

محضر استلام موقع

عملية: اعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي
السريع الخط الاول (العين السخنة - العاصمة الادارية - العلمين - مطروح) قطاع
فوكة - مطروح المسافة من الكم 160+557 الى الكم 260+556 بطول
0.100 كم

تنفيذ: مكتب مجدي بخيت متى بنيامين

إشراف : المنطقة الخامسة - منطقة غرب الدلتا

طبقاً للعقد رقم (2025/2024/196) بتاريخ : 2024/8/18

إنه في يوم الاربعاء الموافق 2024/8/19 اجتمع كل من:-

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

وذلك للمرور على مسار العملية المذكورة عاليه لاستلام الموقع :-
وقد تبين أن الموقع خالياً من العوائق الظاهرية ويسمح بالبداية في التنفيذ وبناء عليه يعتبر
تاريخ 2024/8/19 هو تاريخ استلام الموقع وبدء الأعمال بالعملية.
واقفل المحضر على ذلك ووقع الحضور

التوقيعات

3- علي الشربيني

2- محمد حسني فياض

1- محمد حسني فياض

رئيس الإدارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

مهندس /

هاني محمد محمود طه



الشركة العامة
للطرق والجسور

المنطقة الخامسة - (غرب الدلتا)

السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة وبعد،،

بالإحالة إلى مشروع القطار الكهربائي فائق السرعة (فوكة - مطروح) (القطاع السابع)
نتشرف بأن نرفق لسيادتكم طيه المقايضة المعدلة بعد اعتماد لجنة المفاوضة للقطاعات
الآتية:

مسلسل	اسم الشركة	بداية القطاع (كم)	نهاية القطاع (كم)	الطول
1	مكتب مجدي بخيت متى بنيامين	556+160	556+260	0.100 كم

برجاء من سيادتكم التفضل بالأحاطه والتوجيه باللائم

وتفضلوا بقبول فائق الاحترام والتقدير،،

رئيس الإدارة المركزية

منطقة غرب الدلتا

(الاسكندرية/مطروح)

عميد مهندس /

"هاني محمد محمود طه"

مشروع القطار الكهربائي السريع

المقايضة المعدلة لبنود الاعمال بعد التفاوض بتاريخ (٢٠٢٤ / ٦) للقطاع السابع (فوكه - مطروح) - مكتب مجدي بخيت متى بنيامين
القطاع من المحطة ٥٥٦+١٦٠ إلى المحطة ٥٥٦+٢٦٠ بطول ١٠٠ كم مرحلة تشكيل الجسور وطبقات التأسيس وخرسانات الميول

رقم البند	بيان الأعمال	الوحدة	الكمية	الفئة	الاجمالي
٣	اعمال الردم				
١٠٣	بالمتر المكعب اعمال توريد وتشغيل اترية صالحة للردم و مطابقة للمواصفات والتشغيل باستخدام الات التسوية بسمك لا يزيد عن ٥٠ سم حتى منسوب ٢- متر و بسمك لا يزيد عن ٢٥ سم لاستكمال المنسوب التصميمي لتشكيل الجسر والاكتاف (نسبة تحمل كاليفورنيا لا تقل عن ١٥%) و رشها بالمياه الاصولية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول الى اقصى كثافة جافة (95% من الكثافة الجافة القصوى) ويتم التنفيذ طبقاً للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند بجميع مشتملاته طبقاً لاصول الصناعة ومواصفات الهيئة العامة للطرق والكبارى وتعليمات المهندس المشرف. -في حالة طلب جهاز الإشراف زيادة نسبة الدمك عن ٩٥ % بحسب زيادة ١ جنية على زيادة نسبة الدمك لكل ١ % - مسافة النقل حتى ٢ كم ويتم احتساب علاوة ١,٥ جنية لكل ١ كم بالزيادة -السعر يشمل قيمة المادة المحجورية	م³	٢٧١٤٣,٨٠	١٠٨,٠٠	٢٩٣١٥٣٠,٤٠
	علاوة مسافة النقل ٣٢٤ كم	م³	٢٧١٤٣,٨٠	٤٨٣	١٣١١٠٤٥٥,٤٠
	علاوة تحصيل رسوم الكارثة والموازن طبقاً للائحة الشركة الوطنية	م³	٢٧١٤٣,٨٠	١٣	٣٥٢٨٦٩,٤٠
	الاجمالي				١٦,٣٩٤,٨٥٥,٢٠
(ستة عشر مليوناً وثلاثمائة وأربعة وتسعون ألفاً وثمانمائة وخمسة وخمسون جنيهاً وعشرون قرشاً مصرياً فقط لا غير)					

مدير عام المشروعات
م / محمد حسني فياض

مدير المشروع (الهيئة)
م / إبراهيم عبد الله الحناوي

مدير المشروع الاستشاري
م / خالد فوزي

مدير المشروع المقاول
م / فتحى السعيد على

رئيس الإدارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عميد - مهندس /

" هانى محمد محمود طه "

٢٠٢٥
١١/٢٩



قائمة الكميات الواردة بالمستخلص جاري (١)

عملية: اعمال الجسر الترابي والاعمال الصناعية لمسار القطار الكهربائي السريع الخط الاول
(العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح
المسافة من الكم ١٦٠+٥٥٦ الى الكم ٢٦٠+٥٥٦ بطول ٠,١٠٠ كم

(مرحلة تشكيل الجسور)

(المنطقة الخامسة - غرب الدلتا)

رقم البند و بيانه : (٣-١) علاوة مسافة النقل ٣٢٤ كم

تنفيذ : مكتب مجدي بخيت متى بنيامين

مقدار العمل السابق : ٠,٠ م ٣

الكمية	بيان بالكميات
٢٧١٤٣,٨٠٠٠	الكمية طبقاً لقوائم الكميات
٢٧١٤٣,٨٠٠٠	اجمالي الكميات خلال فترة المستخلص الحالية (م ٣)
٢٧١٤٣,٨٠٠٠	الاجمالي الكلي (م ٣)

مهندس الهيئة العامة
للطرق والكباري
م/ إبراهيم عبدالله الحناوي

مهندس الاستشاري
مكتب أ.د/خالد قنديل
م/ خالد فوزي محمد
م.د.الرب

مهندس الاستشاري
مكتب XYZ
م/ محمد شهاب خليل
ع. خليل

مهندس الشركة
م/ فتحى السعيد على
فتحى



قائمة كميات بالمستخلص جارى (١)

عملية: اعمال الجسر الترابي والاعمال الصناعية لمسار القطار الكهربائي السريع الخط الاول
(العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح
المسافة من الكم ١٦٠+٥٥٦ الى الكم ٢٦٠+٥٥٦ بطول ١٠٠,٠ كم

(مرحلة تشكيل الجسور)

(المنطقة الخامسة - غرب الدلتا)

رقم البند و بياناته : (١-٣) رسوم الكارطة والموازن طبقاً للمادة (٣٦) من الشروط العامة والمواصفات طبقاً لما جاء
بالقائمة الموحدة لأسعار الطرق لأعمال طبقة الأتربة

الكارطات والموازن

تنفيذ : مكتب مجدي بخيت متى بنيامين

٣م

مقدار العمل السابق :

الكمية	بيان بالكميات
٢٧١٤٣,٨٠٠٠	الكمية طبقاً لقوائم الكميات
٢٧١٤٣,٨٠٠٠	اجمالي الكميات خلال فترة المستخلص الحالية (٣م)
٢٧١٤٣,٨٠٠٠	الاجمالي الكلي (٣م)

مهندس الهيئة العامة
للطرق والكبارى
م/ إبراهيم عبدالله الحناوى

مهندس الإستشارى
مكتب أ.د/خالد قنديل
م/ خالد فوزى محمد

مهندس الإستشارى
مكتب XYZ
م/ محمد شهاب خليل

مهندس الشركة
م/ فتحى السعيد على
م/ محمد ريان



قائمة الكميات الواردة بالمستخلص جاري (١)

عملية: اعمال الجسر الترابي والاعمال الصناعية لمسار القطار الكهربائي السريع الخط الاول
(العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح
المسافة من الكم ٥٥٦+١٦٠ الى الكم ٥٥٦+٢٦٠ بطول ١٠٠,٠ كم

(مرحلة تشكيل الجسور)
(المنطقة الخامسة - غرب الدلتا)

رقم البند و بيانه : (١-٣) أعمال توريد و تشغيل اترية صالحة للردم مطابقة للمواصفات

تنفيذ : مكتب مجدي بخيت متى بنيامين

مقدار العمل السابق : ٠,٠ م٣

الكمية	الابعاد (متر)		الموقع الكيلومتری		بيان الاعمال
	مساحة المقطع	طول	الى	من	
٢٧١٤٣,٨٠٠٠	٢٧١,٤٣٨٠٠	١٠٠	556+260	556+160	القطاع الأول
٢٧١٤٣,٨٠٠٠	اجمالي الكميات خلال فترة المستخلص الحالية (م٣)				
٢٧١٤٣,٨٠٠٠	الاجمالي الكلي (م٣)				

مهندس الهيئة العامة
للطرق والكبارى
م/ إبراهيم عبدالله الحناوى

مهندس الإستشارى
مكتب أ.د/خالد قنديل
م/ خالد فوزى محمد
مد الرخ

مهندس الإستشارى
مكتب XYZ
م/ محمد شهاب خليل
محمد خليل

مهندس الشركة
م/ فتحى السعيد على
فتحى بيان

 دھول اختیارات و ایجادات القریه
انتماء استرید - فوکر - مطروح

Mohammed Al
32

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد كندل	 SUSTRA SHAKER	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA TO MARSA MATROUH From Station 504+000 To Station 558+177		 الهيئة العامة للقنوات والسكك الحديدية (SUAHL)

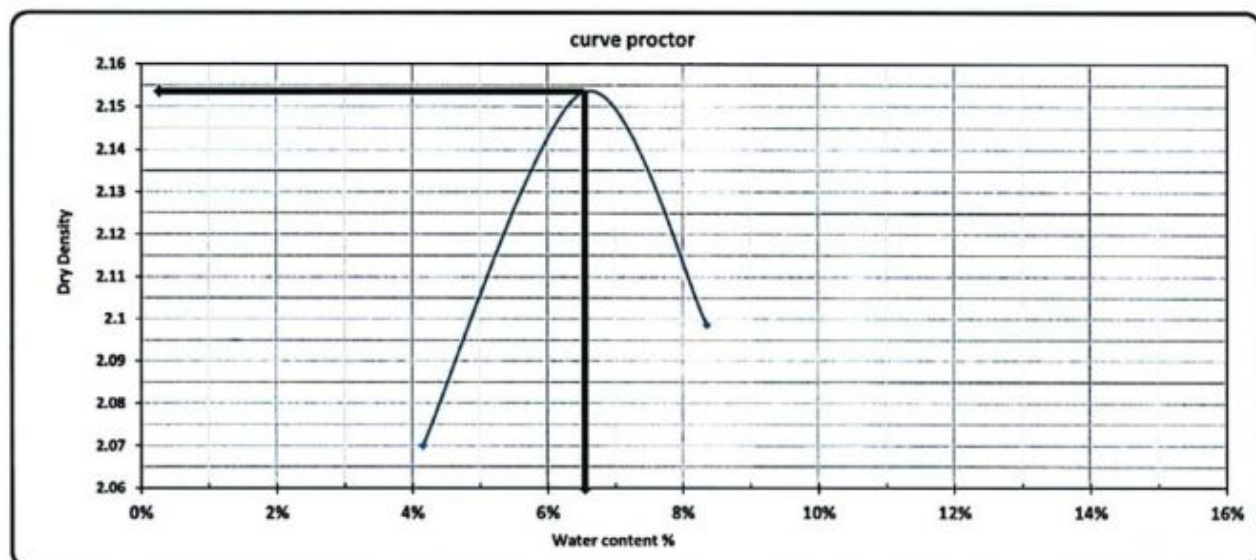
PROCTOR TEST

TESTING DATE:	18/6/2023	code			
LOCATION	k.p(555+500)	MB2-7	ZONE	556+000	556+500
NAME COMPANY	MAGDY BEKHET 2				

Weight of empty mold :	6064.0	MAX Dry Density	2.154
Mold Volume:	2032.0	Water content %	6.6

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10445.0	10725.4	10684.8		
WT. WET SOIL	4381.0	4661.4	4620.8		
Wt. Density	2.156	2.294	2.274		

Tare No.	1	2	3	4	5	6				
Tare wt.	34.08	28.44	22.23	28.98	34.87	22.88				
Wt. Of wet soil & tare	163.8	161.0	135.1	156.0	156.0	160.4				
Wt. Of dry soil & tare	158.4	155.9	128.4	148.0	147.2	149.2				
Wt. Of water	5.4	5.1	6.8	8.0	8.8	11.2				
Wt. Of dry soil	124.3	127.4	106.1	119.0	112.3	126.3				
Water content %	4.3%	4.0%	6.4%	6.7%	7.8%	8.9%				
AV. Water content %	4.2%		6.5%		8.4%					
Dry Density	2.070		2.153		2.099					



