

MATERIAL INSPECTION REQUEST



مركز الاستشارات الهندسية
طريق مطار حمد الدولي
(م.م.د.م.د.)

المباني والطرق والكباري
(GARB)



Contractor Company	نشاء للمقاولات العامة		Designer Company																	
Issued by Contractor	Name Eng/ Mahmoud Shaban	Sign [Signature]	Date 30/10/2022	Time 1:40																
Received by ER			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>458</td> <td>EW</td> <td>CS</td> <td>30</td> <td>10</td> <td>2022</td> <td>1</td> <td>40</td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	458	EW	CS	30	10	2022	1	40
C1	C2	C3	DD	MM	YY	HH	MM													
458	EW	CS	30	10	2022	1	40													

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	458+100 to 458+260 (-0.75) 458+040 to 458+160 (-0.5) 458+160 to 458+260 (-0.5) 458+260 to 458+320 (-0.5) 458+260 to 458+320 (-0.25) 458+320 to 458+400 (-0.25) 458+260 to 458+320 (ferma) 458+320 to 458+400 (ferma)
	458+160 to 458+260 (-1.25) 458+260 to 458+320 (-1) 458+320 to 458+400 (-1) 458+260 to 458+320 (-0.75) 458+320 to 458+400 (-0.75) 458+320 to 458+400 (-0.5) 458+040 to 458+260 (-1) 458+040 to 458+100 (-0.75)

MAR Approval No	Date				
Supplier Name					
Test Requirement	Specification				
Reference Photos	Yes attached / No				
Item	Description	Unit	Quantity	Arrival Date	Note
1	Sieve analysis	M ³	10000		
2	Material finer than sieve no ,200				
3	L.L and P.L and Proctor test				
4	Soil classification and CBR				

Comments by:

Asample has been taken form fill material by SEGAC office to CELL Lab and the results founded meet the specificontions and accepted

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	[Signature]	[Signature]	
QA/QC *		[Signature]	
GARB **	m. Hegem	[Signature]	
Comment by ER			
Employers Representative			

* Designer
** Alignment / Bridges: Culvert Only

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa
Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 03
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

Dear Sir,

Attached here with the delivered on 23 / 10 / 2022

Materials test

1. Sieve analysis according to ASTM D-422.
2. Material finer than sieve No. 200 according ASTM D-1140.
3. Liquid limits and plasticity index of soil according to D-4318.
4. Soil classification according to Project Specs.
5. Proctor Test according to D-1557
6. C.B.R

- This sample is classified as (A-1-b) according to Project Specs.

Signature /...
مكتب معامل الاستشارات الهندسية
210-904 - 037
القاهرة - الجيزة - الزمالة - القاهرة

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa
Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 03
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

RESULTS OF SIEVE ANALYSIS According to ASTM D-422.

Sieve Size (mm)	Passing %
50	100
37.5	100
25	98.2
19	95.4
12.50	81.2
9.50	63.3
4.75	54.9
2.36	51.8
2.00	46.6
1.18	40.1
0.600	37.1
0.425	32.4
0.300	27.1
0.150	15.7

Note: The sample was brought by the client to our laboratory at 23/10/2022 and the laboratory is not responsible for the way it is taken

Signature /.....

المعامل الشمالي
للمستشارات الهندسية
3 - El Malek El Afdal Street
Zamalek, Cairo.
Tel. & Fax : 27367231 - 27363093

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 03
Delivery Date : 23 / 10 / 2022
Reporting Date : 30/ 10 / 2022

**MATERIALS FINER THAN 75 μ m (No.200) SIEVE
IN MENERAL AGGREGATE BY WASHING
ASTM D-1140.**

Test	Results (%)
Percentage of material finer than Sieve Size 75 μ m (No.200)	11.7

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الهندسة المدنية - الجيزة - القاهرة
رقم التسجيل الهندسي : 419 - 100 - 100
الرجوع : 100 - 100 - 100

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 03
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RESULTS OF LIQUID LIMIT AND PLASTICITY INDEX
OF SOILS According to D-4318

