



تتولى أعمال الجسر الترابي لمشروع الزداج خط سكة حديد (عربي منصور - الزداج)

تتولى الشركة المصرية للصيانة الثانوية للطرق والمطارات

البرنامج الترابي للمشروع



الهيئة العامة
للمواصلات و
الاقتصاد و
العمل العربي
(GARBL)



الهيئة العامة
للمواصلات و
الاقتصاد و
العمل العربي
(GARBL)

التاريخ

رقم	المحاسبة الخاصة بـ		بيان الأعمال
	الكمية	القيمة	
١	٢٠٢٣	٢٠٢٣	٢٠٢٣
٢	٢٠٢٣	٢٠٢٣	٢٠٢٣
٣	٢٠٢٣	٢٠٢٣	٢٠٢٣
٤	٢٠٢٣	٢٠٢٣	٢٠٢٣
٥	٢٠٢٣	٢٠٢٣	٢٠٢٣
٦	٢٠٢٣	٢٠٢٣	٢٠٢٣
٧	٢٠٢٣	٢٠٢٣	٢٠٢٣
٨	٢٠٢٣	٢٠٢٣	٢٠٢٣
٩	٢٠٢٣	٢٠٢٣	٢٠٢٣
١٠	٢٠٢٣	٢٠٢٣	٢٠٢٣
١١	٢٠٢٣	٢٠٢٣	٢٠٢٣
١٢	٢٠٢٣	٢٠٢٣	٢٠٢٣
١٣	٢٠٢٣	٢٠٢٣	٢٠٢٣
١٤	٢٠٢٣	٢٠٢٣	٢٠٢٣
١٥	٢٠٢٣	٢٠٢٣	٢٠٢٣
١٦	٢٠٢٣	٢٠٢٣	٢٠٢٣
١٧	٢٠٢٣	٢٠٢٣	٢٠٢٣
١٨	٢٠٢٣	٢٠٢٣	٢٠٢٣
١٩	٢٠٢٣	٢٠٢٣	٢٠٢٣
٢٠	٢٠٢٣	٢٠٢٣	٢٠٢٣
٢١	٢٠٢٣	٢٠٢٣	٢٠٢٣
٢٢	٢٠٢٣	٢٠٢٣	٢٠٢٣
٢٣	٢٠٢٣	٢٠٢٣	٢٠٢٣
٢٤	٢٠٢٣	٢٠٢٣	٢٠٢٣
٢٥	٢٠٢٣	٢٠٢٣	٢٠٢٣
٢٦	٢٠٢٣	٢٠٢٣	٢٠٢٣
٢٧	٢٠٢٣	٢٠٢٣	٢٠٢٣
٢٨	٢٠٢٣	٢٠٢٣	٢٠٢٣
٢٩	٢٠٢٣	٢٠٢٣	٢٠٢٣
٣٠	٢٠٢٣	٢٠٢٣	٢٠٢٣
٣١	٢٠٢٣	٢٠٢٣	٢٠٢٣
٣٢	٢٠٢٣	٢٠٢٣	٢٠٢٣
٣٣	٢٠٢٣	٢٠٢٣	٢٠٢٣
٣٤	٢٠٢٣	٢٠٢٣	٢٠٢٣
٣٥	٢٠٢٣	٢٠٢٣	٢٠٢٣
٣٦	٢٠٢٣	٢٠٢٣	٢٠٢٣
٣٧	٢٠٢٣	٢٠٢٣	٢٠٢٣
٣٨	٢٠٢٣	٢٠٢٣	٢٠٢٣
٣٩	٢٠٢٣	٢٠٢٣	٢٠٢٣
٤٠	٢٠٢٣	٢٠٢٣	٢٠٢٣
٤١	٢٠٢٣	٢٠٢٣	٢٠٢٣
٤٢	٢٠٢٣	٢٠٢٣	٢٠٢٣
٤٣	٢٠٢٣	٢٠٢٣	٢٠٢٣
٤٤	٢٠٢٣	٢٠٢٣	٢٠٢٣
٤٥	٢٠٢٣	٢٠٢٣	٢٠٢٣
٤٦	٢٠٢٣	٢٠٢٣	٢٠٢٣
٤٧	٢٠٢٣	٢٠٢٣	٢٠٢٣
٤٨	٢٠٢٣	٢٠٢٣	٢٠٢٣
٤٩	٢٠٢٣	٢٠٢٣	٢٠٢٣
٥٠	٢٠٢٣	٢٠٢٣	٢٠٢٣
٥١	٢٠٢٣	٢٠٢٣	٢٠٢٣
٥٢	٢٠٢٣	٢٠٢٣	٢٠٢٣
٥٣	٢٠٢٣	٢٠٢٣	٢٠٢٣
٥٤	٢٠٢٣	٢٠٢٣	٢٠٢٣
٥٥	٢٠٢٣	٢٠٢٣	٢٠٢٣
٥٦	٢٠٢٣	٢٠٢٣	٢٠٢٣
٥٧	٢٠٢٣	٢٠٢٣	٢٠٢٣
٥٨	٢٠٢٣	٢٠٢٣	٢٠٢٣
٥٩	٢٠٢٣	٢٠٢٣	٢٠٢٣
٦٠	٢٠٢٣	٢٠٢٣	٢٠٢٣
٦١	٢٠٢٣	٢٠٢٣	٢٠٢٣
٦٢	٢٠٢٣	٢٠٢٣	٢٠٢٣
٦٣	٢٠٢٣	٢٠٢٣	٢٠٢٣
٦٤	٢٠٢٣	٢٠٢٣	٢٠٢٣
٦٥	٢٠٢٣	٢٠٢٣	٢٠٢٣
٦٦	٢٠٢٣	٢٠٢٣	٢٠٢٣
٦٧	٢٠٢٣	٢٠٢٣	٢٠٢٣
٦٨	٢٠٢٣	٢٠٢٣	٢٠٢٣
٦٩	٢٠٢٣	٢٠٢٣	٢٠٢٣
٧٠	٢٠٢٣	٢٠٢٣	٢٠٢٣
٧١	٢٠٢٣	٢٠٢٣	٢٠٢٣
٧٢	٢٠٢٣	٢٠٢٣	٢٠٢٣
٧٣	٢٠٢٣	٢٠٢٣	٢٠٢٣
٧٤	٢٠٢٣	٢٠٢٣	٢٠٢٣
٧٥	٢٠٢٣	٢٠٢٣	٢٠٢٣
٧٦	٢٠٢٣	٢٠٢٣	٢٠٢٣
٧٧	٢٠٢٣	٢٠٢٣	٢٠٢٣
٧٨	٢٠٢٣	٢٠٢٣	٢٠٢٣
٧٩	٢٠٢٣	٢٠٢٣	٢٠٢٣
٨٠	٢٠٢٣	٢٠٢٣	٢٠٢٣
٨١	٢٠٢٣	٢٠٢٣	٢٠٢٣
٨٢	٢٠٢٣	٢٠٢٣	٢٠٢٣
٨٣	٢٠٢٣	٢٠٢٣	٢٠٢٣
٨٤	٢٠٢٣	٢٠٢٣	٢٠٢٣
٨٥	٢٠٢٣	٢٠٢٣	٢٠٢٣
٨٦	٢٠٢٣	٢٠٢٣	٢٠٢٣
٨٧	٢٠٢٣	٢٠٢٣	٢٠٢٣
٨٨	٢٠٢٣	٢٠٢٣	٢٠٢٣
٨٩	٢٠٢٣	٢٠٢٣	٢٠٢٣
٩٠	٢٠٢٣	٢٠٢٣	٢٠٢٣
٩١	٢٠٢٣	٢٠٢٣	٢٠٢٣
٩٢	٢٠٢٣	٢٠٢٣	٢٠٢٣
٩٣	٢٠٢٣	٢٠٢٣	٢٠٢٣
٩٤	٢٠٢٣	٢٠٢٣	٢٠٢٣
٩٥	٢٠٢٣	٢٠٢٣	٢٠٢٣
٩٦	٢٠٢٣	٢٠٢٣	٢٠٢٣
٩٧	٢٠٢٣	٢٠٢٣	٢٠٢٣
٩٨	٢٠٢٣	٢٠٢٣	٢٠٢٣
٩٩	٢٠٢٣	٢٠٢٣	٢٠٢٣
١٠٠	٢٠٢٣	٢٠٢٣	٢٠٢٣

مدير عام الشركة

مدير عام الشركة

مدير عام الشركة

مدير عام الشركة

مدير عام الشركة

مدير عام الشركة



الشركة المصرية للصيانة الثانوية
للمطارات والطرق (م.م.م)
ENR Projects



تنفيذ اعمال الجسر الترابي لمشروع ازدواج خط سكة حديد (عدي منصور -الروبيكة)

تنفيذ الشركة للصيانة الذاتية للطرق والمطارات



المركز العربي
للبحوث والدراسات
(GARBEL)




الهيئة العامة للتعليم
والتربية - فلسطين
Jerusalem - Palestine
(Fax)

७

[illegible]

എസ്.എസ്.എസ്. സർവ്വീസ്

www.pearsoned.com

5/20/2019 10:11 AM

5/20/2019 10:11 AM



الشركة المصرية للمباني الخرسانية
للمطرق والمباني : م.م.م.
ENR Projects



مشروع أعمال الجسر الترابي لمشروع ازدواج خط السكة حديد
بيان المعدات و العاملين

العدد

المعدات

٩

جرير

١

لودر

٢

قلابات

٢

تانك مياه

٤

هراس أثرية

٥

بوب كات

٦

حفار

٦



Handwritten signature in blue ink.

بيان المعدات

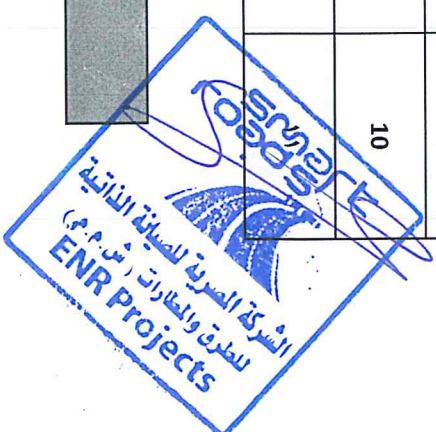


مشروع ازدواج خط السكة الحديد
(على منصور - الروبيكي) في المسافة من ٦٠+٧٩ وحتى كم ٩٥٠+٤٤



م	الوظيفة	الاسم	عدد
١	مدير المشروع	م. مصطفى حسان	١
٢	مدير التنفيذ	م. سيد محمد محمد	١
٣	مدير المكتب الفني	م. مصطفى الحلو (شركة سمارة)	١
٤	مدير ضبط الجودة	م. الخضر محمد	١
٥	مدير السلامة الوقائية	م. أحمد صلاح	١
٦	مهندس تنفيذ	م. عمر أحمد (شركة سمارة)	١
٧	مهندس تخطيط وبرمجة زمنية	م. رويدا أحمد (شركة سمارة)	١
٨	مراقب تنفيذ/ فني مواد	١. محمد صلاح محمد عباس ٢. وائل ربيع حسب الله	2
9	حاسب كميات	م. عمر محمد شبل (شركة سمارة)	١
10	فني صحة سلامة	١. مصطفى مجدى ٢. محمد هاشم عبد الرحيم	٢
	مساح	١. علاء الدين سيد رجب ٢. م. ناصر عبد الوهاب	٢

بيان العاملين

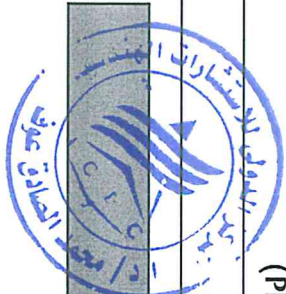


١٣/٥/٢٠٢٠

Handwritten signature in blue ink.

العدد	الاجهزة
١	جهاز CBR ديجيتال وملحقاته
٢	جهاز قياس نسبة الانتفاش مع حوض الاستاليس
٣	مناخل قياسية.
٤	جهاز حد السيولة ومشتمالته
٥	جهاز تقسيم العينات متعدد
6	أجهزة البروكتور ٤ بوصة و ٦ بوصة مع مشتمالته.
7	جهاز لوس انجلوس
8	جهاز تكسير المكعبات مع عدد ٥٠ مكعب ١٥*١٥ مع ١٠ جهاز test Slump
9	افران تجفيف ٢٠٠ لتر ديجيتال مع ميكرويف
10	حوض لغمر المكعبات الخرسانية
11	موازين حساسة ديجيتال
12	معدات اختبار الساند كون
13	جهاز لوح التحميل (Plate load Test)
14	جهاز K30

بيان الاجهزة المعملية



١٢/١٢/٢٠١٩

Handwritten signature

السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة ... وبعد ،،،

بالاحالة الى العقد رقم (١٢٦١ / ٢٠٢٢ / ٢٠٢٣) بتاريخ ٢٣/١/٢٠٢٣
تنفيذ اعمال الجسر الترابي لمشروع ازدواج خط سكة حديد (عدلي منصور - الروبيكي)
(بالأمر المباشر)

تنفيذ شركة / الشركة المصرية للصيانة الذاتية للطرق والمطارات
برجاء التكرم بالاحاطه بان العقد بعاليه يشمل عدد (٢) سيارة بيك اب دفع رباعى ولايوجد
اى محملات اخرى

برجاء التفضل بالاحاطة والتوجيه باللائم...

وتفضلوا بقبول وافر الاحترام

تحريراً فى : ١٣ / ١١ / ٢٠٢٣

يعتمد ،،،
رئيس الإدارة المركزية
نصر محمد طيخ



مهندس /

مشروع أعمال الجسر الترابي لازدواج خط السكة
حديد من محطة (عدلي منصور - الروبيكي)

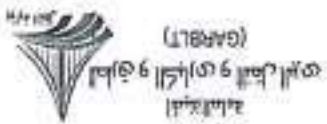
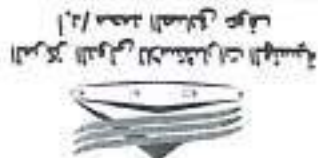
تقرير الاختبارات المعملية

مستخلص جاري (٤)

تقرير الاختبارات المعملية عطي طينقات الاردم

CONTRACTOR		CONSULTANT		OWNER	
					
TEST RESULT					
Request Date : 31-07-2023		Subtotal No :		EMB-ENR-LB-0045	
Test Request Ref No : EMB-ENR-LB-0048-A		Section / Location :		(B1)	
Test Type		☐ Concrete ☐ Soil ☐ Other			
Test Location		☐ In- ☒ Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachement			
(-) اختبار نسبة الماء الزائدة في الخرسانة (Sand Cone Test ASTM D1556) لطريق المخطط الربيعي (43+920) إلى (44+160) (10.00 متر محطة)					
Approved					
Approved					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					
Approved As Noted					
Rejected					

CONTRACTOR		CONSULTANT	
 شركة سمارت للتجارة الإلكترونية		 وزارة التخطيط	
 وزارة الاقتصاد		 وزارة المالية	
TEST REQUEST			
Request Date : 30-07-2023		Submit No : EMB-ENR-LB-0048	
Test Request Ref No : EMB-ENR-LB-0048-A		Section / Location : (B1)	
Test Type ☐ Concrete ☐ Soil ☐ Other		Test Location ☐ In-Site ☐ Out Site Lab ☐ Others	
Description		Ref. Attachment	
(0.00-) التربة من المسحب على طبقة (Sand Cone Test ASTM D1556) الخروط الرمي (44+160) في (43+920) متر محطة اختبار لاسية التربة من طريق الخروط الرمي.			
Consultant Comments			
(H) Approved			
Approval Status			
☒ Approved		☐ Resubmit As Noted	
☐ Approved As Noted		☐ Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.			
Contractor		Consultant	
Name :		Name :	
Signature :		Signature :	
Date :	01-08-2023	Date :	01/08/2023



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 30-07-2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: B-1- From Station 43+920 TO 44+160

Level: Embankment (-0.00)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
43+920	2.184	5.9	2.061	2.090	98.6
43+970	2.158	6.4	2.029	2.090	97.1
44+020	2.171	6.2	2.044	2.090	97.8
44+070	2.156	6.4	2.027	2.090	97.0
44+120	2.154	6.0	2.032	2.090	97.2
44+160	2.154	6.1	2.031	2.090	97.2

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

Approved by Project Manager

Prepared by D.E. Mohamed Salah

Eng. El Khedr Abotalib

Eng. Hossam Ismail

CONTRACTOR:		CONSULTANT:		OWNER:	
					
TEST RESULT					
Request Date : 04-08 - 2023		Submission No :		EMB-ENR-LB-0055	
Test Request Ref No : EMB-ENR-LB-0055-A		Section / Location :		(B1)	
Test Type ☐ Concrete ☐ Soil ☐ Other		Test Location ☐ In- ☒ Site ☐ Our Site Lab ☐ Others			
Description		Ref. Attachment			
-) نتيجة اختبار نسبة الماء الزائدة عن طريق مخروط الـ (ASTM D1556) (طريقة على منسوب من المنطقة (A) لنتيجة اختبار نسبة الماء الزائدة عن طريق مخروط الـ (ASTM D1556) (طريقة على منسوب من المنطقة (A) لنتيجة اختبار نسبة الماء الزائدة عن طريق مخروط الـ (ASTM D1556) (طريقة على منسوب من المنطقة (A)					
Consultant Comments					
(A) Approved.					
Approval Status					
☒ Approved		☐ Resubmit As Noted		☐ Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor Name : Signature : Date :		Consultant Name : Signature : Date :			

TEST REQUEST

Request Date : 03-08-2023	Submital No :	EMB-ENR-LB-0055
Test Request Ref No : EMB-ENR-LB-0055-A	Section / Location :	(01)

Test Type	☐ Concret ☒ Soil ☐ Other
Test Location	☐ In-Site ☐ Out Site Lab ☐ Others

Description (0.25-) لطيفة على منسوب من المرمية (0.25-) اختبار لسيارة خربة من طريق الممرات الرابي (ASTM D1556) (43+000) في (43+060) من محطة	Ref. Attachement
---	------------------

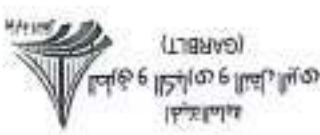
Consultant Comments	
APPROVED	
Approval Status	
☒ Approved	☐ Resubmit As Noted
☐ Approved As Noted	☐ Rejected

Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents

Contractor	Name : Signature : Date :
Consultant	Name : Signature : Date :



الهيئة العامة للغذاء والدواء
البحرين
Ministry of Health
Bahrain



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL
IN PLACE BY THE SAND-CONE METHOD
ACCORDING TO ASTM D1556

Testing Date: 03-08-2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: B-1- From Station 43+000 TO 43+060

Level: Embankment (-0.25)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
43+000	2.164	5.9	2.043	2.090	97.8
43+060	2.175	5.7	2.057	2.090	98.4

The samples Is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

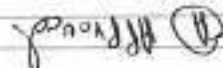
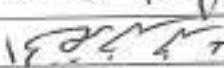
Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

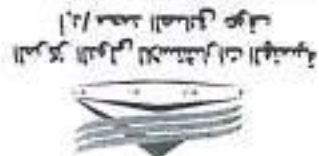
Prepared by D.C: Mohamed Salah

Approved by Project Manager
Eng. Hossam Ismail

Handwritten signature

CONTRACTOR: 		CONSULTANT: 		OWNER: 	
TEST RESULT					
Request Date : 06-08-2023		Submital No :		EM8-ENR-LB-039	
Test Request Ref No : EM8-ENR-LB-039-A		Section / Location :			
Test Type		☐ Concrete ☐ Soil ☐ Other			
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachement			
-) نتيجة اختبار نسبة دملق التربة عن طريق المعيار ASTM D1556 (Sand Cone Test ASTM D1556) (طريقة على مسجور من التربة) (38+460) إلى (38+360) محطة 0.50 متر من					
Consult Comments					
					
Approval Status					
☒ Approved		☐ Rejected			
☐ Approved As Noted		☐ Rejected As Noted			
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor Name :  Signature :  Date : 06-08-2023		Consultant Name :  Signature :  Date : 06-08-2023			

OWNER		CONSULTANT		CONTRACTOR													
 المملكة العربية السعودية وزارة البنية التحتية والخطط الحضرية		 المملكة العربية السعودية وزارة البنية التحتية والخطط الحضرية		 المملكة العربية السعودية وزارة البنية التحتية والخطط الحضرية													
مشروع (لوائح هندسة البنية التحتية على مستوى / الوطني)																	
TEST REQUEST																	
Request Date : 05-08-2023		Submital No :		EMB-ENR-LB-039													
Test Request Ref No : EMB-ENR-LB-039-A		Section / Location :		(A5)													
Test Type		☐ Concrete ☐ Soil ☐ Other															
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others															
Description		Ref. Attachment															
اختبار نسبة الماء الى الرمال (Sand Cone Test ASTM D1556) لطيفة على المنسوب من التربة (0.50- اختبار نسبة الماء الى الرمال (38+360) الى (38+460) على منسوب																	
Consultant Comments																	
Approved																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Approval Status</td> </tr> <tr> <td style="width: 50%; text-align: center;">Approved</td> <td style="width: 50%; text-align: center;">Rejected</td> </tr> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">B</td> </tr> <tr> <td style="text-align: center;">Approved</td> <td style="text-align: center;">Approved As Noted</td> </tr> <tr> <td style="text-align: center;">C</td> <td style="text-align: center;">D</td> </tr> <tr> <td style="text-align: center;">Result As Noted</td> <td style="text-align: center;">Rejected</td> </tr> </table>						Approval Status		Approved	Rejected	A	B	Approved	Approved As Noted	C	D	Result As Noted	Rejected
Approval Status																	
Approved	Rejected																
A	B																
Approved	Approved As Noted																
C	D																
Result As Noted	Rejected																
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents																	
Contractor		Consultant															
Name :		Name :															
Signature :		Signature :															
Date :		Date :		05/08/2023													