Contractor

معمل اختبارات واختبارات التربة
انقطاع السكك الحديدية - فوكا - مطروح
المحجوب

Consultant

(Handwritten signature)



Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date :	19/6/2023	Code	ZONE	556+000	556+500
Location :	555+500	MB2-7			
NAME COMPANY	MAGDY BEKHET 2				

- : Test Results

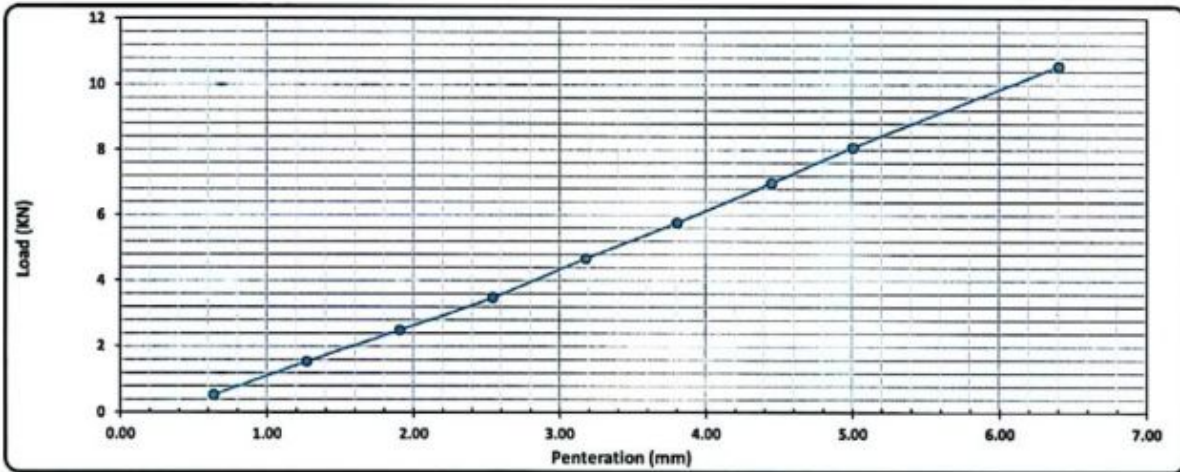
Compaction % for Mold	
Mold No.	55
Mold Vol. (cm ³)	2151
Mold WT. (gm)	15700
Mold WT. + Wet WT. (gm)	20530
Wet WT. (gm)	4830
Wet Density (g/cm ³)	2.245
Dry Density (g/cm ³)	2.106
Proctor Density (g/cm ³)	2.154
Compaction %	98

Moisture Ratio After Compacted Mold	
Tare No.	5
Tare WT. (gm)	31
Tare WT. + Wet WT. (gm)	233
Tare WT. + Dry WT. (gm)	222
Water WT. (gm)	11.0
Dry WT. (gm)	191.0
Moisture Content %	6.6

Swelling	
Mold No.	3
Date	19/6/2023
Initial Height (mm)	3.20
Final Height (mm)	3.20
Difference	0
Sample Height (mm)	120.0
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)	53.00	156.00	253.00	354.00	475.00	587.00	711.00	822.00	1076.00
Load (KN)	0.5	1.5	2.5	3.5	4.7	5.8	7.0	8.1	10.5



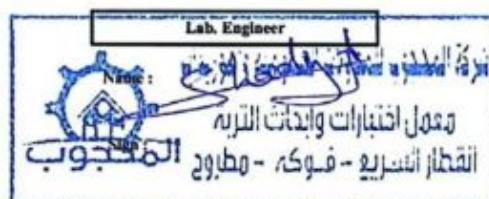
Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	عند نسبة 98 %
2.50	3.47	13.4	26.0%	98	98	26.0%
5.00	8.06	20.0	40.2%			40.3%

Lab. Specialist

Name :

Sign :



Consultant Engineer

Name :

Sign :

Signature of Consultant Engineer: Mohammed Ali

MATERIAL INSPECTION REQUEST



Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar	<i>[Signature]</i>									
Contractor reference	MB2-(7) 19-6-2023										
Received by ER			MIR	C1	C2	C3	DD	MM	YY	HH	MM

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

Description of Materials	Soil (A-1-a)			
Location to be Used	From	To	From	To
	556+080	556+120 (-1.75)	556+080	556+120 (-1)
	556+220	556+360 (-0.25)	556+000	556+080 (-0.0)
	556+000	556+080 (-0.5)	556+080	556+120 (-0.75)
	556+080	556+120 (-1.25)	556+080	556+120 (-0.5)
	556+220	556+360 (-0.0)	556+080	556+120 (-0.25)
	556+000	556+080 (-0.25)	556+080	556+120 (-0.0)

MAR Approval No			Date		
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	SIEVE ANALYSIS	M3	5000		
2	CLSSIFICATION	M3	5000		
3	PROCTOR & O.M.C	M3	5000		
4	L.L & P.L & PI	M3	5000		
5	C.B.R	M3	5000		

Comments by:	Comments by:

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

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar	<i>Refaab</i>									
Contractor reference	MB2-(7) 19-6-2023										
Received by ER			MAR	C1	C2	C3	DD	MM	YY	HH	MM

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

Description of Materials	Soil (A-1-a)		
Location to be Used	K.p (556)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TOSPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 12.0 ATTEBERG LIMIT N.P MOISTURE CONTENT 6.6% MODIFIED PROCTOR 2.16 CBR 40.3%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	<i>Refaab</i>	<i>Refaab</i>		
QA/QC *	<i>Mohammed Al</i>	<i>Milza</i>		
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

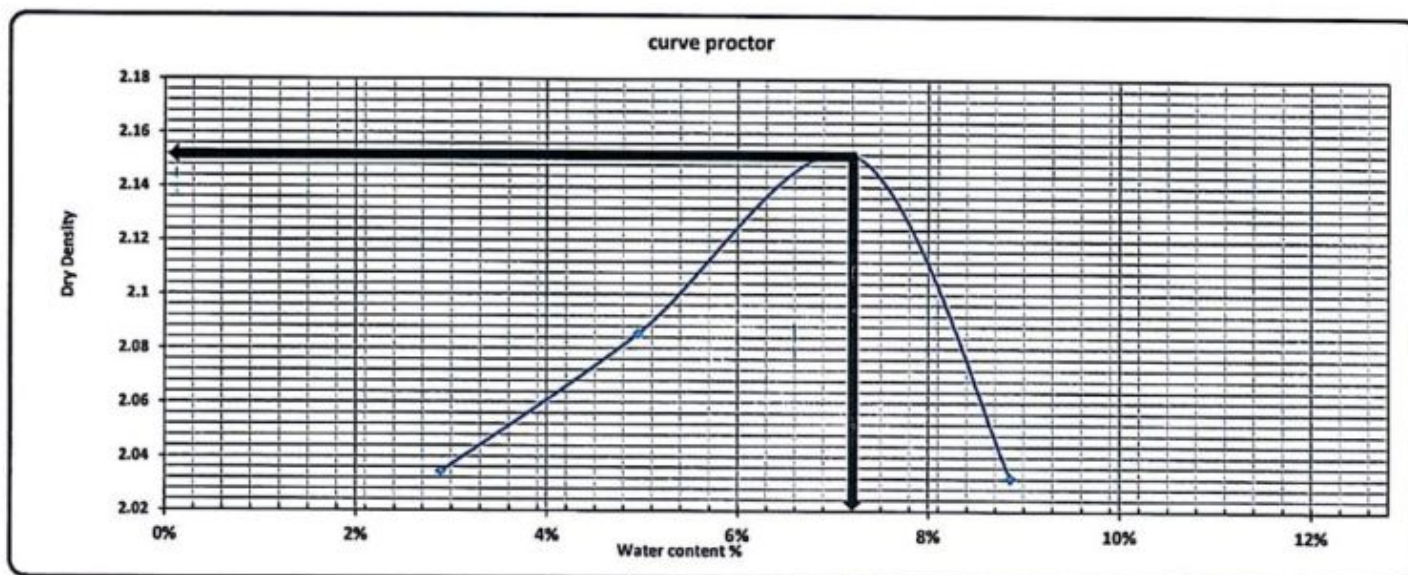
 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي لاد فاد فادي	 Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA TO MARSА MATROUH From Station 504+000 To Station 568+177	 الهيئة العامة للطرق والكباري والنقل البري (GARBLT) الهيئة القومية للإتفاق MATROUH, EL ALAMEIN, EL ALAMEIN - MATROUH
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PROCTOR TEST

TESTING DATE:	25/5/2023	code			
location	K.P555+000	MB2-1	ZONE	556+000	556+500
NAME COMPANY	Magdy Bekheet 2				
	operate by	GOMAA BADR LAB			
Weight of empty mold :	6060.0		MAX Dry Density	2.152	
Mold Volume:	2104.9		Water content %	7.40	

trial no.:	1	2	3	4		
Wt. Of Mold+ wet soil	10474.0	10675.0	10925.0	10725		
WT. WET SOIL	4414.0	4615.0	4865.0	4665.0		
Wt. Density	2.097	2.193	2.311	2.216		

Tare No.	13	13	17	17	7	7	9	9				
Tare wt.	26.4	26.4	26.41	26.41	24.5	24.5	27.36	27.36				
Wt. Of wet soil & tare	136.4	136.4	124.7	124.7	137.5	137.5	126.5	126.5				
Wt. Of dry soil & tare	133.1	133.1	119.87	119.87	129.65	129.65	118.24	118.24				
Wt. Of water	3.3	3.3	4.8	4.8	7.8	7.8	8.2	8.2				
Wt. Of dry soil	106.7	106.7	93.5	93.5	105.2	105.2	90.9	90.9				
Water content %	3.1%	3.1%	5.2%	5.2%	7.4%	7.4%	9.1%	9.1%				
AV. Water content %	3.1%		5.2%		7.4%		9.1%					
Dry Density	2.034		2.085		2.152		2.032					



Contractor

Consultant

المعمل المركزي
 شركة جمعة بدر نوح

Mohammed Al

Electric Express Train - HSR

California Bearing Ratio TEST

TESTING DATE:	25/5/2023	code			
location	K.P555+000	MB2-1	ZONE	556+000	556+500
NAME COMPANY	Magdy Bekheet 2	operate by	GOMAA BADR LAB		

- : Test Results

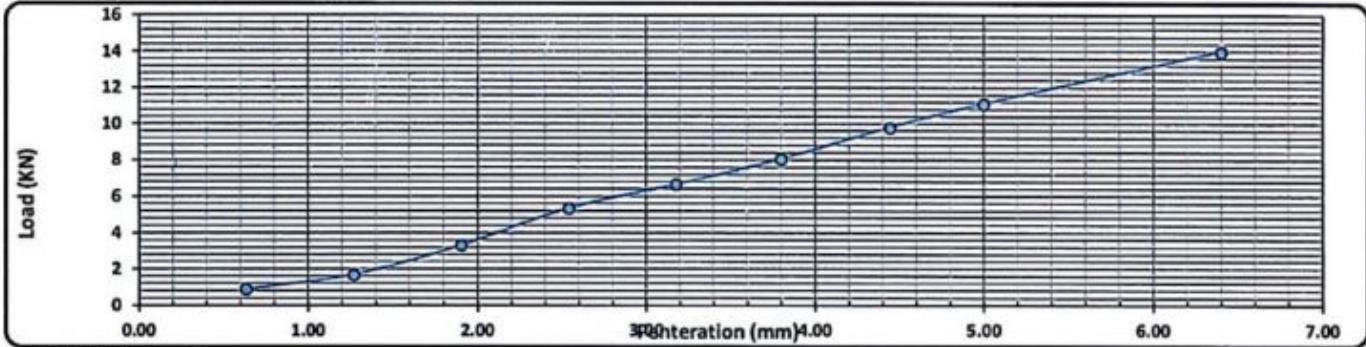
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2177.5
Mold WT. (gm)	16444
Mold WT. + Wet WT. (gm)	21410
Wet WT. (gm)	4966
Wet Density (g/cm ³)	2.281
Dry Density (g/cm ³)	2.130
Proctor Density (g/cm ³)	2.150
Compaction %	99

Moisture Ratio After Compacted Mold	
Tare No.	9
Tare WT. (gm)	26.4
Tare WT. + Wet WT. (gm)	134.6
Tare WT. + Dry WT. (gm)	127.45
Wt. Of water	7.1
Dry WT. (gm)	101.1
Moisture Content %	7.1

Swelling	
Mold No.	2
Date	24h
Initial Height (mm)	1.58
Final Height (mm)	1.47
Difference	0
Sample Height (mm)	180.00
Swelling Ratio %	0%

Loading Reading :

penetration	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (kg)	88.00	168.00	335.00	542.00	677.00	818.00	995.00	1130.00	1425.00
Load (KN)	0.9	1.6	3.3	5.3	6.6	8.0	9.8	11.1	14.0



Calculations :-

Penetration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	5.31	13.4	39.8%			40.2%
5.00	11.07	20.0	55.3%	99	100	55.8%

Lab. Specialist

Name :

Sign :

المعمل المركزي
شركة جمعه بدر نوح

Consultant Engineer

Name : Mohamed A. A.

