



قائمة الكميات الواردة بالمستخلص جاري (2)

مشروع : أعمال القطار الكهربائي السريع (العين السكنية - العاصمة الإدارية - العلمين مطروح) قطاع (فوكة - مطروح) لتنفيذ المسافة من الكم 507+000 الى الكم 509+000 بطول 2 كيلو متر إتجاه استكمال مطروح رقم الهند و بيلته : (1-4) أعمال توريد وفرش طبقة تأسيس (Prepared Subgrade) من الأحجار الصلبة المتدرجة والمطابقة للمواصفات
تنفيذ : شركة ايبي كونترات - زكريا جابر القدس رشيد

م					14530.00	مقدار العمل السابق :
كمية	الارتفاع (متر)		الموقع الفيلو متر		بيان لاسم والمطابقة	
	مساحة المقطع	طول	الى	من		
543.23	0.543	1000	508+000	507+000	القطاع الاول	
543.23	0.543	1000	509+000	508+000	القطاع الثاني	
1086.45	اجمالي الكميات خلال فترة المستخلص الحالية (م ³)					
15616.45	الاجمالي الكلي (م ³)					

مهندس الهيئة العامة للطرق والمواصلات
د / إبراهيم محمد الجبالي

مهندس مواقع الهيئة العامة للطرق والمواصلات
د / مؤمن محمد مزور
مؤمن محمد مزور

مهندس الاستشاري (EIT)
د / محمد شهاب خليل
محمد خليل

مهندس تشييد
د / محمد محمد احمد
محمد احمد



قائمة كميات بالمستخلص جاري (2)

مشروع : أعمال الجسر الترابي لمسار القطر الكهربائي السريع الخط الأول (العين السخنة - مطروح) قطاع (فوكة - مطروح) لتنفيذ المسافة من الكم 507+000 الى الكم 509+000 بطول 2 كيلو متر إتجاه استكمال مطروح

رقم البند و بيانه : (1-4) علاوة مسافة النقل 65 كم لأعمال طبقات التأسيس

علاوة مسافة النقل

لتنفيذ : شركة ايبي كونتراتك - زكريا جابر قدس رشيد

م3

14530.00

مقدار العمل السابق :

الكمية	بيان بالكميات
1086.45	الكمية طبقاً للقوائم الكميات (ب3)
1086.45	إجمالي الكميات خلال فترة المستخلص الحالية (ب3)
15616.45	الإجمالي الكلي (م3)

مهندس التهيئة العامة للطرق
والجسور
م / إبراهيم عبداللطيف الحناوي

مهندس مرفق التهيئة العامة للطرق
والجسور
م / مؤمن محمد مبرور

مهندس الإشراف (eye)
م / محمد شهاب خليل

مهندس الشارقة
م / محمد محمد أحمد

مؤمن محمد مبرور

محمد خليل

محمد أحمد



قائمة كميات بالمستخلص جاري (2)

مشروع : أعمال القطار الكهربائي السريع (العين السخنة - العاصمة الإدارية - العلمين - مطروح) قطاع (فوكة - مطروح) لتنفيذ المسافة من الكم 000+507 الى الكم 509+000 بطول 2 كيلو متر اتجاه استكمال مطروح
رقم الهند و بياته : (1-4) رسوم الكثرة والموازن طبقاً للمادة (36) من الشروط العامة والمواصفات طبقاً لما جاء بالقائمة الموحدة لاسعار الطرق لاصال طبقاً
التأسيس

الكميات والموازن

تنفيذ : شركة ايبي كونتراتك - زكريا جابر قلندس رشيد

14530.00 ج

مقدار العمل السابق :

بيان بالكميات	الكمية
الكمية طبقاً لمواصفات الكميات (ج)	1086.45
اصال الكميات خلال فترة المستخلص المالية (ج)	1086.45
الاصال الكلي (م)	15616.45

مهندس الهيئة العامة للطرق
والنقل
م / ابراهيم محمد عبدالوحي

مهندس موقع الهيئة العامة
للطرق والنقل
م / مؤمن محمد مبرور

مهندس الإشراف (epc)
م / محمد شهاب خليل

مهندس الشريعة
م / محمد محمد احمد

مؤمن محمد مبرور

محمد خليل

م / محمد محمد احمد



قائمة كميات المستخلص جاري (2)