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 05-08-2023

Date: 6/8/2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: A-5- From Station (38+360) TO (38+460)

Level: Embankment (-0.50) from Ferna

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
38+360	2.013	8.9	1.848	1.910	96.8
38+410	2.028	8.3	1.873	1.910	98.1
38+460	1.978	8.1	1.829	1.910	95.8

The samples Is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Lower Embankment Subgrade Bed

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

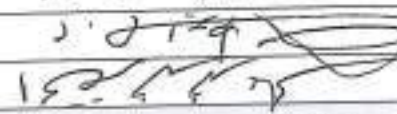
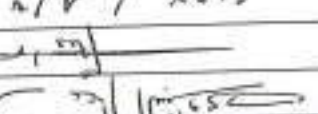
Approved by Project Manager

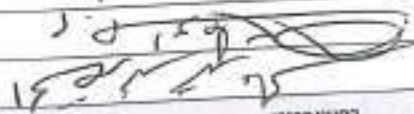
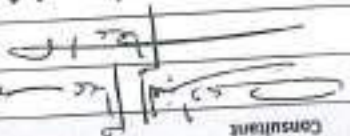
Prepared by D.C: Mohamed Salah

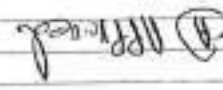
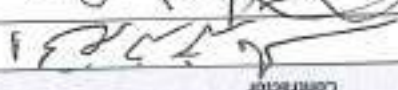
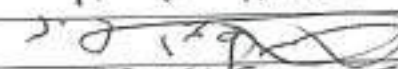
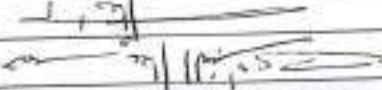
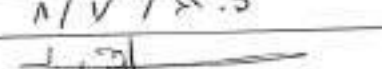
Eng. El Khedr Abotalib

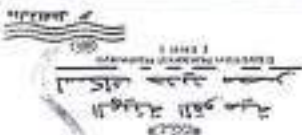
Eng. Hossam Ismail

CONTRACTOR		CONSULTANT		OWNER	
 شركة سمارت 100% مملوكة 100% مملوكة		 وزارة الإسكان والتخطيط العمراني 100% مملوكة		 وزارة الأشغال العامة والإسكان 100% مملوكة	
TEST RESULT					
Request Date : 08-08-2023		Submital No :		EMB-ENR-1B-043	
Test Request Ref No : EMB-ENR-1B-043-A		Section / Location :		(A5)	
Test Type		☐ Soil ☐ Concrete ☐ Other			
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
(-) لطيفة على المنسوب من التربة (Sand Cone Test ASTM D1556) لطيفة على المنسوب من التربة (38+460) إلى (38+360) محطة (0.25 متر) اختبار نسبة دملك التربة عن طريق المنسوب التربة					
Approved					
Approved Status					
☒ A Approved		☐ B Approved As Noted		☐ C Resubmit As Noted	
Rejected					
Note: The above works have been approved according to the project specifications, approved working drawings and contract documents.					
Contractor Name : Signature : Date :		Consultant Name : Signature : Date :		Owner Name : Signature : Date :	

							
TEST REQUEST							
Request Date : 07-08-2023		Submit No :		EMB-ENR-LB-043			
Test Request Ref No : EMB-ENR-LB-043-A				Section / Location :		(A5)	
Test Type		☐ Concrete ☒ Soil ☐ Other		Test Location			
		☐ In-Site ☐ Out Site Lab ☐ Others		Description			
				Ref. Attachment			
(0.25-) لطيفة على ماسوب على الطريق (Sand Cone Test ASTM D1556) الطريق المحروط الطريق (38+360) إلى (38+460) متر من محطة اختبار لسيارة حمولة الأتربة عن طريق المحروط الطريق							
Consultant Comments							
Approval Status							
☒ Approved		☐ Rejected					
☐ Approved As Noted		☐ Rejected					
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents							
Contractor		Name :		Signature :		Date :	
							
Consultant		Name :		Signature :		Date :	
							

					
CONTRACTOR:		CONSULTANT:		OWNER:	
TEST RESULT					
Request Date : 08-08-2023		Submittal No :		EMRB-ENR-LB-045	
Test Request Ref No : EMRB-ENR-LB-045-A		Section / Location :		(ASI)	
Test Type		☐ Soil ☒ Concrete ☐ Other			
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
(-) لينة اختبار لينة التربة عن طريق المنحدر الرمي (Sand Cone Test ASTM D1556) (38+740) (في محطة 0.75 متر من سطح) (بما في ذلك)					
Consultant Comments					
Approval Status					
Approved		Approved As Noted		Rejected As Noted	
☒ A		☐ B		☐ C	
Approved		Approved As Noted		Rejected	
Note: The above works have been approved according to the project specification, approved workshop drawings and contract documents.					
Contractor		Name :		Date :	
				08/08/2023	
Signature :		Signature :		Date :	
Date :		Date :		Date :	

					
CONTRACTOR:		CONSULTANT:		OWNER:	
TEST REQUEST					
Request Date : 07-08-2023		Submitted No :		E.M.B-ENR-LB-045	
Test Request Ref No : E.M.B-ENR-LB-045-A		Section / location :		(A5)	
Test Type ☐ Concrete ☐ Soil ☐ Other		Test Location ☐ In- ☐ Site ☐ Out Site lab ☐ Others			
Description (0.75-) اختبار نسبة الرية عن طريق المخروط الرابي (Sand Cone Test ASTM D1556) لطبقة على منحسوب على الطريق متر من محطة (38+700) الى (38+740) ومنحسوب الطريق		Ref. Attachment			
Consultant Comments					
					
Approval Status					
☒ Approved		☐ C ☐ Resubmit As Noted			
☐ B ☐ Approved As Noted		☐ D ☐ Rejected			
Note: The above works have been approved according to the project specifications, approved workshop drawings and control documents.					
Contractor Name :  Signature :  Date : 07-08-2023		Consultant Name :  Signature :  Date : 07-08-2023			



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 07-08-2023

Date: 8/8/2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: A-5- From Station (38+700) TO (38+740) Left Side

Level: Embankment (-0.75) from Ferna

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
38+700	2.254	5.9	2.128	2.182	97.5
38+740	2.256	5.7	2.134	2.182	97.8

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Lower Embankment Subgrade Bed

Tested by Tech: Mohamed Afify

Checked by Lab Engineer

Prepared by D.C. Mohamed Salah

Eng. El Khedr Abolabb

Approved by Project Manager

Eng. Hossam Ismail

CONTRACTOR:		CONSULTANT:		OWNER:	
					
TEST RESULT					
Request Date : 10-08-2023		Submittal No :		EMB-ENR-LB-047	
Test Request Ref No : EMB-ENR-LB-047-A		Section / Location :		(A5)	
Test Type		☐ Concrete ☐ Soil ☐ Other			
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
1- نتيجة اختبار نسبة الماء الزائدة من طريق المعروط الوطني (Sand Cone Test ASTM D1556) لطبقة على مستوى من التربة من نوعية اختبار نسبة الماء الزائدة من طريق المعروط الوطني (38+700) إلى (38+460) مسافة 10.75 متر من مسار الجسر.					
Consultant Comments					
(A) Approved					
Approval Status					
Approved		C		Resubmit As Noted	
Approved As Noted		D		Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor		Consultant			
Name :	Name :		Name :		
Signature :	Signature :		Signature :		
Date :	Date :		Date :		

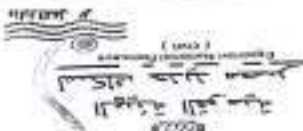
					
CONTRACTOR Name : Signature : Date :		CONSULTANT Name : Signature : Date :		OWNER Name : Signature : Date :	
TEST REQUEST Request Date : 09-08-2023 Test Request Ref No : EMB-ENR-LB-047-A Section / Location : Submittal No : EMB-ENR-LB-047					
Test Type ☐ Concrete ☐ Soil ☐ Other		Test Location ☐ In-Site ☐ Out Site Lab ☐ Others			
Description Ref. Attachments		(0.75-) لطيفة على مسلوب من التربة (38+700) في (38+460) من محطة مياه الجسر اختبار لاسية ذلك التربة عن طريق المعروط الرمل (Sand Cone Test ASTM D1556)			
Consultant Comments					
Approved Status ☒ Approved ☐ Resubmit As Noted ☐ Rejected					
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.					



المرکز الوطني للمختبرات والتحقیقات
إ.م. محمد المصطفى عوف



المختبرات
الكباري و الطرق
(GARBLT)



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 09-08-2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: A-5- From Station (38+460) TO (38+700) Left Side.

Level: Embankment (-0.75) from Fenna

Point No.	Bulk Density (gm/cm^3)	Moisture Content (%)	In situ Dry Density (gm/cm^3)	Maximum Dry Density (gm/cm^3)	Relative Compaction (%)
38+460	2.254	6.4	2.119	2.182	97.1
38+510	2.256	6.6	2.117	2.182	97.0
38+560	2.228	6.0	2.102	2.182	96.3
38+610	2.252	6.2	2.121	2.182	97.2
38+660	2.227	6.4	2.093	2.182	95.9
38+700	2.218	7.0	2.074	2.182	95.0

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Lower Embankment Subgrade Bed

Tested by Tech.: Mohamed Afify

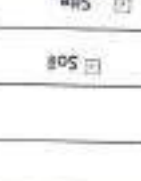
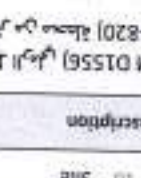
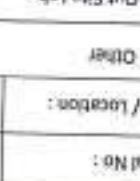
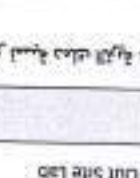
Checked by Lab Engineer

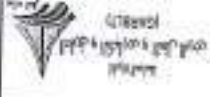
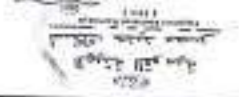
Eng. El Khedr Abotalib

Prepared by D.E. Mohamed Salah

Approved by Project Manager

Eng. Hossam Ismail

 CONTRACTOR	 CONSULTANT	 OWNER	TEST RESULT مشروع تطوير حارة السكن الجديدة على محور / البرقية
Request Date : 13-08-2023			
Test Request Ref No : EMB-ENR-LB-051-A		Section / Location : (A5)	
Test Type : ☐ Concrete ☐ Soil ☐ Other		Submission No :	
Test Location : ☐ In ☐ Site ☐ Out Site Lab ☐ Others		Ref. Attachment	
-) نتيجة اختبار نسبة الماء الزائدة عن طريق المخروط الرطبي (Sand Cone Test ASTM D1556) (طريقة على مستوى من التربة) (38+700) الي (38+820) محطة (2.00 متر من محطة)			
Consultant Comments			
Approved			
Approval Status			
☒ Approved		☐ Resubmit As Noted	
☐ B		☐ D	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents			
Contractor Name :  Signature :  Date : 05-08-2023		Consultant Name :  Signature :  Date : 05/08/2023	

							
CONTRACTOR:		CONSULTANT:		OWNER:		CONTRACT NO.:	
TEST REQUEST							
Request Date : 12-08-2023							
Test Request Ref No : EMB-ENR-LB-051-A							
Test Type		☐ In- ☒ Site		☐ Concret ☒ Soil		☐ Other	
Test Location		☐ In- ☒ Site		☐ Out Site Lab		☐ Others	
Description		(2.00-) لطيفة على مستوى من التربة (Sand Cone Test ASTM D1556) الرطب (38+700) أي (38+820) محطة من محطة					
Ref. Attachment		Ref. Attachment					
Consultant Comments							
Approved							
Approval Status							
☒ A		Approved		☐ C		Resubmit As Noted	
☐ B		Approved As Noted		☐ D		Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents							
Contractor		Consultant					
Name :		Signature :		Date :		Date :	
Name :		Signature :		Date :		Date :	

STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL
IN PLACE BY THE SAND-CONE METHOD
ACCORDING TO ASTM D1556

Testing Date: 12-08-2023

Date: 13/8/2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: A-5- From Station (38+700) TO (38+820).

Level: Embankment (-2.00) from Fenna

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
38+700	2.235	6.4	2.102	2.182	96.3
38+750	2.256	6.4	2.121	2.182	97.2
38+800	2.228	6.2	2.098	2.182	96.2
38+820	2.252	6.2	2.121	2.182	97.2

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.90$ for Lower Embankment Subgrade Bed.

Tested by Tech.: Mohamed Afify

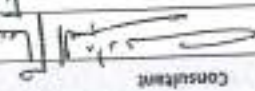
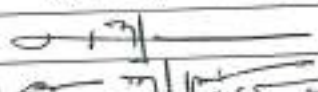
Checked by Lab Engineer

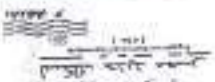
Approved by Project Manager

Prepared by D.C: Mohamed Salah

Eng. El Khedr Abotaleb

Eng. Hossein Ismail

CONTRACTOR: 		CONSULTANT: 		OWNER: 	
TEST RESULT					
Request Date : 14-08-2023		Submittal No :		EMB-ENR-LB-053	
Test Request Ref No : EMB-ENR-LB-053-A		Section / Location :		(AS)	
Test Type		☐ Concrete ☐ Soil ☐ Other			
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachement			
1- نتيجة اختبار نسبة الماء الزائدة عن طريق الاختبار (Sand Cone Test ASTM D1556) لطبقة على مسطح من التربة - (38+700) إلى (38+820) محطة (1.75 متر من محطة)					
Consultant Comments					
(A) Approved					
Approval Status					
☒ Approved		☐ Resubmit As Noted			
☐ B		☐ D		☐ Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor Name :  Signature :  Date : 13-8-2023		Consultant Name :  Signature :  Date : 13/8/2023			

					
CONTRACTOR:		CONSULTANT:		OWNER:	
مختبر (إنتاج) خط المسكة الحديد على مستوى / جسر TEST REQUEST					
Request Date : 13- 08- 2023		Submital No :		EMB-ENR-LB-053	
Test Request Ref No : EMB-ENR-LB-053-A		Section / Location :		(A5)	
Test Type		☐ Concrete ☐ Soil ☐ Other			
Test Location		☐ In- ☒ Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
(1.75-) لطيفة على مستوى من الطريق (Sand Cone Test ASTM D1556) الرطب (38+700) في محطة (38+820) في طريق المسكوك الحديدية على مستوى / جسر					
Consultant Comments					
① Approved					
Approval Status					
☒ Approved		☐ C		☐ Resubmit As Noted	
☐ B		☐ D		☐ Rejected	
Note: The above works have been approved according to the project specification, approved workshop drawings and contract documents.					
Contractor		Consultant			
Name :		Name :			
Signature :		Signature :			
Date :		Date :			



ପ୍ରାୟ: ୬ ମାସ ମଧ୍ୟରେ
ମାସିକ ୬ ମାସ ମଧ୍ୟରେ
ମାସିକ ୬ ମାସ ମଧ୍ୟରେ



CE BY THE SAND-CONE METHOD
ACCORDING TO ASTM D1556

Approved by Project Manager
Eng. Hossam Ismail

TEST RESULT		Request Date : 14-08-2023		Test Request Ref No : EMB-ENR-LB-054-A	
Submital No :		Section / Location :		(A5)	
EMB-ENR-LB-054		Test Type		☐ Concrete ☐ Soil ☐ Other	
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others		Description	
Ref. Attachement		(-) اختبار نسبة الرية عن طريق المنروط الوطني (Sand Cone Test ASTM D1556) لطبقة على منسوب من اللوحة (38+320) إلى (38+200) مسافة 10.00 متر من محطة			
Consultant Comments					
APPROVED					
Approval Status					
Approved		Approved As Noted		Rejected	
C		D		B	
Resubmit As Noted					
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor		Name :		Signature :	
Date :		Date :		Date :	
31/7/23		31/7/23		31/7/23	

					
CONTRACTOR:		CONSULTANT:		OWNER:	
ملف لطلب إجراء اختبار جودة الخرسانة (طلب اختبار الخرسانة) / Request for concrete quality test (concrete test request)					
TEST REQUEST					
Request Date : 13-08-2023		Submit No :		EMB-ENR-LB-054	
Test Request Ref No : EMB-ENR-LB-054-A					
Test Type		☐ Concrete ☒ Soil ☐ Other			
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
إجراء اختبار جودة الخرسانة على طبق (Sand Cone Test ASTM D1556) لطريق المشروع (في (38+320) إلى (38+200) مسافة من محور الطريق)					
Consultant Comments					
① Approved					
Approval Status					
☒ Approved		☐ Rejected As Noted		☐ Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.					
Contractor		Consultant			
Name :		Name :		Name :	
Signature :		Signature :		Signature :	
Date :		Date :		Date :	

STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL
IN PLACE BY THE SAND-CONE METHOD
ACCORDING TO ASTM D1556



Testing Date: 13-08-2023

Description of Tested Material:	Sand & Gravel Soil
---------------------------------	--------------------

Source and Coordinates of Sample: A-5- From Station (38+200) TO (38+320).

Level: Embankment (-0.00) from Ferra

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
38+200	2.271	5.9	2.143	2.182	98.2
38+250	2.281	6.2	2.148	2.182	98.5
38+300	2.253	6.0	2.126	2.182	97.5
38+320	2.252	6.4	2.117	2.182	97.0

The samples is COMPLYING with the Project Specifications which allows

The samples is over 100 a minimum limit for compaction ratio $K \geq 0.95$ for Lower Embankment Subgrade Bed.

Tested by Tech.: Mohamed Afify

Prepared by D.C. Mohamed Salah

Eng. El Khedr Abotalib

[Signature]

Approved by Project Manager

Eng. Hossam Ismail

[illegible]

					
CONTRACTOR:		CONSULTANT:		OWNER:	
TEST REQUEST					
Request Date : 14-08-2023		Submital No :		EMB-ENR-LB-056	
Test Request Ref No : EMB-ENR-LB-056-A		Section / Location :		(A5)	
Test Type ☐ Concrete ☒ Soil ☐ Other		Test Location ☐ In- ☒ Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachement			
(1.25-) التربة على المنسوب على لطيفة (Sand Cone Test ASTM D1556) التربة من طريق المخرج الوطني (38+700) إلى (38+820) محطة مياه من					
Consultant Comments					
① Approved					
Approval Status					
☒ Approved		☐ Resubmit As Noted		☐ Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor		Consultant		Date : 08/08/2023	
Name :		Signature :		Signature :	
Date :		Date :		Date :	



الجمهورية العربية السورية
الوزارة العامة للتخطيط
إدارة مسح الأراضي



الجمهورية العربية السورية
الوزارة العامة للأشغال
(GARBLT)



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD ACCORDING TO ASTM D1556

Testing Date: 14-08-2023

Date: 15/8/2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: A-5- From Station (38+700) TO (38+820).

Level: Embankment (-1.25) from Fenna

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
38+700	2.235	6.4	2.102	2.182	96.3
38+750	2.256	6.6	2.117	2.182	97.0
38+800	2.228	6.4	2.094	2.182	96.0
38+820	2.252	6.0	2.125	2.182	97.4

The samples is **COMPLYING** with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.90$ for Lower Embankment Subgrade Bed

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

Eng. El Kheider Abotalib

Prepared by D.C: Mohamed Salah

Approved by Project Manager

Eng. Hosam Ismail

CONTRACTOR:		
CONSULTANT:		
OWNER:		

TEST RESULT

نتيجة اختبار / Test Result

Request Date : 13-08-2023		Submittal No :		EMB-ENR-LB-060	
Test Request Ref No : EMB-ENR-LB-060-A		Section / Location :		(A5)	
Test Type		☐ Soil ☐ Other			
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			

-) نتيجة اختبار لمدى كثافة التربة من طريق المعروط العربي (Sand Cone Test ASTM D1556) في طريق المعروط العربي (38+700) إلى (38+820) محطة (0.25 متر من محطة)

① Approved

Approval Status	
Approved	C
Resubmit As Noted	D
Rejected	B

Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.

Contractor		Name :	Date :
			2023-08-13
Consultant		Name :	Date :
			2023/08/13

CONTRACTOR:



CONSULTANT:



مركز الدراسات والبحوث
في مجال التخطيط
(مركز البحوث)



مركز البحوث
في مجال التخطيط
(مركز البحوث)

OWNER:



مركز البحوث في مجال التخطيط / الأبحاث

TEST REQUEST

Request Date : 17-08-2023

Test Request Ref No : EMB-ENR-LB-060-A

Test Type	☐ Concrete ☒ Soil ☐ Other
Test Location	☐ In-Site ☒ Out Site Lab ☐ Others

Description

(0.25-) اختبار نسبة الرية عن طريق المنروط (التي (38+700) إلى (38+820) محطة من محطة

Ref. Attachment

Consultant Comments

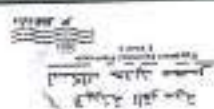
① Approved

Approval Status	
Approved	②
Approved As Noted	B
Rejected	D
Resubmit As Noted	C

Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents

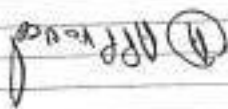
Contractor		Name :	Signature :	Date :
Consultant		Name :	Signature :	Date :

Approved by Project Manager
Eng. Hossam Ismail

					
OWNER وزارة المياه والكهرباء المملكة العربية السعودية		CONSULTANT شركة استشارات الهندسة والبناء		CONTRACTOR شركة البناء والتشييد	

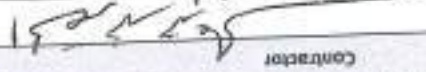
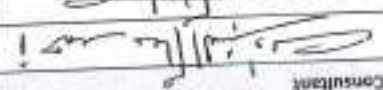
TEST RESULT

Request Date : 20-08-2023		Submittal No :		E-MB-ENR-LB-061	
Request Ref No : E-MB-ENR-LB-061-A		Section / Location :		(A5)	
Test Type ☐ Concrete ☒ Soil ☐ Other		Test Location ☐ In- ☐ Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
-) اختبار لاسعة الاسفلت على الطريق (Sand Cone Test ASTM D1556) (البيانات في المرفق) (10.00 متر مربع لاسعة (38+740) الى (38+360))					
Consultant Comments					

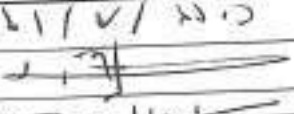


Approval Status	
☒ A) Approved ☐ C) Resubmit As Noted	☐ B) Approved As Noted ☐ D) Rejected

Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.