Sign :

MATERIAL INSPECTION REQUEST



الهيئة القومية للإنفاق



Contractor Company	Magdy Bekhet 2			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar Abd El Hakim										
Contractor reference	MB2-(1) 25-5-2023										
Received by ER			MIR	G1	C2	C3	DD	MM	YY	HH	MM

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

Description of Materials	Soil (A-1-a)		
Location to be Used	From	To	
	556+220	556+360	(-2)
	556+100	556+120	(-4.5)
	556+020	556+060	(-1.75)
	556+220	556+360	(-1.75)
	556+360	556+500	(-1.25)
556+080	556+120	(-4)	

MAR Approval No		Date			
Supplier Name					
Test Requirement		Specification	Clause		
Reference Photos	Yes attached / No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	SIEVE ANALYSIS	M3	5000		
2	CLSSIFICATION	M3	5000		
3	PROCTOR & O.M.C	M3	5000		
4	L.L & P.L & PI	M3	5000		
5	C.B.R	M3	5000		

Comments by:	Comments by:
	تم اعتماد مشروحه ارقام ممتثل لـ 5000م ³ تقريباً Mohammed AL 25-5-2023

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Omar Abd El Hakim			
QA/QC *	Mohammed AL			
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



الهيئة القومية للإزفاق
EGYPTIAN NATIONAL AUTHORITY FOR RAILWAYS



Contractor Company	Magdy Bekhet 2		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng/ Omar Abd El Hakim																			
Contractor reference	MB2-(1) 25-5-2023																			
Received by ER		MAR	<table border="1"> <tr> <td>G1</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></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	G1	C2	C3	DD	MM	YY	HH	MM									
G1	C2	C3	DD	MM	YY	HH	MM													

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

Description of Materials	Soil (A-1-a)		
Location to be Used	K.p (555)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TO SPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 12.8% ATTEBERG LIMIT NP MOISTURE CONTENT 7.4% MODIFIED PROCTOR 2.15 CBR 55.3%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	
		تم اعتماد مشورتي من قبل 25-5-2023 Mohammed AL	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Omar Abd El Hakim			
QA/QC *	Mohammed AL			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only



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



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE	24/5/2023	code			
location	K.P555+000	MB2-1	ZONE	556+000	556+500
NAME COMPANY	Magdy Bekheet 2				
1-visual inspection test	operate by	GOMAA BADER LAB			

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		20500.00		gm		table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS		soil classify	
Mass retained (g)	1022.0	2840.0	3459.0	1210.0	1540.0	775.0	900.0			A-1-a	
Cumulative Retained (g)	1022.0	3862.0	7321.0	8531.0	10071.0	10846.0	11746.0		PRO	2.152	
Cumulative Retained %	5.0	18.8	35.7	41.6	49.1	52.9	57.3		PRO. CORR	2.28	
Cumulative Passing %	95.0	81.2	64.3	58.4	50.9	47.1	42.7		WC	7.4	
									CBR	55.3%	

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	119.00	232.00	350.00					
Cumulative Retained %	23.80	46.40	70.00					
Cumulative Passing %	76.20	53.60	30.00					

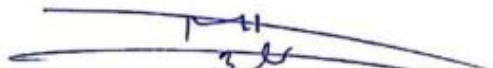
C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	95.0	81.2	64.3	58.4	50.9	47.1	42.7	32.5	22.9	12.8

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

Contractor

Consultant

**المعمل المركزي
شركة جمعة بلار نوح**

Mohammed AL




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



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE	30/5/2023	code	ZONE	556+000	556+500
location	K.P555+000	MB2-3			
NAME COMPANY	Magdy Bekheet 2				
1-visual inspection test	operate by	GOMAA BADER LAB			

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		21220.00		gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify	
Mass retained (g)	1452.0	2953.0	1856.0	2404.0	1054.0	782.0	1424.0		A-1-a	
Cumulative Retained (g)	1452.0	4405.0	6261.0	8665.0	9719.0	10501.0	11925.0		PRO	2.137
Cumulative Retained %	6.8	20.8	29.5	40.8	45.8	49.5	56.2		PRO. CORR	2.16
Cumulative Passing %	93.2	79.2	70.5	59.2	54.2	50.5	43.8		WC	7.4
									CBR	48.6%

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	64.00	189.00	362.00					
Cumulative Retained %	12.80	37.80	72.40					
Cumulative Passing %	87.20	62.20	27.60					

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 %	93.2	79.2	70.5	59.2	54.2	50.5	43.8	38.2	27.2	12.1

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

Contractor

Consultant

المعمل المركزي
شركة جمعة بدران

Mohammed Al



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



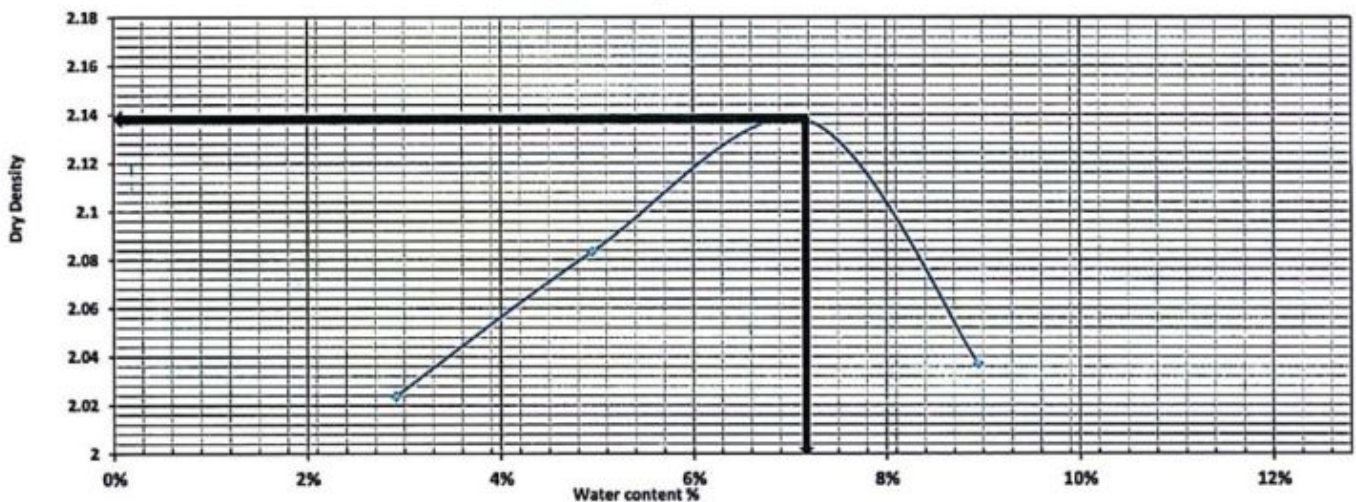
PROCTOR TEST

TESTING DATE:	30/5/2023	code			
location	K.P555+000	MB2-3	ZONE	556+000	556+500
NAME COMPANY	Magdy Bekheet 2				
	operate by	GOMAA BADR LAB			
Weight of empty mold :	6074.0		MAX Dry Density	2.137	
Mold Volume:	2104.9		Water content %	7.40	

trial no :	1	2	3	4		
Wt. Of Mold+ wet soil	10466.0	10685.0	10905.0	10754		
WT. WET SOIL	4392.0	4611.0	4831.0	4680.0		
Wt. Density	2.087	2.191	2.295	2.223		

Tare No.	14	14	16	16	9	9	12	12				
Tare wt.	26.4	26.4	25.45	25.45	25.2	25.2	26.5	26.5				
Wt. Of wet soil & tare	132.4	132.4	123.4	123.4	138.4	138.4	127.4	127.4				
Wt. Of dry soil & tare	129.21	129.21	118.6	118.6	130.62	130.62	118.95	118.95				
Wt. Of water	3.2	3.2	4.8	4.8	7.8	7.8	8.5	8.5				
Wt. Of dry soil	102.8	102.8	93.2	93.2	105.4	105.4	92.5	92.5				
Water content %	3.1%	3.1%	5.2%	5.2%	7.4%	7.4%	9.2%	9.2%				
AV. Water content %	3.1%		5.2%		7.4%		9.2%					
Dry Density	2.024		2.083		2.137		2.037					

curve proctor



Contractor

المهندس محمد فوزي
شركة جمعة بدر شوح

Consultant

Mohammed Al
20

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد قنديل	 Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 504+000 To Station 560+177	

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

TESTING DATE	31/5/2023	code	ZONE	556+000	556+500
location	K.P555+000	MB2-3			
NAME COMPANY	Magdy Bekheet 2				

	operate by	GOMAA BADR LAB
Weight of sample		gm
Weight of saturated -dry surface sample (B)	1989	gm
Weight of saturated sample in water (C)	1172	gm
Weight of dry sample after heating (A)	1925	gm

Results:-

Bulk specific gravity = $A / (B-C)$	2.356	
Apparent specific gravity = $A / (A-C)$	2.557	
Absorbition = $(B-A)/A$	3.345	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000		#VALUE!

Lab. Engineer

Name :

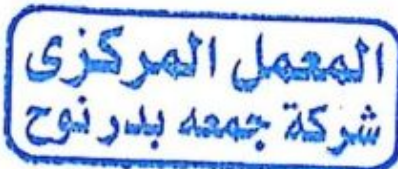
Sign :



Consultant Engineer

Name : Mohamed HSE

Sign :

 K.K. CONSULTING ENGINEERS ك.ك. استشارات هندسية	 SARAF	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	 EGAR الهيئة العامة للغمرات والحدائق (EGAR)	 وزارة النقل

PROCTOR CORRECTION

TESTING DATE	31/5/2023	code	ZONE	556+000	556+500
location	K.P 555+000	MB2-3			
NAME COMPANY	Magdy Bekheet 2				

Pro.	S.g.	C.R 3/4%	Proctor Correlation
2.137	2.35	40.8	2.157

Contractor

المعمل المركزي
شركة جمعة بلار نوح

Consultant

3/3



Electric Express Train - HSR



California Bearing Ratio TEST

TESTING DATE:	31/5/2023	code			
location	K.P555+000	MB2-3	ZONE	556+000	556+500
NAME COMPANY	Magdy Bekheet 2	operate by	GOMAA BADR LAB		

- : Test Results

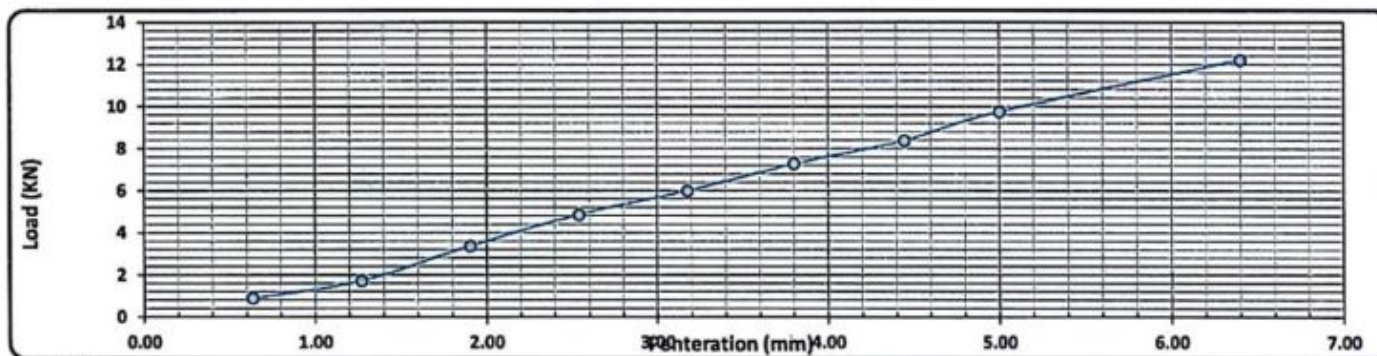
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2177.5
Mold WT. (gm)	16444
Mold WT. + Wet WT. (gm)	21385
Wet WT. (gm)	4941
Wet Density (g/cm ³)	2.269
Dry Density (g/cm ³)	2.112
Proctor Density (g/cm ³)	2.137
Compaction %	99

Mositure Ratio After Compacted Mold	
Tare No.	10
Tare WT. (gm)	27.4
Tare WT. +Wet WT. (gm)	136.5
Tare WT. +Dry WT. (gm)	128.95
Wt. Of water	7.6
Dry WT. (gm)	101.6
Moisture Content %	7.4

