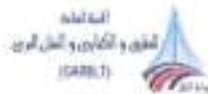


MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SINA COMPANY		Designer Company														
Issued by Contractor	Name	Sign	Date	Time													
	Eng. Ahmed Abdallah	<i>Ahmed</i>	12-11-2022														
Contractor reference	KS1 - (13) - 12-11-2022																
Received by ER	<i>A.I</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>KP504</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	KP504	EW	CS			
C1	C2	C3	DD	MM	YY	HH	MM										
KP504	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		From	To		
	504+220	504+320	(-1.00)	504+340	504+420	(-0.75)	
	504+320	504+420	(-1.00)	504+260	504+340	(-0.50)	
	504+520	504+640	(-0.25)	504+640	504+800	(-0.00)	
	504+420	504+520	(-0.75)				
	504+240	504+340	(-0.75)				
	504+420	504+520	(-0.50)				
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	09-11-2022			
2	Classification	m ³	5000	09-11-2022			
3	Proctor & O.m.c	m ³	5000	10-11-2022			
4	L.L & P.L & PI	m ³	5000	10-11-2022			
5	C.B.R	m ³	5000	12-11-2022			
Comments by:			Comments by:				
A sample has been taken from fill material by K.K office to (AL Nuby laboratory) and the results founded meet the specifications and accepted.			<i>Test results For estimated quantity of about [5000m³]</i>				
APPROVAL STATUS							
Organisation	Name	Sign		Date		A-AWC-R	
Contractor	<i>Abdul Abdallah</i>	<i>[Signature]</i>		12-11-2022			
QA/QC *	<i>Abdallah Sany</i>	<i>[Signature]</i>		12-11-2022			
GARB**	<i>Hussien Fouad</i>	<i>[Signature]</i>		12-11-2022			
Comments by							
Employers Representative	<i>A.I</i>	<i>[Signature]</i>		12/11/22		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		12-11-2022								
Contractor Reference	KS1 - (13) - 12-11-2022										
Received by ER	A-2		MAR	C1	C2	C3	DD	MM	YY	HH	MM
				KP504	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 (504+320)			
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	11.0 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	6.50 %	
6	ASTM D 1557	Modified proctor	2.15	
7	ASTM D 1883	CBR	61.50 %	
Comments by:		Comments by:		

شركة كنوز سينا

APPROVAL STATUS

Organisation	Name	Signature	Date	A-AWC-R
Contractor	Ahmed Abdallah		12-11-2022	
Contractor QA/QC *	Abdallah Sami		12-11-2022	
GARB**	Hussien Fouad		12-11-2022	
Employers Representative	A I		12/11/22	A

المكتب الاستشاري الهندسي
د. خالد عبدالرحمن

* Designer

** Alignment/Bridges: Culvert only



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



Operating Lab: **AL Nuby Central Lab**

PARTICLE SIZE DISTRIBUTION OF SOIL

ESTING DATE:	9-11-2022	Code	ZONE	504+180	505+000
LOCATION	k.p(504+320)	KS 1 (013)			
LABORATORY COMPANY	knouz sina1				

-visual inspection test

-Gradient test

-gradation of bulk materials				SAMPLE WEIGHT (g)				12552.00	gm	table classify
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	soil classify	
Mass retained (g)	0.0	985.0	1025.0	1310.0	1120.0	1000.0	1325.0		A-1-b	
Cumulative Retained (g)	0.0	985.0	2010.0	3320.0	4440.0	5440.0	6765.0	PRO	2.15	
Cumulative Retained %	0.0	7.8	16.0	26.4	35.4	43.3	53.9	WC	6.50	
Cumulative Passing %	100.0	92.2	84.0	73.6	64.6	56.7	46.1	CBR	61.50	

-soft material gradation				WT.OF sample				500.00	gm
sieve size	10	40	200						
Cumulative Retained (g)	27.0	100.0	381.0						
Cumulative Retained %	5.40	20.00	76.20						
Cumulative Passing %	94.60	80.00	23.80						

-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 %	100.0	92.2	84.0	73.6	64.6	56.7	46.1	43.6	36.9	11.0

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

Contractor Engineer

Lab Engineer

Consultant Engineer



Abdourahman



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

PROCTOR TEST

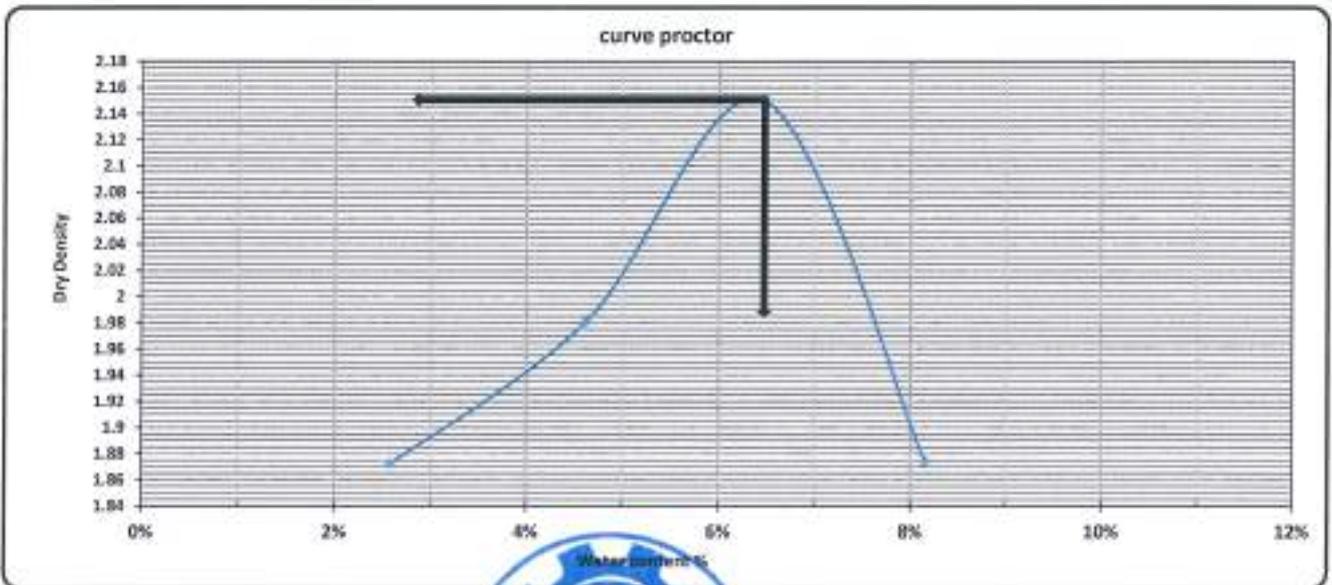
TESTING DATE:	10-11-2022	Code	ZONE	504+180	505+000
LOCATION	k.p 504+320)	KS1 (013)			
NAME COMPANY	knouz sina1				

Weight of empty mold :	6255.0
Mold Volume:	2169.0

MAX Dry Density	2.15
Water content %	6.5

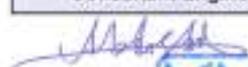
trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10422.0	10750.0	11220.0	10652.0	
WT. WET SOIL	4167.0	4495.0	4965.0	4397.0	
Wt. Density	1.921	2.072	2.289	2.027	

Tare No.	32	4	11	21	18	25	33	35		
Tare wt.	74.4	60.1	46.1	55.2	77.7	75.8	73.6	73.9		
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	144.0	141.3	145.2	146.0	145.0	146.0	144.0	144.5		
Wt. Of water	6.0	8.7	4.8	4.0	5.0	4.0	6.0	5.5		
Wt. Of dry soil	209.9	376.5	99.1	98.8	67.3	70.2	70.4	70.6		
Water content %	2.9%	2.3%	4.8%	4.4%	7.4%	5.7%	8.5%	7.8%		
AV. Water content %	2.6%		4.6%		6.5%		8.2%			
Dry Density	1.873		1.981		2.150		1.874			



Contractor Engineer
شركة كنوز سيناء
 للمقاولات العامة والتوريدات


 Lab Engineer
 Electric Express Train
 Central Lab Member
 Matrouh

Consultant Engineer


 المهندس الاستشاري المهندس خالد قنديل

California Bearing Ratio TEST

Testing Date :	12/11/2022	Code	zone	504+180	505+000
Location :	k.p(504+320)	KS1 (013)			
Company Name	knouz sina1				

Test Results

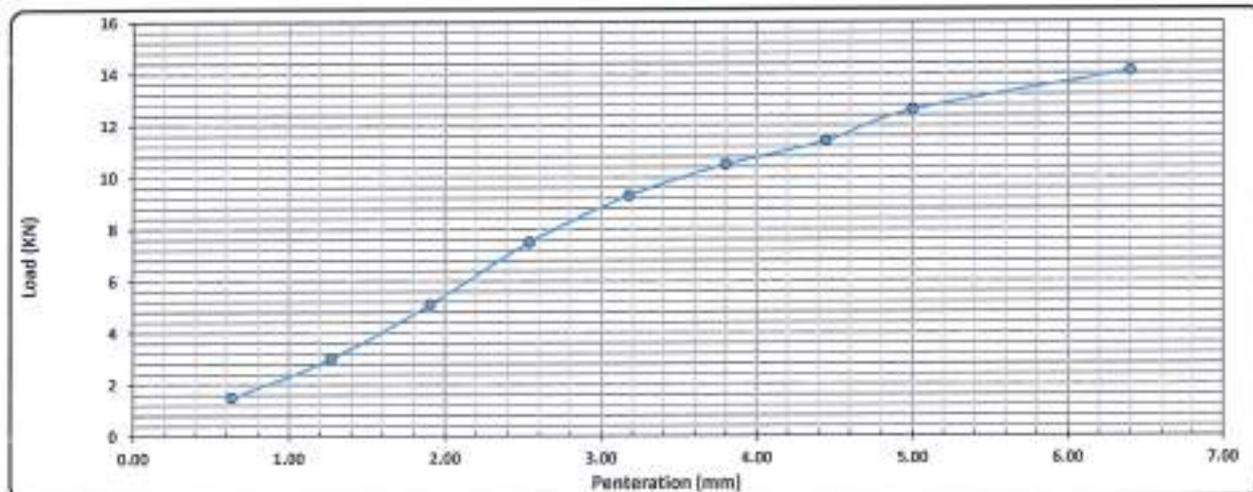
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2205
Mold WT. (gm)	5034
Mold WT. + Wet WT. (gm)	10090
Wet WT. (gm)	5056
Wet Density (g/cm ³)	2.293
Dry Density (g/cm ³)	2.156
Proctor Density (g/cm ³)	2.150
Compaction %	100

Moisture Ratio After Compacted Mold	
Tare No.	22
Tare WT. (gm)	51.1
Tare WT. +Wet WT. (gm)	159
Tare WT. +Dry WT. (gm)	144.1
Water WT. (gm)	5.9
Dry WT. (gm)	93.8
Moisture Content %	6.3

Swelling	
Mold No.	1
Date	12/11/2022
Initial Height (mm)	2.00
Final Height (mm)	2.00
Difference	0
Sample Height (mm)	120.00
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)	0.05	0.10	0.17	0.25	0.31	0.38	0.38	0.42	0.47
Load (KN)	1.5	3.0	5.1	7.5	9.3	10.5	11.4	12.6	14.1



Calculations :

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % على نسبة 98
2.50	7.50	13.4	56.2%	100	98	54.9%
5.00	12.60	20.0	63.0%			61.5%

Contractor Engineer

Name :

Sign :



Lab Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :



MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SINA COMPANY		Designer Company														
Issued by Contractor	Name	Sign	Date	Time													
	Eng. Ahmed Abdallah	<i>Ahmed</i>	20-11-2022														
Contractor reference	KS1 - (14) - 20-11-2022																
Received by ER	<i>A. I</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>KPS04</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	KPS04	EW	CS			
C1	C2	C3	DD	MM	YY	HH	MM										
KPS04	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			
	From	To	From	To
Location to be Used	504+640	504+800 (-0.00)	504+260	504+400 (-0.00)
	504+520	504+640 (-0.00)		
	504+340	504+420 (-0.50)		
	504+380	504+520 (-0.25)		
	504+260	504+380 (-0.25)		
	504+400	504+520 (-0.00)		