Contractor 		Consultant 	
Name :		Name :	
Signature :		Signature :	
Date :		Date :	

0.08 - A - C

CONTRACTOR		CONSULTANT		OWNER	
					
مشروع / نوع خط السكة الحديد على المسور / الأوتري					
TEST REQUEST					
Request Date : 19-08-2023		Submittal No :		EMB-ENR-LB-061	
Test Request Ref No : EMB-ENR-LB-061-A		Section / Location :		(A5)	
Test Type ☐ Concret ☐ Soil ☐ Other		Test Location ☐ In-Site ☐ Our Site Lab ☐ Others			
Description		Ref. Attachment			
(0.00-) لطيفة على المسور من (38+360) إلى (38+740) مل من محطة اختبار لاسية لملء الردية عن طريق المنحروط لربط (Sand Cone Test ASTM D1556)					
Consultant Comments					
Approved					
Approval Status					
☒ A Approved		☐ C Resubmit As Noted			
☐ B Approved As Noted		☐ D Rejected			
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.					
Contractor		Name :		Date :	
					
Signature :		Signature :		Signature :	
Date : 05-08-2023		Date : 05-08-2023		Date : 05-08-2023	

STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556



المجلس
الهندسي
فلسطين
(P.E.C.)



المجلس
الوطني
للبنية التحتية
والنقل
(M.T.I.)



Testing Date: 19-08-2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: A-5- From Station (38+360) TO (38+740).

Level: Embankment (-0.00) from Fenna

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
38+360	2.269	5.9	2.142	2.182	98.2
38+410	2.292	6.2	2.159	2.182	98.9
38+460	2.282	5.8	2.158	2.182	98.9
38+510	2.284	6.0	2.156	2.182	98.8
38+560	2.227	6.4	2.093	2.182	95.9
38+610	2.218	6.3	2.086	2.182	95.6
38+660	2.226	6.0	2.100	2.182	96.3
38+710	2.226	5.9	2.102	2.182	96.3
38+740	2.211	6.1	2.085	2.182	95.5

The samples Is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Lower Embankment Subgrade Bed.

Tested by Tech.: Mohamed Afify

Prepared by D.C: Mohamed Salah

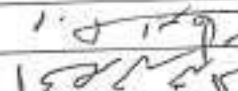
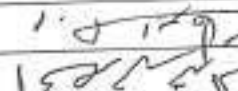
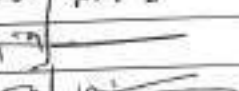
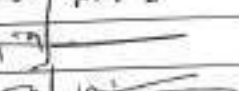
Eng. El Khaledr Abotalib

Checked by Lab Engineer

Approved by Project Manager

Eng. Hossam Ismail

							
CONTRACTOR:		CONSULTANT:		OWNER:			
مشاريع / برامج / خطط الصيانة الجديدة على مستوى / الإقليمي TEST RESULT							
Request Date : 23-08-2023		Submittal No :		EMB-ENR-LB-052			
Test Request Ref No : EMB-ENR-LB-052 A				Section / Location :		(A5)	
Test Type		☐ Concrete ☒ Soil ☐ Other					
Test Location		☐ In- ☒ Site		☐ Out Site Lab ☐ Others			
Description		Ref. Attachment					
نتيجة اختبار لاسية دالة الزلزالية في طريق الممرات الرملية (Sand Cone Test ASTM D1556) لاجل على المنسوب من الزلزالية (-) محطة (38+700) إلى (38+820) من محطة (0.00)							
Consultant Comments							
① Approved							
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents							
Approval Status		Approved		C		Resubmit As Noted	
		Approved As Noted		D		Rejected	
B							
A							
Contractor		Name :		Signature :		Date :	
Consultant		Name :		Signature :		Date :	
Date :		Signature :		Signature :		Date :	

CONTRACTOR: 		CONSULTANT: 		OWNER: 	
TEST REQUEST					
Request Date : 20-08-2023		Submitter No :		EMR-ENR-LB-062	
Test Request Ref No : EMR-ENR-LB-062-A		Section / Location :			
Test Type		☐ Concret ☐ Soil ☐ Other			
Test Location		☐ In- ☒ Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
(0.00-) لطيفة على مستوى من (38+700) الى (38+820) محطة من من اختبار نسبة دمك التربة عن طريق المنحروط الرشي (Sand Cone Test ASTM D1556)					
Consultant Comments					
Approved					
Approval Status					
☒ A Approved		☐ C Resubmit As Noted			
☐ B Approved As Noted		☐ D Rejected			
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor Name :  Signature :  Date : 20-8-2023		Consultant Name :  Signature :  Date : 20/8/2023			

IN PLACE BY THE SAND-CONE METHOD
ACCORDING TO ASTM D1556

Approved by Project Manager
Eng. Hossam Ismail

CONTRACTOR:		CONSULTANT:		OWNER:	
					
TEST RESULT					
Request Date : 17-08 - 2023		Submital No :		EMB-ENR-LB-0054	
Test Request Ref No : EMB-ENR-LB-0064-A		Section / Location :		(B1)	
Test Type		☐ Concret ☒ Soil ☐ Other			
Test Location		☐ In- ☒ Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
(-) لطيفة على مستوى من اللوحة (Sand Cone Test ASTM D1556) الطريق المخطط الرقعي (42+920) الى (43+000) بين الجسم القائم لاجرة لاسية لىة عن طريق المخطط الرقعي (0.50 متر مكعب)					
Consultant Comments					
Approved					
☒ Approved		☐ Resubmit As Noted		☐ Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor		Consultant			
Name :		Name :			
Signature :		Signature :			
Date :		Date :			

CONTRACTOR: 		CONSULTANT: 		OWNER: 									
TEST REQUEST													
Request Date : 16-08-2023		Submittal No :		EMB-ENR-1B-0064									
Test Request Ref No : EMB-ENR-1B-0064-A		Section / Location :		(B1)									
Test Type ☐ Concrete ☐ Soil ☐ Other		Test Location ☐ In-Site ☐ Out Site Lab ☐ Others											
Description		Ref. Attachment											
(0.50-) اختبار نسبة الماء الزائدة عن طريق الاختبار (Sand Cone Test ASTM D1556) لاختبار على مسلوب في المنطقة (A3+000) إلى (A2+920) من محطة مياه الجسر الثاني													
Consultant Comments													
(A) Approved													
Approval Status <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">A</td> <td style="width: 33%;">Approved</td> <td style="width: 33%;">C</td> <td style="width: 33%;">Resubmit As Noted</td> </tr> <tr> <td>B</td> <td>Approved As Noted</td> <td>D</td> <td>Rejected</td> </tr> </table>						A	Approved	C	Resubmit As Noted	B	Approved As Noted	D	Rejected
A	Approved	C	Resubmit As Noted										
B	Approved As Noted	D	Rejected										
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.													
Contractor Name : Signature : Date :		Consultant Name : Signature : Date :											

STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL
IN PLACE BY THE SAND-CONE METHOD
ACCORDING TO ASTM D1556

Testing Date: 16-08-2023

Date: 17/8/2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: B-1- From Station 42+920 TO 43+000

Level: Embankment (-0.50)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
42+920	2.017	11.9	1.803	1.885	95.7
42+970	2.071	12.5	1.840	1.885	97.6
43+000	2.057	12.4	1.830	1.885	97.1

The samples Is **COMPLYING** with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech: Mohamed Afify

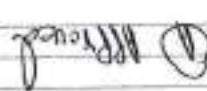
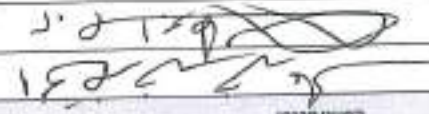
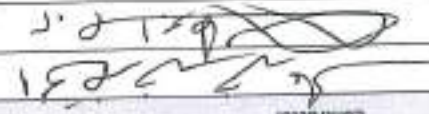
Checked by Lab Engineer

Approved by Project Manager

Prepared by D.C: Mohamed Salah

Eng. El Khedr Abotalib

Eng. Hossam Ismail

CONTRACTOR: 		CONSULTANT: 		OWNER: 	
TEST RESULT					
Request Date : 18-08 - 2023		Submittal No :		EMB-ENR-LB-0065 / 7.1	
Test Request Ref No : EMB-ENR-LB-0065-A		Section / Location :		(B1)	
Test Type		☐ Concrete ☐ Soil ☐ Other			
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others			
Description Ref. Attachment		(-) لطيفة على منسوب في الطريق (Sand Cone Test ASTM D1556) الرمي (42+920) أي (43+000) محطة (0.25 نقطة اختبار نسبة الماء الزائدة عن طريق المخروط الرمي			
Consultant Comments					
					
Approval Status					
☒ Approved		☐ Approved As Noted		☐ Rejected	
Note: The above works have been approved according to the project specification, approved workshop drawings and contract documents.					
Contractor Name :  Signature :  Date : 0.5.2023-18		Consultant Name :  Signature :  Date : 0.5.2023-18			

CONTRACTOR		CONSULTANT		OWNER	
					
TEST REQUEST					
Request Date : 17-08-2023		Submital No :		EMB-ENR-LB-0065	
Test Request Ref No : EMB-ENR-LB-0065-A		Section / Location :		(B1)	
Test Type ☐ Concrete ☒ Soil ☐ Other		Test Location ☐ In- ☒ Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachement			
(0.25-) التربة على مستوى على سطح (Sand Cone Test ASTM D1556) الرمي (42+920) إلى (43+000) من محطة (اختبار نسبة الماء الزائدة عن طريق المنحروط الرمي)					
Consultant Comments					
(A) MRP					
Approval Status					
☒ Approved		☐ Approved As Noted		☐ Rejected	
☐ Resubmit As Noted					
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.					
Contractor		Consultant			
Name :		Name :		Name :	
Signature :		Signature :		Signature :	
Date :		Date :		Date :	



المركز الوطني للمعايير والتقنية
إدارة معمل الصلابة عوف

المعيار (GAST) لاختبار
الكثافة والكثافة الجافة



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 17-08-2023

Date: 18/8/2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: B-1- From Station 42+920 TO 43+000

Level: Embankment (-0.25)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
42+920	2.165	6.4	2.036	2.090	97.4
42+970	2.151	5.7	2.034	2.090	97.3
43+000	2.168	6.4	2.037	2.090	97.5

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech: Mohamed Afify

Checked by Lab Engineer

Approved by Project Manager

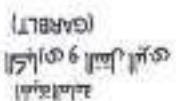
Prepared by D.C: Mohamed Salah

Eng. El-Rashedr Abotalib

Eng. Hossam Ismail



الهيئة العامة للطرق والنقل
إدارة هندسة الطرق



إدارة الموانئ والملاحة
(GABRI)



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 20-08-2023

Date: 21/8/2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: B-1- From Station 42+820 TO 43+000

Level: Embankment (-0.00)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
42+820	2.173	6.4	2.043	2.090	97.8
42+870	2.182	5.9	2.060	2.090	98.6
42+920	2.168	6.2	2.042	2.090	97.7
42+970	2.146	6.0	2.025	2.090	96.9
43+000	2.154	6.0	2.032	2.090	97.2

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

Approved by Project Manager

Prepared by D.C: Mohamed Salah

Eng. El Kheir Abotalib

Eng. Hossam Ismail



المركز الوطني للمختبرات الهندسية
14/ محمد السادس جولة



المركز الوطني للمختبرات الهندسية
(GARBLT)
للطرق والكباري والبنى التحتية



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 03-10-2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: B-1- From Station 39+920 TO 40+200

Level: Lower Embankment (-0.40)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
39+920	2.069	11.0	1.863	1.940	96.1
39+970	2.036	10.6	1.841	1.940	94.9
40+020	2.081	9.6	1.899	1.940	97.9
40+070	2.041	9.1	1.870	1.940	96.4
40+120	2.079	9.6	1.896	1.940	97.7
40+170	2.049	9.6	1.870	1.940	96.4
40+200	2.060	9.8	1.877	1.940	96.7

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech. Mohamed Afify

Checked by Lab Engineer

Approved by Project Manager

Prepared by D.C: Mohamed Salah

Eng. El Khedr Abotalib

Eng. Hossam Ismail



المركز القومي للمهندسين
البريد الإلكتروني: info@swaft.gov.eg



الهيئة العامة
للحرف والصناعات
(GARBLT)



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 09-10-2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: B-1- From Station 39+920 TO 40+200

Level: Embankment (-0.25)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
39+920	2.184	5.5	2.070	2.090	99.0
39+970	2.161	5.3	2.052	2.090	98.2
40+020	2.151	6.0	2.030	2.090	97.1
40+070	2.140	5.5	2.028	2.090	97.0
40+120	2.147	5.6	2.034	2.090	97.3
40+170	2.143	6.1	2.020	2.090	96.7
40+200	2.167	5.7	2.049	2.090	98.1

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

Approved by Project Manager

Prepared by D.C: Mohamed Salah

Eng. ENKhedr Abotalib

Eng. Hossam Ismail



المركز القومي للمهندسين
البريد الإلكتروني: info@smarft.com
أ/د محمد الصافي عوف



الجمعية الوطنية للمهندسين
(IGABLT)



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL
IN PLACE BY THE SAND-CONE METHOD
ACCORDING TO ASTM D1556

Testing Date: 16-10-2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: B-1- From Station 39+560 TO 39+740

Level: Lower Embankment (-1.00)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
39+560	1.529	11.7	1.369	1.492	91.8
39+610	1.554	11.5	1.394	1.492	93.4
39+660	1.564	11.9	1.397	1.492	93.6
39+710	1.578	11.1	1.421	1.492	95.2
39+740	1.538	11.6	1.379	1.492	92.4

The samples Is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

Approved by Project Manager

Prepared by D.C: Mohamed Salah

Eng. El Khedr Abotalib

Eng. Hossam Ismail

Handwritten signature



المركز الوطني للأمن وإدارة الأزمات
إدارة أمن المرافق



الهيئة العامة للغذاء والدواء
(GARBLT)



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 24-10-2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: B-1- From Station 39+740 TO 39+920

Level: Embankment (-0.00)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
39+740	2.166	6.4	2.036	2.090	97.4
39+790	2.155	6.4	2.026	2.090	97.0
39+840	2.139	6.2	2.015	2.090	96.4
39+890	2.161	6.2	2.036	2.090	97.4
39+920	2.127	6.0	2.007	2.090	96.0

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

Eng. El Khedr Abotalib

Prepared by D.C: Mohamed Salah

Handwritten signature

Eng. Hossam Ismail

Approved by Project Manager

STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL
IN PLACE BY THE SAND-CONE METHOD



(1789)



Approved by Project Manager

STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL
IN PLACE BY THE SAND-CONE METHOD
ACCORDING TO ASTM D1556

Date: 9/10/2023

Testing Date: 08-10-2023

Description of Tested Material:	Sand & Gravel Soil
1. Soil type	Sand & Gravel
2. Soil color	Light Brown
3. Soil texture	Coarse
4. Soil moisture	Dry
5. Soil compaction	Medium
6. Soil strength	Low
7. Soil permeability	High
8. Soil settlement	Low
9. Soil erosion	Medium
10. Soil stability	Low
11. Soil consolidation	Medium
12. Soil compression	Low
13. Soil expansion	Medium
14. Soil shrinkage	Low
15. Soil swelling	Medium
16. Soil creep	Low
17. Soil settlement	Low
18. Soil erosion	Medium
19. Soil stability	Low
20. Soil consolidation	Medium
21. Soil compression	Low
22. Soil expansion	Medium
23. Soil shrinkage	Low
24. Soil swelling	Medium
25. Soil creep	Low
26. Soil settlement	Low
27. Soil erosion	Medium
28. Soil stability	Low
29. Soil consolidation	Medium
30. Soil compression	Low
31. Soil expansion	Medium
32. Soil shrinkage	Low
33. Soil swelling	Medium
34. Soil creep	Low
35. Soil settlement	Low
36. Soil erosion	Medium
37. Soil stability	Low
38. Soil consolidation	Medium
39. Soil compression	Low
40. Soil expansion	Medium
41. Soil shrinkage	Low
42. Soil swelling	Medium
43. Soil creep	Low
44. Soil settlement	Low
45. Soil erosion	Medium
46. Soil stability	Low
47. Soil consolidation	Medium
48. Soil compression	Low
49. Soil expansion	Medium
50. Soil shrinkage	Low
51. Soil swelling	Medium
52. Soil creep	Low
53. Soil settlement	Low
54. Soil erosion	Medium
55. Soil stability	Low
56. Soil consolidation	Medium
57. Soil compression	Low
58. Soil expansion	Medium
59. Soil shrinkage	Low
60. Soil swelling	Medium
61. Soil creep	Low
62. Soil settlement	

Source and Coordinates of Sample: A-5- From Station (38+320) TO (38+360).

Level: Embankment (-0.00) from Forma

[illegible]

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Lower Embankment Subgrade Bed.

Tested by Tech.: Mohamud Afify

Checked by Lab Engineer

Approved by Project Manager

Eng. Hossam Ismail

Eng. El Khedr Abotalib

Prepared by D.C: Mohamed Salah



الهيئة العامة للغذاء والدواء
البحرين



الهيئة العامة للغذاء والدواء
البحرين (GABRI)



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 30-10-2023

Description of Tested Material: Sand & Gravel Soil

Source and Coordinates of Sample: B-1- From Station 39+560 TO 39+740

Level: Embankment (-0.00)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
39+560	2.160	5.9	2.039	2.090	97.6
39+610	2.153	6.2	2.028	2.090	97.0
39+660	2.159	6.4	2.029	2.090	97.1
39+710	2.150	6.2	2.025	2.090	96.9
39+740	2.156	6.2	2.030	2.090	97.1

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech: Mohamed Afify

Checked by Lab Engineer

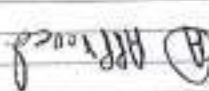
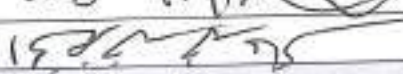
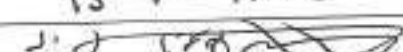
Approved by Project Manager

Prepared by D.C: Mohamed Salah

Eng. El Kheider Abotalib

Eng. Hossam Ismail

قرارير الاختيار ات العملية علي طلبة الاساس

					
CONTRACTOR:		CONSULTANT:		OWNER:	
TEST RESULT					
Request Date : 21-08 - 2023		Submittal No. :		EMB-ENR-LB-0066	
Test Request Ref No. : EMB-ENR-LB-0066-A		Section / Location :		(01)	
Test Type		☐ Concrete ☐ Soil ☐ Other			
Test Location		☐ In- ☐ Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
نتيجة اختبار لمدى التربة عن طريق المنروط (الرملي) (Sand Cone Test ASTM D1556) لطبقة على مستوى من الأرضية (43+800) إلى (43+540) محطة (0.20+)					
Consultant Comments					
					
Approval Status					
☒ Approved		☐ C		☐ Resubmit As Noted	
☐ B		☐ D		☐ Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor		Consultant			
Name :					
Signature :					
Date :	21-08-2023				

							
OWNER		CONSULTANT		OWNER		CONSULTANT	
TEST REQUEST							
Request Date : 20-08-2023				Submital No :			
Test Request Ref No : EMB-ENR-LB-0066-A				Section / Location :			
Test Type				Test Location			
☐ Concrete ☐ Soil ☐ Other				☐ In-Site ☐ Out Site Lab ☐ Others			
Description				Ref. Attachment			
(0.20+) لطيفة على مستوى الطريق (Sand Cone Test ASTM D1556) (43+800) إلى محطة (43+540) من محطة اختبار لاسية لثربة من طريق المشروع							
Consultant Comments							
Approval Status							
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents							
Contractor		Consistent		Name :		Date :	
Signature :		Signature :		Signature :		Signature :	
Date :		Date :		Date :		Date :	



الهيئة العامة للمياه والكهرباء
الوطني للخدمات العامة

(GARBLT)

للإدارة العامة
للبنية التحتية والكهرباء



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 20-08-2023

Date: 21/8/2023

Description of Tested Material: Aggregate

Source and Coordinates of Sample: B-1- From Station 43+540 TO 43+800

Level: Top layer (+0.20)

Point No.	Bulk Density (gm/cm^3)	Moisture Content (%)	In situ Dry Density (gm/cm^3)	Maximum Dry Density (gm/cm^3)	Relative Compaction (%)
43+540	2.367	5.7	2.239	2.317	96.6
43+590	2.391	6.4	2.248	2.317	97.0
43+640	2.363	6.0	2.230	2.317	96.3
43+690	2.395	5.5	2.270	2.317	98.0
43+740	2.385	5.8	2.255	2.317	97.3
43+800	2.154	6.7	2.018	2.317	87.1

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

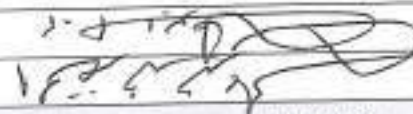
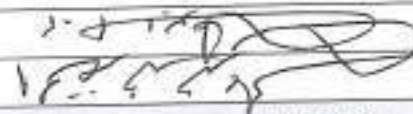
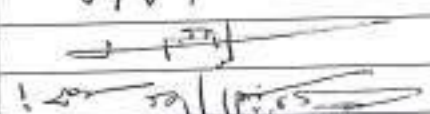
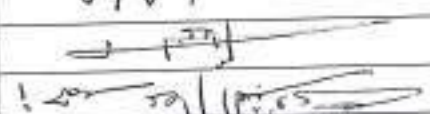
Approved by Project Manager