Swelling	
Mold No.	2
Date	24h
Initial Height (mm)	1.57
Final Height (mm)	1.48
Difference	0
Sample Height (mm)	180.00
Swelling Ratio %	0%

Loading Reading :

penetration	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (kg)	90.00	174.00	342.00	495.00	610.00	741.00	854.00	994.00	1245.00
Load (KN)	0.9	1.7	3.4	4.9	6.0	7.3	8.4	9.7	12.2



Calculations : -

Penetration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % عند نسبة 100
2.50	4.85	13.4	36.3%	99	100	36.8%
5.00	9.74	20.0	48.6%			49.2%

Lab. Specialist

Name :

Sign :

المعمل المركزي
شركة جمعة بلار نوح

Consultant Engineer

Name : Mohamed AL

Sign :

3/1

MATERIAL INSPECTION REQUEST



Contractor Company	Magdy Bekhet 2			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar Abd El Hakim										
Contractor reference	MB2-(3) 31-5-2023										
Received by ER			MIR	C1	C2	C3	DD	MM	YY	HH	MM

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

Description of Materials	Soil (A-1-a)		
Location to be Used	From	To	
	556+020	556+080	(-1.5)
	556+220	556+360	(-1.5)
	556+360	556+500	(-1)
	556+080	556+120	(-3.5)
	556+000	556+080	(-1.25)
	556+220	556+360	(-1.25)
	556+360	556+500	(-0.75)

MAR Approval No		Date			
Supplier Name					
Test Requirement		Specification	Clause		
Reference Photos	Yes attached / No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	SIEVE ANALYSIS	M3	5000		
2	CLASSIFICATION	M3	5000		
3	PROCTOR & O.M.C	M3	5000		
4	L.L & P.L & PI	M3	5000		
5	C.B.R	M3	5000		

Comments by:	Comments by:
	تم اعتماد مشروعه / رم مثل 5000م ³ تقريباً Mohammed Ali 31-5-2023

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Omar Abd El Hakim			
QA/QC *	Mohammed Ali			
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



Contractor Company	Magdy Bekhet 2		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng/ Omar Abd El Hakim																			
Contractor reference	MB2-(3) 31-5-2023																			
Received by ER		MAR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM									
C1	C2	C3	DD	MM	YY	HH	MM													

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

Description of Materials	Soil (A-1-a)		
Location to be Used	K.p (555)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TOSPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 12.1% ATTEBERG LIMIT NP MOISTURE CONTENT 7.4% MODIFIED PROCTOR 2.137 CBR 48.6%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Omar Abd El Hakim			
QA/QC *	Mohammed Al			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

MATERIAL APPROVAL REQUEST



الهيئة القومية للإنشاءات
EGYPTIAN NATIONAL AUTHORITY FOR CONSTRUCTION



Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar	<i>[Signature]</i>									
Contractor reference	MB2-(4) 12-4-2023										
Received by ER			MAR	C1	C2	C3	DD	MM	YY	HH	MM

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

Description of Materials	Soil (A-1-a)		
Location to be Used	K.p (556)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TOSPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 14.1 ATTEBERG LIMIT N.P MOISTURE CONTENT 7.6% MODIFIED PROCTOR 2.165 CBR 52.1%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	<i>Refaat</i>	<i>[Signature]</i>		
QA/QC *	<i>Ahmed Abo Zeid</i>	<i>[Signature]</i>		
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ل.د. خالد فنديل	 SVS TRA SHAKER	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARS MATROUH From Station 504+000 To Station 568+177	 الهيئة العامة للتخطيط (GPM)
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PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE	7/6/2023	code	ZONE	556+000	556+500
location	K.P555+000	MB2-4			
NAME COMPANY	Magdy Bekheet 2				
1-visual inspection test	operate by	GOMAA BADER LAB	Quantity	2500	

2-Gradient test

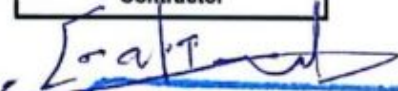
A-gradation of bulk materials				SAMPLE WEIGHT [g]		20000.00		gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify	
Mass retained (g)	469.0	2046.0	2893.0	1322.0	2463.0	1634.0	1683.0		A-1-a	
Cumulative Retained (g)	469.0	2515.0	5408.0	6730.0	9193.0	10827.0	12510.0		PRO	2.155
Cumulative Retained %	2.3	12.6	27.0	33.7	46.0	54.1	62.6		PRO. CORR	2.165
Cumulative Passing %	97.7	87.4	73.0	66.4	54.0	45.9	37.5		WC	7.6
									CBR	52.1%

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	77.00	227.00	311.80					
Cumulative Retained %	15.40	45.40	62.36					
Cumulative Passing %	84.60	54.60	37.64					

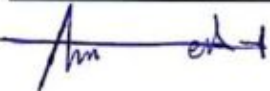
C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	97.7	87.4	73.0	66.4	54.0	45.9	37.5	31.7	20.4	14.1

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

Contractor



Consultant



المعمل المركزي
شركة جمعه بدر نوح



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
للمرور والكباري والبحل
(GARBLT)



الهيئة القومية للإنفاق
القومية للإنفاق



PROCTOR TEST

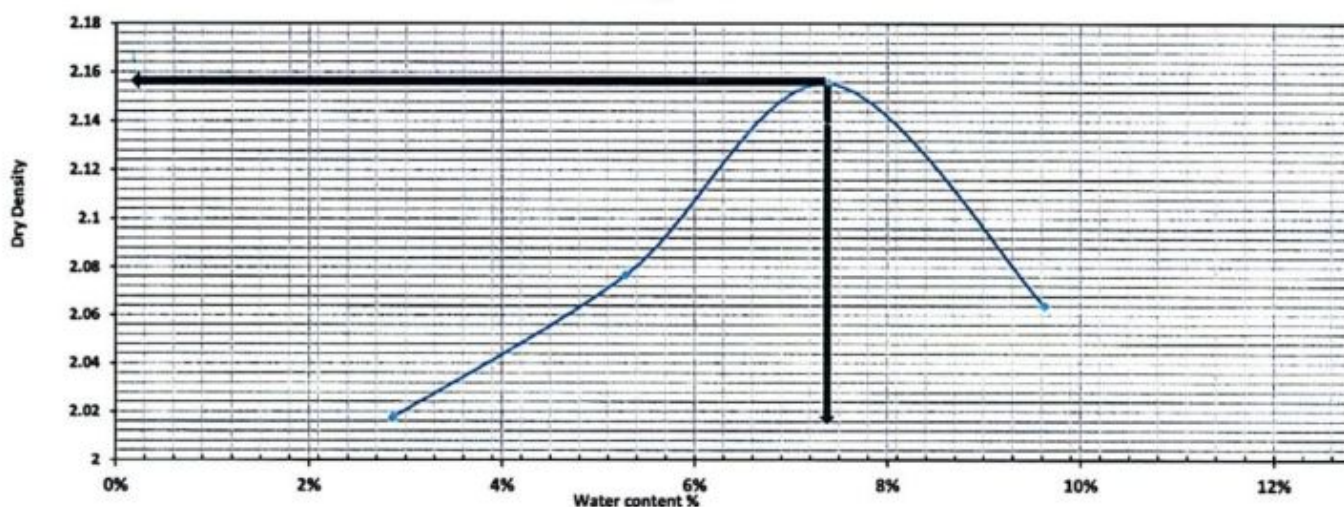
TESTING DATE:	7/6/2023	code			
location	K.P555+000	MB2-4	ZONE	556+000	556+500
NAME COMPANY	Magdy Bekheet 2				

	operate by	GOMAA BADR LAB		
Weight of empty mold :	6089.0		MAX Dry Density	2.155
Mold Volume:	2104.9		Water content %	7.60

trial no :	1	2	3	4		
Wt. Of Mold+ wet soil	10466.0	10700.0	10970.0	10860		
WT. WET SOIL	4377.0	4611.0	4881.0	4771.0		
Wt. Density	2.079	2.191	2.319	2.267		

Tare No.	5	5	7	7	11	11	13	13				
Tare wt.	26.06	26.06	25.37	25.37	24.41	24.41	26.71	26.71				
Wt. Of wet soil & tare	133.4	133.4	141.0	141.0	138.8	138.8	132.7	132.7				
Wt. Of dry soil & tare	130.2	130.2	135	135	130.68	130.68	123.16	123.16				
Wt. Of water	3.2	3.2	6.0	6.0	8.1	8.1	9.5	9.5				
Wt. Of dry soil	104.1	104.1	109.6	109.6	106.3	106.3	96.5	96.5				
Water content %	3.1%	3.1%	5.5%	5.5%	7.6%	7.6%	9.8%	9.8%				
AV. Water content %	3.1%		5.5%		7.6%		9.8%					
Dry Density	2.017		2.077		2.155		2.064					

curve proctor



Contractor

Consultant

المعمل المركزي
شركة جمعه بادر نوح

المهندس

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد هديل	 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 558+177	 الهيئة العامة للنقل وزارة النقل SAB

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

TESTING DATE	8/6/2023	code	ZONE	556+000	556+500
location	K.P555+000	MB2-4			
NAME COMPANY	Magdy Bekheet 2				
	operate by	GOMAA BADR LAB			
Weight of sample		2000	gm		
Weight of saturated -dry surface sample (B)		2076	gm		
Weight of saturated sample in water (C)		1238	gm		
Weight of dry sample after heating (A)		1984	gm		

Results:-

Bulk specific gravity = $A / (B-C)$	2.368	
Apparent specific gravity = $A / (A-C)$	2.660	
Absorbion = $(B-A)/A$	4.637	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000		#VALUE!

Lab. Engineer

Name :

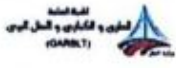
Sign :

Consultant Engineer

Name :

Sign :

**المعمل المركزي
شركة جمعه بلارنوح**

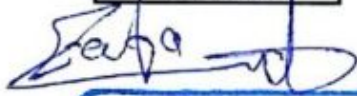
 	Electric Express Train - HSR		 
	From El Ain El Sokhna City To El Alamein - MATROUH		
	Section - 7 From FOKA TO MARS MATROUH		
From Station 504+000 To Station 568+177			

PROCTOR CORRECTION

TESTING DATE	8/6/2023	code			
location	K.P 555+000	MB2-4	ZONE	556+000	556+500
NAME COMPANY	Magdy Bekheet 2				

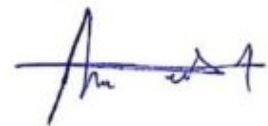
Pro.	S.g.	C.R 3/4%	Proctor Correlation
2.155	2.37	33.7	2.165

Contractor



المعمل المركزي
شركة جمعة بدر نوح

Consultant





Electric Express Train - HSR



California Bearing Ratio TEST

TESTING DATE:	10/6/2023	code			
location	K.P555+000	MB2-4	ZONE	556+000	556+500
NAME COMPANY	Magdy Bekheet 2				
	operate by	GOMAA BADR LAB			

- : Test Results

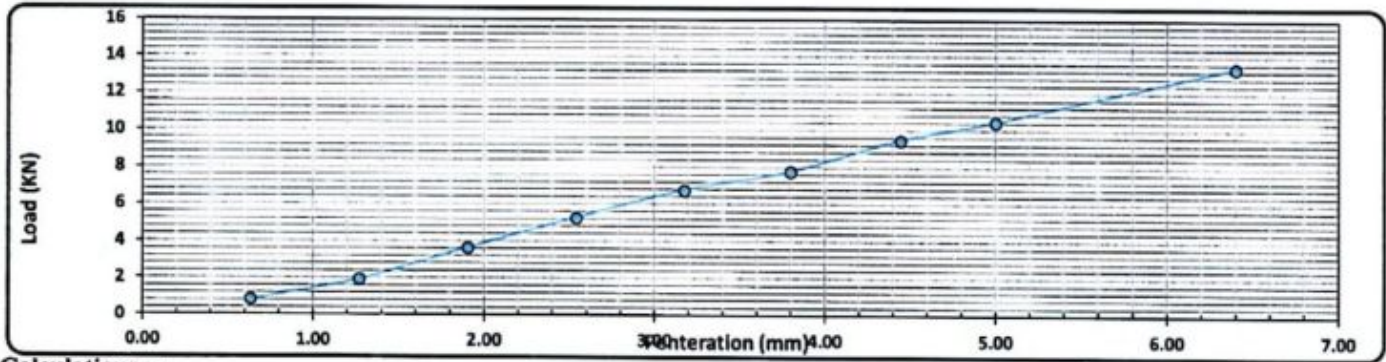
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2177.5
Mold WT. (gm)	16444
Mold WT. + Wet WT. (gm)	21416
Wet WT. (gm)	4972
Wet Density (g/cm ³)	2.283
Dry Density (g/cm ³)	2.129
Proctor Density (g/cm ³)	2.155
Compaction %	99

