	
Wt. Density	2.140	2.232	2.318	2.304	

Tare No.	14	15	20	21	22	23	24	19		
Tare wt.	53.66	54.41	55.02	54.42	54.76	54.4	55.83	56.08		
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	147.1	147.0	145.2	145.3	143.7	143.6	142.1	141.9		
Wt. Of water	2.9	3.0	4.8	4.7	6.3	6.4	7.9	8.1		
Wt. Of dry soil	93.4	92.6	90.2	90.9	88.9	89.2	86.3	85.8		
Water content %	3.1%	3.2%	5.3%	5.2%	7.1%	7.2%	9.2%	9.4%		
AV. Water content %	3.2%		5.2%		7.1%		9.3%			
Dry Density	2.075		2.120		2.164		2.108			



Contractor

I. Farhat



Consultant



California Bearing Ratio TEST

Testing Date :	31/01/2023	Code	FROM STA :	509+580	TO STA :	510+000
Location :	K.P (508+580)	KS2 (014)	Material	fill material		
Company Name	knouz sina2		quantity	5000.00		

Test Results

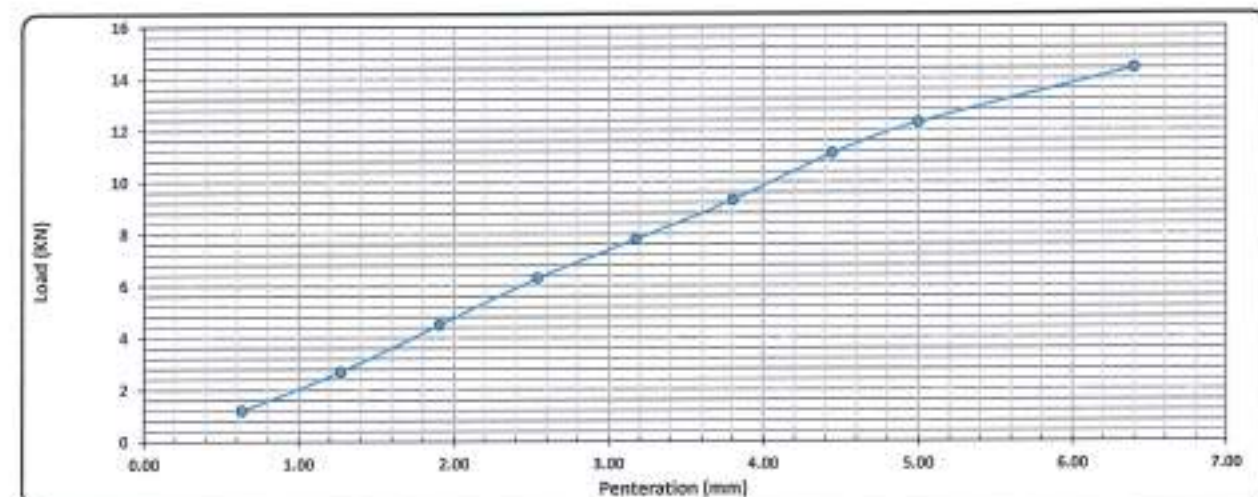
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2158
Mold WT. (gm)	5089
Mold WT. + Wet WT. (gm)	10084
Wet WT. (gm)	4995
Wet Density (g/cm ³)	2.315
Dry Density (g/cm ³)	2.160
Proctor Density (g/cm ³)	2.160
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	2
Tare WT. (gm)	52.81
Tare WT. + Wet WT. (gm)	158
Tare WT. + Dry WT. (gm)	143.5
Water WT. (gm)	6.5
Dry WT. (gm)	90.7
Moisture Content %	7.2

Swelling	
Mold No.	1
Date	31/01/2023
Initial Height (mm)	6.00
Final Height (mm)	6.00
Difference	0
Sample Height (mm)	12.00
Swelling Ratio %	0%

Loading Reading :

Penetration (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	0.15	0.21	0.26	0.31	0.37	0.41	0.48
Load (KN)	1.2	2.7	4.5	6.3	7.8	9.3	11.1	12.3	14.4



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	% على نسبة 98
2.50	6.30	13.4	47.2%	100	98	46.3%
5.00	12.30	20.0	61.4%			60.2%

Lab. Specialist

Name :

Sign :