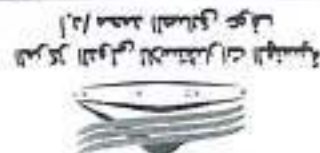
Prepared by D.C: Mohamed Salah

Eng. El Khedr Abotalib

Eng. Hossam Ismail

[illegible]

ATTORNEY: 		CONSULTANT:  وزارة التخطيط والتنمية الاقتصادية (MPEDEV)		OWNER:  وزارة الإسكان والتخطيط العمراني (MHP)	
TEST REQUEST					
Request Date : 08-08-2023		Submital No :		EMB-ENR-LB-0057	
Test Request Ref No : EMB-ENR-LB-0057-A		Section / location :		(B1)	
Test Type		☐ Concrete ☐ Soil ☐ Other			
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
(0.20+) لطيفة على مستوى من الأرضية (Sand Cone Test ASTM D1556) الرطب (43+080) إلى (43+300) بين الجسر القديم. اختبار لسعة الأرضية عن طريق المخروط الرطب					
Consultant Comments					
⑪ Approved					
Approval Status					
⑤ Approved		C Resubmit As Noted			
B Approved As Noted		D Rejected			
Note: The above works have been approved according to the project specification, approved workshop drawings and contract documents					
Contractor Name :  Signature :  Date : C-XX-V-V		Consultant Name :  Signature :  Date : C-XX-V-V			



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Date: 9/8/2023

Testing Date: 08-08-2023
Description of Tested Material: Aggregate
Source and Coordinates of Sample: B-1- From Station 43+080 TO 43+300

Level: Top layer (+0.20)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
43+080	2.367	5.9	2.234	2.317	96.4
43+130	2.391	5.9	2.257	2.317	97.4
43+180	2.363	6.2	2.226	2.317	96.1
43+230	2.395	6.0	2.261	2.317	97.6
43+300	2.385	6.0	2.250	2.317	97.1

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

Eng. El Khedr Abotalib

Prepared by D.C: Mohamed Salah

Approved by Project Manager

Eng. Hosam Ismail



الهيئة العامة للغذاء والدواء
البحرين



الهيئة العامة للغذاء والدواء
البحرين



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 26-09-2023

Date: 27/9/2023

Description of Tested Material: Aggregate

Source and Coordinates of Sample: B-1- From Station 43+960 TO 44+360

Level: Top layer (+0.20)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
43+960	2.395	5.7	2.265	2.317	97.8
44+010	2.391	6.4	2.248	2.317	97.0
44+060	2.363	6.0	2.230	2.317	96.3
44+110	2.395	5.5	2.270	2.317	98.0
44+160	2.385	5.8	2.255	2.317	97.3
44+210	2.385	6.7	2.235	2.317	96.4
44+260	2.370	5.7	2.242	2.317	96.7
44+310	2.387	6.8	2.236	2.317	96.5
44+360	2.380	6.1	2.244	2.317	96.9

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

Approved by Project Manager

Prepared by D.C: Mohamed Salah

Eng. El Khedr Abotalib

Eng. Hossem Ismail



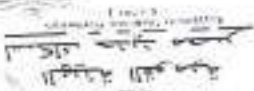
الهيئة العامة للغذاء والدواء
الجمهورية العربية السورية



(GABRIEL)



المجلس الأعلى للمياه
الجمهورية العربية السورية



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 27-09-2023

Description of Tested Material: Aggregate

Source and Coordinates of Sample: B-1- From Station 43+540 TO 43+960

Level: Top layer (+0.20)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
43+540	2.384	5.9	2.250	2.317	97.1
43+590	2.397	6.4	2.254	2.317	97.3
43+640	2.363	6.6	2.217	2.317	95.7
43+690	2.395	6.4	2.252	2.317	97.2
43+740	2.385	6.0	2.250	2.317	97.1
43+790	2.385	6.3	2.244	2.317	96.8
43+840	2.370	6.4	2.228	2.317	96.2
43+890	2.387	6.8	2.236	2.317	96.5
43+960	2.380	6.9	2.226	2.317	96.1

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

Approved by Project Manager

Prepared by D.C: Mohamed Salah

Eng. El Khedr Abotalib

Eng. Hossam Ismail



(GABLT)

ନାମ ଓ ଗ୍ରାମ ନାମ
ପଞ୍ଜୀକରଣ

[illegible]

ACCORDING TO ASTM D1556

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
			1.342	1.317	97.0

43+300	2.375	5.7	2.241	2.317	97.8
43+350	2.397	5.7	2.267	2.317	97.8
43+400	2.391	5.5	2.265	2.317	97.8
43+460	2.395	6.0	2.261	2.317	97.6

* minimum limit for compaction ratio $K \geq 0.95$ for Embankment Under Subgrade Bed

Eng. Hossein Ismail



الهيئة العامة للغذاء والدواء
البحرين



الهيئة العامة للغذاء والدواء
البحرين



الهيئة العامة للغذاء والدواء
البحرين

STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL IN PLACE BY THE SAND-CONE METHOD ACCORDING TO ASTM D1556

Date: 9/10/2023

Testing Date: 08-10-2023

Description of Tested Material: Aggregate

Source and Coordinates of Sample: A-5- From Station (38+360) TO (38+820).

Level: Top Layer Subgrade (+0.20)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
38+360	2.400	6.4	2.256	2.300	98.1
38+410	2.415	6.2	2.275	2.300	98.9
38+460	2.377	5.8	2.248	2.300	97.7
38+510	2.376	6.0	2.243	2.300	97.5
38+560	2.372	6.2	2.233	2.300	97.1
38+610	2.393	5.9	2.260	2.300	98.3
38+660	2.403	6.2	2.264	2.300	98.4
38+710	2.392	6.3	2.250	2.300	97.8
38+760	2.392	6.1	2.255	2.300	98.1
38+820	2.385	6.5	2.240	2.300	97.4

The samples is COMPLYING with the Project Specifications which allows a minimum limit for compaction ratio $K \geq 0.95$ for Top Layer Subgrade Bed.

Tested by Tech.: Mohamed Afify
Checked by Lab Engineer
Eng. El Khedr Abotalib
Prepared by D.C: Mohamed Salah
Approved by Project Manager
Eng. Hosam Ismail

[illegible]

ACCORDING TO ASTM D1556

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
38+000	2.400	5.9	2.265	2.300	98.5
38+050	2.415	6.4	2.270	2.300	98.7
38+100	2.377	6.0	2.243	2.300	97.5
38+150	2.376	6.2	2.238	2.300	97.3
38+200	2.372	6.0	2.238	2.300	97.3



1/2/11

ପ୍ରା. ୬ ଓ ୭



STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556

Testing Date: 24-08-2023

Date: 25/8/2023

Description of Tested Material:

Source and Coordinates of Sample: A-5-From Station (38+200) TO (38+320).

Level: Top Layer Subgrade (+0.20)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
38+200	2.400	5.7	2.270	2.300	98.7
38+250	2.400	5.9	2.265	2.300	98.5
38+300	2.377	5.8	2.248	2.300	97.7
38+320	2.391	6.0	2.257	2.300	98.1

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Lower Embankment Subgrade Bed.

Tested by Tech.: Mohamed Afify

Checked by Lab Engineer

Approved by Project Manager

Prepared by D.C. Mohamed Salah

Eng. El Khedr Abotaleb

Eng. Hossam Ismail

STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL

IN PLACE BY THE SAND-CONE METHOD

ACCORDING TO ASTM D1556



السلطة العامة
للحرق والكهرباء والمياه
(GAWS)



Testing Date: 24-08-2023

Date: 25/8/2023

Description of Tested Material: Aggregate

Source and Coordinates of Sample: A-5- From Station (38+360) TO (38+760).

Level: Top Layer Subgrade (+0.20)

Point No.	Bulk Density (gm/cm ³)	Moisture Content (%)	In situ Dry Density (gm/cm ³)	Maximum Dry Density (gm/cm ³)	Relative Compaction (%)
38+360	2.400	6.4	2.256	2.300	98.1
38+410	2.415	6.2	2.275	2.300	98.9
38+460	2.377	6.0	2.243	2.300	97.5
38+510	2.416	6.4	2.271	2.300	98.7
38+560	2.348	5.6	2.224	2.300	96.7
38+610	2.393	7.0	2.237	2.300	97.3
38+660	2.403	6.2	2.264	2.300	98.4
38+710	2.392	6.3	2.250	2.300	97.8
38+760	2.392	6.1	2.255	2.300	98.1

The samples is COMPLYING with the Project Specifications which allows

a minimum limit for compaction ratio $K \geq 0.95$ for Lower Embankment Subgrade Bed.

Checked by Lab Engineer

Approved by Project Manager

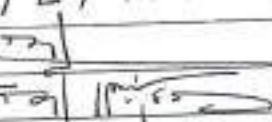
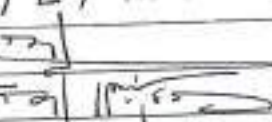
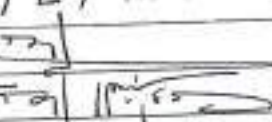
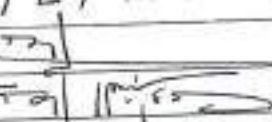
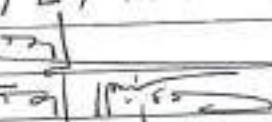
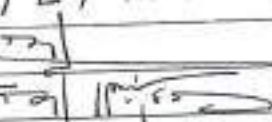
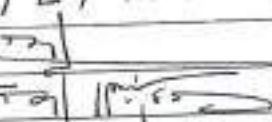
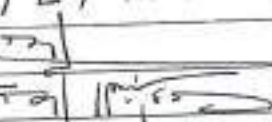
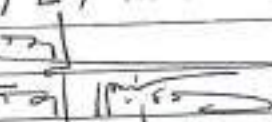
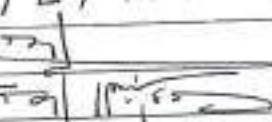
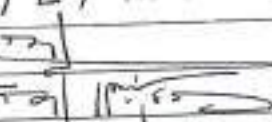
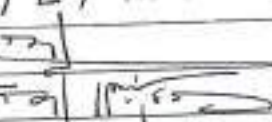
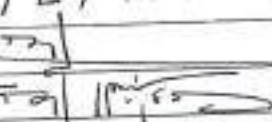
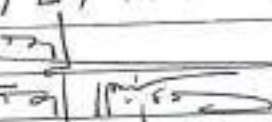
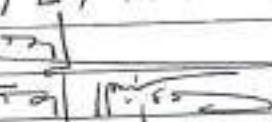
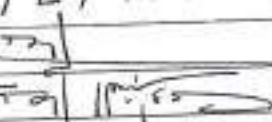
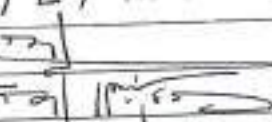
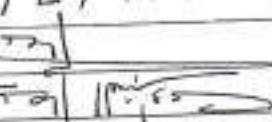
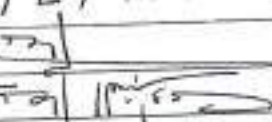
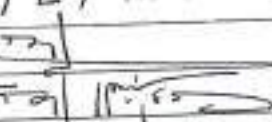
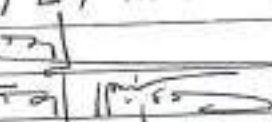
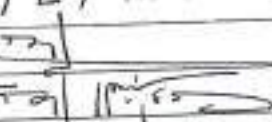
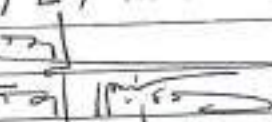
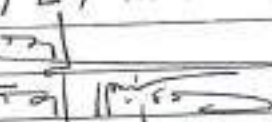
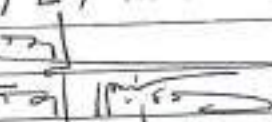
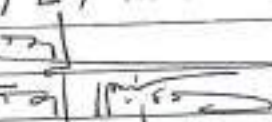
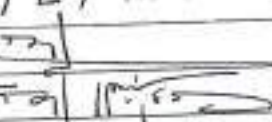
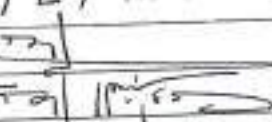
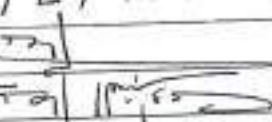
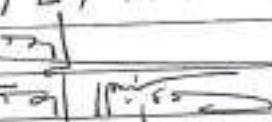
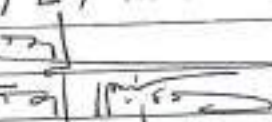
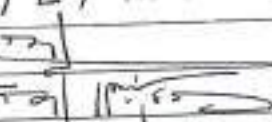
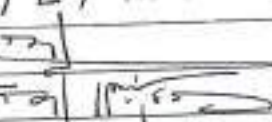
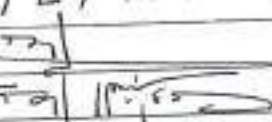
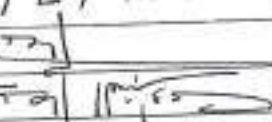
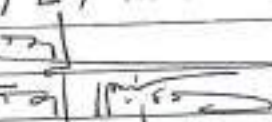
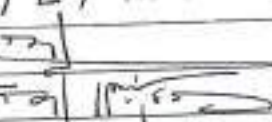
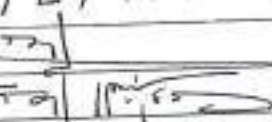
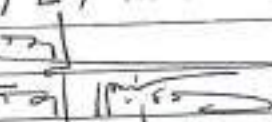
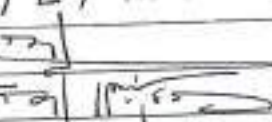
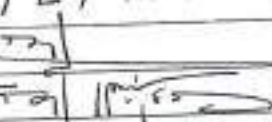
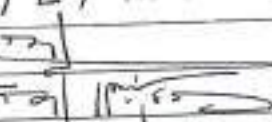
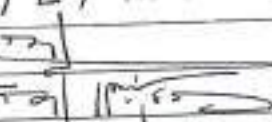
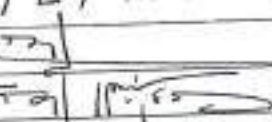
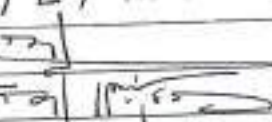
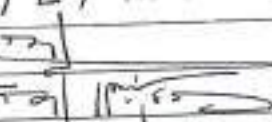
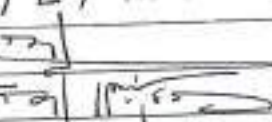
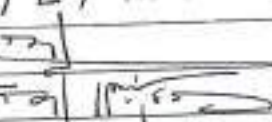
Tested by Tech.: Mohamed Afify

Eng. El Khedr Abotalib

Eng. Hossam Ismail

Prepared by D.C: Mohamed Salah

تقارير الاختبارات العملية علي صلاحيات الواد والاثرية

							
OWNER:		CONSULTANT:		CONTRACTOR:			
مشروع لإنتاج مياه الشرب على المنحدر / الريفي TEST RESULT							
Request Date : 08-05-2023		Submital No :		EIMB-ENR-LB-006		(Bt)	
Test Request Ref No : EMB-ENR-LB-006-A		Section / Location :					
Test Type		☐ Soil ☐ Concrete ☐ Other		☐ In-Site ☐ Out Site Lab ☐ Others		Ref. Attachment	
Description		(43+500) عند مدخل (43+900) أي (40+460) من (Stock Pile) الجريد من الجريد من (43+500)					
Consultant Comments							
(A) Approved							
Approval Status Approved ☒ Resubmit As Noted ☐ Rejected ☐ Approved As Noted ☐ Rejected ☐							
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	
							
Contractor		Name:		Signature:		Date:	

TEST REQUEST		مطلب اختبار / Request	
Request Date : 03-06-2023		Subject No :	
Test Request Ref No : EMB-ENR-LB-006-A		Section / Location :	
Test Type ☐ Soil ☐ Concrete ☐ Other		Test Location ☐ In-Situ ☐ Out Site Lab ☐ Others	
Description		Ref. Attachments	
اختبار صلاحيته من التربة (Stock Pile) من (40+460) إلى (43+500) على جدول (43+500)			
Consultant Comments			
Approval Status			
☒ Approved ☐ Approved As Noted ☐ Rejected		☐ Approved ☐ Rejected As Noted ☐ Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.			
Contractor		Consultant	
Name :		Name :	
Signature :		Signature :	
Date :	2023-06-03	Date :	2023-06-03



CONSULTANT



المجلس
الاقتصادي
والإستراتيجي
(GAPELT)



PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
AASHTO T 27 & ASTM C 136

Date: 08/06/2023

Project: جدات 2023 / الجسر على مجرى

Sample delivery date: 03/06/2023

Sample Identification No. : Sample No.06 (Aggregate)

Source of sample: Section B1 Stock pile at St (43+500)

Level (m) : Stock Pile

Classification According to AASHTO:

Type I - Grade B

Percentage of materials finer than # 200:

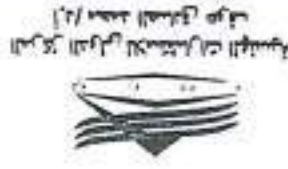
11.0%

Sieve	Opening	Percentage	Notes
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	92.3	
1 in.	25	57.5	
3/4 in.	19	55.6	
1/2 in.	12.5	40.7	
3/8 in.	9.5	40.2	
No. 4	4.75	34.0	
No. 10	2.0	24.4	
No. 40	0.425	14.6	
No. 200	0.075	11.0	

Notes:-

Prepared by : Eng.El Khedr Abu Talib

Reviewed by : Eng.Hossam Ismail



الجمعية الفلسطينية
للبناة والكباري والنقل البري
(GARBLT)



LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
ACCORDING TO ASTM D4318

Project: السكة الحديد على محور/الزيتي
Date: 08/06/2023

Sample delivery date: 03/06/2023
Sample Identification No.: Sample No.06 (Aggregate)
Source of sample: Section B1 Stock pile at Sr (43+500)
Level (m): Stock Pile
Classification According to AASHTO: Type I - Grade B

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No.06 (Aggregate)	N.P.	N.P.	N.P.

Notes:-

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Hossam Ismail

File

10

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Hossam Ismail

Notes:-

Sample Identification No.	Aggregate Abrasion Ratio Value
Sample No.06 (Aggregate)	33%

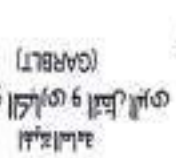
Project: خط أنفاق المترو على مستوى / الترميز : 08/06/2023
Sample delivery date: 03/06/2023
Sample Identification No. : Sample No.06 (Aggregate)
Source of sample: Section B1 Stock pile at St (43+500)
Level (m) : Stock Pile
Classification According to AASHTO: Type I - Grade B

LOS ANGELES ABRASION VALUE OF AGGREGATE
ACCORDING TO AASHTO T 96-02(2006)



إدارة الطرق والكبارى والنقل البرى
(GARBLT)



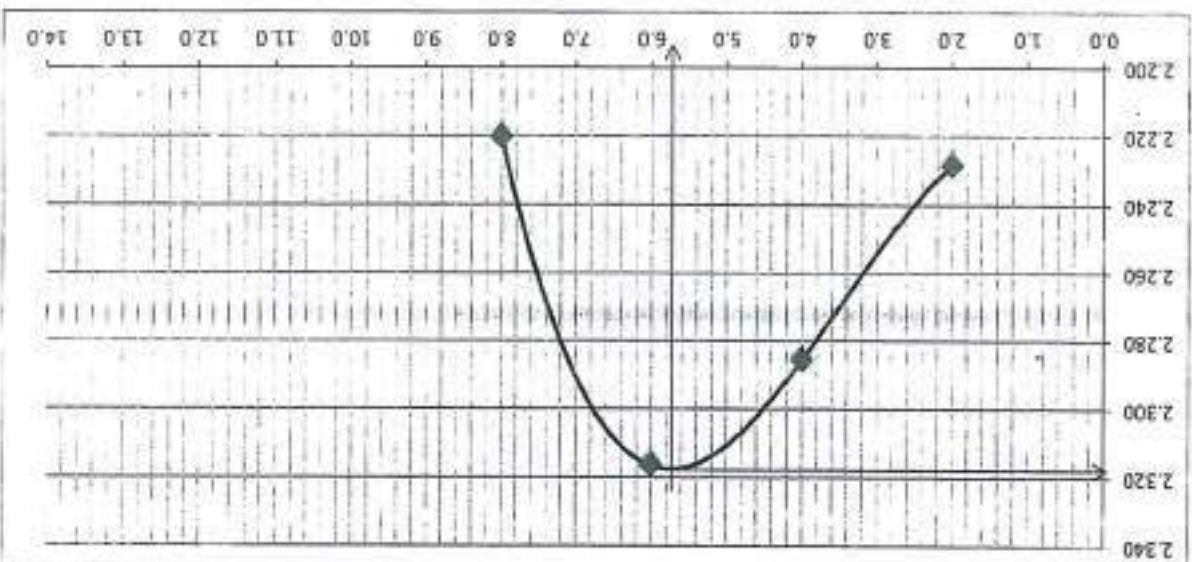


MOISTURE DENSITY RELATIONSHIP OF SOIL
ACCORDING TO ASTM D 1557

Project: دراسة المسح الجيوتقني للمشاريع العمرانية في الأردن / Geotechnical Survey of Urban Projects in Jordan
Date: 6/8/2023

Sample delivery date: 03/06/2023
Sample Identification No.:
Sample No.06 (Aggregate)
Source of sample: Section B1 Stock pile at St (43+500)
Level (m): Stock Pile

Wet Unit Weight, g/cm ³	Water Content, %	Dry Unit Weight, g/cm ³
2.273	2.0	2.229
2.377	4.0	2.286
2.456	6.0	2.317
2.398	8.0	2.220