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	17-11-2022	
2	Classification	m ³	5000	17-11-2022	
3	Proctor & O.m.c	m ³	5000	18-11-2022	
4	L.L & P.L & PI	m ³	5000	18-11-2022	
5	C.B.R	m ³	5000	20-11-2022	

Comments by:	Comments by:
A sample has been taken from fill material by K.K office to (AL Nuby laboratory) and the results founded meet the specifications and accepted.	Test results Forecasted quantity of about [5000m ³]

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdallah	<i>Ahmed</i>	20-11-2022	
QA/QC *	Abdallah SAMY	<i>[Signature]</i>	20-11-2022	
GARB**	HUSSSEN Fowad	<i>[Signature]</i>	20-11-2022	
Comments by				
Employers Representative	<i>A. I</i>	<i>[Signature]</i>	20/11/22	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		20-11-2022								
Contractor Reference	KS1 - (14) - 20-11-2022										
Received by ER	A-2		MAR	C1	C2	C3	DD	MM	YY	HH	MM
				KP504	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 (504+500)			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	13.6 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	5.70 %	
6	ASTM D 1557	Modified proctor	2.17	
7	ASTM D 1883	CBR	51.80 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor			20-11-2022	
Contractor QA/QC *	Abdallah say		20-11-2022	
GARB**	HUSSIN Fouad		20-11-2022	
Employers Representative	A-2		20/11/22	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 MARSА MATROUH
 From Station 504+000 To Station 568+177



Operating Lab AL Nuby Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	17-11-2022	Code	ZONE	504+180	505+000
LOCATION	k.p(504+500)	KS 1 (014)			
NAME COMPANY	knooz sina1				

visual inspection test

Gradient test

-gradation of bulk materials			SAMPLE WEIGHT [g]					20186.00	gm	table classify
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	soil classify	
Mass retained (g)	0.0	1230.0	1401.0	1543.0	1254.0	1325.0	1536.0		A-1-b	
Cumulative Retained (g)	0.0	1230.0	2631.0	4174.0	5428.0	6753.0	8289.0	PRO	2.17	
Cumulative Retained %	0.0	6.1	13.0	20.7	26.9	33.5	41.1	WC	5.70	
Cumulative Passing %	100.0	93.9	87.0	79.3	73.1	66.5	58.9	CBR	51.80	

-soft material gradation			WT.OF sample		500.00	gm
sieve size	10	40	200			
Cumulative Retained (g)	29.3	114.2	384.6			
Cumulative Retained %	5.86	22.84	76.92			
Cumulative Passing %	94.14	77.16	23.08			

-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	93.0	87.0	79.3	73.1	66.5	58.9	55.5	45.5	13.6

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

Contractor Engineer

Contractor Engineer

Consultant Engineer



PROCTOR TEST

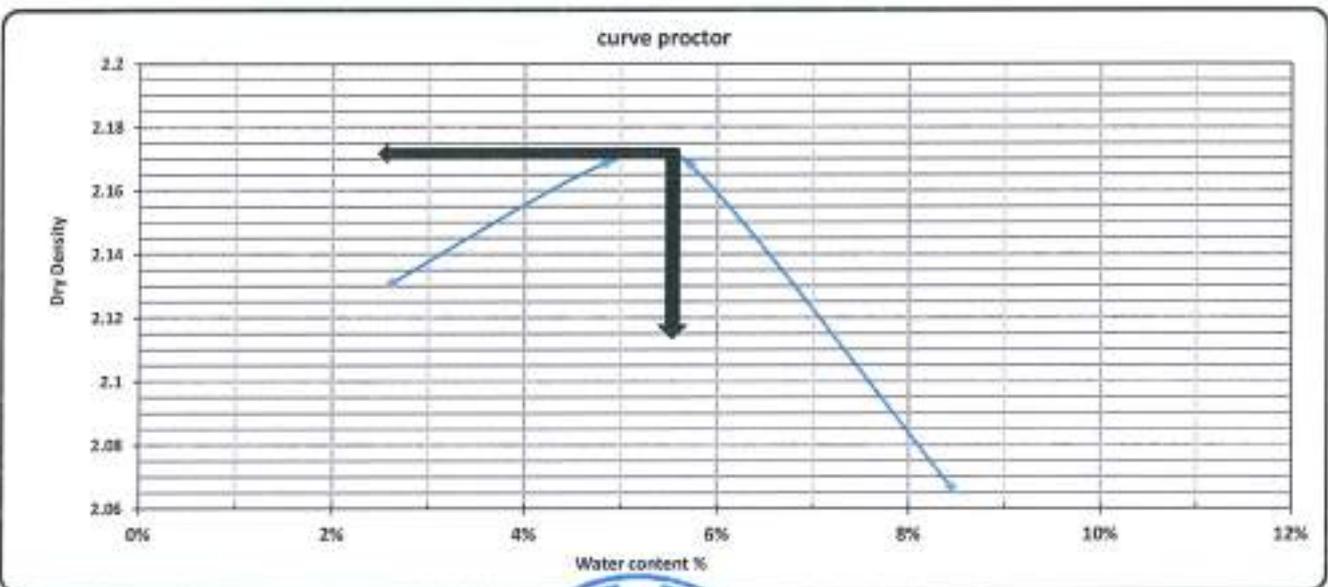
TESTING DATE:	18-11-2022	Code	zone	504+180	505+000
LOCATION	k.p(504+500)	KS1 (014)			
NAME COMPANY	knouz sina1				

Weight of empty mold :	6243.0
Mold Volume:	2167.0

MAX Dry Density	2.17
Water content %	5.7

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10982.0	11170.0	11210.0	11100.0	
WT. WET SOIL	4739.0	4927.0	4967.0	4857.0	
Wt. Density	2.187	2.274	2.292	2.241	

Tare No.	8	73	90	7	11	16	40	33		
Tare wt.	46.8	42.9	62.5	42.8	46.1	33.9	46.4	73.6		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	144.0	141.0	146.0	145.0	144.0	143.0	143.4	143.0		
Wt. Of water	6.0	9.0	4.0	5.0	6.0	5.8	6.6	7.0		
Wt. Of dry soil	209.9	376.5	83.5	102.2	97.9	109.1	97.0	69.4		
Water content %	2.9%	2.4%	4.8%	4.9%	6.1%	5.3%	6.8%	10.1%		
AV. Water content %	2.6%		4.8%		5.7%		8.4%			
Dry Density	2.131		2.169		2.168		2.067			



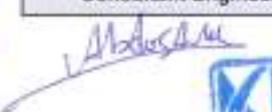
Contractor Engineer

شركة كنوز
سيناء
للمقاولات العامة
والتوريدات

Contractor Engineer

Electric Express Train
Sector 7 - Matrouh
Station Number 4
504+180

Consultant Engineer




California Bearing Ratio TEST

Testing Date :	20-11-2022	Code	zone	S04+180	S05+000
Location :	k.p(504+500)	KS (0141)			
Company Name	knooz sina1				

:- Test Results

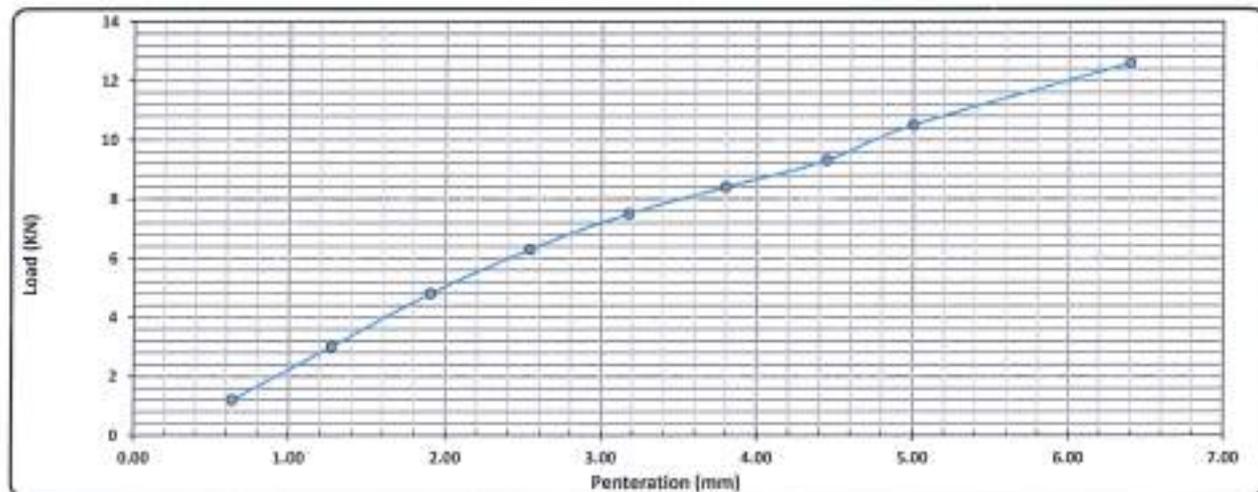
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2158
Mold WT. (gm)	4898
Mold WT. + Wat WT. (gm)	8787
Wat WT. (gm)	4897
Wat Density (g/cm ³)	1.268
Dry Density (g/cm ³)	2.191
Proctor Density (g/cm ³)	2.178
Compaction %	99

Moisture Ratio After Compacted Mold	
Tare No.	22
Tare WT. (gm)	54.1
Tare WT. + Wat WT. (gm)	150
Tare WT. + Dry WT. (gm)	148
Water WT. (gm)	5.8
Dry WT. (gm)	98.9
Moisture Content %	5.5

Swelling	
Mold No.	1
Date	20-11-2022
Initial Height (mm)	9.00
Final Height (mm)	9.00
Difference	0
Sample Height (mm)	120.00
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	0.10	0.16	0.21	0.25	0.28	0.31	0.35	0.42
Load (kN)	1.2	3.0	4.8	6.3	7.5	8.4	9.3	10.5	12.6



Calculations :-

Penetration (mm)	Load (kN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % (تسوية 99)
2.50	6.30	13.4	47.2%	99	99	46.7%
5.00	10.50	20.0	52.4%			51.8%

Contractor Engineer

Name :

Sign :



Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :



MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SINA COMPANY		Designer Company														
Issued by Contractor	Name		Date	09-12-2022													
	Eng. Ahmed Abdallah																
Contractor reference	KSA-115																
Received by ER	A-2		MIR														
			<table border="1"> <tr> <th>C1</th> <th>C2</th> <th>C3</th> <th>DD</th> <th>MM</th> <th>YY</th> <th>HH</th> <th>MM</th> </tr> <tr> <td>KPS04</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	KPS04	EW	CS			
C1	C2	C3	DD	MM	YY	HH	MM										
KPS04	EW	CS															

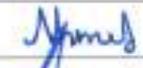
CODE - 1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp XXX Note For Kilometer point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

Description of Materials	FILL MATERIAL RESULTS			
	From	To	From	To
Location to be Used	504+180	504+220 (-3.50)	504+180	504+220 (-1.25)
	504+180	504+220 (-3.00)	504+180	504+220 (-1.00)
	504+180	504+220 (-2.50)	504+180	504+240 (-0.75)
	504+180	504+220 (-2.00)	504+180	504+260 (-0.50)
	504+180	504+220 (-1.75)	504+180	504+260 (-0.25)
	504+180	504+220 (-1.50)	504+180	504+260 (-0.00)

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	4500	06-12-2022	
2	Classification	m ³	4500	06-12-2022	
3	Proctor & O.m.c	m ³	4500	07-12-2022	
4	L.L & P.L & PI	m ³	4500	07-12-2022	
5	C.B.R	m ³	4500	09-12-2022	

Comments by: A sample has been taken from fill material by K.K office to (AL Nuby laboratory) and the results founded meet the specifications and accepted.	Comments by: TEST RESULTS FOR ESTIMATED QUANTITIES OF ABOUT 4500 m ³ .
---	---