مشروع : أعمال الجسر الترابي لمسار القطار الكهربائي السريع الخط الأول (العين السخنة - مطروح) قطاع (فوكة / مطروح) لتنفيذ المسافة من الكم 507+000 إلى الكم 509+000 بطول 2 كيلو متر إتجاه استكمال مطروح

رقم البند و بيانه : (2-4) علاوة مسافة النقل 215 كم لأعمال طبقات الأساس

علاوة مسافة النقل

تنفيذ : شركة إيبي كونترات - (إكسپا جابر قلنس رشيد

م3

10000.00

مقدار العمل السابق :

الكمية	بيان بالكميات
1708.00	الكمية طبقاً للمواصفات الكميات (م3)
1708.00	إجمالي الكميات خلال فترة المستخلص الحالية (م3)
11708.00	الإجمالي الكلي (م3)

مهندس الهيئة العامة للطرق

والكهرباء
م / إبراهيم عيسى الحناوي

مهندس مواقع الهيئة العامة

للطرق والكهرباء
م / مؤمن محمد سرور

مهندس الاستشاري (eye)

م / محمد شهاب خليل

مهندس الشركة

م / محمد محمد أحمد



قائمة كميات بالمستخلص جاري (2)

مشروع : أعمال الجسر الترابي لمسار القطار الكهربائي السريع الخط الأول (العين السخنة - مطروح) قطاع (فوكة / مطروح) لتنفيذ المسافة من الكم 000+507 الى الكم 509+000 بطول 2 كيلو متر إتجاه استكمال مطروح

رقم الهند و بيانه : (2-4) رسوم الكارطة والموازن طبقاً للمادة (36) من الشروط العامة والمواصفات طبقاً لما جاء بالقائمة الموحدة لأسعار الطرق لأعمال طبقة الأساس

الكارطات والموازن

تسليم : شركة إيبي كونترالك - زكريا جابر قلندس رشيد

م

10000.00

مقدار العمل السابق :

الكمية		بيان بالكميات
1708.00		الكمية طبقاً لقوائم الكميات (م)
1708.00	إجمالي الكميات خلال فترة المستخلص الحالية (م)	
11708.00	الإجمالي الكلي (م ³)	

مهندس الهيئة العامة للطرق
والمواصلات
م / إبراهيم محمد الحناوي

مهندس موقع الهيئة العامة
للطرق والمواصلات
م / مؤمن محمد مروز
مؤمن محمد مروز

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

مهندس الشركة
م / محمد محمد أحمد
محمد محمد أحمد



قائمة الكميات الواردة بالمستخلص جاري (2)

مشروع : أعمال الجسر الترابي لمسار القطار الكهربائي السريع الخط الأول (العين السخنة - مطروح) قطاع (فوكة / مطروح) لتنفيذ المسافة من الكم 507+000 الى الكم 509+000 بطول 2 كيلو متر إتجاه استكمال مطروح

رقم البند و بيانه : (2-4) أعمال توريد وفرش طبقة أساس من الأحجار الصلبة المتدرجة ناتج تكسير الكسارات والمطابقة للمواصفات

تنفيذ : شركة إيجي كونترات - زكريا جابر قلندس رشيد

مقدار العمل السابق : 10000.00 م3

الكمية	الأبعاد (متر)		الموقع الكيلومتری		بيان الأعمال بالمقايضة
	مساحة المقطع	طول	الى	من	
854.00	0.854	1000	508+000	507+000	القطاع الأول
854.00	0.854	1000	509+000	508+000	القطاع الأول
1708.00	إجمالي الكميات خلال فترة المستخلص الحالية (م ³)				
11708.00	الإجمالي الكلي (م ³)				

مهندس الهيئة العامة
للطرق والكباري
م / إبراهيم عبد الله الحلوي

مهندس موقع الهيئة العامة
للطرق والكباري
م / مؤمن محمد سرور

مهندس الاستشاري (xyz)
م / محمد شهاب خليل

مهندس الشركة
م / محمد محمد احمد



قائمة كميات بالمستخلص جاري [2]