Result (s):

- 1- Maximum dry density = 2.317 g/cm³
- 2- Optimum moisture content = 5.70 %

Note (s):

Prepared by: Eng. El Khedr Abu Tallb

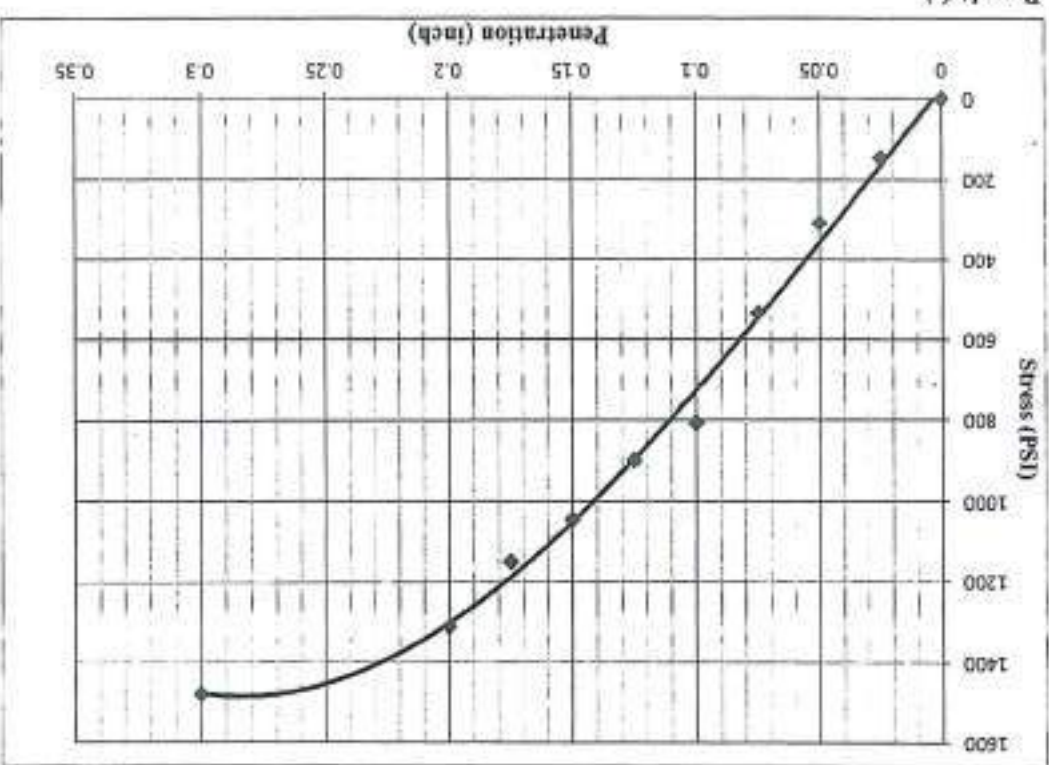
Reviewed by: Eng. Hosam Ismail

Reviewed by : Eng. Hossam Ismail

Prepared by : Eng. El Khedr Abu Talib

Note (s):

Result (s):
 CBR at 0.1 Inch = 80.6 %
 CBR at 0.2 Inch = 87.4 %



Level (m) : Stock Pile
 Source of sample: Section B1 Stock pile at St (43+500)
 Sample Identification No. : Sample No.06 (Aggregate)
 Sample delivery date: 03/06/2023
 Project: طريق مصر - السويس / السويس / مصر
 Date: 6/8/2023

CBR OF LABORATORY-COMPACTED SOILS
 ACCORDING TO ASTM D 1883



Name :		Contractor		Name :		Consultant	
Signature :		[Signature]		Signature :		[Signature]	
Date :		2022-12-06		Date :		2022-12-06	

Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents

Approval Status	
A Approved	B Approved As Noted
C Resubmit As Noted	D Rejected

(A) Approved

Consultant Comments	

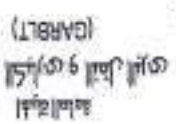
Request Date : 06-12-2022		Submital No :		EMB-ENR-LB-003	
Test Request Ref No : EMB-ENR-LB-003-A		Section / Location :		[81]	
Test Type		Test Location			
☐ Concrete ☐ Soil ☐ Other		☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
(43+820) الي (43+320) محطة (0.40) متر من مستوى الطريق على الجسر على الجسر (43+820) الي (43+320) محطة (0.40) متر من مستوى الطريق على الجسر على الجسر					

TEST RESULT

مشروع ارباج جاز السكة الحديد على الجسر / ارباج

 CONTRACTOR	 CONSULTANT	 OWNER
---	--	--

CONTRACTOR		CONSULTANT		OWNER	
					
TEST REQUEST					
Request Date : 01.12.2022					
Test Request Ref No : EMB-ENR-LB-003-A		Section / Location :			
Test Type		☐ Soil ☐ Other			
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
اختبار صلابة قاع الحفر على منسوب (0.40-) متر من محطة (43+320) الي (43+820) اختبار صلابة قاع الحفر على منسوب (0.40-) متر من محطة (43+320) الي (43+820)					
Consultant Comments					
Approval Status					
A		C		Rejected As Noted	
B		D		Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor		Consultant			
Name :		Name :			
Signature :		Signature :			
Date :		Date :			



PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Project: **خط أنابيب المياه الجديد على منحدر / الرويشي**
Date: 04/12/2022
Sample delivery date: 01/12/2022
Sample Identification No.: **Sample No. 3**
Source of sample: **Section B1 at St (43+320) to (43+820) Slab at St (43+400) & (43+700).**
Level (m): **FL (-0.40).**
Classification According to AASHTO: **A-2-4**
Percentage of materials finer than # 200: **16.4%**

Sieve	Opening	Percentage	Notes
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	99.5	
1 in.	25	99.5	
3/4 in.	19	99.4	
3/8 in.	9.5	99.2	
No. 4	4.75	98.7	
No. 10	2.0	98.1	
No. 40	0.425	68.3	
No. 200	0.075	16.4	

Notes:-

Prepared by : **Eng. El Khedr Abu Talib**

Reviewed by : **Eng. Hossam Ismail**

[Handwritten signature]

**LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
ACCORDING TO ASTM D4318**



Project: خط زلازل السعة الجديد على محور / البريهي / Date: 04/12/2022

Sample delivery date: 01/12/2022

Sample Identification No.: Sample No. 3

Source of sample: Section B1 at St (43+320) to (43+820) Slab at St (43+400) & (43+700).

Level (m): F.L (-0.40).

Classification According to AASHTO: A-2-4

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 3	28	23	5

Notes:-

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Hossem Ismail

Handwritten signature

MOISTURE DENSITY RELATIONSHIP OF SOIL

ACCORDING TO ASTM D 1557



Project: كذا مشروع السكة الحديديا بطريق /البريطاني

Date: 12/4/2022

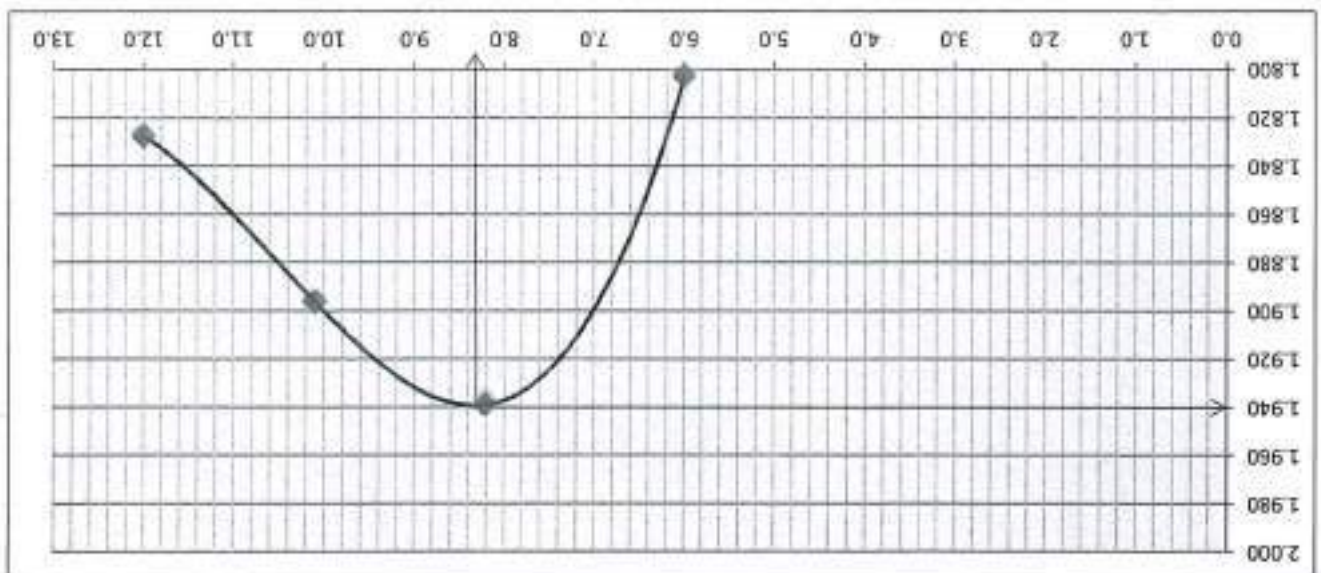
Sample delivery date: 01/12/2022

Sample Identification No.: Sample No. 3

Source of sample: Section B1 at St (43+320) to (43+820) Slab at St (43+400) & (43+700).

Level (m): F.L (-0.40).

Wet Unit Weight, g/cm ³	Water Content, %	Dry Unit Weight, g/cm ³
1.911	6.0	1.803
2.098	8.2	1.939
2.088	10.1	1.896
2.047	12.0	1.828



Result (s):

1- Maximum dry density = 1.940 t/m³
2- Optimum moisture content = 8.30 %

Note (s):

Prepared by : Eng. El Kheir Abu Talib

Reviewed by : Eng. Hossam Ismail

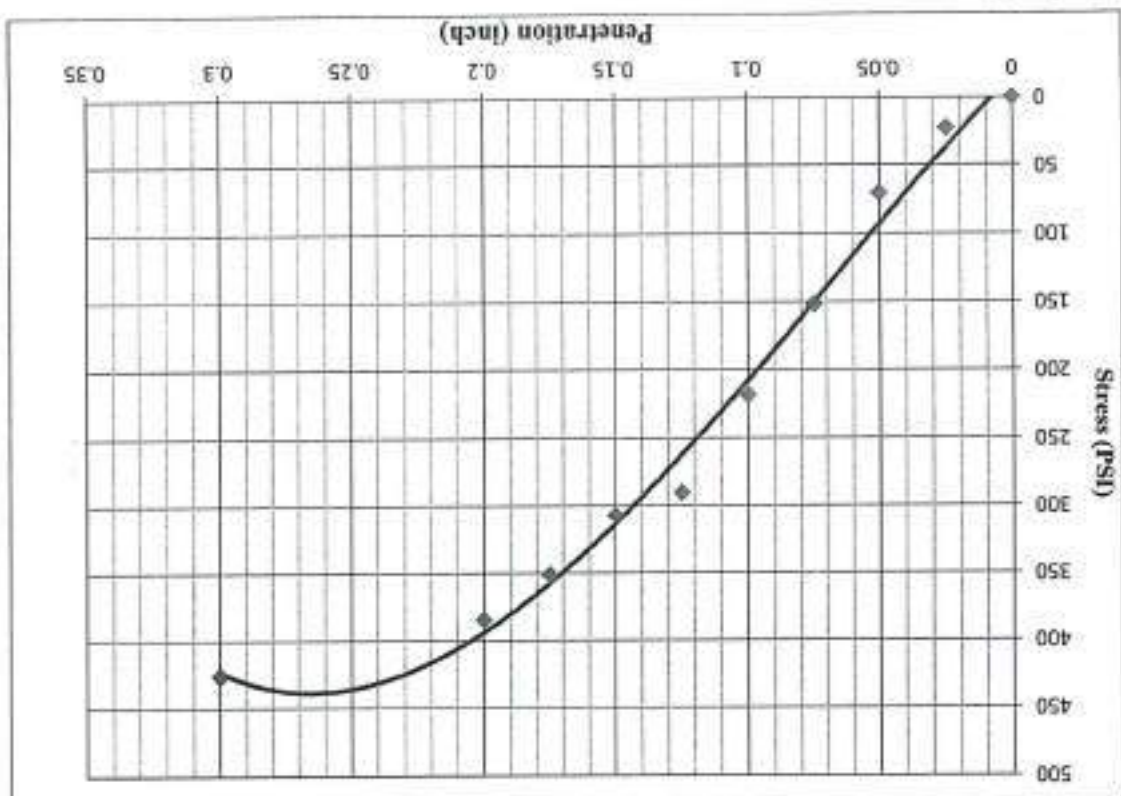
Reviewed by : Eng. Hossam Ismail

Prepared by : Eng. El Khedr Abu Talib

Note (s):

CBR at 0.1 Inch = 21.8 %
CBR at 0.2 Inch = 25.7 %

Result (s):



Sample No. 2 F.L. (-0.40).

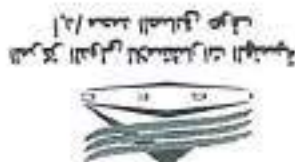
3/12/2022 Section B1 at St (43+320) to (43+820) Slab at St (43+400) & (43+71)

Sample Identification No. : Sample No. 3

Sample delivery date: 01/12/2022

Project: خط الجناح المسكة الحضرية على محور /الرومكى / Date: 12/4/2022

CBR OF LABORATORY-COMPACTED SOILS ACCORDING TO ASTM D 1883



إدارة
التخطيط والبناء
(GARBLT)

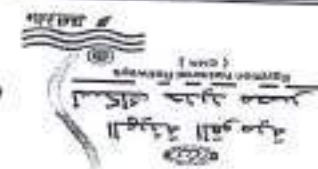


					
CONTRACTOR:		CONSULTANT:		OWNER:	
TEST RESULT					
Request Date : 03 - 02 - 2023		Submittal No :		EMB-ENR-LB-005	
Test Request Ref No : EMB-ENR-LB-005-A		Section / Location :		(A3)	
Test Type		☐ Concrete ☒ Soil ☐ Other			
Test Location		☐ In- ☒ Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
(40+920) الي (40+760) محطة (0.25-) من محطة اختبار صلاحية التربة على منسوب (40+920)					
Consultant Comments					
(B) Approved As Noted بتمت الموافقة على على ما ذكره الملاحظات					
Approval Status					
A Approved		C Resident As Noted			
B Approved As Noted		D Rejected			
Note: The above works have been approved according to the project specification, approved workshop drawings and contract documents.					
Contractor		Consultant			
Name :		Name :			
Signature :		Signature :			
Date :		Date :			

Date :		04-04-2023	
Signature :		[Signature]	
Name :		[Name]	
Consultant		Contractor	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.			
Approved As Noted		Approved	
Rejected		Resubmit As Noted	
Approval Status			
① Approved			
Consultant Comments			
Ref. Attachment		Description	
(B1)		اختبار صلابة الكرة على منسوب (0.25) م عمق (40+760) في (40+920)	
Test Location		☐ In- ☒ Site ☐ Out Site Lab ☐ Others	
Test Type		☐ Concret ☒ Soil ☐ Other	
Test Request Ref No : EMB-ENR-LB-005-A		Section / Location :	
Request Date : 02 - 02 - 2023		Submital No :	
EMB-ENR-LB-005		(B1)	
TEST REQUEST			
مخرج ادراج خط السكة الحديد من محور / الجولي			
			
			



إدارة الطرق والكباري والجسور (GARBLT)



PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Project: خط إزواج المسكة الجديد على محور / الروملي

Sample delivery date: 02/02/2022

Sample Identification No. : Sample No. 5

Source of sample: B1 at St (40+760) to (40+920) Stock at St (41+000) - Clay Minerals

Level (m) : -0.25

Classification According to AASHTO:

Percentage of materials finer than # 200:

Sieve	No.	Opening (mm)	Percentage	Description of Tested Material
	3 in.	75		Soil Classified as Clay Minerals
	2.5 in.	63.5		
	2 in.	50		
	1.5 in.	38		
	1 in.	25		
	3/4 in.	19		
	3/8 in.	9.5		
	No. 4	4.75		
	No. 10	2.0		
	No. 40	0.425		
	No. 200	0.075		

Notes:-

1- Not suitable for using because it is Rubbish Materials.

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Hossam Ismail

Date :		Date :	
Signature :		Signature :	
Name :		Name :	
Contractor		Consultant	

Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents

A	Approved	C	Resubmit As Noted
B	Approved As Noted	D	Rejected

Approval Status

④ Approved

لا يلزم إعادة التقديم

Consultant Comments	
	(43+000) إلى (42+820) متر من (0.00) مستوى على الطبيعة الأرضي، لطبقة صلاحيات الأرصفة
Ref. Attachments	

Request Date : 07-08-2023	Submital No :	E-MB-ENR-LB-010
Test Request Ref No : E-MB-ENR-LB-010-A		
Test Type	☐ Concrete ☒ Soil ☐ Other	
Test Location	☐ In-Site ☐ Out Site Lab ☐ Others	

	Description
Ref. Attachments	

TEST RESULT



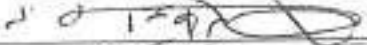
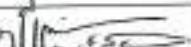
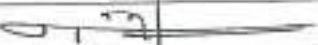
CONTRACTOR:



CONSULTANT:

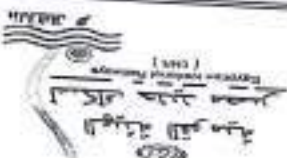


OWNER:

CONTRACTOR: 		CONSULTANT: 		OWNER: 	
TEST REQUEST					
Request Date : 02 - 08 - 2023		Submittal No :		EWS-ENR-LB-010	
Test Request Ref No : EWS-ENR-LB-010-A		Section / Location :		(B1)	
Test Type ☐ Concrete ☐ Soil ☐ Other		Test Location ☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
اختبار صلابة الأرض الطينية على مسلوب (0.00-1 متر من 42+820) إلى (43+000)					
Consultant Comments					
Approved					
Approval Status					
☒ Approved		☐ Resubmit As Noted			
☐ B		☐ D		☐ Rejected	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor Name :  Signature :  Date : 01/08/2023		Consultant Name :  Signature :  Date : 01/08/2023			



المملكة العربية السعودية
وزارة النقل والطرق
(GARBLT)



**PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve**
ASTM D - 422

Date: 07/08/2023

Project: الطرق الجديدة على محور / الرويفي
خط ازواج المسكة الجديد على محور

02/08/2023

Sample Identification No : Sample No. 10

Source of sample:

Section B1 at St from (42+820) to (43+000) Slab at st (42+900) and (43+000)

Level (m) :

(-0.00) m Upper Embankment

Classification According to AASHTO:

A-3

Percentage of materials finer than # 200:

9.3%

Sieve	Opening	No.	(mm)	Percentage	Passing %	Notes
3 in.	75	100.0				
2.5 in.	63.5	100.0				
2 in.	50	100.0				
1.5 in.	38	98.9				
1 in.	25	97.6				
3/4 in.	19	95.7				
1/2 in.	12.5	93.6				
3/8 in.	9.5	91.4				
No. 4	4.75	86.4				
No. 10	2.0	81.5				
No. 40	0.425	62.9				
No. 200	0.075	9.3				

Notes:-

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Hossam Ismail



الهيئة العامة
للنقل والموانئ
(GARLT)



LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
ACCORDING TO ASTM D4318

Date: 07/08/2023

Project: الطرق الجديدة على محور / الجديد

Sample delivery date: 02/08/2023

Sample Identification No. : Sample No. 10

Source of sample: Section B1 at St from (42+820) to (43+000) Slab at st (42+900) and (43+000)

Level (m) : (-0.00) m Upper Empankment

Classification According to AASHTO:

A-3

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 10	N.P.	N.P.	N.P.