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	AHMED ABDALLAH		09-12-2022	
QA/QC *	Ahmed AboZaid		09-12-2022	
GARB**	HUSSEIN FOUAD		09-12-2022	
Employers Representative	A-2		9/12/22	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	Ahmed	09-12-2022								
Contractor Reference	KS1 - (15) - 09-12-2022										
Received by ER	A-I	[Signature]	MAR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DD	MM	YY	HH	MM
				KP504	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 (504+320)			
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	14.4 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.10 %	
6	ASTM D 1557	Modified proctor	2.168	
7	ASTM D 1883	CBR	65.30 %	
Comments by:			Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdallah	[Signature]	9-12-2022	
Contractor QA/QC *	Abdelallah Samy	[Signature]	9-12-2022	
GARB**	Hussien Fouad	[Signature]	9-12-2022	
Employers Representative	A-I	[Signature]	9/12/22	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 MARSА MATROUH From Station 504+000 To Station 568+177		
	Operating Lab	Al. Muby Control Lab	

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	6-12-2022	Code	ZONE	504+180	505+000
LOCATION	k.p(504+320)	KS 1 (015)			
NAME COMPANY	knouz sina1				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		24973.00		gm	table classify
sieve size	2	1.5	1	3/4	1/2	3/8	# 4	PASS	soil classify
Mass retained (g)	1865.0	1765.0	1603.0	1768.0	1606.0	1023.0	1553.0		A-1-b
Cumulative Retained (g)	1865.0	3630.0	5233.0	7001.0	8607.0	9630.0	11183.0	PRO	2.160
Cumulative Retained %	7.5	14.5	21.0	28.0	34.5	38.6	44.8	WC	7.10
Cumulative Passing %	92.5	85.5	79.0	72.0	65.5	61.4	55.2	CBR	65.30

B-soft material gradation			WT.OF sample		500.00	gm
sieve size	10	40	200			
Cumulative Retained (g)	40.0	120.0	370.0			
Cumulative Retained %	8.00	24.00	74.00			
Cumulative Passing %	92.00	76.00	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 %	92.5	85.5	79.0	72.0	65.5	61.4	55.2	50.8	42.0	14.4

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

Contractor Engineer

Lab Engineer

Consultant Engineer



Handwritten signature



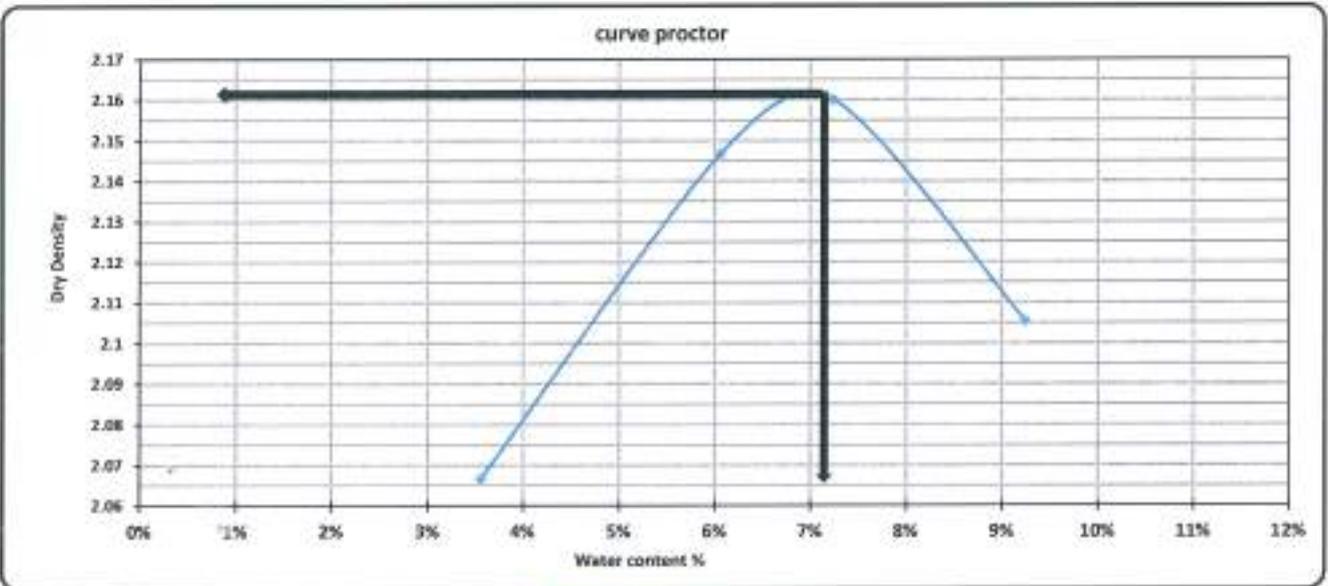
PROCTOR TEST

TESTING DATE:	07-12-2022	Code	ZONE	504+180	505+000
LOCATION	k.pf 504+320)	KS1 (015)			
NAME COMPANY	knouz sina1				

Weight of empty mold :	6062.0	MAX Dry Density	2.16
Mold Volume:	2103.0	Water content %	7.1

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10563.0	10850.0	10912.0	10899.0	
WT. WET SOIL	4501.0	4788.0	4850.0	4837.0	
Wt. Density	2.140	2.277	2.306	2.300	

Tare No.	10	15	17	40	90	11	4	16		
Tare wt.	43.7	31.9	60	46.8	62.3	46.4	31.3	33.5		
Wt. Of wet soil & tare	150.0	150.0	150.0	149.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	146.2	146.1	145.0	143.0	144.0	143.1	140.0	140.1		
Wt. Of water	3.8	3.9	5.0	6.0	6.0	6.9	10.0	9.9		
Wt. Of dry soil	102.5	114.2	85.0	96.2	81.7	96.7	108.7	106.6		
Water content %	3.7%	3.4%	5.9%	6.2%	7.3%	7.1%	9.2%	9.3%		
AV. Water content %	3.6%		6.1%		7.2%		9.2%			
Dry Density	2.067		2.147		2.160		2.105			



Contractor Engineer

شركة كينوز
سيناء
للمقاولات العامة
والتوريدات

Lab Engineer

Electra Express Train
Central Lab Matruh
Sidi Barrani - Matruh

Consultant Engineer

Abdelhakim

المكتب
الاستشاري الهندسي
د. د. خالد قنديل

شركة كينوز
سيناء
للمقاولات العامة
والتوريدات



Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date :	9/12/2022	Code	zone	504+180	505+000
Location :	k.p(504+320)	KS1 (015)			
Company Name	knooz sina1				

-: Test Results

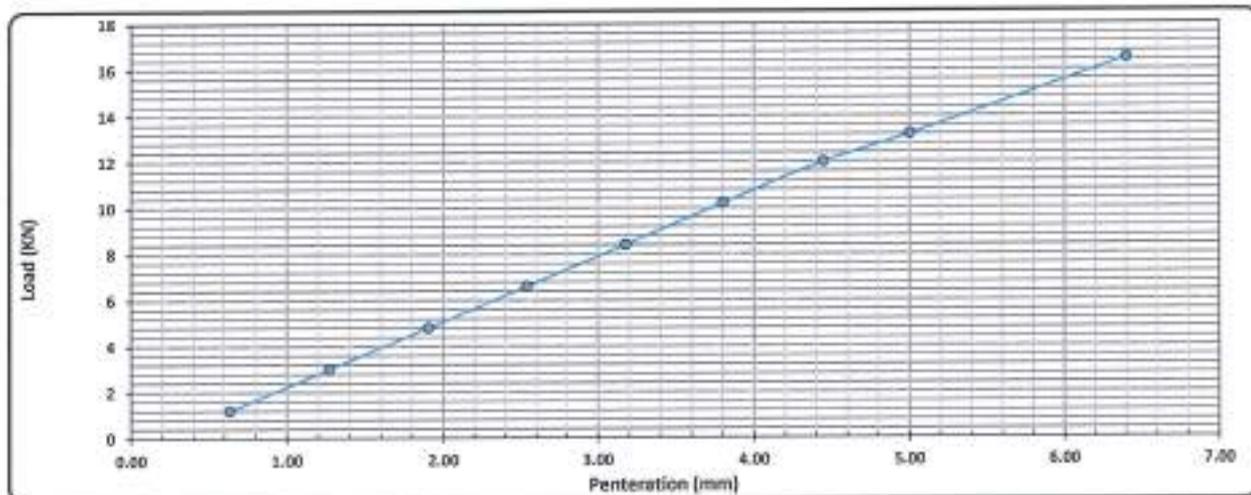
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2112
Mold WT. (gm)	5075
Mold WT. + Wet WT. (gm)	8885
Wet WT. (gm)	4810
Wet Density (g/cm ³)	2.267
Dry Density (g/cm ³)	2.141
Proctor Density (g/cm ³)	2.163
Compaction %	99.8

Moisture Ratio After Compacted Mold	
Tare No.	17
Tare WT. (gm)	48
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	145
Water WT. (gm)	5.0
Dry WT. (gm)	85.0
Moisture Content %	5.9

Swelling	
Mold No.	1
Date	9/12/2022
Initial Height (mm)	3.40
Final Height (mm)	3.40
Difference	0
Sample Height (mm)	120.00
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	0.10	0.16	0.22	0.28	0.34	0.40	0.44	0.55
Load (KN)	1.2	3.0	4.8	6.6	8.4	10.2	12.0	13.2	16.5



Calculations :-

Penetration (mm)	Load (Kn)	Standard Load (D)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR %
2.50	6.60	13.4	49.4%	99	98	49.8%
5.00	13.20	26.8	65.9%			65.3%

Contractor Engineer

Name :

Sign :



Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :



MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SINA COMPANY		Designer Company																	
Issued by Contractor	Name		Date	Time																
	Eng. Ahmed Abdallah		26-12-2022																	
Contractor reference	KS1 P.SUB GRADE - (1)																			
Received by ER	A.I	MIR	<table border="1"> <tr> <td>CI</td> <td>CS</td> <td>CS</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>KP504</td> <td>EW</td> <td>CS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	CI	CS	CS	DD	MM	YY	HH	MM	KP504	EW	CS						
CI	CS	CS	DD	MM	YY	HH	MM													
KP504	EW	CS																		

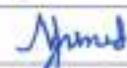
CODE - 1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp XXX Note For Kilometer point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

Description of Materials	FILL MATERIAL RESULTS					
	From	To		From	To	
Location to be Used	504+900	505+000	(+0.25)	504+580	504+640	(+0.25)
	504+800	504+900	(+0.25)	504+520	504+580	(+0.25)
	504+760	504+800	(+0.25)	504+440	504+520	(+0.25)
	504+640	504+700	(+0.25)	504+340	504+440	(+0.25)
	504+700	504+760	(+0.25)	504+260	504+340	(+0.25)
	504+180	504+260	(+0.25)			

MAR Approval No.		Date	
Supplier Name			
Test Requirement		Specification	Clause
Reference Photos	Yes attached / No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	Sieve analysis	m ²	3500	23-12-2022	
2	Classification	m ²	3500	23-12-2022	
3	Proctor & O.m.c	m ³	3500	24-12-2022	
4	L.L & P.L & PI	m ³	3500	24-12-2022	
5	C.B.R	m ²	3500	26-12-2022	

Comments by:	A sample has been taken from fill material by K.K office to (Al MAHGOUB laboratory) and the results founded meet the specifications and accepted.	Comments by:	TEST RESULTS FOR ESTIMATED QUANTITIES OF ABOUT 3500 m ³ .
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APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	AHMED ABDALLAH		26-12-2022	
QA/QC*	Ahmed Abo Zaid		26-12-2022	
GARB**	HUSSEIN FOUAD		26-12-2022	
Comments by				
Employers Representative	A.I		26/12/22	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		26-12-2022								
Contractor Reference	KS1 P.SUB GRADE- (1) - 26-12-2022										
Received by ER	A-1		MAR	C1	C2	C3	DD	MM	YY	HH	MM
				KPS04	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 (504+500)		
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	6.5 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.5 %	
6	ASTM D 1557	Modified proctor	2.21	
7	ASTM D 1883	CBR	70.40 %	
Comments by:			Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdel		26-12-2022	
Contractor QA/QC *	Ahmed/Abu Zaid		26-12-2022	
GARB**	Hussien Fouad		26-12-2022	
Employers Representative	A-1		26/12/22	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 564+177



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	23-12-2022	code	ZONE	504+180	505+000
LOCATION:	K.P 504+500	K51-P-S.G(01)	Material	PREPARED sub grade	
NAME:	knouz sina1				
COMPANY:					