Test	Results
Liquid Limit %	NP
Plastic Limit %	NP
Plasticity Index %	NP

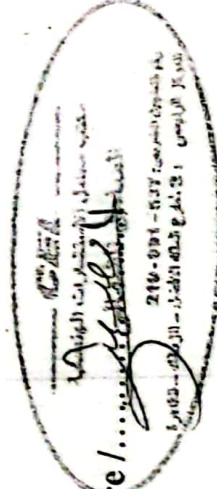
Signature /
مكتب معمل الاستشارات الهندسية
الساحل الدلمى
218 - 001 - 037
شركة الاستشارات الهندسية - القاهرة - مصر

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 03
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

Soil Classification According To Project Specs (Embankment)

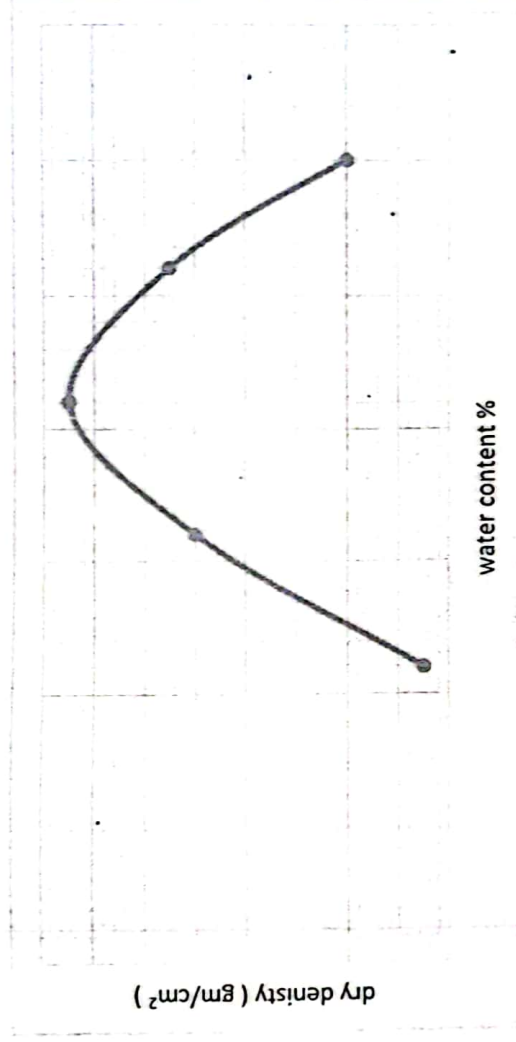
TEST	Results (%)	Limits according Projects Specs
• Group Classification	(A-1-b)	(A-1-a) (A-1-b)
2.00 mm (No.10).	46.6	Max 50 % -----
0.425 mm (No. 40).	32.4	Max 30 % Max 50 %
0.075 mm (No. 200).	11.7	Max 15 % Max 15 %
Characteristics of fraction passing 0.425 mm (No.40)		
Liquid Limit	NP	-----
Plasticity index	NP	Max 6 % Max 6 %

The Test Results is (☒ Comply - ☐ Not Comply) with Project Spec.

Signature /


Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa
Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 03
Delivery Date : 23 / 10 / 2022
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Moisture – Density relation of soil
Test result (Modified proctor test)
ASTM (D 1557)



Max dry density (gm/cm²) : 2.05

Optimum moisture content % : 8.4

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الزمالك - القاهرة
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www.cel-egypt.com

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 03
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Test Results of California Bearing Ratio on Base Materials
ASTM D 1883

penetration		stress on piston (Mpa)	
mm	Inch		
0.64	0.025	3.47	
1.27	0.050	4.00	
1.91	0.075	4.40	
2.54	0.100	5.04	
3.18	0.125	5.72	
3.81	0.150	6.37	
4.45	0.175	7.07	
5.08	0.200	7.39	
5.71	0.225	7.83	
6.35	0.250	7.83	
CBR RESULTS		Stress (Mpa)	CBR %
At 0.1 " (2.54 mm) penetration		St. Value	Sample results 73.1
		6.90	

Notes :

- 1-Attached graph shows penetration resistance versus penetration magnitude.
2- The sample was compacted to dry density of 2.05 (gm /cm3)
At 8.4 % optimum water content.

3-Surcharge load 4.50 Kg.