Notes:-

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Hosam Ismail

MOISTURE DENSITY RELATIONSHIP OF SOIL

ACCORDING TO ASTM D 1557

Project: خط أنابيب المياه على المنحدر / Al-Rajhi

Date: 2023-08-07

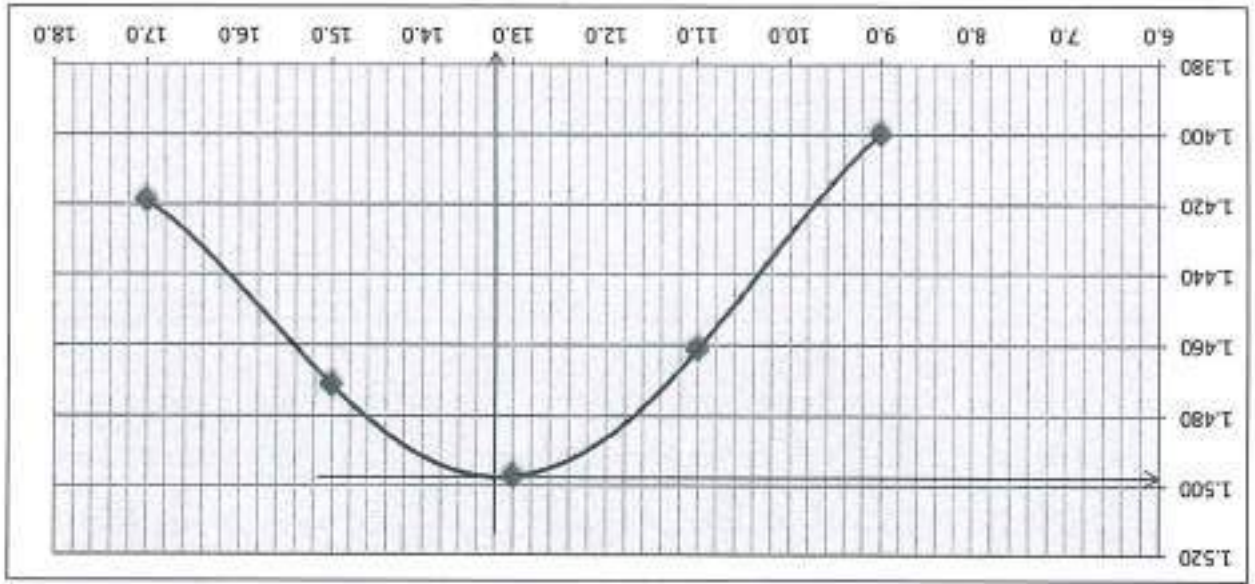
Sample delivery date: 02/08/2023

Sample Identification No.: Sample No. 10

Source of sample: Section B1 at St from (42+820) to (43+000) Slab at st (42+900) and (43+000)

Level (m): (-0.00) m Upper Embankment

Wet Unit Weight, g/cm ³	Water Content, %	Dry Unit Weight, g/cm ³
1.526	9.0	1.400
1.622	11.0	1.461
1.692	13.0	1.497
1.692	15.0	1.471
1.660	17.0	1.419



Result (s):

1- Maximum dry density = 1.495 t/m³

2- Optimum moisture content = 13.20 %

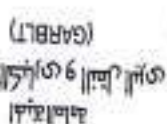
Note (s):

Prepared by: Eng. El Khedr Abu Talib

(Signature)

Reviewed by: Eng. Hossam Ismail

(Signature)



CBR OF LABORATORY-COMPACTED SOILS
ACCORDING TO ASTM D 1883

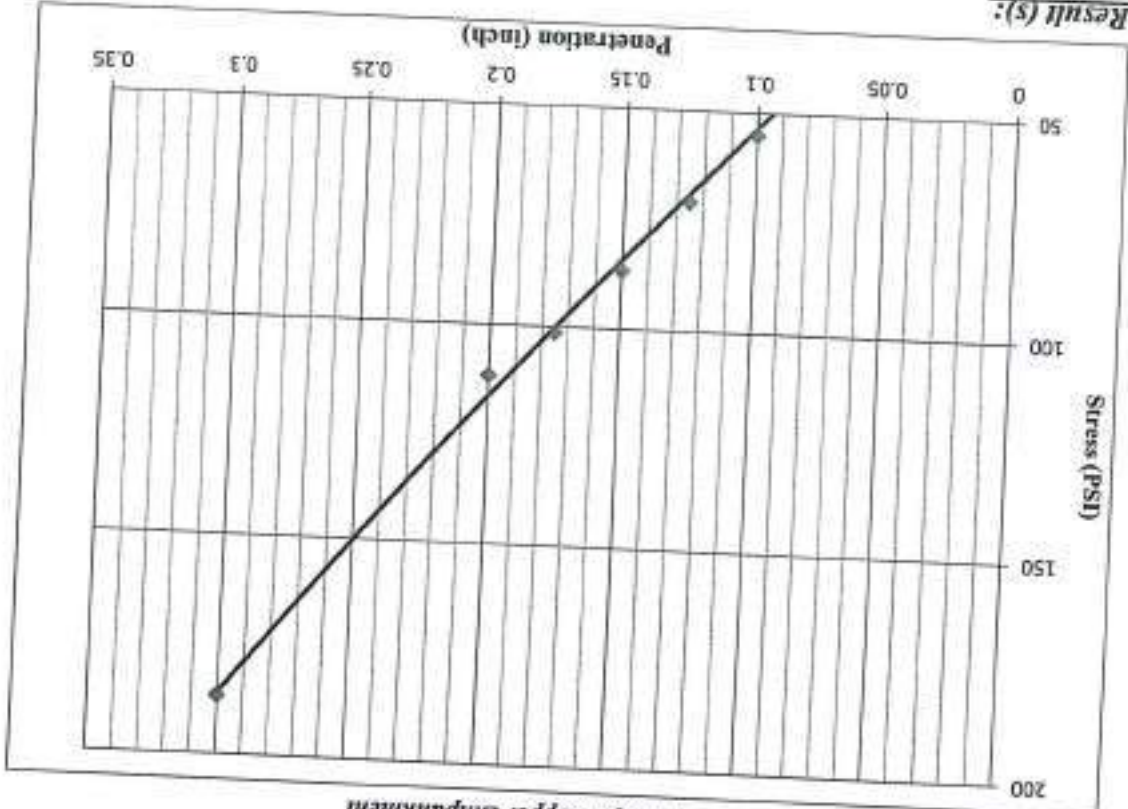
Project: **طريق لربوة الجديدة على محور /الربوة/ الجديد**

Sample delivery date: **02/08/2023**

Sample Identification No.: **Sample No. 10**

Source of sample: **Section B1 at Sl from (42+820) to (43+000) Slab at st (42+900) and (43+000)**

Level (m): **(-0.00) m Upper Embankment**



CBR at 0.1 Inch = **5.5 %**

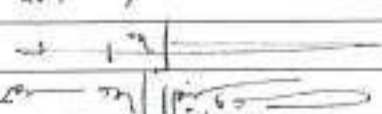
CBR at 0.2 Inch = **7.4 %**

Note (s):

Prepared by: **Eng. El Khedr Abu Talib**

Reviewed by: **Eng. Hossam Ismail**

							
OWNER:		CONSULTANT:		DATE:		PROJECT:	
Request Date : 17-05-2023		Submit No :		Section / Location :		EMB-ENR-LB-008	
Test Request Ref No : EMB-ENR-LB-C08-A		Test Type		Test Location		Description	
☐ Concrete ☐ Soil ☐ Other		☐ In- ☐ Site ☐ Out Site Lab ☐ Others		Ref. Attachment		(44+420) الى (44+020) متر من (0.90-) متر من نتيجة اختبار صلاحية الارض (التربة) على مستوى	
TEST RESULT							
Request Date : 17-05-2023							
Submit No :							
Section / Location :							
EMB-ENR-LB-008							
Test Request Ref No : EMB-ENR-LB-C08-A							
Test Type							
Test Location							
Description							
Ref. Attachment							
(44+420) الى (44+020) متر من (0.90-) متر من نتيجة اختبار صلاحية الارض (التربة) على مستوى							
Consultant Comments							
Approved as noted.							
Status							
Approved							
Rejected							
Approved as Noted							
Rejected							
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents							
Contractor		Name :		Signature :		Date :	
Consultant		Name :		Signature :		Date :	

Date :		C. 04 - 0 - 14	
Signature :			
Name :		Contractor	
Date :		C. 04 - 0 - 14	
Signature :			
Name :		Consultant	

Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents

Approval Status	
☒ A Approved ☐ B Approved As Noted ☐ C Rejected As Noted ☐ D Rejected	

(1) Approved as noted
 95 Meters

Consultant Comments	

TEST REQUEST	
مشروع لإدراج حارة المسكة الحديد على محور / البرقي	
Request Date : 13 - 05 - 2023	Submital No :
Test Request Ref No : EMB-ENR-LB-008-A	Section / Location :
	(B1)
Test Type	Test Location
☐ Concrete ☐ Soil ☐ Other	☐ In-Site ☐ Out Site Lab ☐ Others
Description	
اختبار صلاحية الأرض الطينية على مستوى (0.90-) متر من (44+020) إلى (44+420)	
Ref. Attachment	
EMB-ENR-LB-008	

 CONTRACTOR	 CONSULTANT	 OWNER
---	--	--



المملكة العربية السعودية
وزارة التعليم
(GARBLT)



**PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422**

Date: 17/05/2023

Project: الردواج المسكة الجديد على منحور/ الرويحي

Sample delivery date: 13/05/2023

Sample Identification No. : Sample No. 8

Source of sample: Section B1 at St from (44+020) to (44+420) Slab at st (44+100) & (44+300) and (44+400)

Level (m) : (-0.90) m Upper Embankment

Classification According to AASHTO: A-3

Percentage of materials finer than # 200: 9.4%

Sieve	No.	Opening (mm)	Percentage	Notes
3 in.	75	100.0		
2.5 in.	63.5	100.0		
2 in.	50	100.0		
1.5 in.	38	99.0		
1 in.	25	97.8		
3/4 in.	19	96.0		
1/2 in.	12.5	94.1		
3/8 in.	9.5	92.1		
No. 4	4.75	87.5		
No. 10	2.0	82.6		
No. 40	0.425	63.7		
No. 200	0.075	9.4		

Notes:-

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Moassam Ismail

**LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
ACCORDING TO ASTM D4318**



المركز القومي للبحوث
البيئية والموارد المائية
والزراعة
1/2 م.م. القاهرة

Project: / المشروع على مستوى
ج. ا. 3

Sample delivery date: 12/03/2022

Sample Identification No.: Sample No. 8

Source of sample:

Section B1 at St from (44+020) to (44+420) Slab at st (44+100) & (44+300)
and (44+400)

Level (m): (-0.90) in Upper Embankment
Classification According to AASHTO: A-3

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 8	N.P.	N.P.	N.P.

Notes:-

Prepared by: Eng. El Khedr Abu Talib

Reviewed by: Eng. Hossam Ismail



الهيئة العامة
للتنظيم والإدارة
(GARBLT)



MOISTURE DENSITY RELATIONSHIP OF SOIL

ACCORDING TO ASTM D 1557

Date: 5/17/2023

Project: جدار التوطين السكني على طريق /الزيتوني/

13/05/2023

Sample delivery date:

Sample No. 8

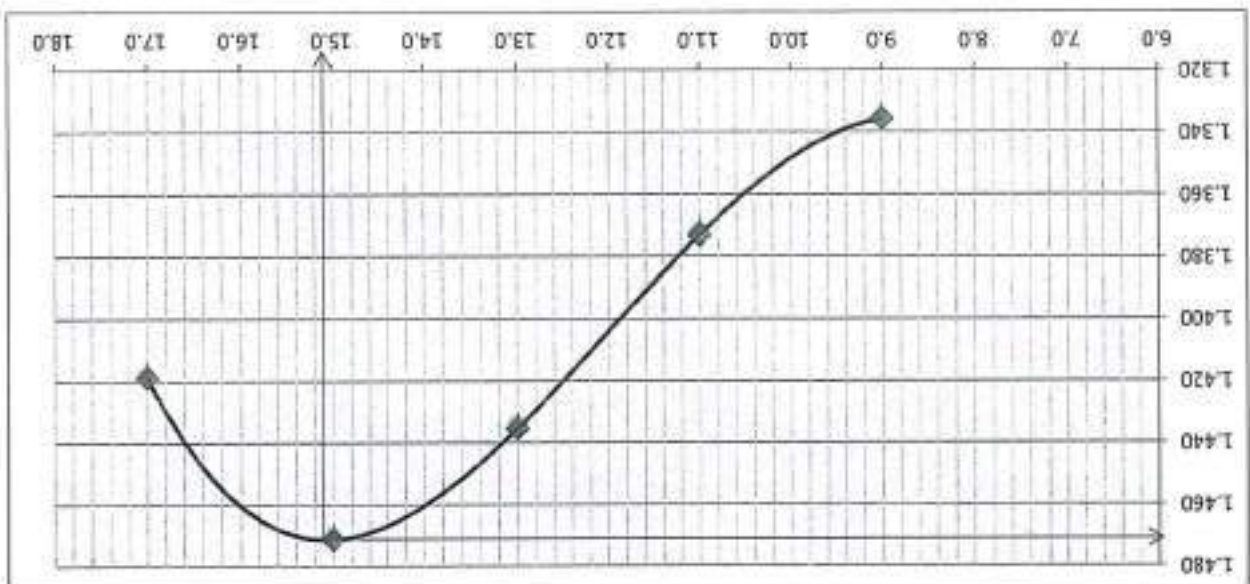
Sample Identification No.:

Section B1 at St from (44+020) to (44+420) Slab at st (44+100) &
(44+300) and (44+400)

Level (m):

(-0.90) m Upper Empankment

Wet Unit Weight, g/cm ³	Water Content, %	Dry Unit Weight, g/cm ³
1.456	9.0	1.336
1.524	11.0	1.373
1.622	13.0	1.435
1.692	15.0	1.471
1.660	17.0	1.419



Result (s):

1- Maximum dry density = 1.471 t/m³

2- Optimum moisture content = 15.10 %

Note (s):

Prepared by: Eng. El Khedr Abu Talib

Reviewed by: Eng. Hosam Ismail



الهيئة العامة
للكباري والطرق
(GARBLT)



CBR OF LABORATORY-COMPACTED SOILS ACCORDING TO ASTM D 1883

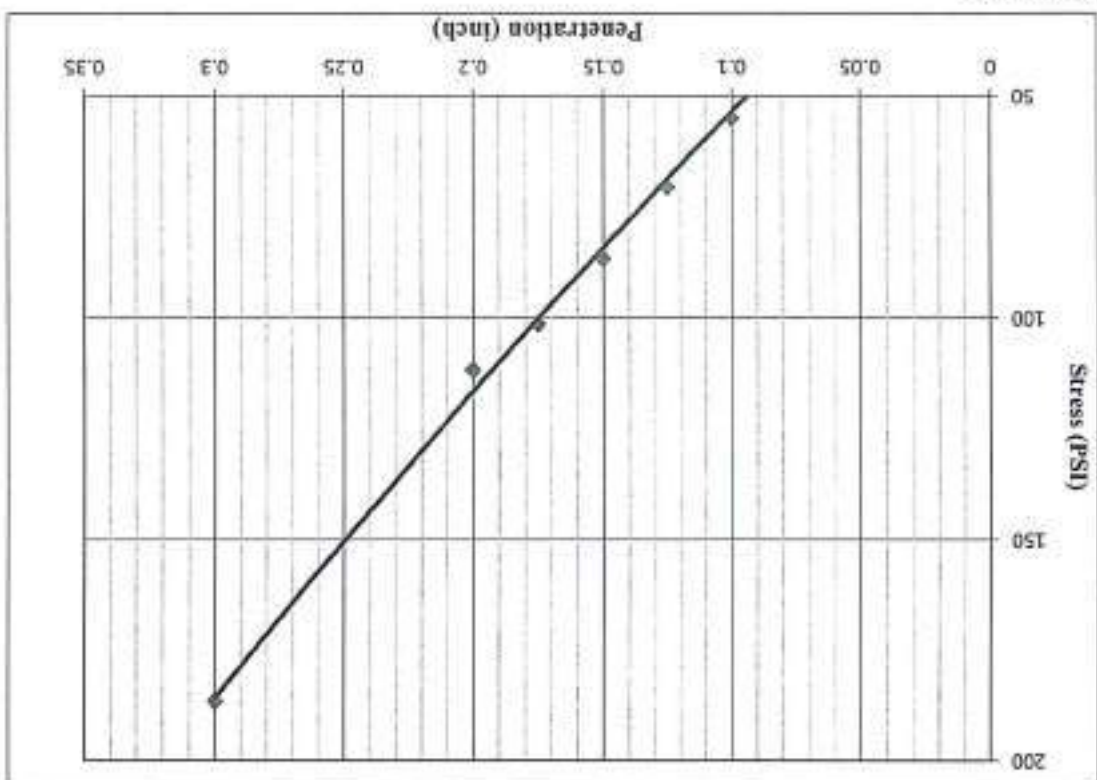
Project: طريق القاهرة الجديدة على محور /البرقي/ (New Cairo Road on El Barqi Axis)
Date: 5/17/2023

Sample delivery date: 13/05/2023

Sample Identification No.: Sample No. 8

Source of sample: Section B1 at St from (44+020) to (44+420) Slab at st (44+100) & (44+300) and (44+400)

Level (m): (-0.90) m Upper Embankment



Result (s):

CBR at 0.1 Inch =

5.5

%

CBR at 0.2 Inch =

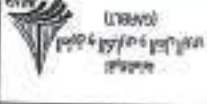
7.4

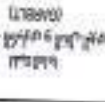
%

Note (s):

Prepared by: Eng. El Khedr Abu Talib

Reviewed by: Eng. Hossam Ismail

CONTRACTOR:									
TEST REQUEST									
Request Date : 16-04-2023									
Test Request Ref No : EMB-ENR-LB-008-A				Section / Location :		Submital No :		EMB-ENR-LB-008	
Test Type		☐ Concrete ☐ Soil ☐ Other							
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others							
Description		اختبار صلابة القوة على مسلوب (0.00-) متر من محطة (44+560) الى (44+420) الجانب الايمن من الطريق							
Ref. Attachment									
Consultare Comments									
Approved as noted - cutting at 0.4m from Pervol.									
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents									
Contractor		Consultant							
Name :		Name :							
Signature :		Signature :							
Date :		Date :							

Contractor		Name :		Signature :		Date :	
Consultant		Name :		Signature :		Date :	
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents							
Approval Status		Approved		Approved As Noted		Rejected	
A		B		C		D	
Resubmit As Noted		Approved		Approved As Noted		Rejected	
(A) Approved as noted - cutting at 1.9 m from Petrol							
Consultant Comments							
Description							
Test Location							
Test Type							
Request Date : 20-04-2023							
Request Ref No : EMB-ENR-LB-008-A							
Section / Location :							
Submital No :							
Ref. Attachement							
TEST RESULT							
موقع لدراسة جود المياه الجوفية على مستوى / لدراسة							
 EMB-ENR-LB-008		 EMB-ENR-LB-008		 EMB-ENR-LB-008		 EMB-ENR-LB-008	



الهيئة العامة للطيران المدني (GACRA)



الهيئة العامة للمياه والكهرباء (MWE)

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Date: 20/04/2023

Project: جسر الزورج الجديد على مجرى الرويحي / الرويحي

Sample delivery date: 16/04/2023

Sample Identification No. : Sample No. 8

Source of sample: Section B1 at St (44+420) to (44+560) Slab at St (44+450) and (44+500). Left side

Level (m) : Upper Embankment (-0.00).

Classification According to AASHTO:

A-2-4

Percentage of materials finer than # 200:

5.8%

Sieve	No.	Opening (mm)	Percentage	Notes
3 in.	75	75	100.0	
2.5 in.	63.5	63.5	100.0	
2 in.	50	50	100.0	
1.5 in.	38	38	100.0	
1 in.	25	25	100.0	
3/4 in.	19	19	100.0	
3/8 in.	9.5	9.5	99.1	
No. 4	4.75	4.75	97.4	
No. 10	2.0	2.0	95.5	
No. 40	0.425	0.425	49.3	
No. 200	0.075	0.075	5.8	

Notes:-

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Hossam Ismail

Reviewed by : Eng.Hossam Ismail

Prepared by : Eng. El Khedr Abu Talib

Notes:-

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 8	30	23	7

Classification According to AASHTO:

A-2-4

Level (m) :

Upper Embankment (-0.00).

Source of sample:

Section B1 at St (44+420) to (44+560) Slab at St (44+450) and (44+500). Left side

Sample Identification No. : Sample No. 8

Sample delivery date:

16/04/2023

Project: طريق القاهرة الجديدة على محور الزمكي

Date: 20/04/2023

**LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
ACCORDING TO ASTM D4318**



الهيئة العامة للتخطيط
والبنية التحتية
والطرق الحضرية
(GARBLT)





المركز القومي للبحوث الاقتصادية
البحر في التنمية الاقتصادية



MOISTURE DENSITY RELATIONSHIP OF SOIL

ACCORDING TO ASTM D 1557

Project: خطة ابحاث البنية التحتية في مصر / The Infrastructure Research Plan in Egypt

Sample delivery date: 16/04/2023

Sample Identification No.:

Sample No. 8

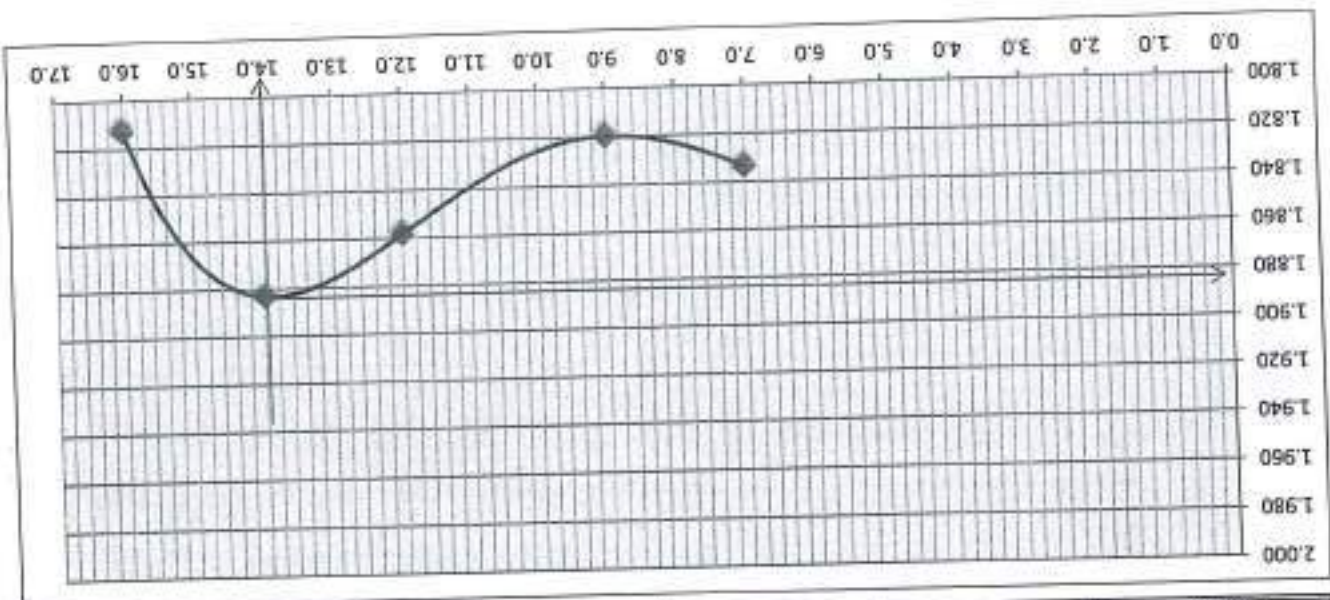
Source of sample:

Section B1 at St (44+420) to (44+560) Slab at St (44+450) and (44+500).