Lab. Engineer

Name : Ibrahim Farhat

Sign :

I. Farhat



Consultant Engineer

Name :

Sign :



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		

* Designer
** Alignment / Bridges: Culvert Only

Location Name	Contractor Company			Designer Company		
Electric express train	KNOOZ SINA COMPANY			k.k		
Issued by Contractor	Name	Sign	Date	Time		
	Ahmed Abdallah		06-02-2023			
Contractor Reference	KS2 - (15) - 06-02-2023					
Received by ER	A2	MAR		C1	C2	C3
				KPS09	EW	CS
				DO	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 of stock	K.p (509+580)			
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	8.1 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	8.2 %	
6	ASTM D 1557	Modified proctor	2.17	
7	ASTM D 1883	CBR	61.7 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdallah	Ahmed Abdallah	6-2-2023	
Contractor QA/QC *	mohamed elsaied	mohamed elsaied	6-2-2023	
GARB**	HUSSIN Foad	HUSSIN Foad	6-2-2023	
Employers Representative	A2	A2	6/2/23	A

* Designer

** Alignment/Bridges: Culvert only



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



Operating lap: Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	03-02-2023	code	ZONE	509+580	510+000
LOCATION	K.P (509+580)	KS2 (015)	Material	fill material	
NAME COMPANY	knouz sina2		quantity	5000	

-visual inspection test

-Gradient test

-gradation of bulk materials				SAMPLE WEIGHT [g]		25215.00		gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify	
Mass retained (g)	2325.0	2125.0	1895.0	1965.0	1878.0	1989.0	2469.0		A-1-a	
Cumulative Retained (g)	2325.0	4450.0	6345.0	8310.0	10188.0	12177.0	14646.0		PRO	2.17
Cumulative Retained %	9.2	17.6	25.2	33.0	40.4	48.3	58.1		WC	8.2
Cumulative Passing %	90.8	82.4	74.8	67.0	59.6	51.7	41.9		CBR	61.7

-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	60.00	224.00	403.00					
Cumulative Retained %	12.00	44.80	80.60					
Cumulative Passing %	88.00	55.20	19.40					

-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 %	90.8	82.4	74.8	67.0	59.6	51.7	41.9	36.9	23.1	8.1

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

Contractor

I. fahel

شركة كنوز
 سيناء
 للتقاولات العامة
 والتوريدات

Consultant

mohamed elsaied
m. elsaied

 	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

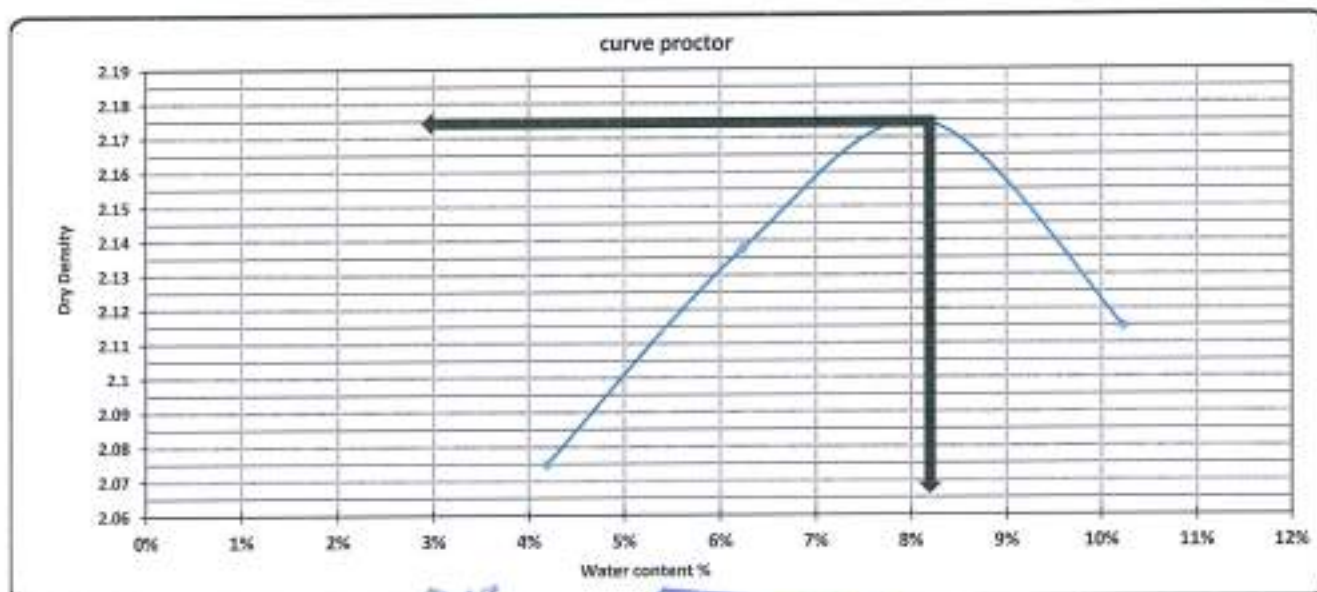
TESTING DATE:	05-02-2023	code	Station	509+580	510+000
LOCATION	K.P (509+580)	KS2 (015)	Material	fill material	
NAME COMPANY	knooz sina2		quantity	5000	