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مكتب معمل الاستشارات الهندسية
المنطقة الشمالية
3 شارع فيلا فيلا - المنطقة الشمالية - القاهرة
رقم الترخيص رقم 1337 - 2014
الهيئة العامة للغرفة التجارية بالقاهرة

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CEL Consulting Engineering Bureau & Laboratories

مكتب استشارات الهندسة والبحوث

Company Name : Inshaa General Company

Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) - Alamein to Foka

Type of sample : Replacement Soil (Middle & Upper Embankment)

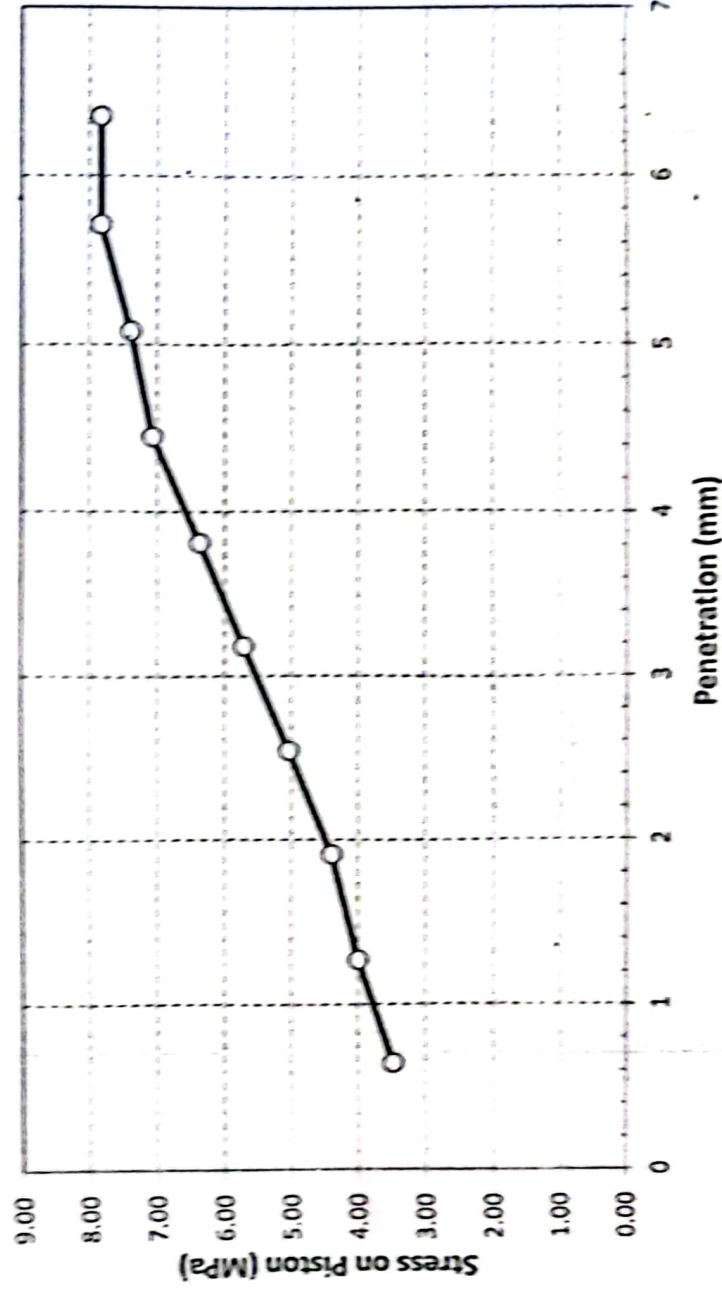
Sample No : 03

Delivery Date : 23 / 10 / 2022

Reporting Date : 30 / 10 / 2022

LOAD PENETRATION CURVE OF CBR TEST

ASTM D 1883



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البريد الإلكتروني: cel@cel-egypt.com
الهاتف: 27367231 - 27367231
الفاكس: 27367231 - 27367231

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القاهرة - القاهرة
تليفون : فاكس : 27367231 - 27367231
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Contractor Company	انشاء للمقاولات العامة				Designer Company							
Issued by Contractor	Name	Sign	Date	Time	C1 458	C2	C3	DD	MM	YY	HH	MM
	Eng/ Mahmoud Shaban	كويتيلا -	30/10/2022	1:40		EW	C5	30	10	2022	1	40
Received by ER			MIR									

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			
CODE - 3	Work Activity Sub Element of Activity		