مشروع : أعمال القطار الكهربائي السريع (العين السخنة -العاصمة الإدارية -العلمين -مطروح) قطاع (فوكة - مطروح) لتنفيذ المسافة من الكم 000+507 الى الكم 509+000 بطول 2 كيلو متر اتجاه استكمال مطروح

رقم البند و بيانه : (2-4) قيمة المادة المحجوزة بمشتملاتها لأعمال طبقات الأساس

قيمة المادة المحجوزة

تسليم : شركة ايبي كونترال - زكريا جابر قلندس وشركه

10000.00 م3

مقدار العمل السابق :

بيان بالكميات	الكمية
الكمية طبقاً للبرامج الكميات (م3)	1708.00
إجمالي الكميات خلال فترة المستخلص الحالية (م3)	1708.00
الاجمالي الكلي (م3)	11708.00

مهندس الهيئة العامة للطرق
والمواصلات
د. أيمن محمد مورو

مهندس برامج هيئة العامة
للطرق والمواصلات
د. أيمن محمد مورو

مهندس الإشراف (Bryce)
م / محمد شهاب خليل

مهندس الشريعة
م / محمد محمد احمد



الهيئة العامة
للطرق والكباري

قائمة الكميات الواردة بالمستخلص جارى 2

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في
المسافة من الكم 507+000 الى الكم 509+000 بطول 2 كيلو متر اتجاه استكمال مطروح

رقم البند و بيانه : (5-1) أعمال توريد وصب خرسانة عادية سمك 15 سم لحماية الأكتاف والميول الجانبية
الكميات المنفذة خلال شهر مايو 2023

تنفيذ : شركة إيجي كونتراك -زكريا جابر قلندس رشيد

مقدار العمل السابق : 0.00 2م

الكمية	بيان الاعمال
11,396.397	الكميات طبقاً لقوائم الكميات
11396.397	اجمالي الكميات خلال فترة المستخلص الحالية (م ²)
11,396.397	الاجمالي الكلي (م ²)

مهندس الهيئة العامة للطرق
والكباري
م / إبراهيم عبد الله الحناوي

مهندس موقع الهيئة العامة
للطرق والكباري
م / مؤمن محمد مرزوق

مهندس الاستشاري (xyz)
م / محمد شهاب خليل

مهندس الشركة
م / محمد محمد أحمد

مؤمن محمد مرزوق

محمد خليل

محمد أحمد



قائمة الكميات الواردة بالمستخلص جارى 2

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في
المسافة من الكم 507+000 الى الكم 509+000 بطول 2 كيلو متر اتجاه استكمال مطروح

رقم البند و بيانه : (5-2) أعمال توريد وصب خرسانة عادية لقدمات الحماية والميول الجانبية
الكميات المنقذة خلال شهر مايو 2023

تنفيذ : شركة إيجي كونتراك -زكريا جابر قلندس رشيد

مقدار العمل السابق : 0.00 3م

بيان الاعمال	الكمية
الكميات طبقاً لقوائم الكميات	300.00
اجمالي الكميات خلال فترة المستخلص الحالية (م ³)	300.00
الاجمالي الكلي (م ³)	300.00

مهندس الهيئة العامة للطرق
والكباري
م / إبراهيم عيسى الحنوي

مهندس موقع الهيئة العامة
للطرق والكباري
م / مؤمن محمد مرور

مهندس الاستشاري (xyz)
م / محمد شهاب خليل

مهندس الشركة
م / محمد محمد احمد

مؤمن محمد مرور

محمد شهاب خليل

محمد محمد احمد



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	507+981+507+991 (L-S)
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
Name of Item	خرسانة مبول		
DATE OF CASTING	12-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	19-Dec-23	7	150	7942	2.35	673.0	304.9	305.2
2			150	7944	2.35	674.0	305.3	
3			150	7940	2.35	674.0	305.3	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		122.1	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 1	 2	 3
			 4	 5	 6
			 7	 8	 9

Remarks :

Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
H. Mohamed	Ahmed Abdel	AMR ATEF
M. Mohamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	507+981+507+992 (I-S)
Customer	EGY CONTRAC	Cement Contents/Type	310 KG - OPC
Name of item	خرسانة مبول		
DATE OF CASTING	12-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	9-Jan-24	28	150	8091	2.40	771.0	349.3	364.2
2			150	7958	2.36	848.0	384.1	
3			150	7971	2.36	793.0	359.2	