Weight of empty mold :	5620,0
Mold Volume:	2030,0

MAX Dry Density	2.17
Water content %	8.2%

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10809,0	18230,0	18395,0	18352	
WT. WET SOIL	4389,0	4610,0	4775,0	4732,0	
Wt. Density	2.162	2.271	2.352	2.331	

Tare No.	2	7	15	16	1	4	8	10		
Tare wt.	52,81	53,52	54,41	56,51	57,99	55,33	57,86	55,41		
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	146,2	146,8	144,5	144,4	142,9	143,0	141,4	141,2		
Wt. Of water	3,8	4,0	5,5	5,6	7,1	7,0	8,6	8,8		
Wt. Of dry soil	93,4	92,5	90,1	87,9	84,9	87,7	84,3	85,8		
Water content %	4,1%	4,3%	6,1%	6,4%	8,4%	8,0%	10,2%	10,3%		
AV. Water content %	4,2%		6,2%		8,2%		10,2%			
Dry Density	2,075		2,138		2,174		2,115			



Contractor

I. Fatah

المعمل المركزي رقم (١١)

شركة كنوز سيناء
للمقاولات العامة
والتوريدات

Consultant

mohamed elsenel

شركة كنوز سيناء

California Bearing Ratio TEST

Testing Date :	06/02/2023	Code	FROM STA :	509+580	TO STA :	510+000
Location :	K.P (509+580)	KS2 (B1F)	: Material		III material	
Company Name	knouz sina 2		: Quantity		5000.00	

-: Test Results

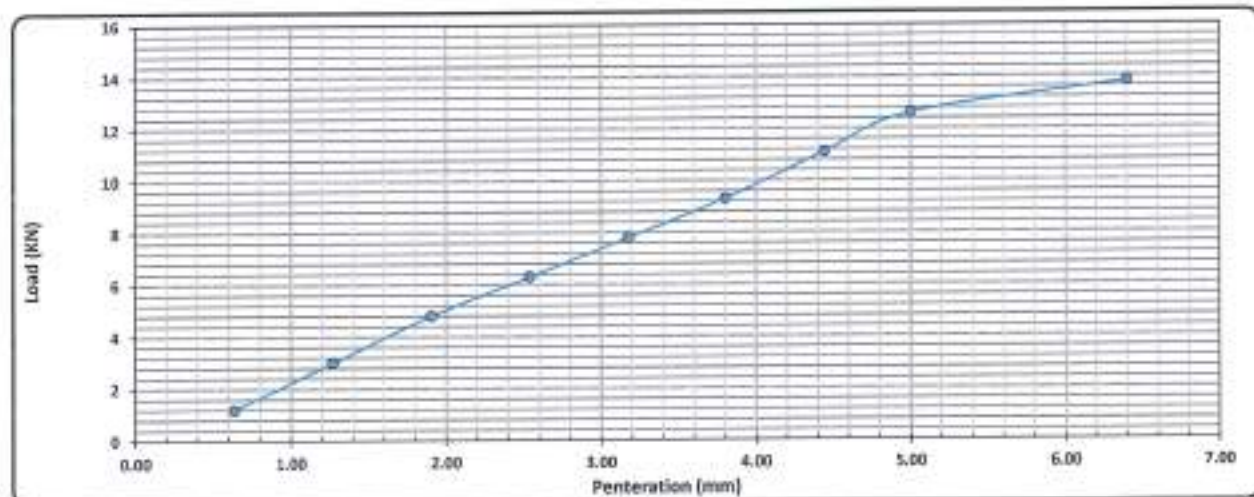
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2168
Mold WT. (gm)	5089
Mold WT. + Wet WT. (gm)	10188
Wet WT. (gm)	5091
Wet Density (g/cm ³)	2.348
Dry Density (g/cm ³)	2.169
Proctor Density (g/cm ³)	2.170
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	15
Tare WT. (gm)	51.81
Tare WT. + Wet WT. (gm)	190
Tare WT. + Dry WT. (gm)	142.6
Water WT. (gm)	7.4
Dry WT. (gm)	89.8
Moisture Content %	8.2