Moisture Ratio After Compacted Mold	
Tare No.	11
Tare WT. (gm)	26
Tare WT. + Wet WT. (gm)	163.15
Tare WT. + Dry WT. (gm)	153.9
Wt. Of water	9.3
Dry WT. (gm)	127.9
Moisture Content %	7.2

Swelling	
Mold No.	2
Date	24h
Initial Height (mm)	1.82
Final Height (mm)	1.87
Difference	0
Sample Height (mm)	180.00
Swelling Ratio %	0%

Loading Reading :

penetration	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (kg)	82.00	193.00	368.00	534.00	687.00	791.00	964.00	1064.00	1364.00
Load (KN)	0.8	1.9	3.6	5.2	6.7	7.8	9.4	10.4	13.4



Calculations :-

Penetration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	5.23	13.4	39.2%			عند نسبة 100 %
5.00	10.43	20.0	52.1%	99	100	39.7%
						52.7%

Lab. Specialist

Name :

Sign :

Consultant Engineer

Name :

Sign :

المعمل المركزي
شركة جمعه بدر نوح

MATERIAL INSPECTION REQUEST



الهيئة القومية للإنفاق



Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar	<i>[Signature]</i>									
Contractor refrence	MB2-(4) 10-6-2023										
Received by ER			MIR	C1	C2	C3	DD	MM	YY	HH	MM

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

Description of Materials	Soil (A-1-a)		
Location to be Used	From	To	
	556+360	556+500	(-0.5)
	556+220	556+360	(-1)
	556+080	556+120	(-3)

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

Item	Description	Unit	Quantity	Arrival Date	Note
1	SIEVE ANALYSIS	M3	2500		
2	CLSSIFICATION	M3	2500		
3	PROCTOR & O.M.C	M3	2500		
4	L.L & P.L & PI	M3	2500		
5	C.B.R	M3	2500		

Comments by:	Comments by:

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

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL INSPECTION REQUEST



الهيئة القومية للإنفاق



لجنة المبدأ
لنظم والكبارى والمنطقى
(GARB, I)



Contractor Company	Magdy Bekhet 2		Designer Company	
Issued by Contractor	Name	Sign	Date	Time
	Eng/ Omar Abd El Hakim			
Contractor reference	MB2-(5) 14-6-2023			
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	Work Activity		
CODE - 3	Sub Element of Activity		

Description of Materials	Soil (A-1-a)		
	From	To	
	556+360	556+500	(-0.25)
	556+360	556+500	(Ferma)
	556+080	556+120	(-2.5)
	556+080	556+120	(-2)
Location to be Used	556+220	556+360	(-0.75)

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

Item	Description	Unit	Quantity	Arrival Date	Note
1	SIEVE ANALYSIS	M3	3500		
2	CLSSIFICATION	M3	3500		
3	PROCTOR & O.M.C	M3	3500		
4	L.L & P.L & PI	M3	3500		
5	C.B.R	M3	3500		

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Omar Abd El Hakim			
QA/QC *	Ahmed Abozaid			
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



الهيئة القومية للإنفاق



المشروعات
للمواصلات
(GARBT)



Contractor Company	Magdy Bekhet 2		Designer Company	
Issued by Contractor	Name	Sign	Date	Time
	Eng/ Omar Abd El Hakim			
Contractor reference	MB2-(5) 14-6-2023			
Received by ER			MAR	

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

Description of Materials	Soil (A-1-a)		
Location to be Used	K.p (555)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TOSPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 13.2% ATTEBERG LIMIT NP MOISTURE CONTENT 6.5% MODIFIED PROCTOR 2.16 CBR 44.1%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Omar Abd El Hakim			
QA/QC *	Ahmed Abozeid			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only



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



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	13/6/2023	code	ZONE	556+000	556+500
LOCATION	K.P(555+500)	MB2-5			
NAME COMPANY	MAGDY BEKHET 2		QUANTITY	3500 M3	

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		28533.00	gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	634.0	499.0	3865.0	3359.0	2124.0	2431.0	3212.0		A-1-a
Cumulative Retained (g)	634.0	1133.0	4998.0	8357.0	10481.0	12912.0	16124.0	PRO	2.160
Cumulative Retained %	2.2	4.0	17.5	29.3	36.7	45.3	56.5	WC	6.5%
Cumulative Passing %	97.8	96.0	82.5	70.7	63.3	54.7	43.5	CBR	44.1%

B-soft material gradation				WT.OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	98.00	187.00	348.00				
Cumulative Retained %	19.60	37.40	69.60				
Cumulative Passing %	80.40	62.60	30.40				

C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	97.8	96.0	82.5	70.7	63.3	54.7	43.5	35.0	27.2	13.2

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

Contractor

Consultant





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



PROCTOR TEST

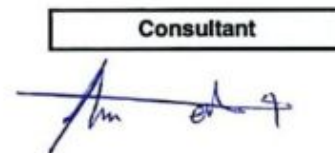
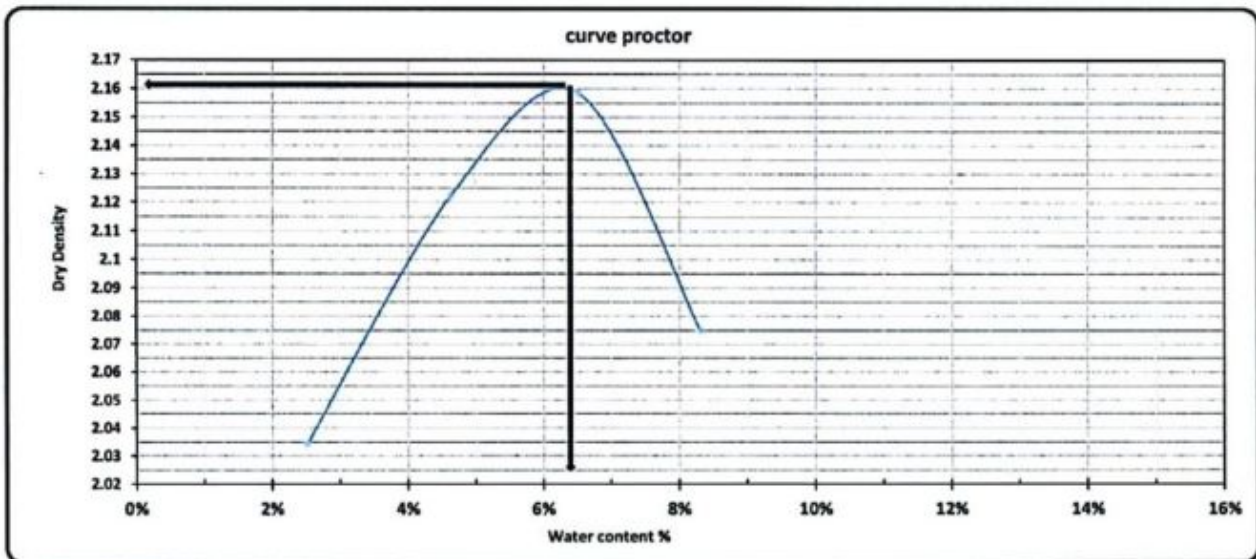
TESTING DATE:	14/8/2023	code	ZONE	556+000	556+500
LOCATION	K.P(555+500)	MB2-5	QUANTITY	3500 M3	
NAME COMPANY	MAGDY BEKHET 2				

Weight of empty mold :	6077.0
Mold Volume:	2032.0

MAX Dry Density	2.16
Water content %	6.5

trial no :	1	2	3	4	5
Wt. Of Mold+ wet soil	10313.7	10589.0	10748.0	10643	
WT. WET SOIL	4236.7	4512.0	4671.0	4565.9	
Wt. Density	2.085	2.220	2.299	2.247	

Tare No.	2	2	5	6	20	12	7	6	15	9
Tare wt.	32	30.57	22.82	23.23	21.39	22.79	34.18	35.26		
Wt. Of wet soil & tare	161.0	191.9	118.8	139.1	114.5	121.0	160.2	154.4		
Wt. Of dry soil & tare	158.3	187.3	114.7	133.6	109.0	115.2	150.4	145.3		
Wt. Of water	2.7	4.6	4.1	5.5	5.5	5.7	9.8	9.0		
Wt. Of dry soil	126.3	156.7	91.9	110.4	87.6	92.4	116.2	110.1		
Water content %	2.1%	2.9%	4.5%	4.8%	6.8%	6.2%	8.4%	8.2%		
AV. Water content %	2.5%		4.6%		6.5%		8.3%			
Dry Density	2.034		2.122		2.158		2.075			



	Electric Express Train - HSR	
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California Bearing Ratio TEST

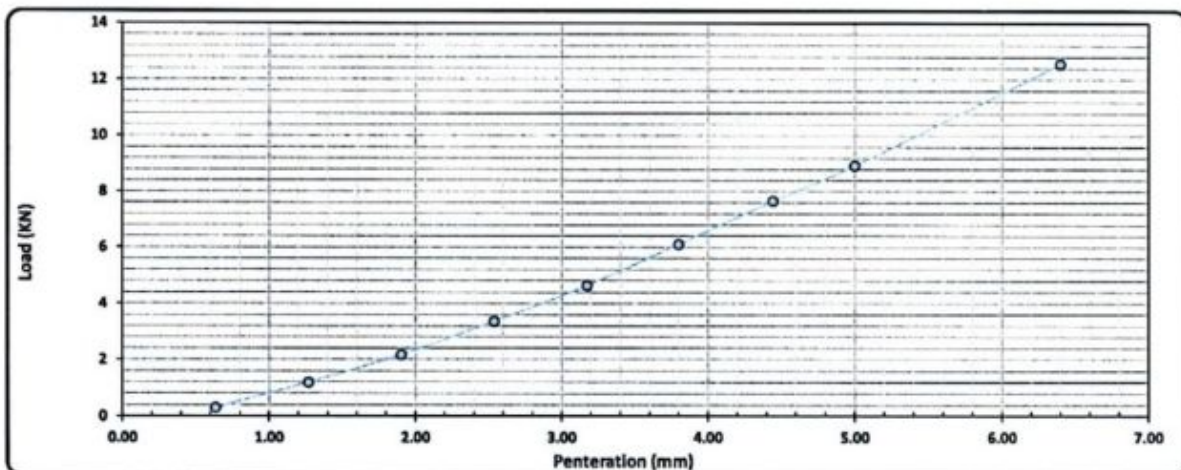
Testing Date :	2023\6\14	Code	ZONE	556+000	556+500
Location :	(555+500)K.P	MB2-5			
NAME COMPANY	MAGDY BEKHET 2				
			QUANTITY	3500.00	

:- Test Results

Compaction % for Mold		Moisture Ratio After Compacted Mold		Swelling	
Mold No.	55	Tare No.	5	Mold No.	5
Mold Vol. (cm ³)	2151	Tare WT. (gm)	31	Date	15/5/2023
Mold WT. (gm)	15700	Tare WT. + Wet WT. (gm)	233	Initial Height (mm)	5.80
Mold WT. + Wet WT. (gm)	20550	Tare WT. + Dry WT. (gm)	222	Final Height (mm)	5.80
Wet WT. (gm)	4850	Water WT. (gm)	11.0	Difference	0
Wet Density (g/cm ³)	2.255	Dry WT. (gm)	191.0	Sample Height (mm)	120.00
Dry Density (g/cm ³)	2.117	Moisture Content %	6.5	Swelling Ratio %	0%
Proctor Density (g/cm ³)	2.158				
Compaction %	98				

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)	30.00	121.00	221.00	343.00	473.00	623.00	781.00	911.00	1281.00
Load (KN)	0.3	1.2	2.2	3.4	4.6	6.1	7.7	8.9	12.6



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	عند نسبة 98 %
2.50	3.36	13.4	25.2%	99	98	24.9%
5.00	8.93	20.0	44.6%			44.1%

Lab. Specialist Name : Sign :	Lab. Engineer 	Consultant Engineer Name :  Sign :
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Plate Load Test Results