Left side

Level (m): Upper Embankment (-0.00).

Wet Unit Weight, g/cm^3	Water Content, %	Dry Unit Weight, g/cm^3
1.962	7.0	1.834
1.984	9.0	1.820
2.082	12.0	1.859
2.147	14.0	1.883
2.103	16.0	1.813



Result (s):

1- Maximum dry density = 1.885 t/m^3
2- Optimum moisture content = 14.00 %

Note (s):

Prepared by: Eng. El Khedr Abu Talib

Reviewed by: Eng. Hosam Ismail



CBR OF LABORATORY-COMPACTED SOILS
ACCORDING TO ASTM D 1883

Project: *طريق الدمام - الرياض / الرياض* Date: 4/20/2023

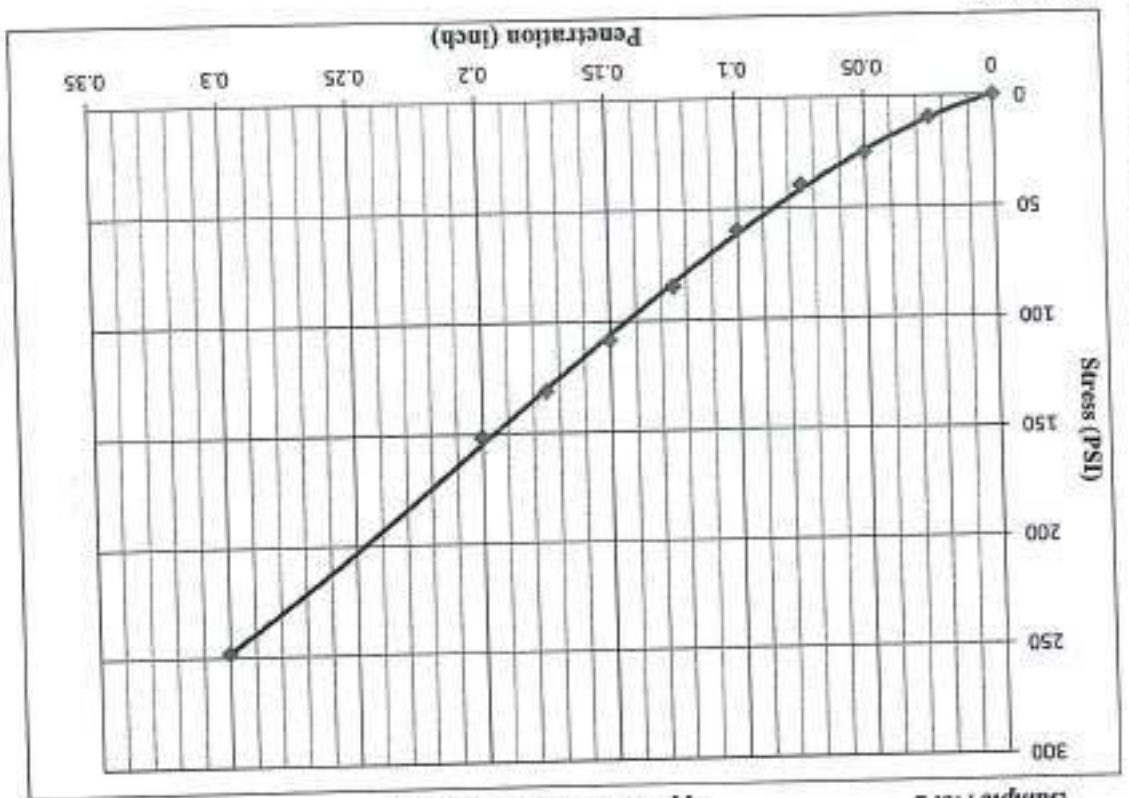
Sample delivery date: 16/04/2023

Sample Identification No.: Sample No. 8

Section B1 at St (44+420) to (44+560) Slab at St (44+450) and (44+500). Left side

Sample No. 2

Upper Embankment (-0.00).



Result (s):

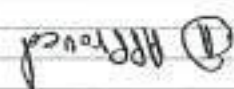
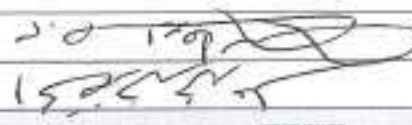
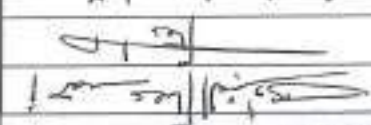
CBR at 0.1 Inch = 6.0 %
CBR at 0.2 Inch = 10.1 %

Note (s):

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Hossam Ismail

																							
TEST RESULT																							
Request Date : 07-08 - 2023												Submital No :											
Test Request Ref No : EMB-ENR-LB-012-A												Section / Location :											
Test Type												☐ Concrete ☐ Soil ☐ Other											
Test Location												☐ In-Site ☐ Out Site Lab ☐ Others											
Description												Ref. Attachment											
(38+700) في محطة (38+820) من محطة الإبريق المائية لصلاحية الأرض المملوكة لشركة المياه العامة Consultant Comments																							
Approved (Signature)																							
أ. م. ع. ح.																							
Approval Status																							
☒ Approved												☐ Resubmit As Noted											
☐ Approved As Noted												☐ Rejected											
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.																							
Contractor												Consultant											
Name:												Name:											
Signature:												Signature:											
Date:												Date:											

							
CONTRACTOR:		CONSULTANT:		OWNER:		TEST REQUEST	
Request Date : 03 - 08 - 2023		Submittal No :		EMB-ENR-LB-012		Request Ref No : EMB-ENR-LB-012-A	
Test Type		☐ Concrete ☐ Soil ☐ Other		Section / Location :		(A5)	
Test Location		☐ In- ☐ Site ☐ Out Site Lab ☐ Others		Description		Ref. Attachement	
اختبار صلاحية الأرض الطبيعية من محطة (38+820) إلى (38+700)							
Consultant Comments							
							
Approval Status							
☒ Approved		☐ C		☐ Rejected As Noted		☐ Rejected	
B		Approved As Noted		D		Rejected	
Note: The above works have been approved according to the project specifications, approved working drawings and contract documents.							
Contractor		Consultant		Name :		Date :	
				Signature :		Date :	
Name :		Signature :		Date :		Signature :	

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Project: خط أنابيب السكة الحديد على محور / الرويفي / الرياض
Date: 07/08/2023

Sample delivery date: 03/08/2023
Sample Identification No. : Sample No.12
Source of sample: Section A5 at Sl from (38+700) to (38+820) Slab at sl (38+750)
Level (m) : N.G.L
Classification According to AASHTO: A-3
Percentage of materials finer than # 200: 9.7%

Notes	Opening	Percentage	Passing %
Sieve	No.	(mm)	
	3 in.	75	100.0
	2.5 in.	63.5	100.0
	2 in.	50	100.0
	1.5 in.	38	99.2
	1 in.	25	98.1
	3/4 in.	19	96.6
	1/2 in.	12.5	95.1
	3/8 in.	9.5	93.4
	No. 4	4.75	89.5
	No. 10	2.0	84.5
	No. 40	0.425	65.1
	No. 200	0.075	9.7

Notes:-

Prepared by : Eng. El Khedr Abu Talib
 Reviewed by : Eng. Hossam Ismail



إدارة
البنية التحتية
والمواصلات
(GARBLT)



LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Project: أرشاد السكة الحديد على محور / الزينى / الزينى

Date: 07/08/2023

Sample delivery date: 03/08/2023

Sample Identification No.: Sample No.12

Source of sample: Section A5 at St from (35+820) to (37+300) Slab at st (36+500)

Level (m): N.G.L

Classification According to AASHTO:

A-3

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No.12	N.P.	N.P.	N.P.

Notes:-

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Hossam Ismail

MOISTURE DENSITY RELATIONSHIP OF SOIL

ACCORDING TO ASTM D 1557

المركز القومي للمختبرات الهندسية
إدارة مختبر الصلابة جوفاء



(GARBLT)

المشروعات والبنية التحتية
للمدن والريف



الهيئة العامة للغذاء والدواء
الجمهورية العربية السورية



Date: 8/7/2023

03/08/2023

Sample Identification No.:

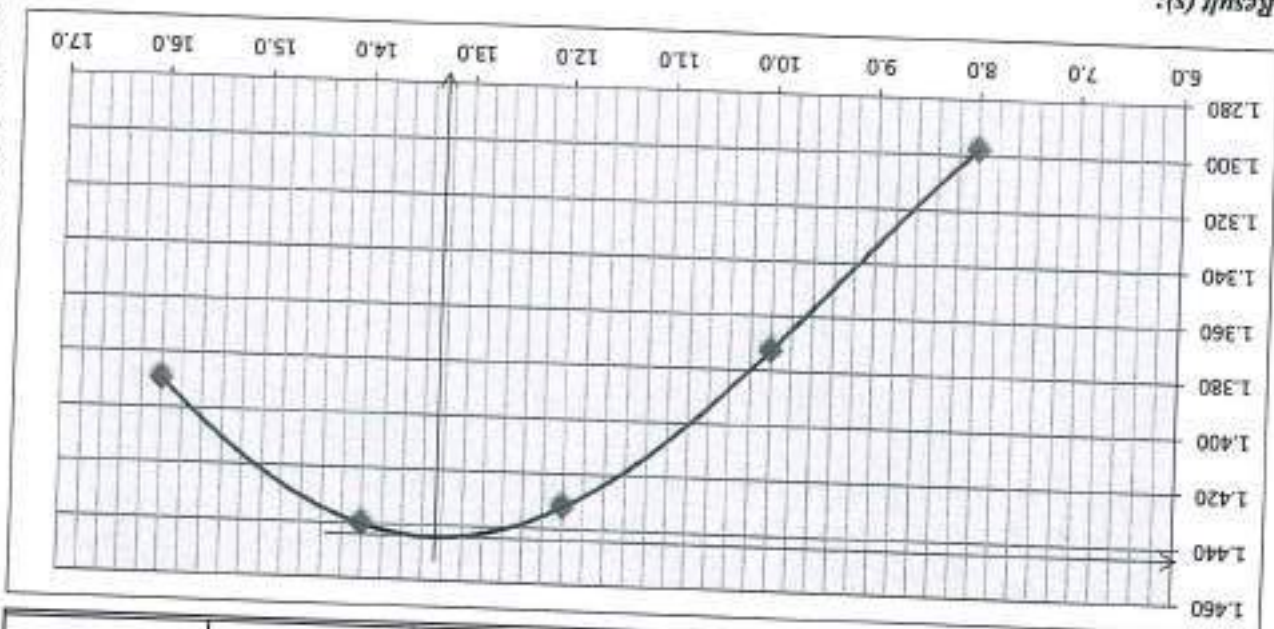
Sample No. 12

Source of sample:

Section A5 at St from (38+700) to (38+820) Slab at st (38+750)

N.G.L

Wet Unit Weight, g/m^3	Water Content, %	Dry Unit Weight, g/m^3
1.402	8.0	1.298
1.510	10.0	1.373
1.604	12.0	1.432
1.642	14.0	1.440
1.612	16.0	1.390



Result (s):

1- Maximum dry density = 1.445 g/m^3
2- Optimum moisture content = 13.30 %

Note (s):

Prepared by: Eng. El Khedr Abu Talib

Reviewed by: Eng. Hossam Ismail

CBR OF LABORATORY-COMPACTED SOILS ACCORDING TO ASTM D 1883

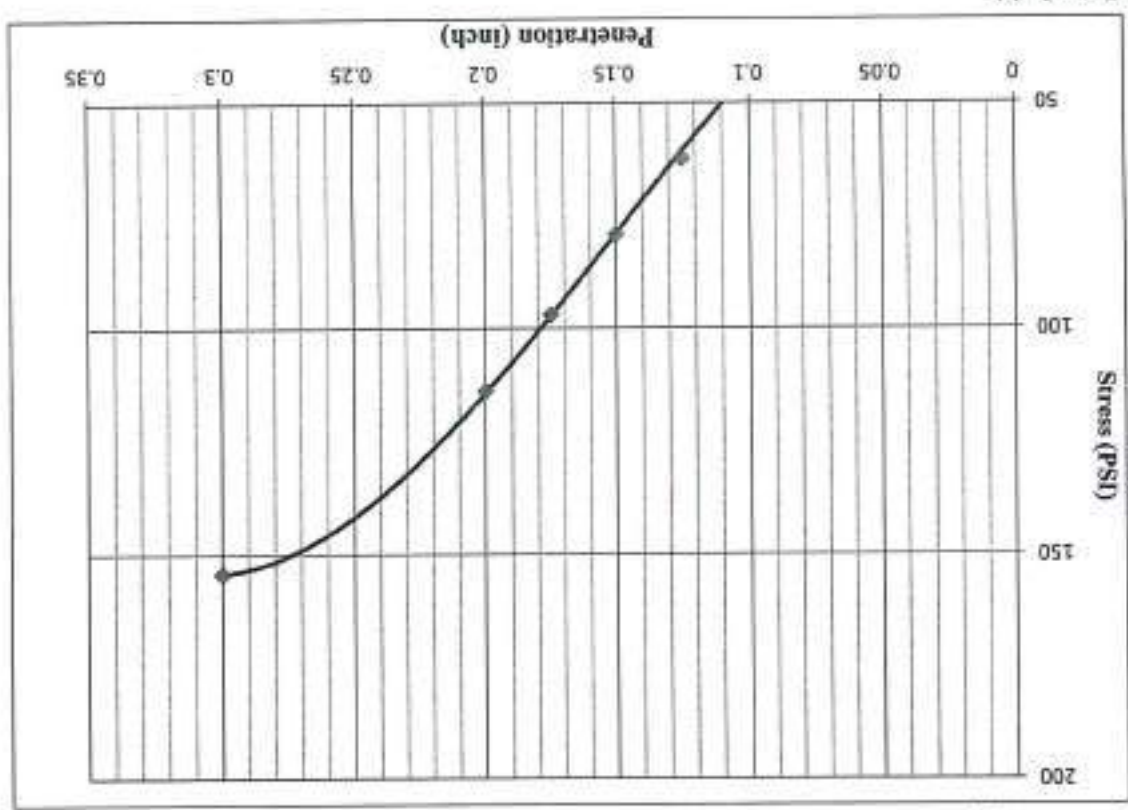
Project: **طريق الكباري على محور الخليل/الرمثي** Date: **8/7/2023**

Sample delivery date: **03/08/2023**

Sample Identification No.: **Sample No.12**

Source of sample: **Section A5 at St from (38+700) to (38+820) Slab at st (38+750)**

Level (m): **N.G.L**



Result (s):

CBR at 0.1 Inch = **4.0** %
CBR at 0.2 Inch = **7.6** %

Note (s):

Prepared by : **Eng. El Khedr Abu Talib**

Reviewed by : **Eng. Hossam Ismail**

Handwritten signature

CONTRACTOR		CONSULTANT		OWNER	
 Smart Road		 وزارة النقل (Ministry of Transport)		 الهيئة العامة لبناء الطرق (General Authority for Road Construction)	
TEST RESULT					
Request Date : 04-08-2023					
Test Request Ref No : EMB-ENR-LB-014-A		Section / Location :			
Test Type		☐ Concrete ☒ Soil ☐ Other			
Test Location		☐ In-Site ☐ Out Site Lab ☐ Others			
Description		Ref. Attachment			
الي (38+320) station ومن (38+200) الي (38+000) متر من (0.00-) منسوب على الطابقية على الارض (360+38) نتيجة اختبار صلاحية الارض للطابقية على منسوب (0.00-) من (38+200) الي (38+000) متر من (0.00-) منسوب على الطابقية على الارض (360+38)					
Consultant Comments					
Approved					
Approval Status					
A		Approved		C	
B		Approved As Noted		D	
Rejected		Resubmit As Noted			
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents.					
Contractor		Consultant			
Name :		Name :			
Signature :		Signature :			
Date :	01-8-2023	Date :	3/8/2023		

[illegible]



المياه والكهرباء
(GARBLT)
القطاع العام



السلطة الفلسطينية للمياه والكهرباء
القطاع العام



PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Project: **خط انزواج السكة الحديد على محور / الروماني** / 01/08/2023
Sample delivery date:

Sample Identification No. : **Sample No. 14**

Source of sample: **Section A5 at St from (38+000) to (38+200) and from (38+320) to (38+360) Slab at st (38+100) and (38+350) Left side**
Level (m) : **NGL (-0.00) m**

Classification According to AASHTO: **A-1-b**
Percentage of materials finer than # 200: **9.3%**

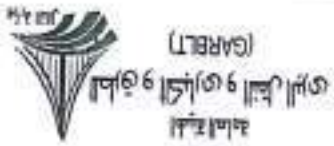
Sieve	Opening	Percentage	Notes
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	96.7	
1 in.	25	88.8	
3/4 in.	19	84.2	
3/8 in.	9.5	74.9	
No. 4	4.75	65.4	
No. 10	2.0	55.1	
No. 40	0.425	36.9	
No. 200	0.075	9.3	

Notes:-

Prepared by : **Eng. El Khedr Abu Talib**

Reviewed by : **Eng. Hossam Ismail**

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
ACCORDING TO ASTM D4318



المركز الوطني للمعايير والبحوث
 المركز الوطني للمعايير والبحوث



Project: محطة الضخ على المنصورة / El Mansoura Pumping Station

Sample delivery date: 01/08/2023

Sample Identification No.: Sample No. 14

Source of sample:

Section A5 at St from (38+000) to (38+200) and from (38+320) to (38+360) Slab

Level (m): NGL (-0.00) m

Classification According to AASHTO:

A-1-b

Notes:-

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 14	N.P.	N.P.	N.P.

Prepared by: Eng. El Khedr Abu Talib

Reviewed by: Eng. Hossam Ismail





إدارة محمد الصافي عوف
المركز الوطني للاستشارات الهندسية



MOISTURE DENSITY RELATIONSHIP OF SOIL

ACCORDING TO ASTM D 1557

Project: شبكة الصرف الصحي على محور /الرياض/ الدمام

Date: 8/4/2023

Sample delivery date:

01/08/2023

Sample Identification No.:

Sample No. 14

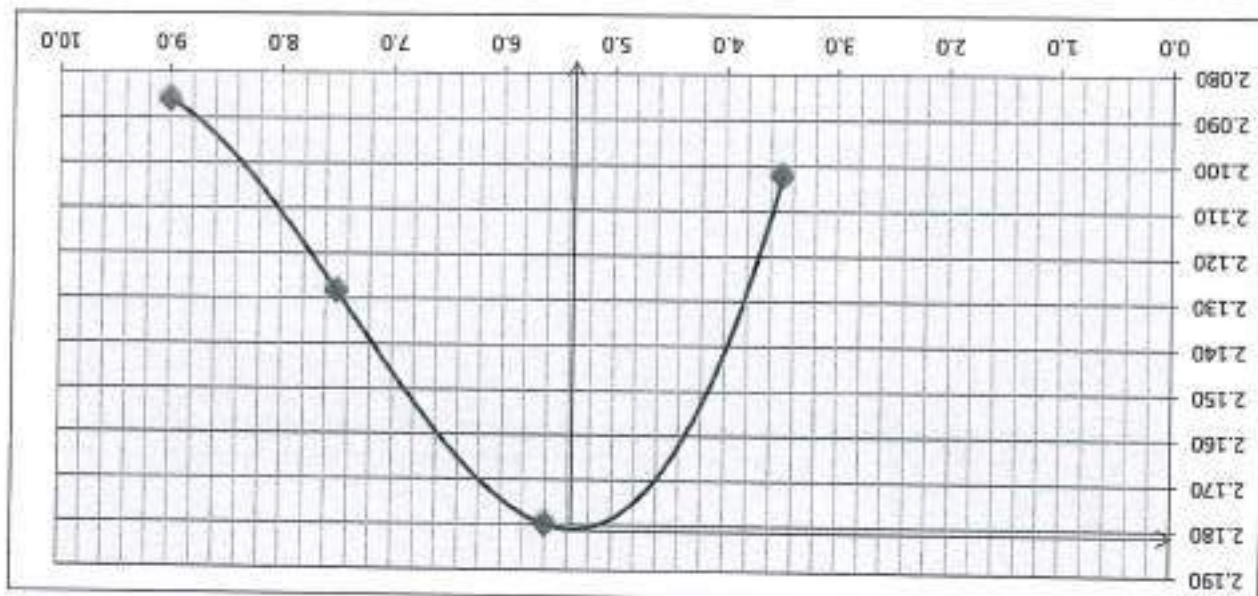
Source of sample:

Section A5 at St from (38+000) to (38+200) and from (38+320) to (38+360) Slab at st (38+100) and (38+350) Left side.