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]				21336.00	gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify	
mass retained (g)	676.0	957.0	3153.0	1559.0	3577.0	3945.0	3744.0		A-1-a	
relative Retain	676.0	1633.0	4786.0	6345.0	9922.0	13867.0	17611.0	PRO	2.21	
relative Retain	3.2	7.7	22.4	29.7	46.5	65.0	82.5	WC	7.50	
ve Passing %	96.8	92.3	77.6	70.3	53.5	35.0	17.5	CBR	70.40	
								L.A	36.66	

B-soft material gradation				WT.OF sample				500.00	gm
sieve size	10	40	200						
Retained (g)	205.00	251.00	315.00						
ve Retained %	41.00	50.20	63.00						
ve Passing %	59.00	49.80	37.00						

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
ve Passing %	96.8	92.3	77.6	70.3	53.5	35.0	17.5	10.3	8.7	6.5

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

Contractor
 شركة كنفوز سيناء
 لمعمل اختبارات وإنتاج البنية
 القطار السريع - فوكا - مطروح

Consultant
 mohamed elsaied
 m-elsaied
 26-12-2022



PROCTOR TEST

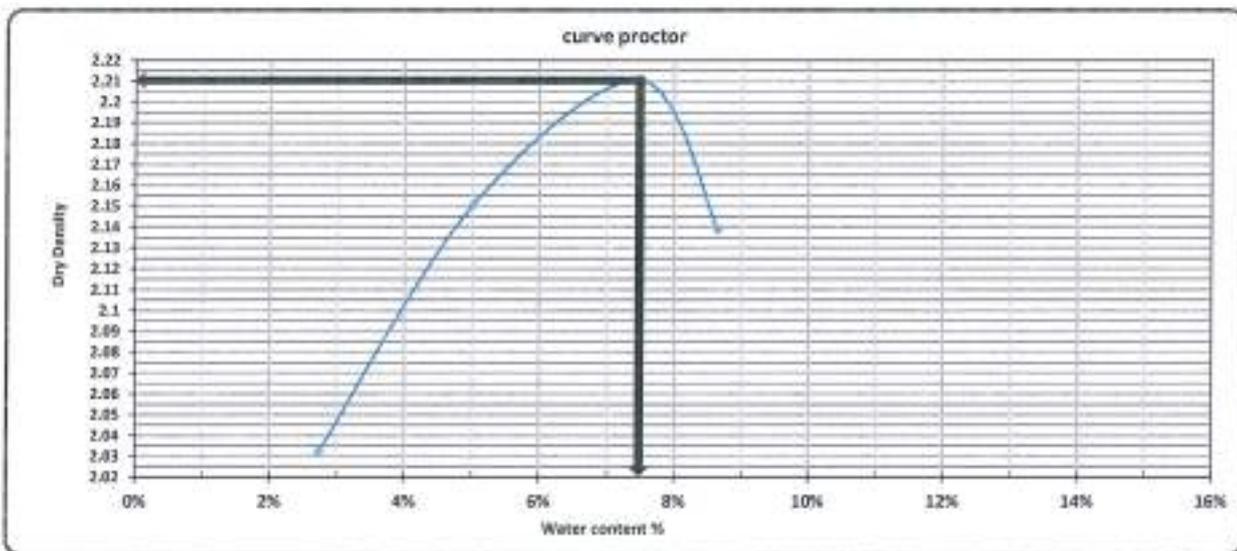
TESTING DATE:	24-12-2022	code	ZONE	504+180	505+000
LOCATION	K.P 504+500	KS1-P.S.G(01)	Material	PREPARED sub grade	
NAME COMPANY	knooz sina1				

Weight of empty mold :	6854.0	MAX Dry Density	2.21
Mold Volume:	2832.0	Water content %	7.5

3150

trial no :	1	2	3	4	5
Wt. Of Mold+ wet soil	10296.8	10644.3	10884.1	10776	
WT. WET SOIL	4242.8	4598.3	4830.1	4722.8	
Wt. Density	2.088	2.259	2.378	2.324	

Tare No.	2	2	5	6	20	32	7	6	15	9
Tare wt.	32	23.24	29.83	23.21	30	22.79	34.18	29		
Wt. Of wet soil & tare	161.0	135.6	180.0	139.1	178.0	121.0	168.2	171.0		
Wt. Of dry soil & tare	157.6	132.6	183.6	133.6	167.5	114.2	149.9	160.0		
Wt. Of water	3.4	3.1	6.4	5.5	10.5	6.8	10.3	11.0		
Wt. Of dry soil	125.6	199.3	124.6	110.4	137.5	91.4	115.7	131.0		
Water content %	2.7%	2.8%	5.1%	4.9%	7.6%	7.4%	8.9%	8.4%		
AV. Water content %	2.7%		5.0%		7.5%		8.6%			
Dry Density	2.032		2.151		2.218		2.139			



Contractor
 شركة كينوز
 للمقاولات العامة
 والتوريدات
 2018

شركة كينوز
سيناء
 للمقاولات العامة
 والتوريدات

Consultant

mohamed elsaid


 محمد السيد
 2018



Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date :	26-12-2022	Code	FROM STA :	504+180	595+000
Location :	K.P 504+500	K51-P.S.G(01)	Material	PREPARED sub grade	
NAME COMPANY	knooz sinai				

- : Test Results

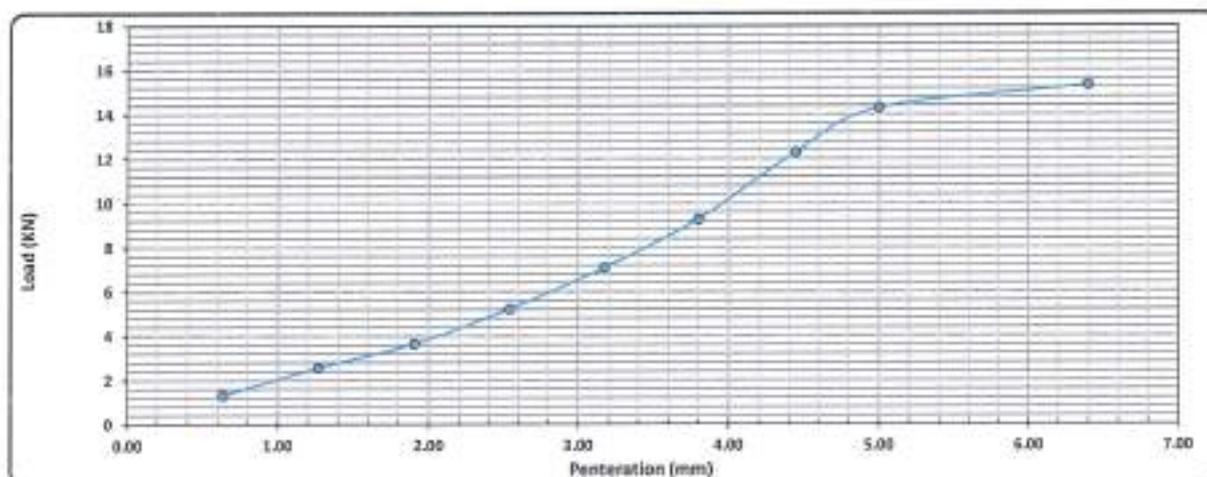
Mold No.	4
Mold Vol. (cm ³)	2151
Mold WT. (gms)	15768
Mold WT. + Wat WT. (gms)	18473.58
Wat WT. (gms)	4774
Wat Density (g/cm ³)	2.219
Dry Density (g/cm ³)	2.180
Proctor Density (g/cm ³)	2.210
Compaction %	98

no of tests	5
Tare WT. (gms)	31
Tare WT. +Wat WT. (gms)	233
Tare WT. +Dry WT. (gms)	221
Water WT. (gms)	32.6
Dry WT. (gms)	190.0
Moisture Content %	7.4

Mold No.	5
Date	26-12-2022
Initial Height (mm)	7.45
Final Height (mm)	7.45
Difference	0
Sample Height (mm)	120.00
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 (kg)	154.00	261.00	372.00	512.00	723.00	949.00	1294.00	1468.00	1504.00
Load (KN)	1.5	2.6	3.6	5.2	7.1	9.3	12.3	14.3	15.3



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR (معدل نسبة 98 %)
2.50	5.21	13.4	39.1%	98	98	38.7%
5.00	14.20	20.0	71.1%			70.4%

Lab. Specialist

Name :

Sign :



Lab. Engineer

Name: محمد الشاذلي
 محمد الشاذلي
 المهندس
 القطار الحديدي - القاهرة - مصر

Consultant Engineer

Name: mohamed elsaid

Sign :

m-elsaid



 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ل.د. خالد قنديل	 جمهورية مصر العربية وزارة النقل	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 للإحصاء (GSI)

LOS Anglos abrasion test

Testing Date :	24-12-2022	Code	FROM STA :	504+130	TO STA :	505+00
Location :	K.P (504+500)	KS1-P.S.G (1)	material	prepared subgrade		
Company Name	knouz sina1					

Los Anglos abrasion AASHTO-T96

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3167	36.66

Lab. Specialist
Name
:
Sign :

Lab. Engineer
Name : *[Signature]*
Sign : *[Signature]*

Consultant Engineer

Name : mohamed elsaid
Sign : *[Signature]*



MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SINA COMPANY		Designer Company						
Issued by Contractor	Name	شركة كنوز سينا	Date	20-01-2023					
	Eng. Ahmed Abdallah	أحمد عبد الله							
Contractor reference	KS1 P.SUB GRADE-(2)								
Received by ER	A-1	[Signature]	MIR						
			C1	C2	C3	DD	MM	YY	HH
			KPS04	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			
		From	To	From	To
Location to be Used		504+920	505+000 (+0.50)	504+300	504+380 (+0.50)
		504+820	504+920 (+0.50)	504+220	504+300 (+0.50)
		504+700	504+820 (+0.50)		
		504+600	504+700 (+0.50)		
		504+480	504+600 (+0.50)		
		504+380	504+480 (+0.50)		
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 ²	3000	17-01-2023	
2	Classification	m ²	3000	17-01-2023	
3	Proctor & O.m.c	m ²	3000	18-01-2023	
4	L.L & P.L & PI	m ²	3000	18-01-2023	
5	C.B.R	m ²	3000	20-01-2023	
Comments by:			Comments by:		
A sample has been taken from fill material by K.K office to (AI TAWKOL laboratory) and the results founded meet the specifications and accepted.			TEST RESULTS FOR ESTIMATED QUANTITIES OF ABOUT 3000 m ³ .		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	AHMED ABDALLAH	[Signature]	20-01-2023		
QA/QC*	Ahmed Abo Zaid	[Signature]	20-01-2023		
GARB**	HUSSEIN FOUAD	[Signature]	20-01-2023		
Comments by					
Employers Representative	A-1	[Signature]	20/1/23	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>	20-01-2023								
Contractor Reference	KS1 P.SUB GRADE-(2) - 20-01-2023										
Received by ER	<i>A. J</i>	<i>[Signature]</i>	MAR	C1	C2	C3	DD	MM	YY	HH	MM
				KP504	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 (504+500)			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	8.6 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	8.3 %	
6	ASTM D 1557	Modified proctor	2.20	
7	ASTM D 1883	CBR	72.00 %	
Comments by:		Comments by:		

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	<i>Ahmed Abdallah</i>	<i>Ahmed</i>	20-01-2023	
Contractor QA/QC *	<i>Ahmed Abo Zaid</i>	<i>[Signature]</i>	20-01-2023	
GARB**	<i>Hussien Fouad</i>	<i>[Signature]</i>	20-01-2023	
Employers Representative	<i>A. J</i>	<i>[Signature]</i>	20/1/23	A

* Designer
** Alignment/Bridges: Culvert only



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



Operating lap

Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	17-1-2023	code	ZONE	504+180	505+000
LOCATION	K.P (504+500)	KS1.P.S.G (2)	Material	prepared sub grade	
NAME COMPANY	knooz sina1				

-visual inspection test

-Gradient test

-gradation of bulk materials			SAMPLE WEIGHT [g]					31980.00	gm	table classify
sieve size	3	2.0	1.5	1	3/4	3/8	# 4	PASS	soil classify	
Mass retained (g)	0.0	0.0	3640.0	6570.0	1990.0	5295.0	7445.0		A-1-a	
Cumulative Retained (g)	0.0	0.0	3640.0	10210.0	12200.0	17495.0	24940.0		PRO 2.20	
Cumulative Retained %	0.0	0.0	11.4	31.9	38.1	54.7	78.0		WC 8.30	
Cumulative Passing %	100.0	100.0	88.6	80.0	70.3	45.3	22.0		CBR 72.00	
									LA 38.84	