Layer: -1.5
Station: 556+220 TO 556+360
Date: 4/6/20233

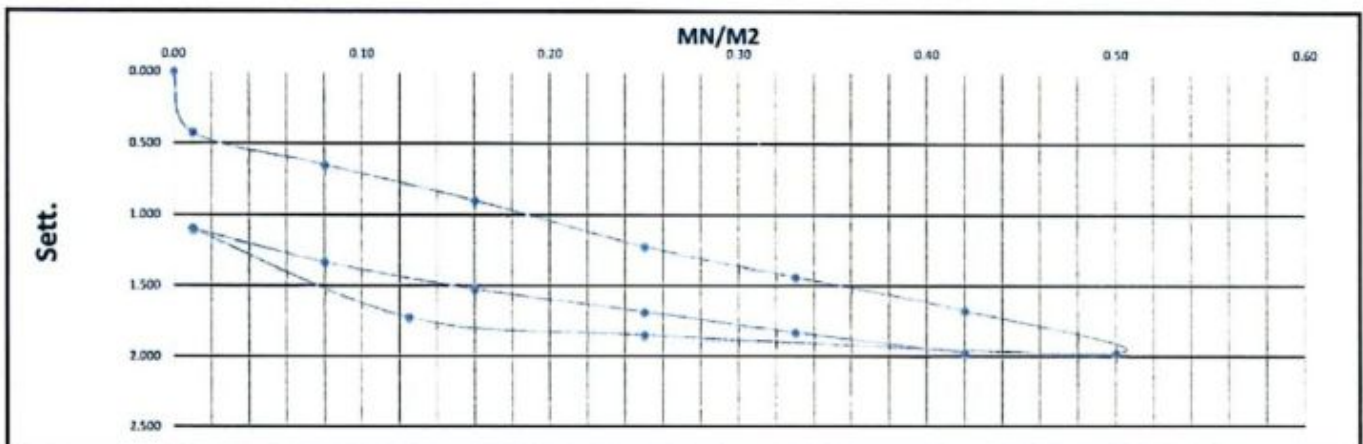
COMPANY	magdy bekhet
SAMPLE LOCATION	556+320

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	16.90	15.80		0.000	0.000		0.000
1.000	2.4	0.707	0.01	16.45	15.40		0.450	0.400		0.425
2.000	18.8	5.652	0.08	16.50	14.90		0.400	0.900		0.650
0.080	37.7	11.304	0.16	16.10	14.80		0.800	1.000		0.900
4.000	58.9	17.663	0.25	15.50	14.75		1.400	1.050		1.225
5.000	77.7	23.315	0.33	15.42	14.40		1.480	1.400		1.440
6.000	98.9	29.673	0.42	15.30	14.05		1.600	1.750		1.675
7.000	117.8	35.325	0.50	15.15	13.60		1.750	2.200		1.975
8.000	58.9	17.663	0.25	15.25	13.75		1.650	2.050		1.850
9.000	29.4	8.831	0.12	15.35	13.90		1.550	1.900		1.725
9.000	2.4	0.707	0.01	15.80	14.70		1.100	1.100		1.100
10.000	2.4	0.707	0.01	15.80	14.70		1.100	1.100		1.100
11.000	18.8	5.652	0.08	15.63	14.40		1.270	1.400		1.335
12.000	37.7	11.304	0.16	15.43	14.22		1.470	1.580		1.525
13.000	58.9	17.663	0.25	15.33	14.00		1.570	1.800		1.685
14.000	77.7	23.315	0.33	15.20	13.84		1.700	1.960		1.830
15.000	98.9	29.673	0.42	15.05	13.70		1.850	2.100		1.975

		s	ΔS	Δσ
0.7 σ ₁	0.35	1.4125	0.54375	0.2
0.3 σ ₁	0.15	0.86875		
0.7 σ ₂	0.35	1.86222	0.2922	0.2
0.3 σ ₂	0.15	1.57002		
D (mm)	300			
Ev ₁	82.76			
Ev ₂	154.00			
Area (Sq.m)	0.07065			

Ev2/Ev1	1.86		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Name :

Sign :

Consultant Engineer

Name :

Sign :



MATERIAL INSPECTION REQUEST	   			

Contractor Company	Magdy Bekhet			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/ Omar	<i>[Signature]</i>	18-6-2023								
Contractor reference	MB2-(6) 18-6-2023										
Received by ER			MIR	C1	C2	C3	DD	MM	YY	HH	MM

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

Description of Materials	Soil (A-1-a)		
Location to be Used	From	To	
	556+000	556+080	(-0.75)
	556+220	556+360	(-0.5)
	556+080	556+120	(-1.5)

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

Item	Description	Unit	Quantity	Arrival Date	Note
1	SIEVE ANALYSIS	M3	1500		
2	CLSSIFICATION	M3	1500		
3	PROCTOR & O.M.C	M3	1500		
4	L.L & P.L & PI	M3	1500		
5	C.B.R	M3	1500		

Comments by:	Comments by: <i>[Signature]</i>
	<i>1500 م3</i>

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

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST



الهيئة القومية للإنفاق



الهيئة العامة
للتنظيم والإدارة
(GARBI)



Contractor Company	Magdy Bekhet		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng/ Omar	<i>Rehab</i>																		
Contractor reference	MB2-(6) 18-6-2023																			
Received by ER			MAR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM								
C1	C2	C3	DD	MM	YY	HH	MM													

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

Description of Materials	Soil (A-1-a)		
Location to be Used	K.p (556)		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TOSPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 13.3 ATTEBERG LIMIT N.P MOISTURE CONTENT 7.35% MODIFIED PROCTOR 2.18 CBR 44.1%
Test Samples Results	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	<i>Rehab</i>	<i>Rehab</i>		
QA/QC *	<i>Mohammed Al</i>	<i>M</i>		
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only



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



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	13/6/2023	code	ZONE	556+000	556+500
LOCATION	k.p 555+500	MB2-6			
NAME COMPANY	magdy bekhet 2		QUANTITY	M3 1500	

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		23461.00		gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify	
Mass retained (g)	0.0	855.0	3297.0	4364.3	2411.0	1338.0	169.0		A-1-a	
Cumulative Retained (g)	0.0	855.0	4152.0	8516.3	10927.3	12265.3	12434.3		PRO	2.180
Cumulative Retained %	0.0	3.6	17.7	36.3	46.6	52.3	53.0		WC	7.35%
Cumulative Passing %	100.0	96.4	82.3	63.7	53.4	47.7	47.0		CBR	44.1%

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	85.00	215.00	359.00					
Cumulative Retained %	17.00	43.00	71.80					
Cumulative Passing %	83.00	57.00	28.20					

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	96.4	82.3	63.7	53.4	47.7	47.0	39.0	26.8	13.3

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

Contractor

Consultant



19/8/2023

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

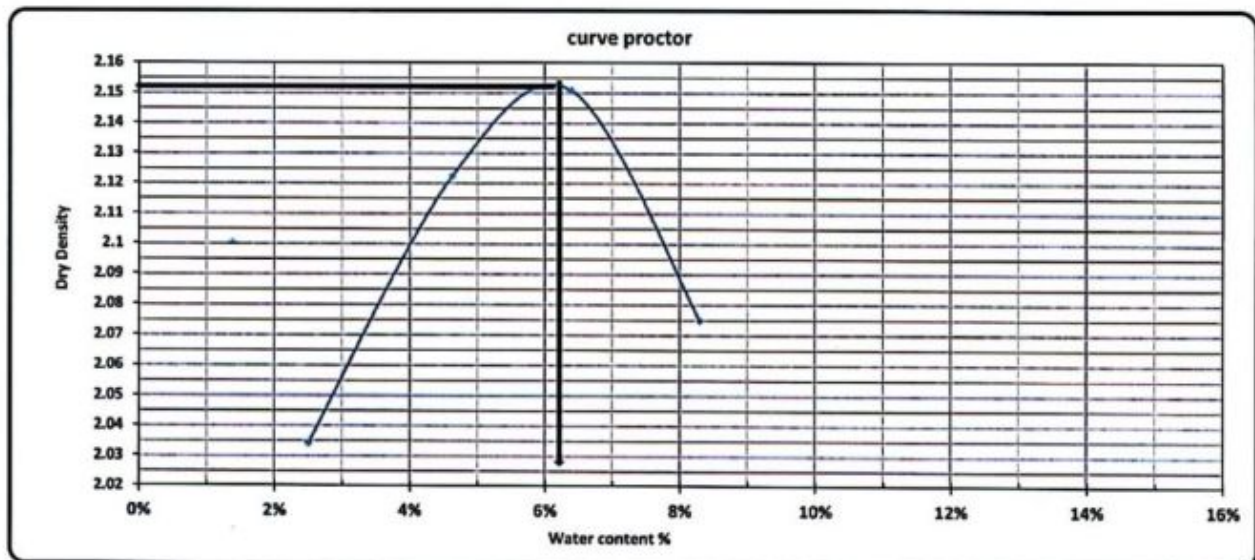
PROCTOR TEST

TESTING DATE:	14/6/2023	code	ZONE	556+000	556+500
LOCATION	k.p 555+500	MB2-6			
NAME COMPANY	magdy bekhlet 2		QUANTITY	M3 1500	

Weight of empty mold :	6077.0	MAX Dry Density	2.152
Mold Volume:	2032.0	Water content %	6.4

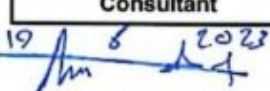
trial no :	1	2	3	4	5
Wt. Of Mold+ wet soil	10313.7	10589.0	10727.0	10643	
WT. WET SOIL	4236.7	4512.0	4650.0	4565.9	
Wt. Density	2.085	2.220	2.288	2.247	

Tare No.	2	2	5	6	20	12	7	6	15	9
Tare wt.	32	30.57	22.82	23.23	21.39	22.79	34.18	35.26		
Wt. Of wet soil & tare	161.0	191.9	118.8	139.1	114.5	121.0	160.2	154.4		
Wt. Of dry soil & tare	158.3	187.3	114.7	133.6	109.0	115.2	150.4	145.3		
Wt. Of water	2.7	4.6	4.1	5.5	5.5	5.7	9.8	9.0		
Wt. Of dry soil	126.3	156.7	91.9	110.4	87.6	92.4	116.2	110.1		
Water content %	2.1%	2.9%	4.5%	4.8%	6.6%	6.2%	8.4%	8.2%		
AV. Water content %	2.5%		4.6%		6.4%		8.3%			
Dry Density	2.034		2.122		2.151		2.075			



Contractor

 محمد ابراهيم عبد الله
 المقاول الرئيسي - فوكا - مطروح
 2023

Consultant

 19/6/2023



Correction of Unit Weight and Water Content For Soils Containing oversize Particles
(ASTM D-4718)

Dry Unit Weight of Fine Fraction (Y_{DF}) (gm/cm ³)	2.150	Company	MAGDY BEKHET 2
Optimum Moisture Content (O.M.C) (%)	6.50	Date of Sample	15/5/2023
Specific Gravity of over Size Fraction (G_M)	2.267	Project	Express Train Project
Specific Gravity of Water (Y_W)	0.980	Sector	Foka - Matrouh

Sample Data	UNIT	VALUE		
Total Weight of Wet Sample	gm	10000		
Weight of Wet oversize Fraction (Retained 3/4)	gm	3630		
Weight of Wet Fine Fraction (Passing 3/4)	gm	6370		
Weight of Dry oversize Fraction (M_{DC})	gm	3405		
Weight of Dry Fine Fraction (M_{DF})	gm	5910		
Total Weight of Dry Sample	gm	9315		
Water Content of oversize Fraction (W_C)	%	0.07		
Water Content of Fine Fraction (W_F)	%	0.08		
Percent of oversize Fraction By Mass (P_C)	%	36.55		
Percent of Fine Fraction By Mass (P_F)	%	63.45		

Calculations of Corrected Water for oversize Fraction & Finer Fraction (W_T) :-

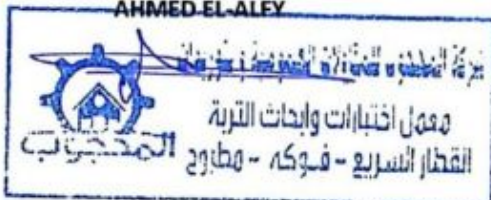
Corrected Water for oversize Fraction & Finer Fraction (C_W)	$W_F P_F + W_C P_C$	7.35
Specific Gravity of over Size Fraction (G_M)	2.267	
Specific Gravity of Fine Fraction (Y_{DF})	2.150	gm/cm ³
Specific Gravity of Water (Y_W)	0.980	

Calculations of Correctd Unit Dry Weight of the Total Material (combined finer and oversize fractions) (Y_{DT}):-

Corrected Dry Unit Weight of Total Material (Y_{DT})	$(Y_{DF} * G_M * Y_W)$	2.18
	$((Y_{DF} * P_C) + (G_M * Y_W * P_F))$	
Corrected Maximum Dry Density (M.D.D)	2.18	gm/cm ³
Corrected Optimum Moisture Content (O.M.C)	7.35	%

QC Manager

AHMED EL-ALEY



19/5/2023

California Bearing Ratio TEST

Testing Date :	18-6-2023	Code	ZONE	556+000	556+500
Location :	(551+000)k.p	MB2-6			
NAME COMPANY	MAGDY BEKHET 2				