Swelling	
Mold No.	2
Date	06/02/2023
Initial Height (mm)	6.00
Final Height (mm)	6.00
Difference	0
Sample Height (mm)	12.00
Swelling Ratio %	0%

Loading Reading :

Penetration (mm)	0.44	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (mm)	0.04	0.10	0.16	0.21	0.26	0.31	0.37	0.42	0.48
Load (KN)	1.2	3.0	4.8	6.3	7.8	9.3	11.1	12.6	13.8



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(KN)	(lb)	(%)	(%)	(%)	98 % Limit %
2.50	6.30	13.4	47.2%	100	98	46.3%
5.00	12.60	28.0	62.9%			61.7%

Lab. Specialist

Name :

Sign : 

Lab. Engineer

Name : Ibrahim Farhat

Sign : 

المعمل المركزي رقم (١)

Consultant Engineer

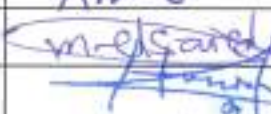
Name : mohamed elsaied

Sign : 

6-2-2023

Contractor Company	KNOOZ SINA COMPANY		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng. Ahmed Abdallah		09-02-2023																	
Contractor reference	KS2-16																			
Received by ER	A7	MIR	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 10%;">C1</td> <td style="width: 10%;">C2</td> <td style="width: 10%;">C3</td> <td style="width: 10%;">DD</td> <td style="width: 10%;">MM</td> <td style="width: 10%;">YY</td> <td style="width: 10%;">HH</td> <td style="width: 10%;">MM</td> </tr> <tr> <td>KPS09</td> <td>EW</td> <td>CS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		C1	C2	C3	DD	MM	YY	HH	MM	KPS09	EW	CS					
C1	C2	C3	DD	MM	YY	HH	MM													
KPS09	EW	CS																		

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			
	509+840	509+940 (-1.75)			
	509+740	509+840 (-3.50)			
	509+840	509+940 (-1.50)			
	509+640	509+740 (-3.50)			
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	m ³	5000	06-02-2023	
2	Classification	m ³	5000	06-02-2023	
3	Proctor & O.m.c	m ³	5000	07-02-2023	
4	L.L & P.L & PI	m ³	5000	07-02-2023	
5	C.B.R	m ³	5000	09-02-2023	
Comments by:			Comments by:		
A sample has been taken from fill material by K.K office to (Al Twakol laboratory) and the results founded meet the specifications and accepted.			TEST RESULTS FOR ESTIMATED QUANTITIES OF ABOUT 5000 m ³ .		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Ahmed Abdallah		09-02-2023		
QA/QC *	Mohamed Elsayid		09-02-2023		
GARB**	Hussien Fouad		09-02-2023		
Employers Representative	A7		9/2/23		

* Designer

** Alignment / Bridges: Culvert Only

Location Name	Contractor Company	Designer Company																		
Electric express train	KNOOZ SINA COMPANY	k.k																		
Issued by Contractor	Name	Sign	Date	Time																
	Ahmed Abdallah	<i>Ahmed</i>	09-02-2023																	
Contractor Reference	KS2 - (16) - 09-02-2023																			
Received by ER	A7	<i>[Signature]</i>	MAR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>C1</td><td>C2</td><td>C3</td><td>DD</td><td>MM</td><td>YY</td><td>HH</td><td>MM</td></tr> <tr> <td>KP509</td><td>EW</td><td>CS</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	KP509	EW	CS					
C1	C2	C3	DD	MM	YY	HH	MM													
KP509	EW	CS																		