Fill material results				
Description of Materials	Location to be Used	Fill material results	MAR Approval No	Date
	458+040 to 458+200 (-1.25) 458+200 to 458+400 (-1.25) 458+120 to 458+260 (-1.5) 458+040 to 458+160 (-1.25) 458+260 to 458+320 (-1.25)	457+820 to 457+900 (-0.75) 457+740 to 457+820 (-0.5) 457+820 to 457+900 (-0.5) 457+680 to 457+820 (-0.25) 457+820 to 457+900 (-0.25) 457+600 to 457+680 (ferma) 457+680 to 457+820 (ferma) 457+820 to 457+900 (ferma)		
Supplier Name				
Test Requirement		Specification		Clause
Reference Photos	Yes attached / No	Other		
Item	Description	Unit	Quantity	Arrival Date
1	Sieve analysis	M ³	10000	
2	Material finer than sieve no ,200			
3	L.L and P.L and Proctor test			
4	Soil classification and CBR			
Comments by:				
Asample has been taken form fill material by SEGAC office to CELL Lab and the results founded meet the specifcointcons and accepted				
APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	كويتيلا -	كويتيلا -		
QA/QC *	Ramell	كويتيلا -		
GARB**	m-Neaym	كويتيلا -		
Comment by ER				
Employers Representative				

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مكتب معامل الاستشارات الهندسية - الساحل الشمالي

Company Name : Inshaa General Company

Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) – Alamein to Foka

Type of sample : Replacement Soil (Middle & Upper Embankment)

Sample No : 05

Delivery Date : 23 / 10 / 2022

Reporting Date : 30 / 10 / 2022

Dear Sir,

Attached here with the delivered on 23 / 10 / 2022

Materials test

- 1.Sieve analysis according to ASTM D-422.
- 2.Material finer than sieve No. 200 according ASTM D-1140.
- 3.Liquid limits and plasticity index of soil according to D-4318.
- 4.Soil classification according to Project Specs.
- 5.Proctor Test according to D-1557
- 6.CBR

- This sample is classified as (A-1-a) according to Project Specs.

Signature /

مكتب معامل الاستشارات الهندسية
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رأس النخيل البحرية 249 - 251 - 253
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www.cel-egypt.com

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa
Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 05
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

RESULTS OF SIEVE ANALYSIS According to ASTM D-422.

Sieve Size (mm)	Passing %
50	100
37.5	98.8
25	95.1
19	93.1
12.50	76.7
9.50	67.2
4.75	50.5
2.36	46.4
2.00	41.2
1.18	39.1
0.600	34.5
0.425	28.5
0.300	22.4
0.150	16.2

Note: The sample was brought by the client to our laboratory at 23/10/2022 and the laboratory is not responsible for the way it is taken

Signature /
مكتب معامل الاستشارات الهندسية
الهندسة المدنية والجيوتقنية
249 - 203 - 037
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مكتب معامل الاستشارات الهندسية

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مكتب معامل الاستشارات الهندسية - الساحل الشمالي

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa
Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 05
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

**MATERIALS FINER THAN 75 μ m (No.200) SIEVE
IN MENERAL AGGREGATE BY WASHING
ASTM D-1140.**

Test	Results (%)
Percentage of material finer than Sieve Size 75 μ m (No.200)	11.8

Signature /.....
مكتب معامل الاستشارات الهندسية
البحر الأحمر - القاهرة - الإسكندرية
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www.cel-egypt.com

Company Name : Inshaa General Company
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Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 05
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

**RESULTS OF LIQUID LIMIT AND PLASTICITY INDEX
OF SOILS According to D-4318**

Test	Results
Liquid Limit%	NP
Plastic Limit %	NP
Plasticity Index %	NP

Signature /.....
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البحر الأحمر
216 - 0107 - 0107
23 شارع الملك فيصل - القاهرة - 11564

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مكتب معامل الاستشارات الهندسية - الساحل الشمالي

Company Name : Inshaa General Company

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Type of sample : Replacement Soil (Middle & Upper Embankment)

Sample No : 05

Delivery Date : 23 / 10 / 2022

Reporting Date : 30 / 10 / 2022

Soil Classification According To Project Specs (Embankment)

TEST	Results (%)	Limits according Projects Specs
• Group Classification	(A-1-a)	(A-1-a)
2.00 mm (No.10).	41.2	Max 50 %
0.425 mm (No. 40).	28.5	Max 30 %
0.075 mm (No. 200).	11.8	Max 15 %
Characteristics of fraction passing 0.425 mm (No.40)		
Liquid Limit	NP	-----
Plasticity index	NP	Max 6 %
		Max 6 %

The Test Results is (☒ Comply - ☐ Not Comply) with Project Spec.