النسبة 145.7

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

Satisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range - 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Ahmed Adel	AMR ATEF
M. Mohamed	Ahmed Adel	

الخبر سادة الجاهزة

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	ST:507+840-507+825(L-S) / ST:507+978-507+927(L-D)		
DATE OF CASTING	13-Dec-2023	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cubes	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	20-Dec-23	7	150	8213	2.43	736.0	333.4	291.9
2			150	8066	2.39	588.0	266.4	
3			150	8165	2.42	609.0	275.9	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		116.8 النسبة
Satisfactory	Unsatisfactory	
 A	 B	 C
 1		
 2		
 3		
 4		
 5		
 6		
 7		
 8		
 9		

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Ahmed Adel	AMR ATEF
M. Mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	ST:507+840-507+825(L-S-B1) / ST:507+978-507+927(L-D-B1)		
DATE OF CASTING	13-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY		m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	TYPE OF CURING : Sub in water

n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	20-Dec-23	7	150	7935	2.35	647.0	293.1	278.4
2			150	8245	2.44	588.0	266.4	
3			150	7905	2.34	609.0	275.9	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		111.4	النسبة
Satisfactory	Unsatisfactory		
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	ST:507+840-507+825(L-S) / ST:507+978-507+927(L-D)		
DATE OF CASTING	13-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cubes	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	10-Jan-24	28	150	8122	2.41	771.0	349.3	364.2
2			150	8052	2.39	848.0	384.1	
3			150	8084	2.40	793.0	359.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		145.7	النسبة
Satisfactory Unsatisfactory			

Remarks :

Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع الطائر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	ST:507+840-507+825(L-S) / ST:507+978-507+927(L-D)		
DATE OF CASTING	13-Dec-2023	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY		NO. OF CUBES MADE	6
CONCRETE SLUMP			
TARGET SLUMP		TYPE OF CURING	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	10-Jan-24	28	150	8122	2.41	746.0	337.9	325.3
2			150	8052	2.39	695.0	314.8	
3			150	8084	2.40	713.0	323.0	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983		130.1	النسبة
<u>Satisfactory</u>	<u>Unsatisfactory</u>		
 A	 B	 C	 1
 4	 5	 6	
 7	 8	 9	

Remarks :

Concrete measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.3kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMRATF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1999, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content Type	310 KG - OPC
STATION	508+023-507+084 (L-S-B1) / 507+022-507+783 (L-S-B1)		
DATE OF CASTING	14-Dec-2023	Specified Strength	250 Kg/cm ²
Poured Quantity	m ³	No. of CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	21-Dec-23	7	150	7981	2.36	609.0	312.1	293.2
2			150	7927	2.35	612.0	277.2	
3			150	8086	2.40	641.0	268.4	

117.3 التسمية

MODES OF FAILURE AS PER BS 1881 - Part 116:1983

Satisfactory



Remarks:

Density measurement is carried out in accordance with BS 1881 Part 114 at the as received condition for most specimens or in the saturated condition for laboratory cured specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4 kN/s to 10 kN/s or (0.5 kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



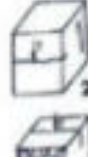
DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	310 KG - OPC
Customer	EGY CONTRAC	Content Content/Type	310 KG - OPC
STATION	508+823-507+984 (L-S-B1) / 507+822-507+783 (L-S-B1)	PECIFIED STRENGTH	250 Kg/cm ²
DATE OF CASTING	14-Dec-2023	NO. OF CUBES MADE	6
POURED QUANTITY	m ³	TYPE OF CURING	Sub in water
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm		

TARGET SLUMP			Cm					
n. Of cut	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ³
1	21-Dec-23	7	150	7981	2.36	540.0	244.6	279.4
2			150	7927	2.35	630.0	285.4	
3			150	8086	2.40	680.0	308.0	
							111.7	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983

Satisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.3kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	508+523-507+984(L-S) / 507+822-507+783 (L-S)		
DATE OF CASTING	14-Dec-2023	PECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY		m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	TYPE OF CURING : Sub in water

No. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	11-Jan-24	28	150	8067	2.39	782.0	354.2	363.6
2			150	8033	2.38	789.0	357.4	
3			150	8019	2.38	837.0	379.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		النسبة 145,4
Satisfactory	Unsatisfactory	
Remarks :		
Density measurement is carried out in accordance with BS 1881/Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)		

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	

AL Sakr
 للخرسانة الجاهزة

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

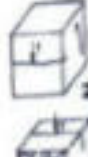
PROJECT	مشروع القطر السريع	STATION
CUSTOMER	EGY CONTRAC	Cement Content/Type 310 KG - OPC
STATION :	508+523-507+984(L-S) / 507+822-507+783 (L-S)	
DATE OF CASTING	14-Dec-2023	PECIFIED STRENGTH : 250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP	Cm	TYPE OF CURING : Sub in water
TARGET SLUMP	Cm	

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	11-Jan-24	28	150	8067	2.39	928.0	420.4	413.0
2			150	8033	2.38	880.0	398.6	
3			150	8019	2.38	927.0	419.9	

النسبة 165.2

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

Satisfactory



Remarks :

Density assessment is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	508+026.0 - 508+029.0 (L-S) B1		
DATE OF CASTING	16-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	23-Dec-23	7	150	7845	2.32	615.0	278.6	282.1
2			150	8079	2.39	622.0	281.8	
3			150	8076	2.39	631.0	285.8	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		النسبة 112.8
Satisfactory	Unsatisfactory	
Remarks : Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (6.8kN/s)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
محمد محمود محمد محمود	أحمد Adel أحمد Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	508+820-507+981 (L-D) / 507+837-507+792 (L-D)		
DATE OF CASTING	16-Dec-2023	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L.	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	23-Dec-23	7	150	7938	2.35	585.0	265.0	297.3
2			150	8049	2.38	693.0	313.9	
3			150	8041	2.38	691.0	313.0	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983						118.9	النسبة
Satisfactory			Unsatisfactory				

Remarks :
 Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C.MANAGER
m. mahmoud	Ahmed Adel	
m. mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	508+026.0 - 508+029.0 (L-S) B1		
DATE OF CASTING	16-Dec-2023	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	13-Jan-24	28	150	7938	2.35	846.0	383.2	393.4
2			150	8049	2.38	893.0	404.5	
3			150	8041	2.38	866.0	392.3	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983						157.3	النسبة
Satisfactory			Unsatisfactory				

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m-mahmoud	Ahmed Adel	AMR ATEF
m-mahmoud	Ahmed Adel	

محمد الكسندر
 مدير المشروع

AL Sakr للخرسانة الجاهزة

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

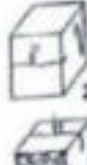
PROJECT	مشروع القطار السريع	STATION	310	KG - OPC
Customer	EGY CONTRAC	Cement Content/Type	250	Kg/cm ³
STATION	508+820-507+981 (L-D) / 507+837-507+792 (L-D)	Specified Strength	6	
DATE OF CASTING	16-Dec-2023	NO. OF CUBES MADE	6	
POURED QUANTITY	m ³	TYPE OF CURING	Sub in water	
CONCRETE SLUMP	Cm			
TARGET SLUMP	Cm			

s. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	13-Jan-24	28	150	7957	2.36	888.0	402.3	403.8
2			150	7973	2.36	908.0	411.3	
3			150	7998	2.37	878.0	397.7	

النسبة 161.5

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

Satisfactory



Unsatisfactory

Remarks

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Adel	AMIRATEF
m. mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر المربع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	508+024-508+023(L-D) / 507+789-507+768 (L-D)		
DATE OF CASTING	17-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

a. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	24-Dec-23	7	150	7935	2.35	647.0	293.1	278.4
2			150	8245	2.44	588.0	266.4	
3			150	7905	2.34	609.0	275.9	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		111.4	النسبة
<u>Satisfactory</u>	<u>Unsatisfactory</u>		
 A	 B	 C	 1
 2	 3	 4	 5
 6	 7	 8	 9

Remarks:
Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Abdel	 A. mahmoud للخرسانة الجاهزة
ym. mahmoud	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	508+024-508+023(L-D) / 507+789-507+768 (L-D)		
DATE OF CASTING	17-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	14-Jan-24	28	150	7935	2.35	634.0	287.2	302.5
2			150	8245	2.44	687.0	311.2	
3			150	7905	2.34	682.0	308.9	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