-soft material gradation			WT.OF sample		500.00	gm
sieve size	10	40	200			
Cumulative Retained (g)	55.00	140.00	305.00			
Cumulative Retained %	11.00	28.00	61.00			
Cumulative Passing %	89.00	72.00	39.00			

-General gradient										
sieve size(in)	5	4.0	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	88.6	80.0	70.3	45.3	22.0	19.6	15.8	8.6

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

Contractor

Consultant

(Handwritten signature and stamp of the contractor)

(Handwritten signature and date 2023 of the consultant)

شركة كنوز سيناء
 للمقاولات العامة والتوريدات



 	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		 				
	TESTING DATE:	18-01-2023		code	Station	504+180	505+000
	LOCATION	K,P (504+500)		KS1.P.S.G (2)	Material	prepared sub grade	
NAME COMPANY	knooz sina1						

PROCTOR TEST

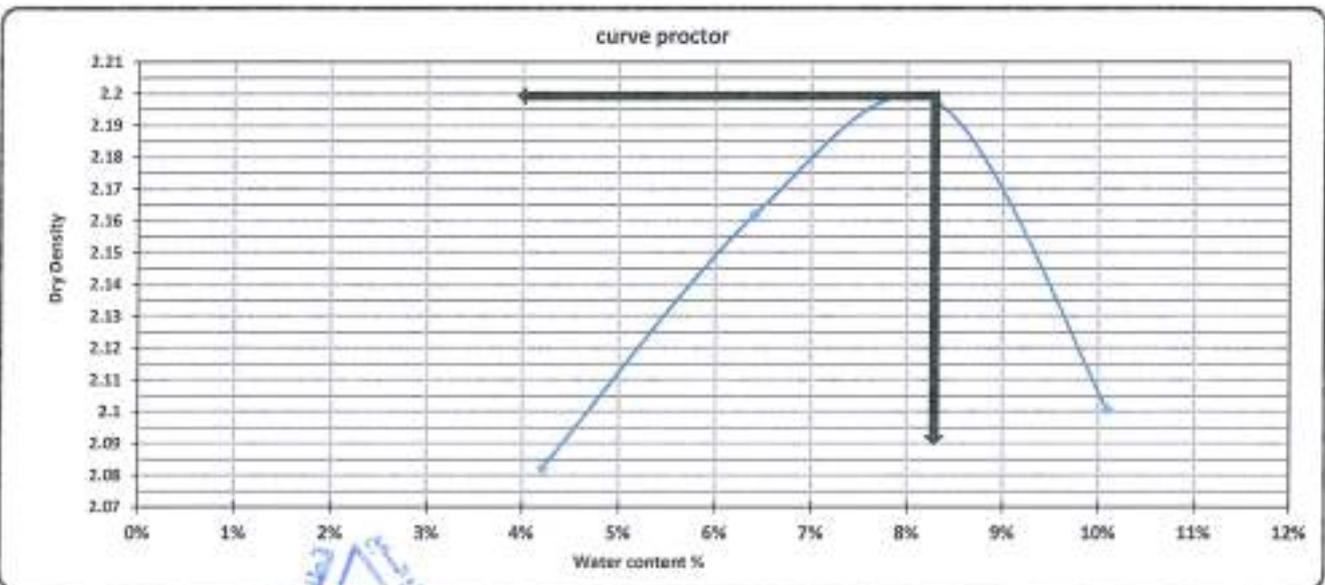
TESTING DATE:	18-01-2023	code	Station	504+180	505+000
LOCATION	K,P (504+500)	KS1.P.S.G (2)	Material	prepared sub grade	
NAME COMPANY	knooz sina1				

Weight of empty mold :	5620.0
Mold Volume:	2030.0

MAX Dry Density	2.2
Water content %	8.3

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10625.0	10290.0	10451.0	10315	
WT. WET SOIL	4495.0	4670.0	4831.0	4695.0	
Wt. Density	2.170	2.300	2.380	2.313	

Tare No.	3	6	8	10	12	19	22	23		
Tare wt.	55.72	53.97	57.06	55.43	54.83	56.08	54.76	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	146.3	146.0	144.5	144.2	142.6	142.9	141.2	141.3		
Wt. Of water	3.7	4.0	5.5	5.8	7.4	7.1	8.8	8.7		
Wt. Of dry soil	98.6	92.0	87.4	88.8	87.8	86.8	86.4	86.9		
Water content %	4.1%	4.3%	6.3%	6.5%	8.4%	8.2%	10.2%	10.0%		
AV. Water content %	4.2%		6.4%		8.3%		10.1%			
Dry Density	2.082		2.162		2.197		2.101			

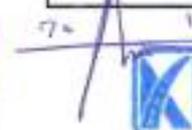


Contractor


 المهندس ابراهيم بن محمد بن احمد
 رقم (١)

شركة كنوز
 سيناء
 للمقاولات العامة
 والتوريدات

Consultant


 المهندس
 خالد قنديل
 رقم (١)

KK
 المهندس
 خالد قنديل



Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date :	20-01-2023	Code	FROM STA :	504+180	TO STA :	505+000
Location :	K.P (504+500)	KS1.P.S.G (2)	: Material		prepared sub grade	
Company Name	knouz sinat					

:- Test Results

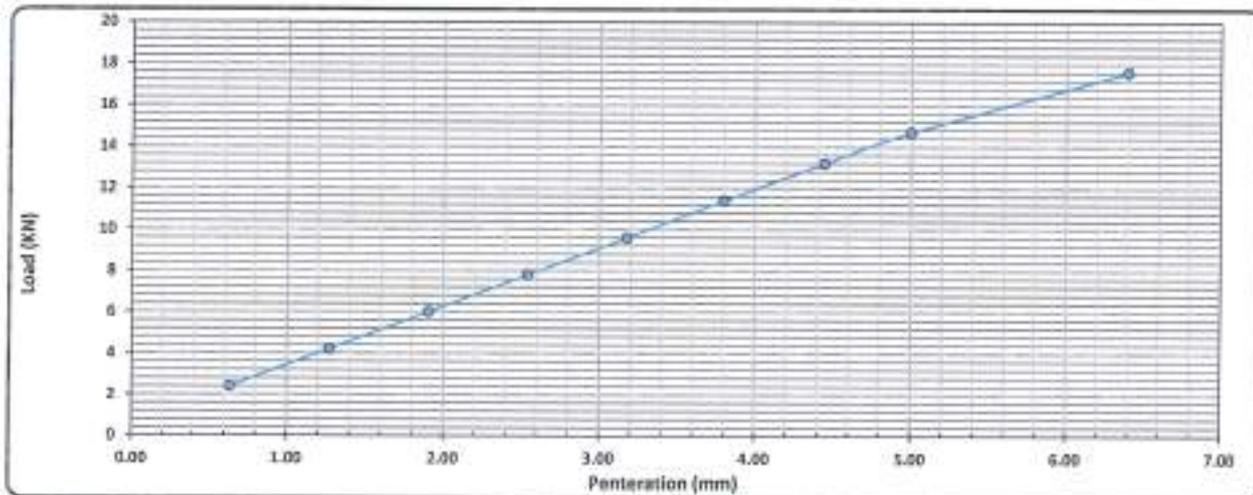
Compaction % for Mold	
Mold No.	1
Mold Vol.(cm ³)	2168
Mold WT. (gm)	5889
Mold WT. + Wet WT. (gm)	10563
Wet WT. (gm)	5174
Wet Density (g/cm ³)	2.381
Dry Density (g/cm ³)	2.284
Proctor Density (g/cm ³)	2.280
Compaction %	100

Moisture Ratio After Compacted Mold	
Tare No.	25.00
Tare WT. (gm)	58.80
Tare WT. +Wet WT. (gm)	150
Tare WT. +Dry WT. (gm)	142.60
Water WT. (gm)	7.80
Dry WT. (gm)	87
Moisture Content %	8.30

Swelling	
Mold No.	1
Date	20-01-2023
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)	0.08	0.14	0.20	0.26	0.32	0.38	0.44	0.49	0.56
Load (KN)	2.4	4.2	6.0	7.8	9.6	11.4	13.2	14.7	17.6



Calculations :-

Penetration (mm)	Load (Ks)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % عند نسبة 98
2.50	7.80	13.4	58.4%	100	98	57.3%
5.00	14.70	20.0	73.4%			71.9%

Lab. Specialist

Name :

Sign :



Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :



 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد تديرين		Electric Express Train - HSR	 الهيئة العامة للإتصال القوة القاهرة للتحديات 2023
		From El An El Sokhna City To El Namin - MATROUH	
		Section - 7 From FOKA To MARSA MATROUH	
		From Station 904+000 To Station 909+177	

LOS Anglos abrasion test						
Testing Date :	18-01-2023	Code	FROM STA :	504+180	TO STA :	505+00
Location :	K.P (504+500)	KS1 P.S.G (2)	material	prepared sub grade		
Computer Name	knouz sira1					

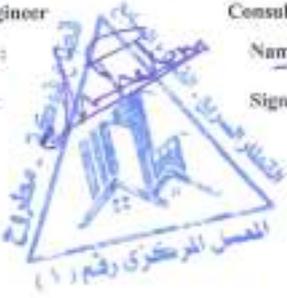
Los Anglos abrasion AASHTO-T96

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3058	38.84

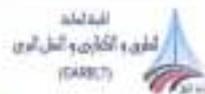
Lab. Specialist
Name :
Sign :

Lab. Engineer
Name :
Sign :

Consultant Engineer
Name : *2023*
Sign : *[Signature]*



MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SINA COMPANY		Designer Company													
Issued by Contractor	Name	Sign	Date	Time												
	Eng. Ahmed Abdallah	<i>Ahmed</i>	25-05-2023													
Contractor reference	KS1 SUB BALLAST- (1) - 25-05-2023															
Received by ER	<i>A-1</i>	<i>[Signature]</i>	MIR													
			<table border="1"> <tr> <td>Cl</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>KPS04</td> <td>EW</td> <td>CS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Cl	C2	C3	DD	MM	YY	HH	MM	KPS04	EW	CS		
Cl	C2	C3	DD	MM	YY	HH	MM									
KPS04	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		
		504+900	505+000 (+0.70)		
		504+780	504+900 (+0.70)		
		504+660	504+780 (+0.70)		
		504+540	504+660 (+0.70)		
		504+420	504+540 (+0.70)		
	504+320	504+420 (+0.70)			
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	2000	22-05-2023	
2	Classification	m ³	2000	22-05-2023	
3	Proctor & O.m.c	m ³	2000	23-05-2023	
4	L.L & P.L & PI	m ³	2000	23-05-2023	
5	C.B.R	m ³	2000	25-05-2023	
Comments by:			Comments by:		
A sample has been taken from fill material by K.K office to (AI TWAKOL laboratory) and the results founded meet the specifications and accepted.			<i>Test results for estimated quantities of about [2000m³]</i>		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	<i>Ahmed</i>	<i>Ahmed</i>	25-05-2023		
QA/QC*	<i>Abdallah SAMY</i>	<i>Abdallah</i>	25-05-2023		
GARB**	<i>Hussien Fouad</i>	<i>Hussien</i>	25-05-2023		
Comments by					
Employers Representative	<i>A-1</i>	<i>[Signature]</i>	25/5/23	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		25-05-2023								
Contractor Reference	KS1 SUB BALLAST- (1) - 25- 5-2023										
Received by ER			MAR	C1	C2	C3	DD	MM	YY	HH	MM
				KP504	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 (504+500)			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	5.44 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	6.5 %	
6	ASTM D 1557	Modified proctor	2.235	
7	ASTM D 1883	CBR	98.30 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdallah		25-05-2023	
Contractor QA/QC *	Abdallah SAMY		25-05-2023	
GARB**	Hussien Fouad		25-05-2023	
Employers Representative	A. J		25/5/23	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: **AJ Tawkol Central Lab**