Signature /
مكتب معامل الاستشارات الهندسية
المساحة العامة للبناء
3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 - 59 - 60 - 61 - 62 - 63 - 64 - 65 - 66 - 67 - 68 - 69 - 70 - 71 - 72 - 73 - 74 - 75 - 76 - 77 - 78 - 79 - 80 - 81 - 82 - 83 - 84 - 85 - 86 - 87 - 88 - 89 - 90 - 91 - 92 - 93 - 94 - 95 - 96 - 97 - 98 - 99 - 100 - 101 - 102 - 103 - 104 - 105 - 106 - 107 - 108 - 109 - 110 - 111 - 112 - 113 - 114 - 115 - 116 - 117 - 118 - 119 - 120 - 121 - 122 - 123 - 124 - 125 - 126 - 127 - 128 - 129 - 130 - 131 - 132 - 133 - 134 - 135 - 136 - 137 - 138 - 139 - 140 - 141 - 142 - 143 - 144 - 145 - 146 - 147 - 148 - 149 - 150 - 151 - 152 - 153 - 154 - 155 - 156 - 157 - 158 - 159 - 160 - 161 - 162 - 163 - 164 - 165 - 166 - 167 - 168 - 169 - 170 - 171 - 172 - 173 - 174 - 175 - 176 - 177 - 178 - 179 - 180 - 181 - 182 - 183 - 184 - 185 - 186 - 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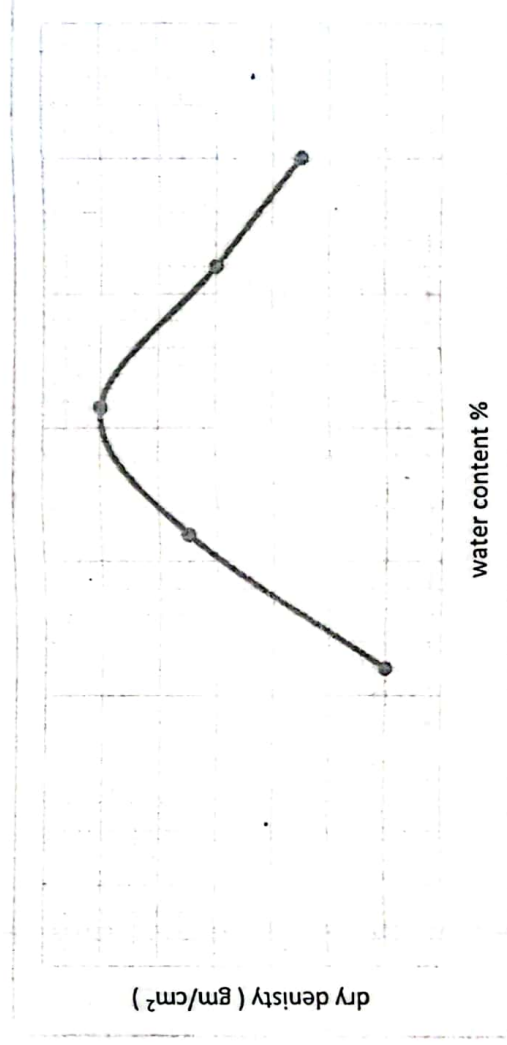
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Company Name	: Inshaa General Company
Project	: Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) – Alamein to Foka
Type of sample	: Replacement Soil (Middle & Upper Embankment)
Sample No	: 05
Delivery Date	: 23 / 10 / 2022
Reporting Date	: 30 / 10 / 2022

Moisture – Density relation of soil
Test result (Modified proctor test)
ASTM (D 1557)

Max dry density (gm/cm²) : 2.04

Optimum moisture content % : 8.3

Signature

رقم الترخيص: 210-071-037
 شارع الملك فيصل - الرياض - 11560
 هاتف: 3730000

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Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 05
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