121.0

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
m. mahmoud	Ahmed Adel	AMRATY
m. mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	508+074-508+089(L-S-B1) / 507+681-507+780 (L-S-B1)/ 508+035-508+044(L-S-B1)		
DATE OF CASTING	19-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	26-Dec-23	7	150	8070	2.39	540.0	244.6	279.4
2			150	8140	2.41	630.0	285.4	
3			150	7995	2.37	680.0	308.0	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983

111.7 النسبة

Satisfactory

Unsatisfactory



Remarks :

Quality assessment is carried out in accordance with BS 1881/Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	508+074-508+089(L-S-B1) / 507+681-507+780 (L-S-B1)/ 508+035-508+044(L-S-B1)		
DATE OF CASTING	19-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

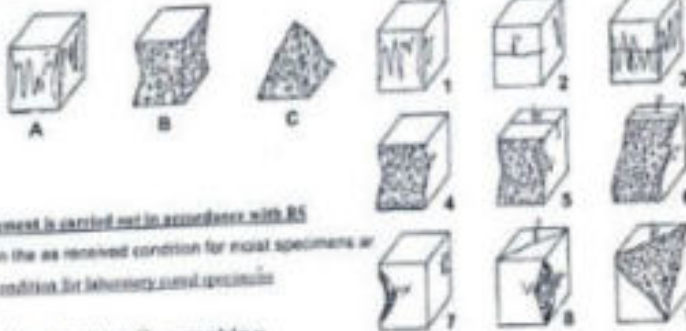
n. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	26-Dec-23	7	150	8143	2.41	655.0	296.7	281.6
2			150	8140	2.41	610.0	276.3	
3			150	8100	2.40	600.0	271.8	

النسبة 112.6

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

Satisfactory

Unsatisfactory



Remarks:

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Abdel	AMR ATEF
M. Mahmoud	Ahmed Abdel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	508+074-508+089(L-S-B1) / 507+681-507+780 (L-S-B1)/ 508+035-508+044(L-S-B1)		
DATE OF CASTING	19-Dec-2023	PECIFIED STRENGTH	250 Kg/cm ²
POLURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	16-Jan-24	28	150	8127	2.41	916.0	414.9	404.7
2			150	8140	2.41	914.0	414.0	
3			150	8094	2.40	850.0	385.1	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983						161.9	النسبة
<u>Satisfactory</u>			<u>Unsatisfactory</u>				
							
							
							

Remarks :

Results measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION
Customer	EGY CONTRAC	Cement Content/Type 310 KG - OPC
STATION :	508+074-508+089(L-S-B1) / 507+681-507+780 (L-S-B1)/ 508+035-508+044(L-S-B1)	
DATE OF CASTING	19-Dec-2023	SPECIFIED STRENGTH : 250 Kg/cm ²
Poured QUANTITY	m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	TYPE OF CURING : Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	16-Jan-24	28	150	8143	2.41	890.0	403.2	414.5
2			150	8140	2.41	978.0	443.0	
3			150	8100	2.40	877.0	397.3	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983						165.8	المتوسط
Satisfactory			Unsatisfactory				
							
							
							

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (6.5kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATIF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st:508+029-508+032(L-D-B1) / st:508+077-508+086 (L-D-B1) st:507+702-507+765(L-D-B1) / st:508+092-508+101(L-S-B1)		
DATE OF CASTING	20-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY		NO. OF CUBES MADE	6
CONCRETE SLUMP			
TARGET SLUMP		TYPE OF CURING	Sub in water

n. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	27-Dec-23	7	150	8145	2.41	644.0	291.7	285.4
2			150	8100	2.40	630.0	285.4	
3			150	8133	2.41	616.0	279.0	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		النسبة	114.2
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
 2	 3	 4	 5
 6	 7	 8	 9

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens.