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	22/5/2023	code	ZONE	504+180	505+000
LOCATION	K.P (504+500)	(KS 1) SUB BALLAST (1)	Material	SUB BALLAST	
NAME COMPANY	knouz sina1		QUANTITY	2000 M	

1-visual inspection test

2-Gradient test

A-gradation of bulk materials

				SAMPLE WEIGHT [gm]		77735.000		gm		
sieve size	2 "	1.5 "	1 "	3/4 "	1/2 "	3/8 "	# 4	PASS	table class	soil class
Mass retained (g)	0.0	3510.0	10730.0	9875.0	13270.0	8530.0	15305.0		CLASS	A-1-a
Cumulative Retained (g)	0.0	3510.0	14240.0	24115.0	37385.0	45915.0	61220.0		PRO	2.235
Cumulative Retained %	0.0	4.5	18.3	31.0	48.1	59.1	78.6		WC	6.5
Cumulative Passing %	100.0	95.5	81.7	69.0	51.9	40.9	21.25		CBR	98.30
									L.A	24.60
									S.G	2.515

B-soft material gradation

			WT.OF sample		500.00		gm
sieve size	#10	#40	#200				
Cumulative Retained (g)	99.80	204.00	372.00				
Cumulative Retained %	19.96	40.80	74.40				
Cumulative Passing %	80.04	59.20	25.60				

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	95.5	81.7	69.0	51.9	40.9	21.2	17.0	12.8	5.44

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

Contractor

Consultant



Handwritten signature of the 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	
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MODIFIED PROCTOR TEST ASTM D-1557

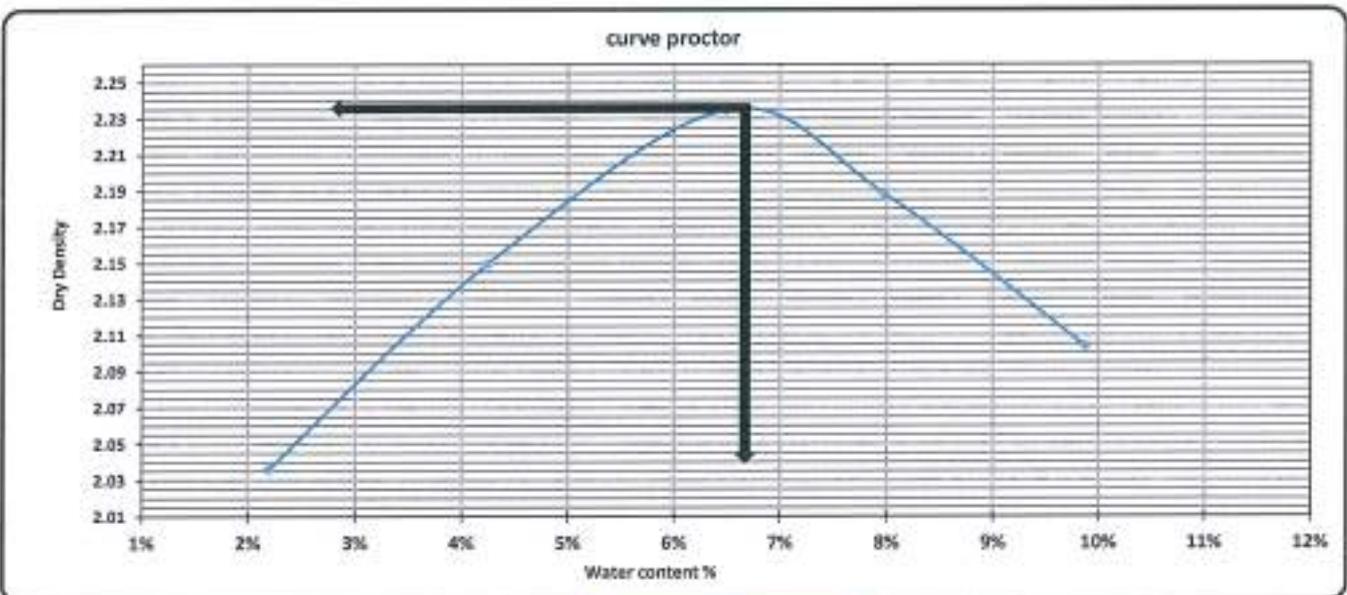
TESTING DATE:	23/5/2023	code	ZONE	504+180	505+000
LOCATION	K.P (504+500)	(MS1 - SUB BALLAST II)	Material	SUB BALLAST	
NAME COMPANY	knouz sina		QUANTITY	2000 m	

Weight of empty mold :	5620.0
Mold Volume:	2124.0

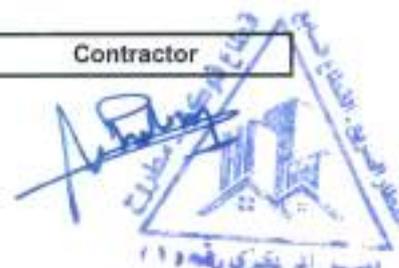
MAX Dry Density	2.235
Water content %	6.5%

trial no :	1	2	3	4	5
Wt. Of Mold+ wet soil	10040.0	10380.0	10660.0	10640	10530
WT. WET SOIL	4420.0	4760.0	5040.0	5028.0	4910.0
Wt. Density	2.081	2.241	2.373	2.363	2.312

Tare No.	10	1	8	5	2	20	15	24	12	7
Tare wt.	54.4	55.19	57.13	56.26	52.46	54.65	54.42	55.94	55.33	54.34
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
Wt. Of dry soil & tare	147.9	148.0	145.9	146.5	144.32	144.45	142.8	143.2	141.6	141.3
Wt. Of water	2.1	2.0	4.1	3.5	5.7	5.6	7.2	6.8	8.4	8.7
Wt. Of dry soil	93.5	92.8	88.8	90.2	91.9	89.8	88.4	87.2	86.3	87.0
Water content %	2.2%	2.2%	4.6%	3.9%	6.4%	6.6%	8.1%	7.8%	9.7%	10.0%
AV. Water content %	2.2%		4.2%		6.5%		8.0%		9.9%	
Dry Density	2.036		2.150		2.235		2.189		2.104	



Contractor





Consultant



 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ا. د. خالد قنديل	 CVS/CA SHARER	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH	 الهيئة العامة للنقل 5481
		From Station 504+000 To Station 505+177	
Absorbion & Aggregate specific gravity AASHTO-T85			

TESTING DATE:	23/5/2023	code	Station	504+180	505+000
LOCATION	K.P (504+500)	(RS 1) -SUB BALLAST (1)	Material	SUB BALLAST	
NAME COMPANY	kanoz sinal		QUANTITY	2000 M	

Weight of sample	2500	gm
Weight of saturated surface dry sample (B)	2535	gm
Weight of saturated sample in water (C)	1545	gm
Weight of dry sample after heating (A)	2490	gm

Results:-

Bulk specific gravity = A / (B-C)	2.515	
Bulk specific gravity (S.S.D) = B / (B-C)	2.561	
Apparent specific gravity = A / (A-C)	2.635	
Absorbation = (B-A)/A	1.607	%

Los Anglos Abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3770	24.60

Lab. Specialist

Name :



Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :

Abdelshah



California Bearing Ratio TEST

Testing Date :	25/5/2023	Code	FROM STA :	504+130	505+000
Location :	K.P (504+500)	KS 1 -SUB BALLAST(1)	: Material	SUB BALLAST	
Company Name	KNOZ SINAA 1		: Layer Thickness	1000N	

-: Test Results

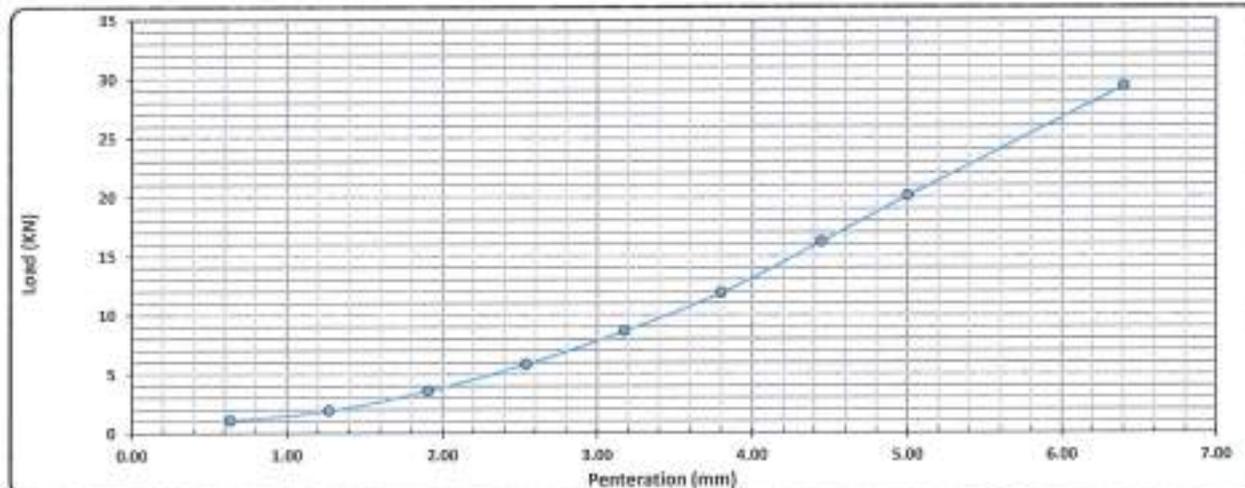
Mold No.	1
Mold Vol. (cm ³)	2160
Mold WT. (gm)	4822
Mold WT. + Wat WT. (gm)	9944
Wat WT. (gm)	5122
Wat Density (g/cm ³)	2.371
Dry Density (g/cm ³)	2.236
Proctor Density (g/cm ³)	2.235
Compaction %	100.0

Tare No.	3
Tare WT. (gm)	56.33
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	144.6
Water WT. (gm)	5.4
Dry WT. (gm)	89.3
Moisture Content %	6.0

Mold No.	1
Date	25/5/2023
Initial Height (mm)	30.00
Final Height (mm)	30.00
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (Kgf)	121	214	401	682	965	1321	1801	2232	3262
Load (KN)	1.1	1.9	3.6	5.9	8.7	11.9	16.2	20.1	29.4



Calculations :-

Penetration (mm)	Load (Kni)	Standard Load (Il)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR %
2.50	5.87	13.4	44.0%	100	98	43.1%
5.00	20.09	20.0	100.3%			98.3%

Lab. Specialist

Name :

Sign :



Lab. Engineer

Name :

Sign :



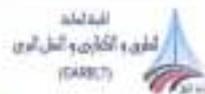
Consultant Engineer

Name :

Sign :



MATERIAL INSPECTION REQUEST



Contractor Company	KNOOZ SINA COMPANY		Designer Company													
Issued by Contractor	Name	Sign	Date	Time												
	Eng. Ahmed Abdallah	<i>Ahmed</i>	25-05-2023													
Contractor reference	KS1 SUB BALLAST- (1) - 25-05-2023															
Received by ER	<i>A-1</i>	<i>[Signature]</i>	MIR													
			<table border="1"> <tr> <td>CI</td> <td>CE</td> <td>CS</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>KPS04</td> <td>EW</td> <td>CS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	CI	CE	CS	DD	MM	YY	HH	MM	KPS04	EW	CS		
CI	CE	CS	DD	MM	YY	HH	MM									
KPS04	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			
		504+900	505+000 (+0.70)			
		504+780	504+900 (+0.70)			
		504+660	504+780 (+0.70)			
		504+540	504+660 (+0.70)			
		504+420	504+540 (+0.70)			
		504+320	504+420 (+0.70)			
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	2000	22-05-2023		
2	Classification	m ³	2000	22-05-2023		
3	Proctor & O.m.c	m ³	2000	23-05-2023		
4	L.L & P.L & PI	m ³	2000	23-05-2023		
5	C.B.R	m ³	2000	25-05-2023		
Comments by:			Comments by:			
A sample has been taken from fill material by K.K office to (AI TWAKOL laboratory) and the results founded meet the specifications and accepted.			<i>Test results for estimated quantities of about [2000m³]</i>			
APPROVAL STATUS						
Organisation	Name	Sign	Date	A-AWC-R		
Contractor	<i>Ahmed</i>	<i>Ahmed</i>	25-05-2023			
QA/QC*	<i>Abdallah SAMY</i>	<i>Abdallah</i>	25-05-2023			
GARB**	<i>Hussien Fouad</i>	<i>Hussien</i>	25-05-2023			
Comments by						
Employers Representative	<i>A-1</i>	<i>[Signature]</i>	25/5/23	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		25-05-2023								
Contractor Reference	KS1 SUB BALLAST- (1) - 25- 5-2023										
Received by ER			MAR	C1	C2	C3	DO	MM	YY	HH	MM
				KP504	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 (504+500)			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	5.44 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	6.5 %	
6	ASTM D 1557	Modified proctor	2.235	
7	ASTM D 1883	CBR	98.30 %	
Comments by:		Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Ahmed Abdallah		25-05-2023	
Contractor QA/QC *	Abdallah SAMY		25-05-2023	
GARB**	Hussien Fouad		25-05-2023	
Employers Representative	A. J		25/5/23	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 MARSА MATROUH
 From Station 504+000 To Station 568+177