Test Results of California Bearing Ratio on Base Materials
ASTM D 1883

penetration		stress on piston (Mpa)
mm	Inch	
0.64	0.025	3.47
1.27	0.050	4.00
1.91	0.075	4.40
2.54	0.100	4.91
3.18	0.125	5.66
3.81	0.150	6.12
4.45	0.175	6.78
5.08	0.200	7.24
5.71	0.225	7.83
6.35	0.250	8.10
CBR RESULTS	Stress (Mpa)	
At 0.1 inch (2.54 mm) penetration	St. Value	Sample results
	6.90	

Notes :

- 1-Attached graph shows penetration resistance versus penetration magnitude.
- 2- The sample was compacted to dry density of 2.04 (gm /cm3) At 8.3 % optimum water content.

3-Surcharge load 4.50.Kg

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Company Name : Inshaa General Company

Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) – Alamein to Foka

Type of sample : Replacement Soil (Middle & Upper Embankment)

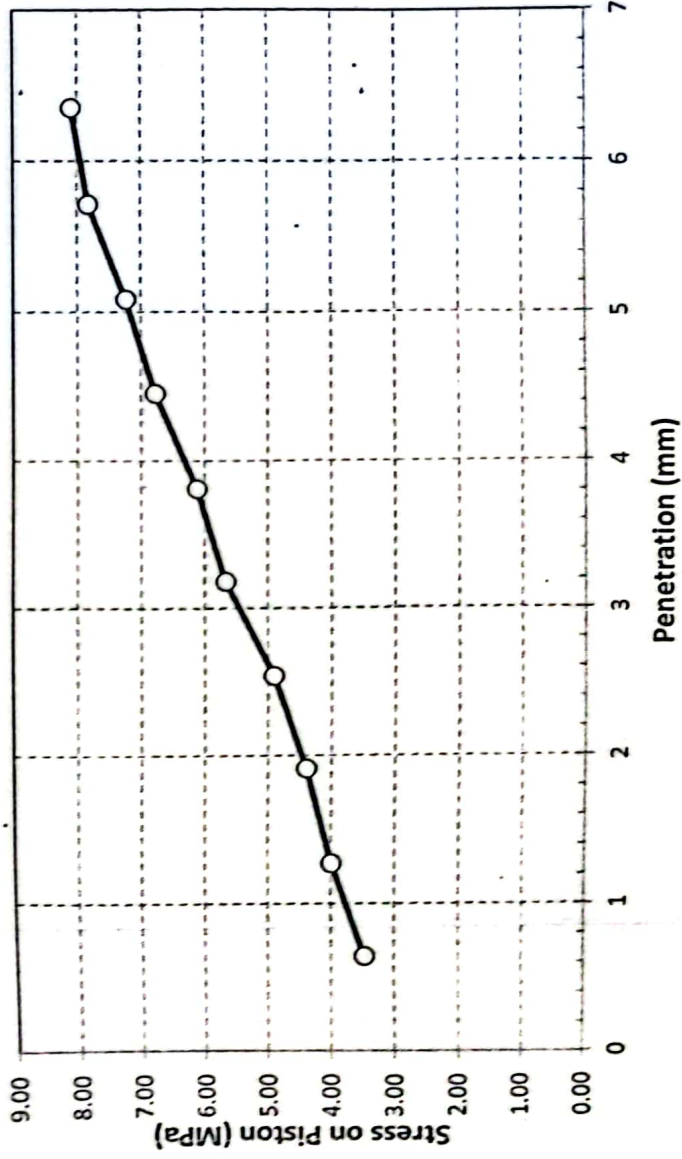
Sample No : 05

Delivery Date : 23 / 10 / 2022

Reporting Date : 30 / 10 / 2022

LOAD PENETRATION CURVE OF CBR TEST

ASTM D 1883



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Contractor Company	انشاء للمقاولات العامة				Designer Company				
Issued by Contractor	Name	Sign	Date	Time					
	Eng/Mahmoud Shaban		30/10/2022	2:10					
Received by ER			MIR						

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

Fill material results			
Description of Materials			
Location to be Used	458+160 to 458+260 (-1.25)		
	458+260 to 458+320 (-1)		
	458+320 to 458+400 (-1)		
	458+260 to 458+320(-0.75)		
	458+320 to 458+400 (-0.75)		
	458+320 to 458+400 (-0.5)		
MAR Approval No	458+040 to 458+260 (-1)		
	458+040 to 458+100 (-0.75)		
Supplier Name			Date
Test Requirement		Specification	Clause
Reference Photos	Yes attached / No	Other	
Item	Description	Unit	Quantity
1	Sieve analysis	M ³	5000
2	Material finer than sieve no ,200		
3	L.L and P.L and Proctor test		
4	Soil classification		