- : Test Results

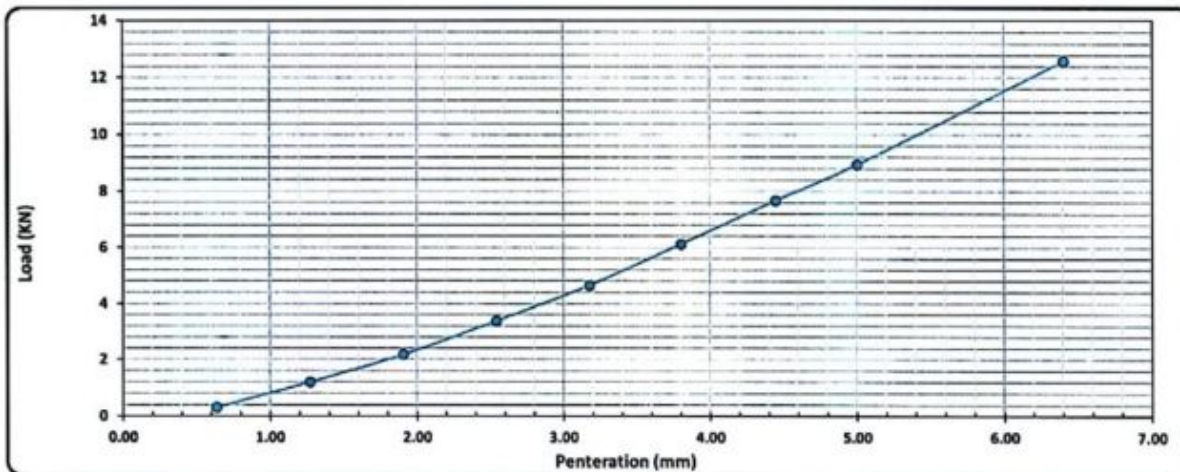
Compaction % for Mold	
Mold No.	55
Mold Vol. (cm ³)	2151
Mold WT. (gm)	15700
Mold WT. + Wet WT. (gm)	20550
Wet WT. (gm)	4850
Wet Density (g/cm ³)	2.255
Dry Density (g/cm ³)	2.119
Proctor Density (g/cm ³)	2.152
Compaction %	98

Moisture Ratio After Compacted Mold	
Tare No.	5
Tare WT. (gm)	31
Tare WT. + Wet WT. (gm)	233
Tare WT. + Dry WT. (gm)	222
Water WT. (gm)	11.0
Dry WT. (gm)	191.0
Moisture Content %	6.4

Swelling	
Mold No.	5
Date	18/6/2023
Initial Height (mm)	5.80
Final Height (mm)	5.80
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)	30.00	121.00	221.00	343.00	473.00	623.00	781.00	911.00	1281.00
Load (KN)	0.3	1.2	2.2	3.4	4.6	6.1	7.7	8.9	12.6



Calculations :-

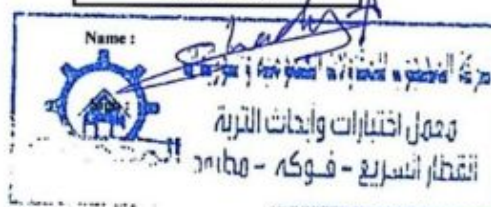
Penetration (mm)	Load (Kn)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % عند نسبة 98
2.50	3.36	13.4	25.2%	99	98	24.9%
5.00	8.93	20.0	44.6%			44.1%

Lab. Specialist

Name :

Sign :

Lab. Engineer



Consultant Engineer

Name : 17/6/23

Sign :

	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	
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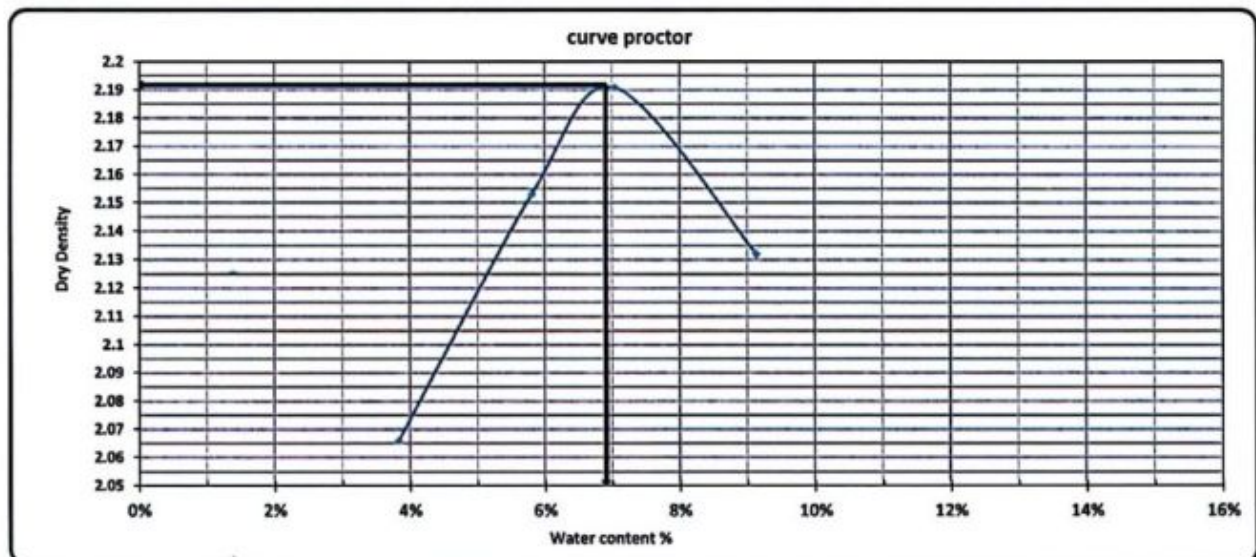
PROCTOR TEST

TESTING DATE:	24/7/2023	code	Station	556+000	556+500
LOCATION	K.P(556+000)	MB2-P1	Material	PERPARED	
NAME COMPANY	magdy bekhet		layer thickness	25 cm	

Weight of empty mold :	6078.0	MAX Dry Density	2.191
Mold Volume:	2032.0	Water content %	6.9%

trial no :	1	2	3	4	5
Wt. Of Mold+ wet soil	10436.6	10706.9	10843.0	10806.0	
WT. WET SOIL	4358.6	4628.9	4765.0	4728.0	
Wt. Density	2.145	2.278	2.345	2.327	

Tare No.	1	2	3	4	5	6	7	8		
Tare wt.	30.6	34.21	34.18	23.97	32.69	33.14	33.01	34.1		
Wt. Of wet soil & tare	176.4	171.1	151.7	145.1	176.5	161.2	167.5	163.9		
Wt. Of dry soil & tare	171.4	165.8	145.3	138.3	166.7	153.1	156.3	153.0		
Wt. Of water	5.1	5.4	6.3	6.8	9.8	8.2	11.2	10.9		
Wt. Of dry soil	140.8	131.5	111.1	114.4	134.0	119.9	123.3	118.9		
Water content %	3.6%	4.1%	5.7%	5.9%	7.3%	6.8%	9.1%	9.2%		
AV. Water content %	3.8%		5.8%		7.0%		9.1%			
Dry Density	2.066		2.153		2.191		2.132			



Consultant

25/7/23



Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date :	2023/7/25	Code	FROM STA :	556+000	556+500
Location :	K.P(556+000)	MB2-P1	: Material	PERPARED	
NAME COMPANY	magdy bekhiat		: Layer Thickness	25 cm	

- : Test Results

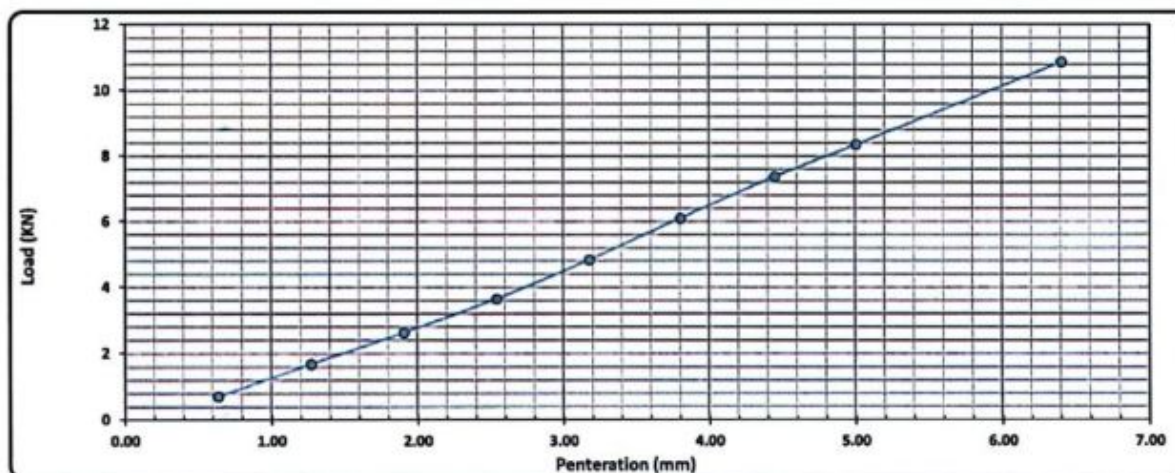
Compaction % for Mold	
Mold No.	55
Mold Vol. (cm ³)	2151
Mold WT. (gm)	7810
Mold WT. + Wet WT. (gm)	12850
Wet WT. (gm)	5040
Wet Density (g/cm ³)	2.343
Dry Density (g/cm ³)	2.194
Proctor Density (g/cm ³)	2.191
Compaction %	100

Moisture Ratio After Compacted Mold	
Tare No.	5
Tare WT. (gm)	34
Tare WT. +Wet WT. (gm)	160
Tare WT. +Dry WT. (gm)	152
Water WT. (gm)	8.0
Dry WT. (gm)	118.0
Moisture Content %	6.8

Swelling	
Mold No.	3
Date	2023/7/25
Initial Height (mm)	2.20
Final Height (mm)	2.20
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)	71.00	170.00	266.00	370.00	491.00	620.00	750.00	850.00	1107.00
Load (KN)	0.7	1.7	2.6	3.6	4.8	6.1	7.4	8.3	10.8



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kn)	(lb)	(%)	(%)	(%)	عند نسبة 98 %
2.50	3.63	13.4	27.2%	100	98	26.6%
5.00	8.33	20.0	41.6%			40.7%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :

EL Mahgoub company

Express Electric Trian project



Absorbtion & Aggregate specific gravity
AASHTO-T85

Testing date :-	23/7/2023
location :-	K.P(556+000)
material :-	PREPARED SUBGRADE

Weight of sample		gm
Weight of saturated -dry surface sample (B)		gm
Weight of saturated sample in water (C)		gm
Weight of dry sample afre heating (A)		gm

Results:-

Bulj spicific gravity = $A / (B-C)$		
Apparent spicific gravity = $A / (A-C)$		
Asorbtion = $(B-A)/A$		

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before	Weight of sample before test (gm)	Abrasion ratio (%)
5000	3342	33.16

Lab Engineer/



25/7/2023

MATERIAL INSPECTION REQUEST



Contractor Company	MAGDI -BKHEIT 2		Designer Company	
Issued by Contractor	Name	Sign	Date	Time
	Eng/ OMAR	<i>Refaat</i>		
Contractor reference	MB2 - P1 25-7-2023			
Received by ER			MIR	

CODE-1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp 556 Note For Kilometer point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

Description of Materials	REPLACEMENT FILL MATERIAL RESULTS					
Location to be Used	556+000	556+120	(+0.25)			
	556+000	556+120	(+0.50)			
	556+220	556+360	(+0.25)			
	556+220	556+360	(+0.50)			
	556+360	556+500	(+0.25)			
	556+360	556+500	(+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	M3	5000			
2	Classification	M3	5000			
3	Proctor & O.m.c	M3	5000			
4	L.L & P.L & PI	M3	5000			
5	C.B.R	M3	5000			
Comments by:			Comments by:			

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	<i>Refaat</i>	<i>Refaat</i>		
QA/QC *	<i>Ahmed Abo Zaid</i>	<i>Amr</i>	<i>15/7/2023</i>	
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST						
	ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي للبنية التحتية		وزارة النقل المجلس الأعلى للطرق والكباري		SVSTRA SHAKER	

Contractor Company	MAGDI – BKHEIT 2		Designer Company	k.k							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Omar	Refaat									
Contractor Reference	MB2 – P1 25-7-2023										
Received by ER			MAR	C1	C2	C3	DD	MM	YY	HH	MM

CODE-1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp 556 Note For Kilometer point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

Description of Materials			
Location to be Used			
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TO SPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 10 ATTEBERG LIMIT NP MOISTURE CONTENT 6.9 % MODIFIED PROCTOR 2.191 CBR 40.7%
Reference Photos	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Refaat	Refaat		
QA/QC *	Ahmed Abo Zaid	Amr	25/7/2023	
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

معمل اختبارات وابحات القرية
القطار السريع - فوكا - مطروح

EL Mahgoub company

Express Electric Trian project

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

Testing date :-	10/8/2023
location :-	555+500
material :-	sub ballast

Weight of sample	2000	gm
Weight of saturated -dry surface sample (B)	2030.70	gm
Weight of saturated sample in water (C)	1243.90	gm
Weight of dry sample aftr heating (A)	1988.00	gm