NB:Package 1 only (Package 2 via Content)				
The following test result are attached for review				
Description of Materials		Soil (A-1-b)		
Location of stock		K.p (509+580)		
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	12.9 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	6.4 %	
6	ASTM D 1557	Modified proctor	2.14	
7	ASTM D 1883	CBR	66 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdallah	<i>Ahmed</i>	9-2-2023	
Contractor QA/QC *	Mohamed elsaied	<i>Mohamed elsaied</i>	9-2-2023	
GARB**	Hussien Fouad	<i>Hussien Fouad</i>	9-2-2023	
Employers Representative	A7	<i>[Signature]</i>	9/2/23	A

* 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 lap: Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	06-02-2023	code	ZONE	509+580	510+000
LOCATION	K.P (509+580)	KS2 (016)	Material	fill material	
NAME COMPANY	knouz sina2		quantity	5000	

-visual inspection test

-Gradient test

-gradation of bulk materials			SAMPLE WEIGHT [g]			25345.00		gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS		soil classify
Mass retained (g)	1356.0	1456.0	1341.0	1587.0	1236.0	1458.0	1201.0			
Cumulative Retained (g)	1356.0	2812.0	4153.0	5740.0	6976.0	8444.0	9645.0	PRO		
Cumulative Retained %	5.4	11.1	16.4	22.6	27.5	33.3	38.1	WC	6.4	
Cumulative Passing %	94.6	88.9	83.6	77.4	72.5	66.7	61.9	CBR	66.0	

-soft material gradation			WT.OF sample		500.00		gm
sieve size	10	40	200				
Cumulative Retained (g)	42.00	187.00	396.00				
Cumulative Retained %	8.40	37.40	79.20				
Cumulative Passing %	91.60	62.60	20.80				

-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 %	94.6	88.9	83.6	77.4	72.5	66.7	61.9	56.7	38.8	12.9

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

Contractor

Consultant

I. Fahat
شركة كروز سيناء
للمقاولات العامة والتشييد



mohamed elsaied
m. elsaied
المهندس محمد السيد



	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 508+177	
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PROCTOR TEST

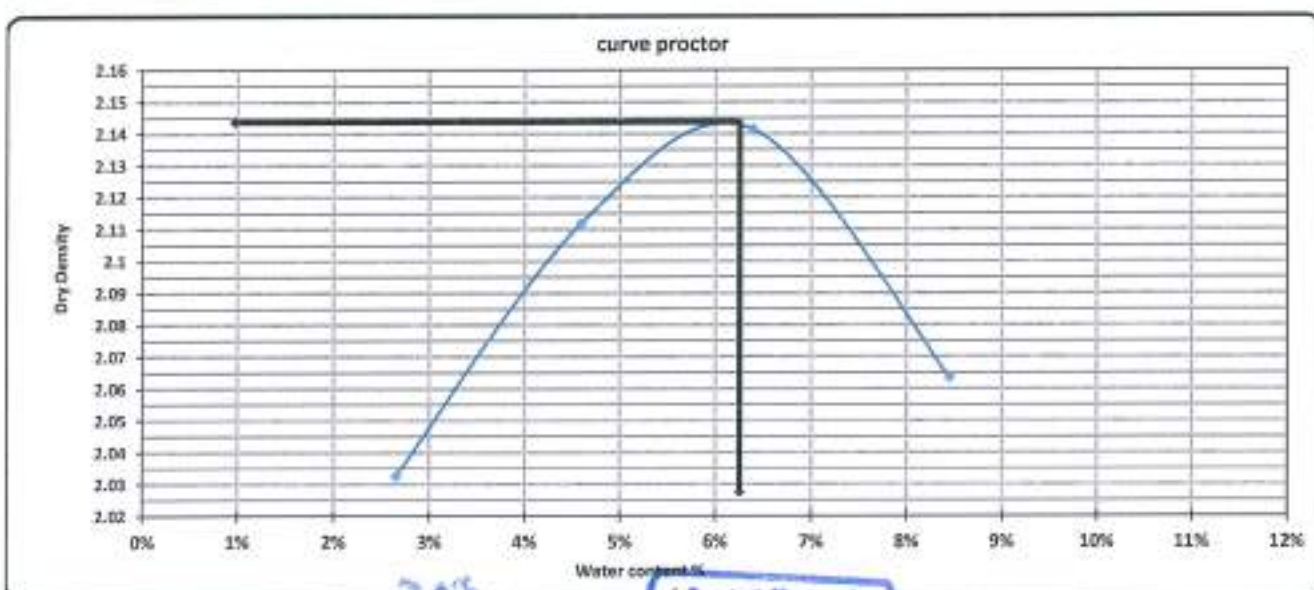
TESTING DATE:	08-02-2023	code	Station	509+580	510+000
LOCATION	K.P (509+580)	KS2 (016)	Material	fill material	
NAME COMPANY	knouz sina2		quantity	5000	