Comments by:			
Asample has been taken form fill material by SEGAC office to CELL Lab and the results founded meet the specifictionts and accepted			
APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	سويديا		30/10/2022
QA/QC *	Ramel		
GARB**	m-Negm		
Comment by ER			
Employers Representative			

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa
Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 04
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

Dear Sir,

Attached here with the delivered on 23 / 10 / 2022

Materials test

- 1.Sieve analysis according to ASTM D-422.
- 2.Material finer than sieve No. 200 according ASTM D-1140.
- 3.Liquid limits and plasticity index of soil according to D-4318.
- 4.Soil classification according to Project Specs.
- 5.Proctor Test according to D-1557

- This sample is classified as (A-1-b) according to Project Specs.

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219 - 002 - 037 - 249
البريد الإلكتروني : 3 شارع الملك المؤسس - القاهرة - 11437

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa
Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 04
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

RESULTS OF SIEVE ANALYSIS According to ASTM D-422.

Sieve Size (mm)	Passing %
50	100
37.5	100
25	98.3
19	97.1
12.50	70.3
9.50	61.3
4.75	58.5
2.36	53.1
2.00	49.6
1.18	40.1
0.600	37.9
0.425	34.1
0.300	23.8
0.150	17.6

Note: The sample was brought by the client to our laboratory at 23/10/2022 and the laboratory is not responsible for the way it is taken

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Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) - Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 04
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

**MATERIALS FINER THAN 75 μ m (No.200) SIEVE
IN MENERAL AGGREGATE BY WASHING
ASTM D-1140.**

Test	Results (%)
Percentage of material finer than Sieve Size 75 μ m (No.200)	12,6

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الاستاذ المساعد الدكتور / ...
2022 - 2023
الشارع ١٠٠٠ - القاهرة

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Test	Results
Liquid Limit%	Np
Plastic Limit %	Np
Plasticity Index %	Np

www.tel-eqad.com
تلفون : ٠٩٢ - ٧٧٦٧٧٧١
الفاكس : ٠٩٢ - ٧٧٦٧٧٧٢
في المملكة الأردنية

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 04
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

Soil Classification According To Project Specs (Embankment)

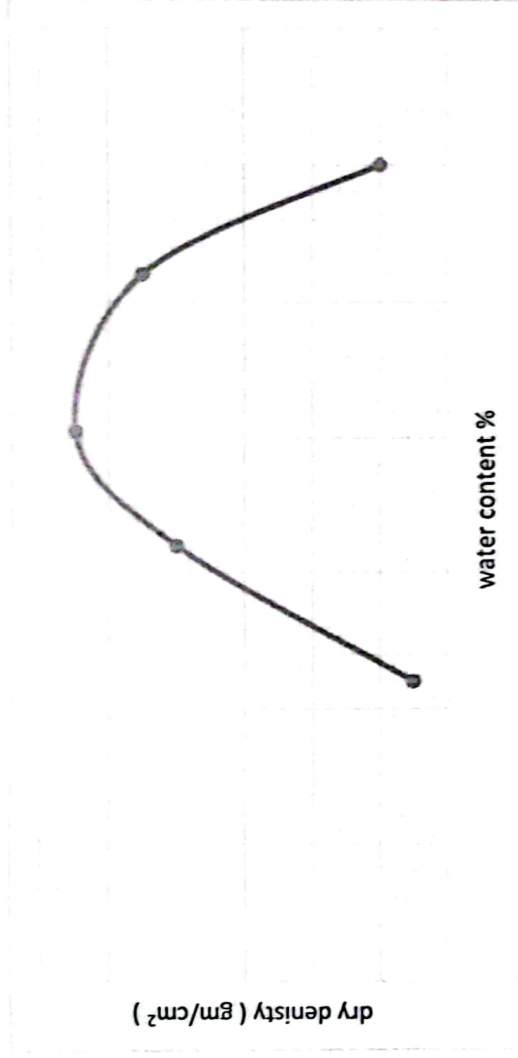
TEST	Results (%)	Limits according Projects Specs
• Group Classification	(A-1-b)	(A-1-a) (A-1-b)
2.00 mm (No.10).	49.6	Max 50 % -----
0.425 mm (No. 40).	34.1	Max 30 % Max 50 %
0.075 mm (No. 200).	12.6	Max 15 % Max 15 %
Characteristics of fraction passing 0.425 mm (No.40)		
Liquid Limit	NP	-----
Plasticity index	NP	Max 6 % Max 6 %

The Test Results is (☒ Comply - ☐ Not Comply) with Project Spec.