Results:-

Bulj spicific gravity = $A / (B-C)$	2.527	
Apparent spicific gravity = $A / (A-C)$	2.672	
Asorbtion = $(B-A)/A$	2.148	

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before	Weight of sample before test (gm)	Abrasion ratio (%)
5000	3610	27.80

Lab Engineer/



Youssef Ragab
12/8/2023

EL Mahgoub company

Express Electric Trian project

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

Testing date :-	10/8/2023
location :-	558+300
material :-	sub ballast

Weight of sample	2000	gm
Weight of saturated -dry surface sample (B)	2029.20	gm
Weight of saturated sample in water (C)	1249.80	gm
Weight of dry sample aftr heating (A)	1993.00	gm

Results:-

Bulj spicific gravity = $A / (B-C)$	2.557	
Apparent spicific gravity = $A / (A-C)$	2.682	
Asorbtlon = $(B-A)/A$	1.816	

Los Anglos abrasion AASHTO-T96

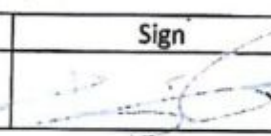
Results:-

Weight of sample before	Weight of sample before test (gm)	Abrasion ratio (%)
5000	3677	26.46

Lab Engineer/

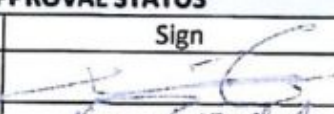
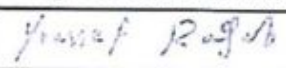
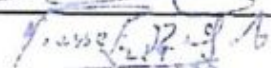
Youssef
12/8/2023

MATERIAL INSPECTION REQUEST				

Contractor Company	Magdy Bekhit		Designer Company	K.K
Issued by Contractor	Name	Sign	Date	Time
	Eng. Omar Abd El-Hakem			
Contractor reference	MB-SB-1 12-08-2023			
Received by ER			MIR	

CODE - 1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp 558 Note For Kilometer point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

Description of Materials	Replacement Fill Material Results				
Location to be Used	556+000	556+120	(+0.70)		
	556+240	556+360	(+0.70)		
	556+360	556+500	(+0.70)		
	556+000	556+120	(+0.90)		
	556+240	556+360	(+0.90)		
	556+360	556+500	(+0.90)		
MAR Approval No				Date	
Supplier Name					
Test Requirement	Specification			Clause	
Reference Photos	Yes attached / No			Other	
Item	Description	Unit	Quantity	Arrival Date	Note
1	Sieve analysis	M3	1000		
2	Classification	M3	1000		
3	Proctor & O.m.c	M3	1000		
4	L.L & P.L & PI	M3	1000		
5	C.B.R	M3	1000		
Comments by:			Comments by:		

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Omar Abd El-Hakem			
QA/QC *				
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST				

Contractor Company	Magdy Bekhit		Designer Company	K.K
Issued by Contractor	Name	Sign	Date	Time
	Eng. Omar Abd El-Hakem			
Contractor Reference	MB-SB-1 12-08-2023			
Received by ER			MAR	

CODE - 1	S1 to S21 Station Reference	D1 to S3 Depot Reference	Kp 558 Note For Kilometer point only Start Km is used
CODE - 2	Work Activity		
CODE - 3	Sub Element of Activity		

Description of Materials	Replacement Fill Material Results		
Location to be Used	KP. 556		
Sample only	Yes / No	Materials Type	A-1-a
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	AGGREGATE SAMPLING ACCORDING TO SPECS. SIEVE ANALYSIS ACCORDING TO SPECS. PASS NO 200 6.70 ATTEBERG LIMIT NP MOISTURE CONTENT 6.40 % MODIFIED PROCTOR 2.215 CBR 97.80 %
Reference Photos	Yes attached / No	Other	
Comments by:		Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng. Omar Abd El-Hakem			
QA/QC *	Youssef Ragab	Youssef Ragab		
GARB**				
Employers Representative				

* Designer
 ** Alignment/Bridges: Culvert only



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

الهيئة العامة للإقادة
 وزارة النقل
 (CVSTRA)

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	8/8/2023	code	ZONE	556+000	556+500
LOCATION	K.P 555+500	MB2-SB-1	MATERIAL	SUB BALLAST	
NAME COMPANY	MAGDY BEKHET		QUANTITY	3000 M3	

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT [g]		21330.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	0.0	139.0	2120.0	3406.0	1962.0	1804.0	4181.0		A-1-a
Cumulative Retained (g)	0.0	139.0	2259.0	5665.0	7627.0	9431.0	13612.0		PRO 2.215
Cumulative Retained %	0.0	2.7	10.6	26.6	35.8	44.2	63.8		WC 6.4%
Cumulative Passing %	100.0	97.3	89.4	73.4	64.2	55.8	36.2		CBR 97.8%
									S.G 2.527
B-soft material gradation				WT.OF sample		500.00		gm	LOS 27.80
sieve size	10	40	200						
Cumulative Retained (g)	221.00	331.00	407.00						
Cumulative Retained %	44.20	66.20	81.40						
Cumulative Passing %	55.80	33.80	18.60						

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	97.3	89.4	73.4	64.2	55.8	36.2	20.2	12.2	6.7
REMARKS		50-97		20-75		15-60		0-35		0-7

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

Contractor

Consultant

[Handwritten signature and stamp of the Contractor]

[Handwritten signature and stamp 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

مجلس الوزراء
 المجلس الأعلى للمواصلات
 وزارة النقل

PROCTOR TEST

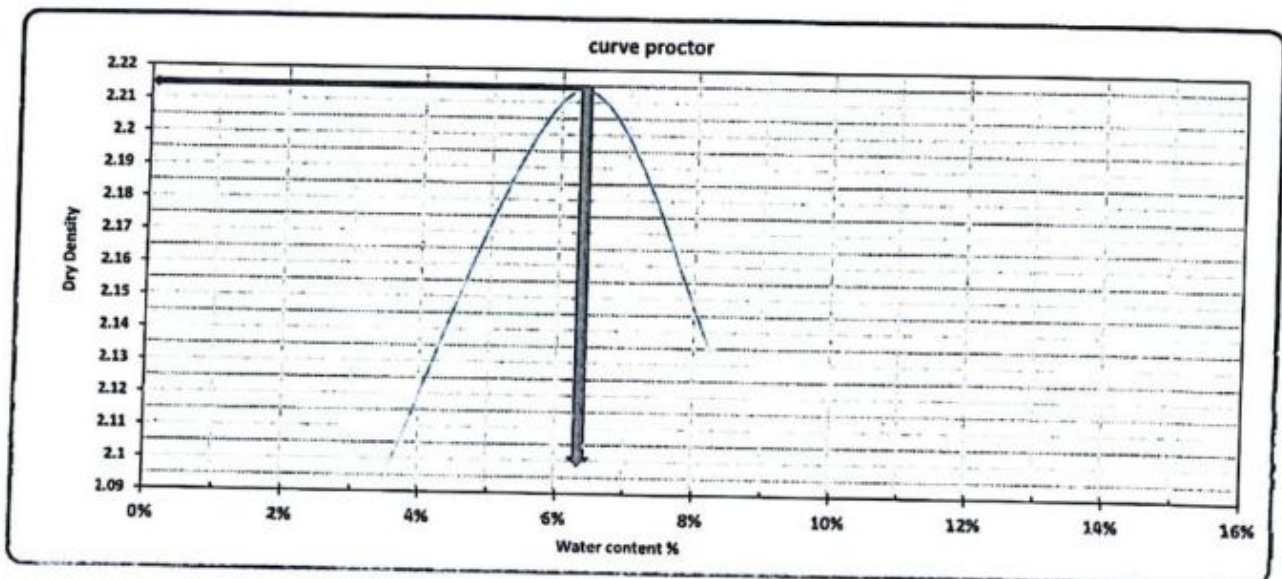
TESTING DATE:	10/8/2023	code	ZONE	558+000	558+500
LOCATION	K.P 555+500	MB2-SB-1	MATERIAL	SUB BALLAST	
NAME COMPANY	MAGDY BEKHET		QUANTITY	3000 M3	

Weight of empty mold :	6069.0
Mold Volume:	2032.0

MAX Dry Density	2.215
Water content %	6.4%

trial no :	1	2	3		
Wt. Of Mold+ wet soil	10487.0	10846.0	10765.0		
WT. WET SOIL	4418.0	4777.0	4696.0		
Wt. Density	2.174	2.351	2.311		

Tare No.	1	2	3	4	5	6				
Tare wt.	34.15	23.25	22.87	32.56	29.09	30.64				
Wt. Of wet soil & tare	171.6	177.93	155.41	154.35	166	164.25				
Wt. Of dry soil & tare	167.11	172.27	147.91	146.98	155.86	153.77				
Wt. Of water	4.5	5.7	7.5	7.4	10.1	10.5				
Wt. Of dry soil	133.0	149.0	125.0	114.4	126.8	123.1				
Water content %	3.4%	3.8%	6.0%	6.4%	8.0%	8.5%				
AV. Water content %	3.6%		6.2%		8.3%					
Dry Density	2.099		2.213		2.135					

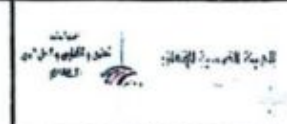


Contractor

Consultant

[Handwritten signature and stamp of the Contractor]

[Handwritten signature and stamp of the Consultant]

	Electric Express Train - HSR	
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California Bearing Ratio TEST

Testing Date :	2023/8/12	Code	FROM STA :	556+000 -	556+500
Location :	K.P 555+500	MB2-SB-1	: Material	SUB BALLAST	
Layer No. :	MAGDY BEKHET		QUANTITY	3000 MG	

:- Test Results

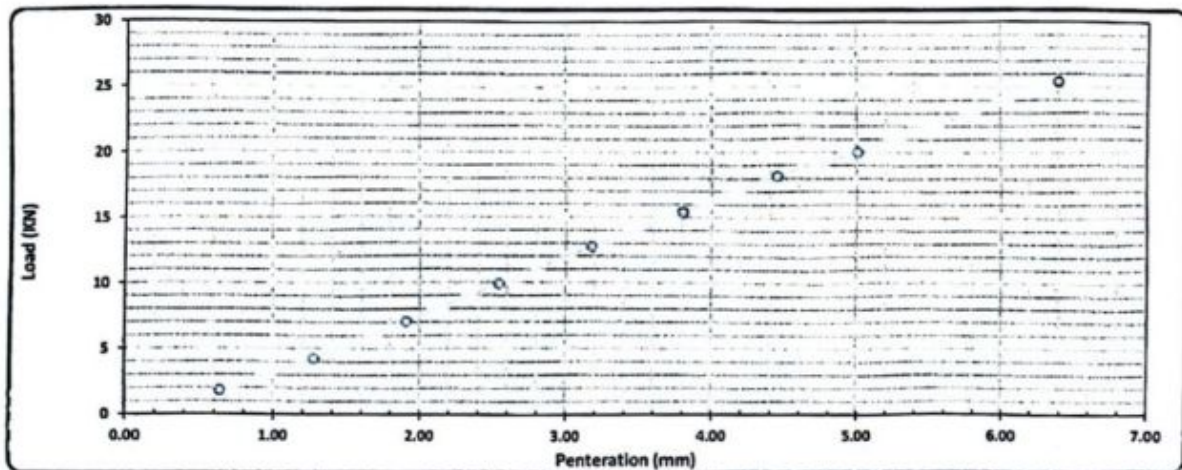
Compaction % for Mold	
Mold No.	55
Mold Vol. (cm ³)	1151
Mold WT. (gm)	7350
Mold WT. + Wet WT. (gm)	12380
Wet WT. (gm)	5030
Wet Density (g/cm ³)	2.338
Dry Density (g/cm ³)	2.198
Proctor Density (g/cm ³)	2.215
Compaction %	99

Moisture Ratio After Compacted Mold	
Tare No.	5
Tare WT. (gm)	31
Tare WT. + Wet WT. (gm)	168
Tare WT. + Dry WT. (gm)	152.2407
Water WT. (gm)	7.8
Dry WT. (gm)	121.2
Moisture Content %	6.4

Swelling	
Mold No.	4
Date	2023/8/12
Initial Height (mm)	2.20
Final Height (mm)	2.20
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)	181.00	430.00	720.00	1005.00	1299.00	1572.00	1853.00	2040.00	2590.00
Load (KN)	1.8	4.2	7.1	9.8	12.7	15.4	18.2	20.0	25.4



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(KN)	(lb)	(%)	(%)	(%)	% 98
2.50	9.85	13.4	73.8%	100	98	72.3%
5.00	18.99	20.0	94.8%			97.8%

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