Operating lap: **AJ Tawkol Central Lab**

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	22/5/2023	code	ZONE	504+180	505+000
LOCATION	K.P (504+500)	(KS 1) SUB BALLAST (1)	Material	SUB BALLAST	
NAME COMPANY	knooz sina1		QUANTITY	2000 M	

1-visual inspection test

2-Gradient test

A-gradation of bulk materials

								SAMPLE WEIGHT [gm]	77735.000	gm	table class
sieve size	2 "	1.5 "	1 "	3/4 "	1/2 "	3/8 "	# 4	PASS		soil class	
Mass retained (g)	0.0	3510.0	10730.0	9875.0	13270.0	8530.0	15305.0		CLASS	A-1-a	
Cumulative Retained (g)	0.0	3510.0	14240.0	24115.0	37385.0	45915.0	61220.0		PRO	2.235	
Cumulative Retained %	0.0	4.5	18.3	31.0	48.1	59.1	78.8		WC	6.5	
Cumulative Passing %	100.0	95.5	81.7	69.0	51.9	40.9	21.25		CBR	98.30	
									L.A	24.60	
									S.G	2.515	

B-soft material gradation

				WT.OF sample	500.00	gm
sieve size	#10	#40	#200			
Cumulative Retained (g)	99.80	204.00	372.00			
Cumulative Retained %	19.96	40.80	74.40			
Cumulative Passing %	80.04	59.20	25.60			

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	95.5	81.7	69.0	51.9	40.9	21.2	17.0	12.8	5.44

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

Contractor

Consultant



Handwritten signature of the consultant.



MODIFIED PROCTOR TEST ASTM D-1557

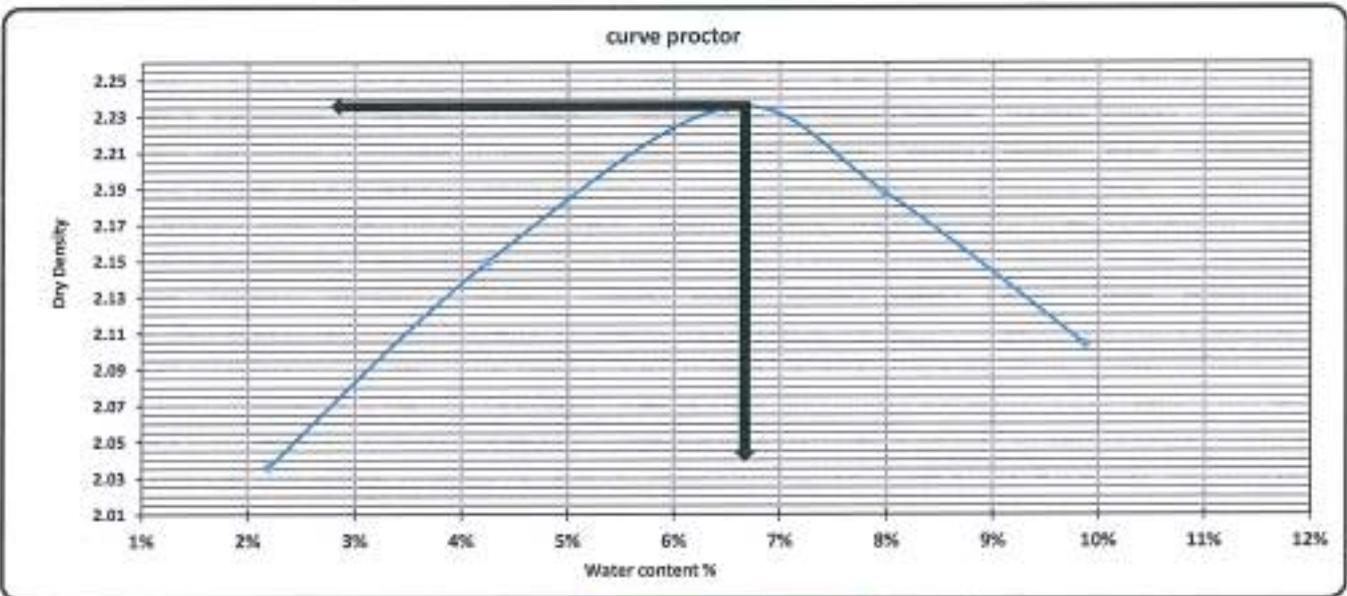
TESTING DATE:	23/5/2023	code	ZONE	504+180	505+000
LOCATION	K.P (504+500)	(MS1 - SUB BALLAST II)	Material	SUB BALLAST	
NAME COMPANY	knouz sina		QUANTITY	2000 m	

Weight of empty mold :	5620.0
Mold Volume:	2124.0

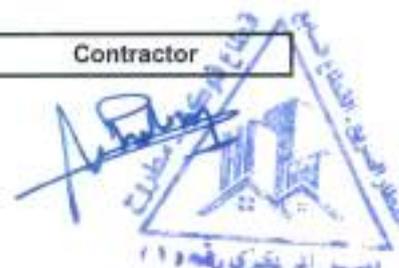
MAX Dry Density	2.235
Water content %	6.5%

trial no :	1	2	3	4	5
Wt. Of Mold+ wet soil	10040.0	10380.0	10660.0	10640	10530
WT. WET SOIL	4420.0	4760.0	5040.0	5028.0	4910.0
Wt. Density	2.081	2.241	2.373	2.363	2.312

Tare No.	10	1	8	5	2	20	15	24	12	7
Tare wt.	54.4	55.19	57.13	56.26	52.46	54.65	54.42	55.94	55.33	54.34
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
Wt. Of dry soil & tare	147.9	148.0	145.9	146.5	144.32	144.45	142.8	143.2	141.6	141.3
Wt. Of water	2.1	2.0	4.1	3.5	5.7	5.6	7.2	6.8	8.4	8.7
Wt. Of dry soil	93.5	92.8	88.8	90.2	91.9	89.8	88.4	87.2	86.3	87.0
Water content %	2.2%	2.2%	4.6%	3.9%	6.4%	6.6%	8.1%	7.8%	9.7%	10.0%
AV. Water content %	2.2%		4.2%		6.5%		8.0%		9.9%	
Dry Density	2.036		2.150		2.235		2.189		2.104	



Contractor





Consultant



 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ا. د. خالد قنديل	 CVS/CA SHARER	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH	 وزارة النقل والاقتصاد 5481
		From Station 504+000 To Station 508+177	
Absorbion & Aggregate specific gravity AASHTO-T85			

TESTING DATE:	23/5/2023	code	Station	504+180	505+000
LOCATION	K.P (504+500)	(RS 1) -SUB BALLAST (1)	Material	SUB BALLAST	
NAME COMPANY	kanoz sinal		QUANTITY	2000 M	

Weight of sample	2500	gm
Weight of saturated surface dry sample (B)	2535	gm
Weight of saturated sample in water (C)	1545	gm
Weight of dry sample after heating (A)	2490	gm

Results:-

Bulk specific gravity = A / (B-C)	2.515	
Bulk specific gravity (S.S.D) = B / (B-C)	2.561	
Apparent specific gravity = A / (A-C)	2.635	
Absorbation = (B-A)/A	1.607	%

Los Anglos Abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3770	24.60

Lab. Specialist

Name :



Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :

Abdelshah



California Bearing Ratio TEST

Testing Date :	25/5/2023	Code	FROM STA :	504+130	505+000
Location :	K.P (504+500)	KS 1 -SUB BALLAST(1)	: Material	SUB BALLAST	
Company Name	KNOZ SINAA 1		: Layer Thickness	1000N	

-: Test Results

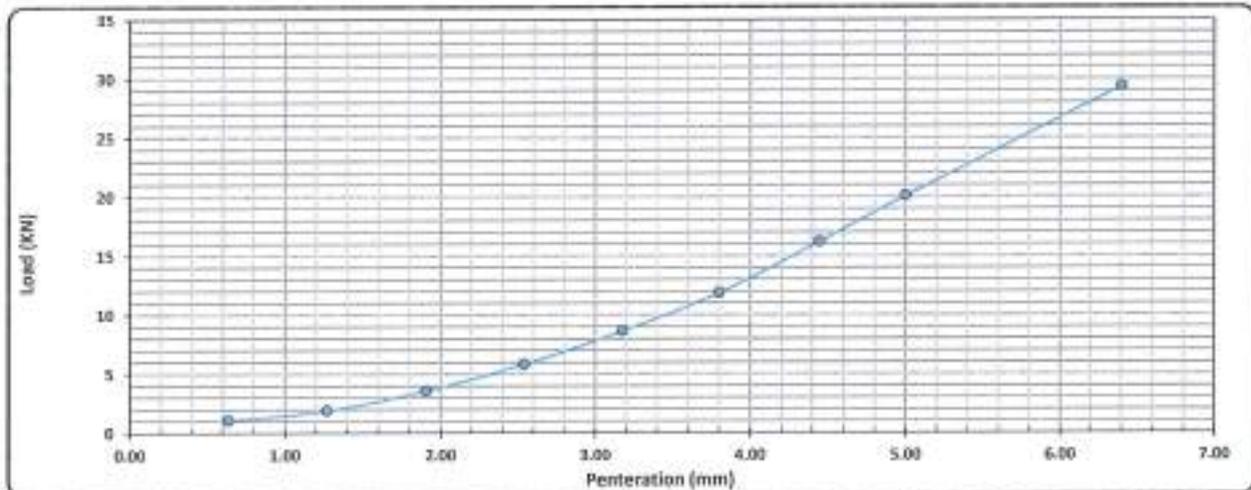
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2160
Mold WT. (gm)	4822
Mold WT. + Wat WT. (gm)	9944
Wat WT. (gm)	5122
Wat Density (g/cm ³)	2.371
Dry Density (g/cm ³)	2.236
Proctor Density (g/cm ³)	2.235
Compaction %	100.0

Moisture Ratio After Compacted Mold	
Tare No.	3
Tare WT. (gm)	55.33
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	144.6
Water WT. (gm)	5.4
Dry WT. (gm)	89.3
Moisture Content %	6.0

Swelling	
Mold No.	1
Date	25/5/2023
Initial Height (mm)	30.00
Final Height (mm)	30.00
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (Kgf)	121	214	401	682	965	1321	1801	2232	3262
Load (KN)	1.1	1.9	3.6	5.9	8.7	11.9	16.2	20.1	29.4



Calculations :-

Penetration (mm)	Load (Kni)	Standard Load (Il)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR %
2.50	5.87	13.4	44.0%	100	98	98 % نسبة 98
5.00	20.09	20.0	100.3%			43.1%
						98.3%

Lab. Specialist

Name :

Sign :



Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

Sign :

Signature





قائمة كميات بالمستخلص جاري (2)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الإدارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من انكم 504+180 الى انكم 505+000 بطول 0.82 كيلومتر اتجاه التوارية

رقم البند و بيانه : (1-1) علاوة مسافة النقل 282.5 كم

علاوة مسافة النقل

لتنفيذ : شركة كنوز سيناء للمقاولات العامة و التوريدات

3م 0,00

مقدار العمل السابق :

بيان بالكميات	الكمية
الكمية طبقاً للقوائم الكميات	17096.20
اجمالي الكميات خلال فترة المستخلص الحالية (م)	17096.20
الاجمالي الكلي (م)	17096.20