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رقم التسجيل المبرمج: 937 - 240
توقيع المهندس: (ش. مالك - الزمالك - القاهرة)

Company Name : Inshaa General Company
Project : Electric Express Train, from Al Ain Sokhna to Marsa
Matrouh Priority Sector (6) – Alamein to Foka
Type of sample : Replacement Soil (Middle & Upper Embankment)
Sample No : 04
Delivery Date : 23 / 10 / 2022
Reporting Date : 30 / 10 / 2022

Moisture – Density relation of soil
Test result (Modified proctor test)
ASTM (D 1557)



Max dry density (gm/cm²) : 2.03

Optimum moisture content % : 8.1

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مكتب معامل الاستشارات الهندسية
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219 - 001 - 037
البريد الإلكتروني : cel@cel-egypt.com



مركز الإستشارات الهندسية
للنقل والطارات والمخارج
(خبراء دوليين)
دكتور/ محمد الجبوري



الهيئة العامة
للمطرق والكباري
(GAHB)



وزارة النقل
MINISTRY OF TRANSPORT

مشروع القطار الكهربائي فائق السرعة قطاع (العلمين - فوكة)				
مرحلة تشكيل الجسم الترابي				
المقاييس التقديرية لياود الاعمال تنفيذ شركة انشاء اتجاه سيدي كوي				
القطاع من المحطة ٤٥٧+٦٠٠ الى ٤٥٨+٨٠٠				
رقم البند	بيان الأعمال	الوحدة	الكمية	الاجمالي
١٠٢	اعمال الردم بالعمر المكعب اعمال توريد وتشغيل اترية صلبة للردم و مطابقة للمواصفات و لتأهيل باستخدام المعدات بسمك لا يزيد عن ٥٠ سم حتى منسوب ٢ متر و بسمك لا يزيد عن ٢٥ سم لاستعمال المنسوب التصميمي لتشكيل الجسر والانتفاف (نسبة دمل كاليورليا لا تقل عن ١٥%) و رشها بالماء الاصولية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول الى الصي كثافة جافة (٩٥% من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات الرضوية التوجيهية والرسومات التفصيلية المعتمدة والبند بجميع مستلزمات طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتنظيمات المهندس المشرف - مسافة النقل ٣ كم يتم احساب علاوة ٤٠ اجنيه لكل ١ كم زيادة - السعر وشمل قيمة المادة المحجزة طبقا لافادة المنطقة بهذا القطاع (٦) من اتم ٣٩٥ الى اتم ٥٠٤	م ^٣	١٥,٤٨٠,٧٢	١,٣١٥,٨٦١
	علاوة مسافة النقل ١٩٥ كم	م ^٣	١٥,٤٨٠,٧٢	٤,١٨٢,٨٩٠
	علاوة تحصيل رسوم انكارة والموازن طبقا لاتاحة الشركة الوطنية	م ^٣	١٥,٤٨٠,٧٢	٢,١٠,٢٤٩
	الاجمالي			٥,٧٠٠,٠٠٠

(خمسة مليون وسبعة مائة الف جنيه فقط لا غير)

مدير عام المشروعات

م/محمد حسني نياض

مدير المشروع الهيئة

م/ابراهيم الحناوي

مدير المشروع الاستشاري

م/مصطفى نجم

مدير المشروع المقبول

م/محمود شعبان

ع/عبدالله

رئيس الادارة المركزية

م/عبدالله غريب الدلتا

الاسكندرية - مرسى مطروح

عميد مهندس / هاني محمد محمود طه



شركة إنشاء المقاولات العامة
أيمن محمد محمود رضوان وشركه
ب.ف.ن. : ٢٥٥٧٢