Weight of empty mold :	5620.0
Mold Volume:	2030.0

MAX Dry Density	2.14
Water content %	6.4%

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	9856.0	10104.0	10245.0	10163	
WT. WET SOIL	4236.0	4484.0	4625.0	4543.0	
Wt. Density	2.087	2.209	2.278	2.238	

Tare No.	1	2	3	4	5	6	7	8		
Tare wt.	57.99	52.81	55.72	55.33	56.3	53.97	53.32	55.48		
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	147.5	145.8	145.9	144.4	144.2	142.6	142.5		
Wt. Of water	2.4	2.5	4.2	4.1	5.6	5.8	7.4	7.5		
Wt. Of dry soil	89.6	94.7	90.1	90.6	88.1	90.2	89.3	87.0		
Water content %	2.7%	2.6%	4.7%	4.5%	6.4%	6.4%	8.3%	8.6%		
AV. Water content %	2.7%		4.6%		6.4%		8.5%			
Dry Density	2.033		2.112		2.141		2.063			



Contractor

E. fahat
 شركة كنوز سيناء
 لمقاولات العامة والتوريدات
 العمل المزمع واقع ()



Consultant

mohamed elsaied
 9-2-2023

California Bearing Ratio TEST

Testing Date :	09/02/2023	Code	FROM STA :	509+580	510+000
Location :	K.P (509+580)	KS2 (016)	Material	fill material	
St	knouz sina2		quantity	5000.00	

Test Results

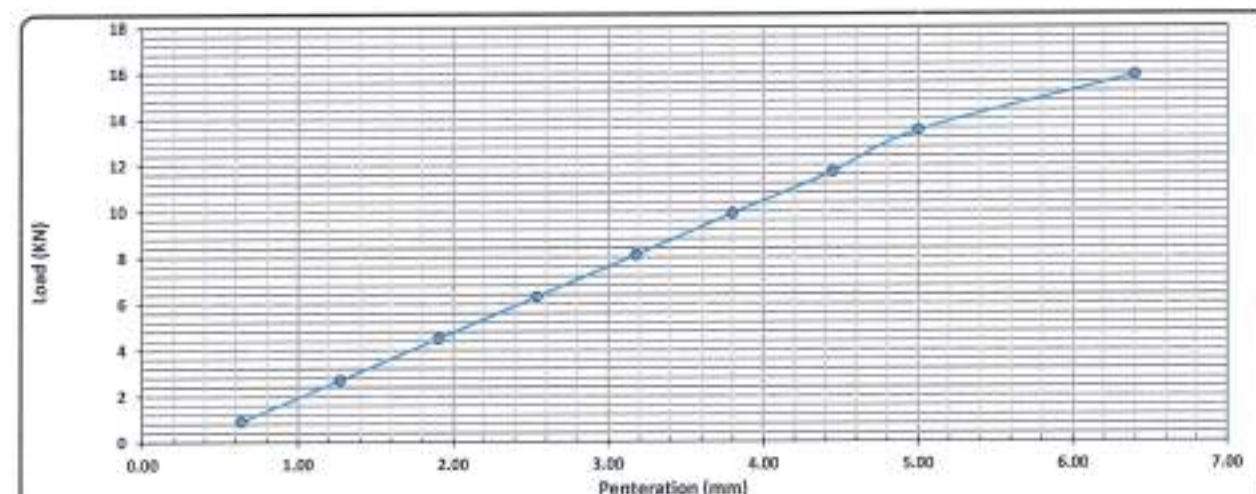
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2158
Mold WT. (gm)	5089
Mold WT. + Wet WT. (gm)	10019
Wet WT. (gm)	4931
Wet Density (g/cm ³)	2.289
Dry Density (g/cm ³)	2.141
Proctor Density (g/cm ³)	2.140
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	15
Tare WT. (gm)	48.33
Tare WT. + Wet WT. (gm)	158
Tare WT. + Dry WT. (gm)	144.2
Water WT. (gm)	5.8
Dry WT. (gm)	88.9
Moisture Content %	6.5