مهندس الهدية العامة للطرق
و المواصلات
م / ايوان محمد الطنطاوي

مهندس الاستشاري
مكتب د/هاك فندويل
م / خالد فوزي السيد

مهندس الاستشاري (xyz)
م / محمد شهاب خليل

مهندس الشركة
م / أحمد عبدالعاطي حاتم



قائمة كميات بالمستخلص جارى (2)

مشروع : القطار الكهربائى السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح الى المسافة من الكم 180+504 الى الكم 505+000 بطول 0.82 كيلو متر اتجاه النوبارية

رقم البلد و بيانه : (1-1) رسوم الكارتة والموازين طبقاً للمادة (36) من الشروط العامة ومواصفات طبقاً لما جاء بالقائمة الموحدة لاسعار الطرق لاجمال طبقة الازربة

الكارتات والموازين

تنفيذ : شركة كنوز سيناء للمقاولات العامة و التوريدات

3م

0.00

مقدار العمل السابق :

الكمية	بيان بالكميات
17096.20	الكمية طبقا لقوائم الكميات
17096.200	اجمالي الكميات خلال فترة المستخلص الحالية (3م)
17096.200	الاجمالي الكلي (م)

مهندس الهيئة العامة للطرق
المواصلات
م / ابراهيم محمد الحناوي

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

علاء السيد

مهندس الاستشاري (xyz)

م / محمد طه حبيب خليل

محمد خليل

مهندس الشرفة

م / احمد عبدالعاطي حامد

احمد العاشر



قائمة الكميات الواردة بالمستخلص جارى (2)

مشروع : القطار الكهربائى السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح فى المسافة من الكم 504+180 الى الكم 505+000 بطول 0.82 كيلو متر اتجاه النوباريه

رقم البند و بيانه : (1-1) أعمال توريد وتشغيل التربة صالحة للردم ومطابقة للمواصفات طبقا للمفاوضه عن شهر فبراير 2023

تسفيد : شركة كنوز سيناء للمقاولات العامه والتوريدات

الكمية	الابعاد (متر)		الموقع الكيلومترى		بيان الاعمال بالمقايمة
	مساحة المقطع	طول	الى	من	
4274.05	35.62	120	504+640	504+520	القطاع الاول
3561.71	35.62	100	504+740	504+640	القطاع الثانى
3561.71	35.62	100	504+840	504+740	القطاع الثالث
3561.71	35.62	100	504+940	504+840	القطاع الرابع
2137.03	35.62	60	505+000	504+940	القطاع الخامس
17,096.200	اجمال الكميات خلال فترة المستخلص الحالية (م ³)				
17,096.200	الاجمالي الكلى (م ³)				

مهندس الهيئة العامة للطرق
والكبارى
م / ابراهيم عبدالصالح الحنارى

مهندس الإستشارى
مكتب دلفاند قنديل
م / خالد فوزى السيد

مهندس الإستشارى (xyz)

م / محمد شهاب خليل

مهندس الشركة

م / احمد عبدالعالمى حاتم

د. محمد العاصمى

لدا العاصمى

محمد شهاب خليل



قائمة الكميات الواردة بالمستخلص جارى (2)

مشروع : القطار الكهربائى السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح فى المسافة من الكم 504+180 الى الكم 505+000 بطول 0.82 كيلو متر اتجاه التوبارية

رقم البند و بيانه : (2-1) قيمة المادة المحجيرة بمشتملاتها لاعمال الاساس (prepared subgrade)

المادة المحجيرة

تسفيد : شركة كنوز سيناء للمقاولات العامة والتوريدات

مقدار العمل السابق : 0 م 3م

بيان بالكميات	الكمية
الكمية طبقاً لقوائم الكميات	5569.30
اجمالي الكميات خلال فترة المستخلص الحالية (3م)	5569.30
الاجمالي الكلي (م ³)	5569.30

مهندس الهيئة العامة للطرق
م / ابراهيم عبدالله الجنوي

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

مهندس الاستشاري (xyz)

م / محمد شهاب خليل

مهندس الشركة

م / احمد عبدالمطلي حاتم

م / خالد فوزي السيد

م / محمد شهاب خليل

م / احمد عبدالمطلي حاتم



قائمة الكميات الواردة بالمستخلص جارى (2)

مشروع : الشطار الكهربائى السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح فى المسافة من الكم 504+180 الى الكم 505+000 بطول 0.82 كيلو متر اتجاه النوبارية

رقم البند و بيانه : (2-1) علاوة مسافة النقل 62 كم لاعمال طبقة التأسيس (Prepared Subgrade)

علاوة مسافة النقل

تستفيد : شركة كتوز ميناء للمقاولات العامة و التوريدات

3م

0.00

مقدار العمل السابق :

الكمية	بيان بالكميات
5569.30	الكمية طبقا لقوائم الكميات
5569.30	اجمالي الكميات خلال فترة المستخلص الحالية (3م)
5569.30	الاجمالي الكمي (م ³)

مهندس الهيئة العامة للطرق
م / ابراهيم عيسى الحطاري

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

مهندس الاستشاري (xyz)

م / محمد شهاب خليل

مهندس الشركة

م / احمد عبدالعظيم حامد

م / محمد العاطي

م / محمد

م / محمد



قائمة الكميات الواردة بالمستخلص جاري (2)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الإدارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم 504+180 الى الكم 505+000 بطول 0.82 كيلو متر اتجاه النوبارية

رقم البند و بيانه : (2-1) رسوم الكارثة والموازن طبقاً للمادة (36) من الشروط العامة والمواصفات طبقاً لما جاء بالقائمة الموحدة لاسعار الطرق لعمال طبقة التأسيس (Prepared Subgrade)

الكارثات والموازن

تنفيذ : شركة كنوز سيناء للمقاولات العامة و التوريدات

3م

0.00

مقدار العمل السابق :

الكمية	بيان بالكميات
5569.30	الكمية طبقاً لقوائم الكميات
5569.30	اجمال الكميات خلال فترة المستخلص الحالية (م)
5569.30	الاجمالي الكلي (م)

مهندس الهيئة العامة للطرق
والمواصلات
د / ابراهيم عثمان طحطاوي

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

كروالمة

مهندس الاستشاري (EVS)

م / محمد شهاب خليل

محمد شهاب خليل

مهندس الشركة

م / احمد عبدالعالمى حاتم

أحمد عبدالعالمى



قائمة الكميات الواردة بالمستخلص جارى (2)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم 504+180 الى الكم 505+000 بطول 0.82 كيلو متر اتجاه النوبارية

رقم البند وبيانه : [2-1 | أعمال توريد وفرش طبقة التأسيس من الأحجار الصلبة المتردجة (Prepared Subgrade) طبقا للمفاوضه عن شهر فبراير 2023

تنفيذ : شركة كنوز سيناء للمقاولات العامة والتوريدات

مقدار العمل السابق : 0.00 م 3

الكمية	الابعاد (متر)		الموقع الكيلومترى		بيان الاعمال بالمقاييس
	مساحة المقطع	طول	الى	من	
795.61	7.956	100	504+300	504+200	القطاع الاول
795.61	7.956	100	504+400	504+300	القطاع الثانى
795.61	7.956	100	504+500	504+400	القطاع الثالث
795.61	7.956	100	504+600	504+500	القطاع الرابع
795.61	7.956	100	504+700	504+600	القطاع الخامس
795.61	7.956	100	504+800	504+700	القطاع الخامس
795.61	7.956	100	504+900	504+800	القطاع الخامس
5569.30	اجمالي الكميات خلال فترة المستخلص الحالية (م ³)				
5569.30	الاجمالي الكلى (م ³)				

مهندس الجهة العامة للطرق
والكهرباء
م / ابراهيم محمد الحناوى

مهندس الاستشارى
مكتب د.إخلاء قنديل
م / خالد فوزى السيد

لداوي

مهندس الاستشارى (xyz)

م / محمد شهاب خليل

محمد شهاب خليل

مهندس الشركة

م / أحمد عبدالعاطى حامد

أحمد عبدالعاطى



قائمة كميات بالمستخلص جاري (2)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الإدارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم 504+180 الى الكم 505+000 بطول 0.82 كيلو متر اتجاه النوبارية

رقم البند و بيانه : (2-2) قيمة المادة المحجيرة بمشتلاتها لاعمال الاساس (subballast)

المادة المحجيرة

تسليط : شركة كنوز سيناء للمقاولات العامة و التوريدات

3م

0.00

مقدار العمل السابق :

الكمية	بيان بالكميات
1769.40	الكمية طبقا لقوائم الكميات
1769.40	اجمالي الكميات خلال فترة المستخلص الحالية (3م)
1769.40	الاجمالي الكلي (م ³)

مهندس الهندسة العامة للطرق
والكباري
م / ابراهيم محمد العنبري

مهندس الاستشاري
مكتب داهيات قديم
م / خالد فوزي السيد

مهندس الاستشاري (xyz)

م / محمد شهاب خليل

مهندس الشركة

م / احمد عبدالعاطي حامد

كامل السيد

محمد خليل

زهره العاطي



قائمة كميات بالمستخلص جارى (2)

مشروع : الفطار الكهربائى السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح فى المسافة من الكم 180+504 الى الكم 000+505 بطول 0.82 كيلو متر اتجاه النوبارية

رقم الهند و بيانه : (2-2) رسوم الكارتة والموازين طبقاً للعادة(36) من الشروط العامة والمواصفات طبقاً لما جاء بالقائمة الموحدة لاسعار الطرق لاعمال طبقة الاساس

الكارتات والموازين

تسفيد : شركة كنوز سيناء للمقاولات العامة و التوريدات

3م

0.00

مقدار العمل السابق :

بيان بالكميات	الكمية
الكمية طبقاً لقوائم الكميات	1769.40
اجمالي الكميات خلال فترة المستخلص الحالية (3م)	1769.40
الاجمالي الكمي (م ³)	1769.40

مهندس المهنة العامة للطرق
والكبارى
م / احمد عبدالمنعم المنارى

مهندس الاستشارى
مكتب داهيات قنديل
م / خالد فوزى السيد
لورا الهزاع

مهندس الاستشارى (XVZ)
م / محمد صليب خليل
محمد صليب خليل

مهندس الشركة
م / احمد عبدالمنعم خالد
زهره العاطر



قائمة الكميات الواردة بالمستخلص جاري (2)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم 504+180 الى الكم 505+000 بطول 0.82 كيلو متر اتجاه النوبارية

رقم البند و بيانه : (2-2) أعمال توريد وفرش طبقة الاساس من الأحجار الصلبة المترججة (subballast) طبقا للمفاوضه عن شهر فبراير 2023

تنفيذ : شركة كنوز سيناء للمقاولات العامة والتوريدات

الكمية	الابعاد (متر)		الموقع الكيلومترى		بيان الاعمال بالمقايمة
	مساحة المقطع	طول	الى	من	
372.51	4.66	80	504+300	504+220	القطاع الاول
465.63	4.66	100	504+400	504+300	القطاع الثاني
465.63	4.66	100	504+500	504+400	القطاع الثالث
465.63	4.66	100	504+600	504+500	القطاع الرابع
1769.40	اجمالي الكميات خلال فترة المستخلص الحالية (م ³)				
1769.40	الاجمالي الكلي (م ³)				

مهندس الهيئة العامة للطرق
التصاريخ
م / إبراهيم السيد محمد

مهندس الاستشاري
مكتب د.إيهاب قنديل
م / خالد فوزي السيد
كامل

مهندس الاستشاري (xyz)
م / محمد شهاب خليل
محمد شهاب خليل

مهندس الشركة
م / أحمد عبدالعاطي جند
أحمد عبدالعاطي جند



المنطقة الخامسة - (غرب الدلتا)

السيد المهندس / نائب رئيس الهيئة للتنفيذ والمناطق

تحية طيبة .. وبعد،،

بالإحالة إلى مشروع القطار السريع (العين السخنة - 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 العامه والتوريدات	504+180	505+000	13,000,000

برجاء من سيادتكم التفضل بالاحاطه والتوجيه بالازم

وتفضلوا بقبول فائق الاحترام والتقدير،،

رئيس الإدارة المركزية

المنطقة الخامسة - غرب الدلتا

عبد مهندس

"عالي محمد محمود طه"