Level (m):

NGL (-0.00) m

Wet Unit Weight, g/cm^3	Water Content, %	Dry Unit Weight, g/cm^3
2.176	3.5	2.102
2.302	5.6	2.180
2.288	7.5	2.128
2.274	9.0	2.086



Result (s):

1- Maximum dry density = $2.182 \text{ } g/m^3$

2- Optimum moisture content = 5.38 %

Note (s):

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Hossam Ismail



الهيئة العامة للطرق والنقل
(GARBLT)



الهيئة العامة للمياه والصرف الصحي
المركز الوطني للأبحاث والتقنية
إ.م. محمد الصليبي حوفا



CBR OF LABORATORY-COMPACTED SOILS ACCORDING TO ASTM D 1883

Project: **خط أنابيب المياه على محور /الريفي/ الزراعي**

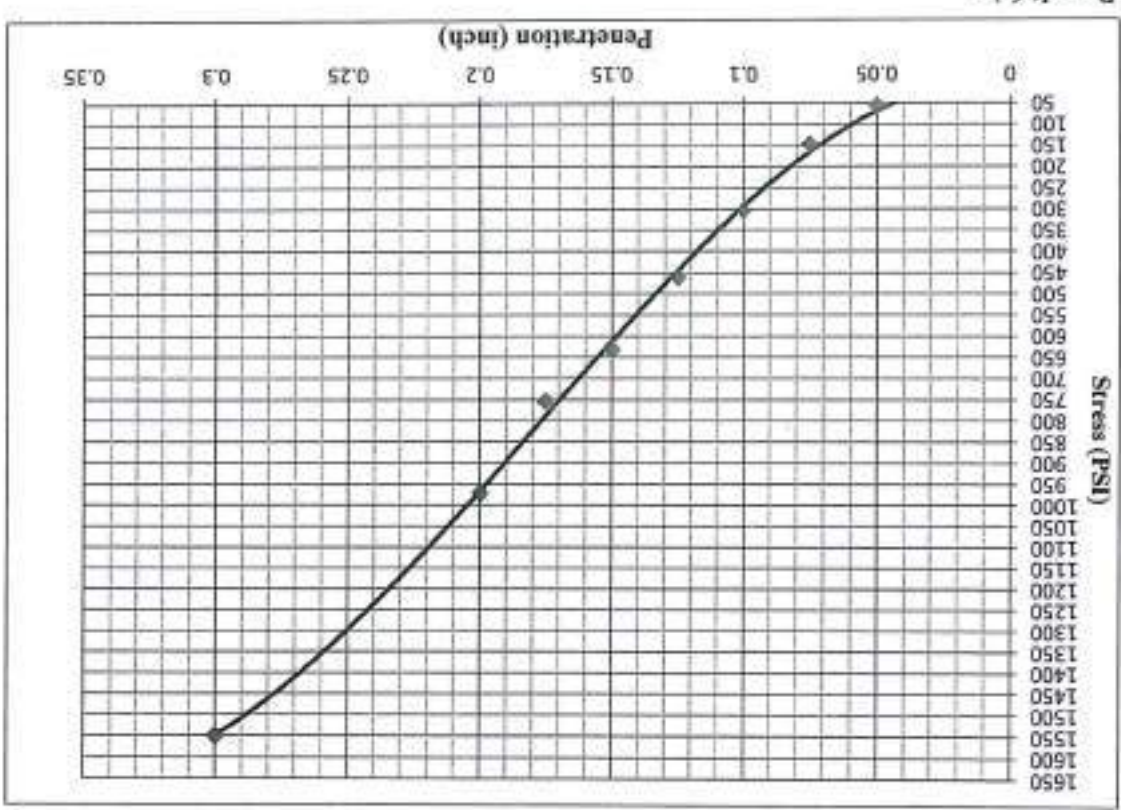
Date: 8/4/2023

Sample delivery date: 01/08/2023

Sample Identification No.: Sample No. 14

Source of sample: Section A5 at St from (38+000) to (38+200) and from (38+320) to (38+400)

Level (m): NGL (-0.00) m



Result (s):

CBR at 0.1 Inch = 30.4 %
CBR at 0.2 Inch = 64.8 %

Note (s):

Prepared by: Eng. El Khedr Abu Talib

Reviewed by: Eng. Hossam Ismail



					
CONTRACTOR:		CONSULTANT:		OWNER:	
مشروع إمداد مياه الشرب على مستوى المنطقة الحضرية / ١٤٣٥هـ TEST RESULT					
Request Date : 27-09-2023					
Test Request Ref No : EMB-ENR-LB-015-A					
Test Type		Section / Location :			
☐ Concrete ☐ Soil ☐ Other		☐ In-Situ ☐ Site Lab ☐ Out Site Lab ☐ Others			
Test Location		Ref. Attachment			
Description					
(40+200) إلى (39+920) محطة من محطة (0.00) متر من مستوى الأرضية لنتيجة اختبار صلابة التربة على مستوى					
Consistent Comments					
① Affected المؤثر					
Approval Status					
☒ Approved		☐ C Resubmit As Noted			
☐ B Approved As Noted		☐ D Rejected			
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor		Consultant			
Name : Signature : Date :		Name : Signature : Date :			

[illegible]



المركز الوطني للأبحاث والتحليلات
البيئية (GARBLT)



المملكة العربية السعودية
الرياض



PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Project: المبنى الجديد على طريق الرياض / الرياض
Date: 27/09/2023

Sample delivery date: 23/09/2023

Sample Identification No.: Sample No. 15

Source of sample: Section B1 at Sl from (39+920) to (40+200) Slab at st (40+000) and (40+100).

Level (m): (-0.00) m Upper Embankment

Classification According to AASHTO:

A-3

Percentage of materials finer than # 200: 8.3%

Sieve	Opening	Percentage	Notes
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	99.1	
1 in.	25	97.9	
3/4 in.	19	96.2	
1/2 in.	12.5	94.4	
3/8 in.	9.5	92.4	
No. 4	4.75	88.0	
No. 10	2.0	81.0	
No. 40	0.425	61.6	
No. 200	0.075	8.3	

Notes:-

Prepared by: Eng. El Kheider Abu Talib

Reviewed by: Eng. Hossein Ismail

Reviewed by : Eng. Hossam Ismail

Hossam Ismail

Prepared by : Eng. El Khedr Abu Talib

El Khedr Abu Talib

Notes:-

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 15	N.P.	N.P.	N.P.

Classification According to AASHTO:

A-3

Level (m) : (-0.00) m Upper Embankment

Source of sample: Section B1 at St from (39+920) to (40+200) Slab at st (40+000) and (40+100).

Sample Identification No. : Sample No. 15

Sample delivery date: 23/09/2023

Date: 27/09/2023

Project: خط أنفاق الحديدي على محور / الروملي / AASHTO

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318





المركز القومي للمختبرات والتجربة
إدارة المختبر المركزي



المجلس الأعلى
للتخطيط
(GARBLT)



MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Date: 2023-09-27

Project: إنشاء محطة معالجة مياه الصرف الصحي في المنطقة الصناعية الجديدة

Sample delivery date:

23/09/2023

Sample Identification No.:

Sample No. 15

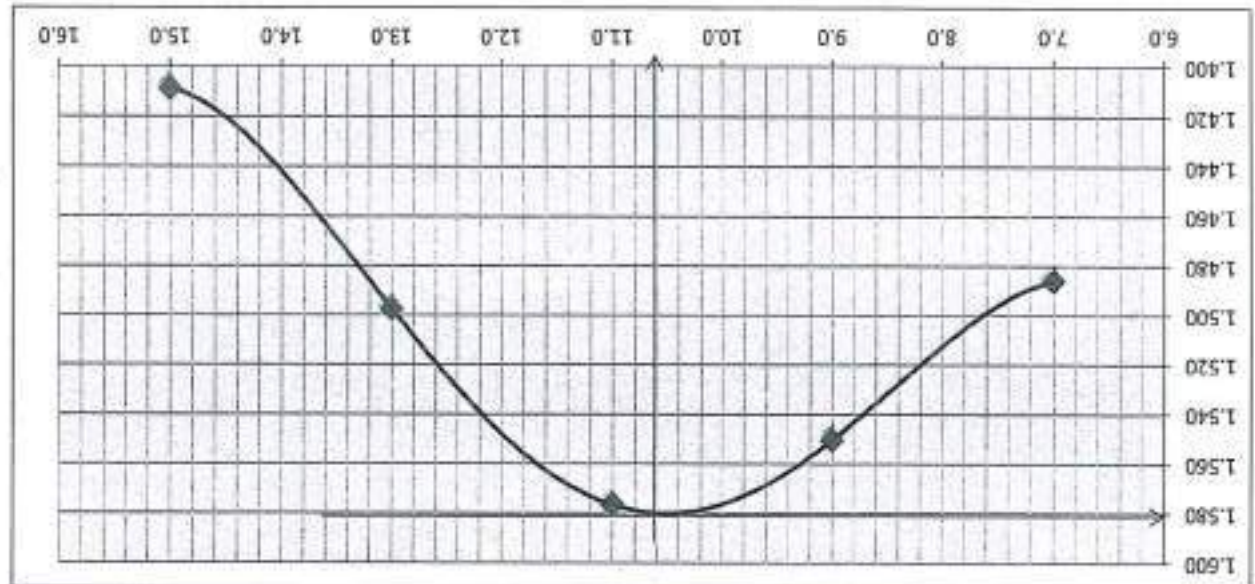
Source of sample:

Section B1 at Slab from (39+920) to (40+200) Slab at st (40+000) and (40+100).

Level (m):

(-0.00) m Upper Embankment

Wet Unit Weight, g/cm^3	Water Content, %	Dry Unit Weight, g/cm^3
1.590	7.0	1.486
1.690	9.0	1.550
1.750	11.0	1.577
1.692	13.0	1.497
1.620	15.0	1.409



Result (s):

1- Maximum dry density = 1.580 t/m^3
2- Optimum moisture content = 10.60 %

Note (s):

Prepared by: Eng. El Khedr Abu Talib

Reviewed by: Eng. Hossam Ismail

CBR OF LABORATORY-COMPACTED SOILS

ACCORDING TO ASTM D 1883

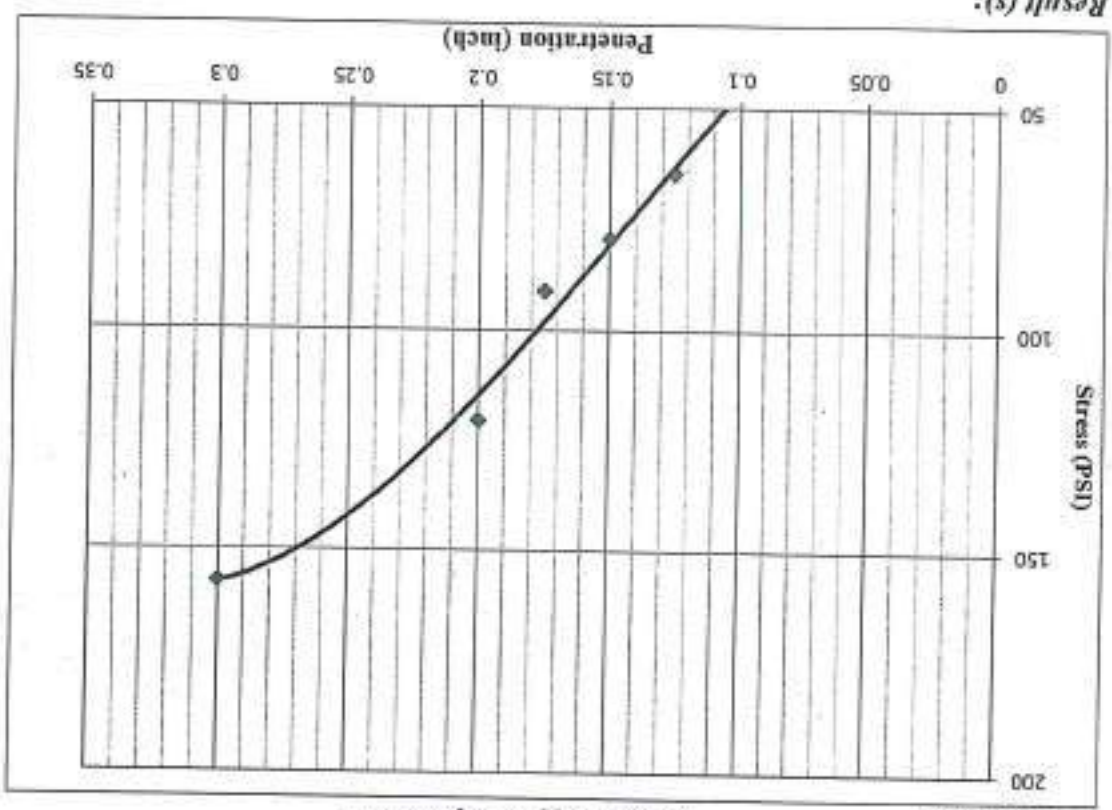
Project: *طريق الدمام الجديد على المنحدر الجنوبي / الدمام* Date: 9/27/2023

Sample delivery date: 23/09/2023

Sample Identification No.: Sample No. 15

Source of sample: Section B1 at SI from (39+920) to (40+200) Slab at st (40+000) and (40+100).

Level (m): (-0.00) in Upper Embankment



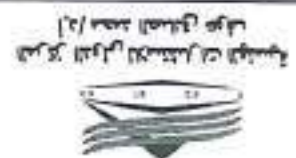
Result (s):
CBR at 0.1 Inch = 4.7 %
CBR at 0.2 Inch = 8.0 %

Note (s):

Prepared by: Eng. El Khedr Abu Talib

Reviewed by: Eng. Hossam Ismail

					
CONTRACTOR smart		CONSULTANT smart		OWNER smart	
مشروع الطرق الجديدة على محور / الطريق الجديد TEST REQUEST					
Request Date : 01 - 08 - 2023					
Test Request Ref No : EMB-ENR-LB-013-A					
Test Type ☐ Concret ☐ Soil ☐ Other		Section / Location :			
Test Location ☐ In- ☐ Site ☐ Out Site Lab ☐ Others		Ref. Attachement			
اختبار صلاحية الأرض لطريق من محطة (38+320) إلى (38+360) محطة (38+320) و من محطة (38+740) إلى (38+760) مسار البحر					
Consultant Comments					
Approved					
Approval Status		Approved			
Approved As Noted		Resubmit As Noted			
Rejected		Rejected			
Note: The above works have been approved according to the project specifications, approved workshop drawings and contract documents					
Contractor Name : Signature : Date :		Consultant Name : Signature : Date :			



الهيئة العامة
للأرصفة والموانئ
(GARLT)



PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Project: خط أنابيب الغاز من مصر إلى ليبيا / Project No. 04/08/2023

Sample delivery date: 01/08/2023

Sample Identification No.: Sample No. 13

Source of sample: Section A5 at St (38+200) to (38+320) & (38+360) to (38+740) Slab at St (38+250) and (38+500) Left Side

Level (m): N.G.L

Classification According to AASHTO: A-2-4

Percentage of materials finer than # 200: 12.0%

Sieve	Opening	Percentage	Notes
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	98.7	
1.5 in.	38	98.3	
1 in.	25	95.8	
3/4 in.	19	94.5	
3/8 in.	9.5	91.8	
No. 4	4.75	89.5	
No. 10	2.0	87.7	
No. 40	0.425	68.9	
No. 200	0.075	12.0	

Notes:-

Prepared by: Eng. El Kheir Abu Talib

Reviewed by: Eng. Hossam Ismail

Reviewed by : Eng. Hossam Ismail

Prepared by : Eng. El Khedr Abu Talib

Notes:-

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 13	N.P.	N.P.	N.P.

Classification According to AASHTO:

A-2-4

Level (m) :

N.G.L

Source of sample:

Section A5 at St (38+200) to (38+320) & (38+360) to (38+740) Slab at St (38+250) and (38+500) Left Side.

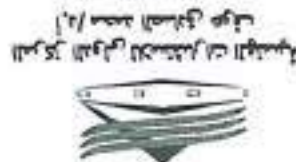
Sample Identification No. : Sample No. 13

Sample delivery date: 01/08/2023

Date: 04/08/2023

Project: إزواج المسكع الصخر على منصور / الروبي

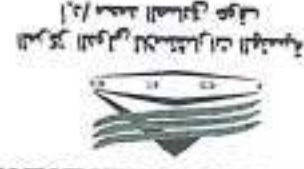
LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318



(GARBLT)

المسكع الصخر والصلب الخرساني





MOISTURE DENSITY RELATIONSHIP OF SOIL

ACCORDING TO ASTM D 1557

Project: شبكة انابيب الصرف الصحي على الجسر / El Sewage Network on the Bridge

Date: 8/4/2023

Sample delivery date: 01/08/2023

Sample Identification No.:

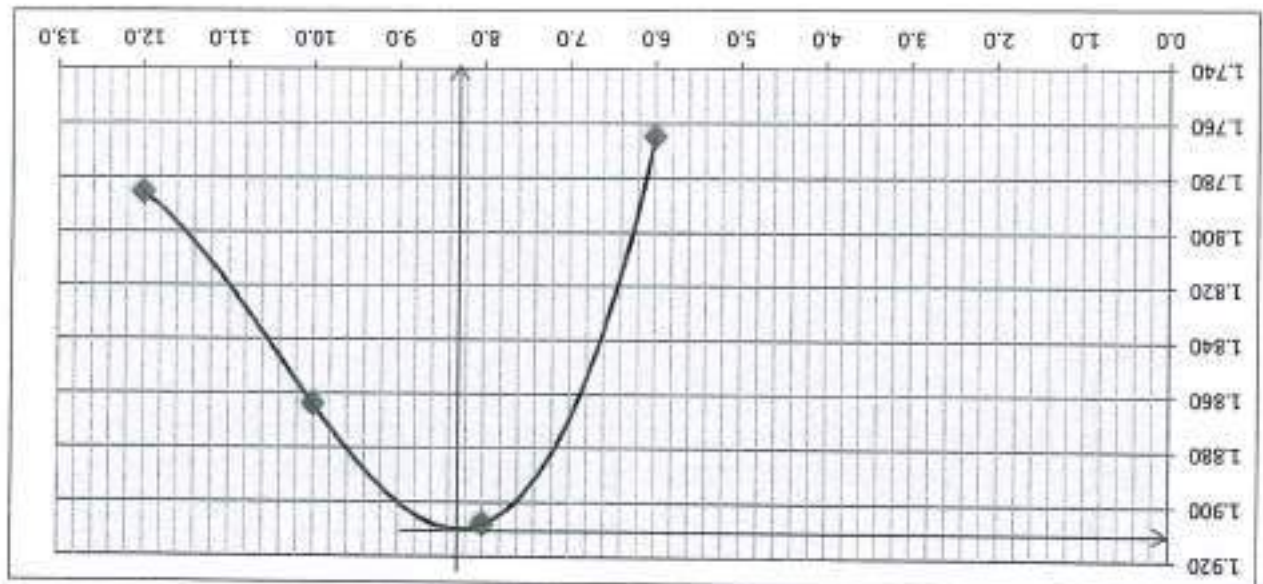
Sample No. 13

Source of sample: Section A5 at St (38+200) to (38+320) & (38+360) to (38+740) Slab at St (38+250) and (38+500) Left Side.

Level (m):

N.G.L

Wet Unit Weight, g/cm^3	Water Content, %	Dry Unit Weight, g/cm^3
1.871	6.0	1.765
2.061	8.0	1.908
2.051	10.0	1.864
2.000	12.0	1.786



Result (s):

- 1- Maximum dry density = $1.910 \text{ } g/cm^3$
- 2- Optimum moisture content = 8.60 %

Note (s):

Prepared by: Eng. El Khedr Abu Talib

Reviewed by: Eng. Hossam Ismail

CBR OF LABORATORY-COMPACTED SOILS

ACCORDING TO ASTM D 1883

Project: خط أنابيب المياه على محور /الزيتي

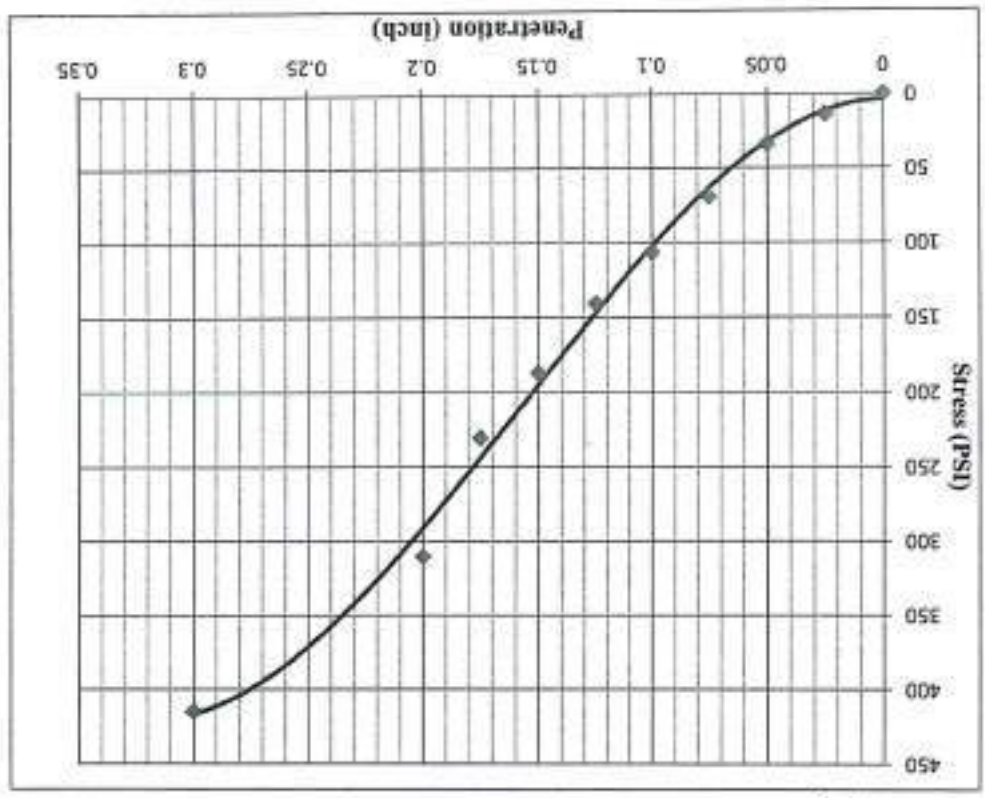
Date: 8/4/2023

Sample delivery date: 01/08/2023

Sample Identification No. : Sample No. 13

Source of sample: Section A5 at St (38+200) to (38+320) & (38+360) to (38+740) Slab at St (38+250) and (38+500) Left Side

Level (m) : N.G.L



Result (s):

CBR at 0.1 Inch = 10.7 %

CBR at 0.2 Inch = 20.7 %

Note (s):

Prepared by : Eng. El Khedr Abu Talib

Reviewed by : Eng. Hosam Ismail