Swelling	
Mold No.	1
Date	09/02/2023
Initial Height (mm)	6.00
Final Height (mm)	6.00
Difference	0
Sample Height (mm)	12.00
Swelling Ratio %	0%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.08	6.40
Load Reading (mm)	0.03	0.90	0.15	0.21	0.27	0.33	0.39	0.45	0.53
Load (KN)	0.9	2.9	4.5	6.3	8.1	9.9	11.7	13.5	15.9



Calculations :

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Ks)	(lb)	(%)	(%)	(%)	% على نسبة 98
2.50	6.70	13.4	47.2%	100	98	46.2%
5.00	13.50	20.0	67.4%			66.0%

Lab. Specialist

Name :

Sign :



Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :





قائمة كميات بالمستخلص جارى (2)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم 509+580 الى الكم 510+000 بطول 0.42 كيلو متر اتجاه الاسكندرية

رقم البند و بيانه : (1-1) علاوة مسافة النقل 287.5 كم

علاوة مسافة النقل

تسليم : شركة كتوز سيناء للمقاولات العامة والتوريدات

3م

0.00

مقدار العمل السابق :

بيان بالكميات	الكمية
الكمية طبقاً لقوائم الكميات	36856.00
اجمالي الكميات خلال فترة المستخلص الحالية (م3)	36856.00
الاجمالي الكلي (م3)	36856.00

مهندس الهيئة العامة للطرق
الكباري
م / ابراهيم

مهندس الاستشاري
مكتب د/علاء قنديل
م / خالد فوزي السيد

كده المن

مهندس الاستشاري (xyz)

م / محمد هادي

محمد هادي

مهندس الشركة

م / احمد عبدالعاطي حامد

أحمد عبدالعاطي



قائمة كميات بالمستخلص جارى (2)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الإدارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم 509+580 الى الكم 510+000 بطول 0.42 كيلو متر اتجاه الاسكندرية

رقم البند و بيانه : [1-1] رسوم الكارثة والموازين طبقاً للمادة (36) من الشروط العامة والمواصفات طبقاً لما جاء بالقائمة الموحدة لأسعار الطرق لأعمال طبقة الأتربة

الكارثات والموازين

تنفيذ : شركة كنول سيناء للمقاولات العامة و التوريدات

م 3

0.00

مقدار العمل السابق :

الكمية	بيان بالكميات
36856.00	الكمية طبقاً للوائح الكميات
36856.00	اجمالي الكميات خلال فترة المستخلص الحالية (م 3)
36856.00	الاجمالي الكلي (م 3)

مهندس الهندسة العامة للطرق
والجسور
م / إير احمد محمد المنداري

مهندس الاستشاري
مكتب د/خليل قنديل
م / خالد فوزي السيد

مهندس الاستشاري (xyz)

م / محمد محمد خليل

مهندس الشركة

م / احمد عبدالعاطي حامد



قائمة الكميات الواردة بالمستخلص جارى [2]

مشروع : القطار الكهربائي السريع (العين السخنة - العاصمة الإدارية - العلمين - مطروح) قطاع فوكة - مطروح في المسافة من الكم 509+580 الى الكم 510+000 بطول 0.42 كيلو متر اتجاه الاسكندرية

رقم البند و بيانه : (1-1) أعمال توريد وتشغيل اترية صالحة للردم ومطابقة للمواصفات طبقا للمفاوضة عن شهر مايو 2023

التفصيل : شركة كنول سياء للمقاولات العامة والتوريدات

مقدار العمل السابق : 0.00 م

الكمية	الابعاد (متر)		الموقع الكيلومترى		بيان الاعمال بالمقايضة
	مساحة المقطع	طول	الى	من	
1755.048	87.75	20	509+600	509+580	القطاع الاول
8775.238	87.75	100	509+700	509+600	القطاع الثانى
8775.238	87.75	100	509+800	509+700	القطاع الثالث
8775.238	87.75	100	509+900	509+800	القطاع الرابع
8775.238	87.75	100	510+000	509+900	القطاع الخامس
36856.00	اجمالي الكميات خلال فترة المستخلص الحالية (م ³)				
36856.00	الاجمالي الكلى (م ³)				

مهندس الهيئة العامة للطرق

د / إبراهيم السيد البحاري

مهندس الاستشاري

مكتب دكتور خالد السيد
د / خالد فوزي السيد

مهندس الاستشاري (xyz)

د / محمد جمال خليل

مهندس الشركة

د / احمد عبد العاطي حامد



المنطقة الخامسة - (غرب الدلتا)

المسيد المهندس / نائب رئيس قطاع التنفيذ والمناطق

تحية طيبة.. وبعد،،

بالإحالة إلى مشروع القطار السريع (العين المسخنة - العاصمة الإدارية - برج العرب -
مرسى مطروح)

نتشرف بأن نرفق لسيادتكم طيه المقاييس المعدلة للقطاعات الآتية:

أولا : القطاع السابع (فوكة/مطروح) :

م	اسم الشركة	بداية القطاع (كم)	نهاية القطاع (كم)	التكلفة (مليون)
1	كنوز سيناء للمقاولات العامة والتوريدات	509+580	510+000	20,000,000

برجاء من سيادتكم التفضل بالاحاطه والتوجيه بالآزم

وتفضلوا بقبول فائق الاحترام والتقدير،،

رئيس الإدارة المركزية

المنطقة الخامسة - غرب الدلتا

عبد مهندس /

هاني محمد محمود طه "



مشروع القطار الكهربائي السريع

المقايضة المعدلة لينود الاعمال بعد التفاوض بتاريخ 2023/12/18 للقطاع السابع (فوكه- مطروح) - شركة كنوز سيناء - اتجاه الإسكندرية

القطاع من المحطة 509+580 إلى المحطة 510+000

رقم البند	بيان الأعمال	الوحدة	الكمية	المدة	الاجمالي
1	اعمال الترميم				
1-1	عمل تعميل و توريد و نقل التربة سطافة لحواسطات وتشغيلها باستخدام آلات التربة بسمك لا يزيد عن 50 سم حتى منسوب -2 متر و بسمك لا يزيد عن 25 سم لاستكمال المنسوب التصميمي لشكل الجسر والاكتاف (إسبة تحمل كاليفورنيا لا تقل عن 15%) و رشها بالسياء الاسفلتية للوصول إلى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول إلى أقصى كثافة جافة (95 % من الكثافة الجافة القصوى) ويتم التنفيذ طبقاً للمواصفات التصميمية والقطاعات العرضية للمونجية والرسومات التفصيلية المعتمدة والبدل بجميع مشتملاته طبقاً لأصول الصيانة ومواصفات الهيئة العامة للطرق والكبارى وتعليمات المهندس المشرف. على حالة طلب جهاز الاشراف زيادة نسبة الدمك عن 95 % بحسب زيادة 1 جنيه على زيادة نسبة الدمك لكل 1 % - مسافة النقل حتى 2 كم ويتم احتساب علاوة 1.5 جنيه لكل 1 كم بالزيادة بالسر يشمل قيمة المادة المحجورة	م3	36,856.00	428.26	15,783,582.000
	علاوة مسافة النقل 287.5 كم	م3	36,856.00	13.00	479,128.000
	علاوة لحصول رسوم القارطة والموالين طبقاً للاتعة الشركة الوطنية	م3	36,856.00	101.40	3,737,198.400
	السر في مايو 2023 طبقاً للمفاوضة				19,999,908.400
	الاجمالي				
	(تسعة عشر مليون وتسعمائة وتسعون ألفاً وتسعمائة وخمسة وخمسون واربعمائة واربعة عشر لا غير)				

مدير عام المشروعات

م / محمد حسني فياض

مدير المشروع المالك

م / ابراهيم عبد الحناوي

مدير المشروع الاستشاري

م / خالد فوزي

مدير المشروع المقاول

م / أحمد عبد العال



يعتمد

رئيس الإدارة المركزية

منطقة غرب الدلتا

الإسكندرية - مرسى مطروح

مهندس /

" هاني محمد محمود طه "

2023/12/18