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع		STATION					
Customer	EGY CONTRAC		Cement Content/Type	310	KG - OPC			
STATION	st:508+029-508+032(L-D-B1) / st:508+077-508+086 (L-D-B1) st:507+702-507+765(L-D-B1) / st:508+092-508+101(L-S-B1)							
DATE OF CASTING	20-Dec-2023		SPECIFIED STRENGTH	250	Kg/cm ²			
POURED QUANTITY		m ³	NO. OF CUBES MADE	6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING	Sub in water				
1								
n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	17-Jan-24	28	150	8040	2.38	592.0	268.2	268.0
2			150	8094	2.40	578.0	261.8	
3			150	8148	2.41	605.0	274.1	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983		107.2	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 1	 2	 3
			 4	 5	 6
			 7	 8	 9
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens					
Note : T indicates tensile cracking					
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (5.5kN/S)					
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER			
M. Mahmoud	Ahmed Adel	AMR ATEF			
M. Mahmoud	Ahmed Adel				



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st:508+032-508+041(L-D-B1) / st:508+089 - 508+098 (L-D-B1) st:507+684 - 507+699(L-D-B1) / st:507+648 - 507+681(L-S-B1)		
DATE OF CASTING	21-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (Kg/cm ²)	Average (kg/cm ²)
1	28-Dec-23	7	150	8120	2.41	643.0	291.3	283.6
2			150	8100	2.40	615.0	278.6	
3			150	8110	2.40	620.0	280.9	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		113.4	النسبة
Satisfactory Unsatisfactory			
Remarks: Results measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens Note : T indicates tensile cracking Remarks: Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
M. Mahmoud	Ahmed Adel	AMR ATEF	
M. Mahmoud	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع الطائر المربع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	31:20871012-20871013 (C-P-BT) / 31:20871014-20871015 (C-P-BT)		
DATE OF CASTING	21-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY		m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	TYPE OF CURING : Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	28-Dec-23	7	150	8120	2.41	611.0	276.8	285.2
2			150	8100	2.40	625.0	283.1	
3			150	8110	2.40	653.0	295.8	

النسبة 114.1

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

Satisfactory **Unsatisfactory**

A

B

C

1

2

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4

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6

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8

9

Remarks :
Quality assessment is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens or in the saturated condition for laboratory tested specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMIRATEE
M. Mahmoud	Ahmed Adel	

AL Sakr
 للخرسانة الجاهزة

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	st:508+032-508+041(L-D-B1) / st:508+089 - 508+098 (L-D-B1) st:507+684 - 507+699(L-D-B1) / st:507+648 - 507+681(L-S-B1)		
DATE OF CASTING	21-Dec-2023	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	18-Jan-24	28	150	8070	2.39	855.0	387.3	390.8
2			150	8122	2.41	841.0	381.0	
3			150	8186	2.43	892.0	404.1	

MODUS OF FAILURE AS PER BS 1881 - Part 116 : 1983	النسبة 156.3	
<u>Satisfactory</u>    <u>Unsatisfactory</u>         		
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens and in the saturated condition for laboratory cured specimens.		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
Mr. Mohamed	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	st:508+032-508+041(L-D-B1) / st:508+089 - 508+098 (L-D-B1) st:507+684 - 507+699(L-D-B1) / st:507+648 - 507+681(L-S-B1)		
DATE OF CASTING	21-Dec-2023	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	18-Jan-24	28	150	8014	2.37	851.0	385.5	388.8
2			150	8057	2.39	864.0	391.4	
3			150	8142	2.41	860.0	389.6	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

Satisfactory



النسبة 155.5

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع		STATION	310 KG - OPC	
Customer	EGY CONTRAC		Cement Content/Type	310 KG - OPC	
STATION	st:507+651 to 507+678 (L.D.B1) / st:507+606 to 507+645 (L.S.B1) / st:508+047 to 508+074 (L.S.B1) / st:508+104 to 508+119 (L.S.B1)		PECIFIED STRENGTH	250 Kg/cm ²	
DATE OF CASTING	23-Dec-2023		NO. OF CUBES MADE	6	
POURED QUANTITY	m ³		TYPE OF CURING	Sub in water	
CONCRETE SLUMP	Cm				
TARGET SLUMP	Cm				

n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	30-Dec-23	7	150	8095	2.40	728.0	329.8	314.5
2			150	8009	2.37	665.0	301.2	
3			150	8028	2.38	690.0	312.6	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

Satisfactory



Unsatisfactory

Remarks :

Results measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory-cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	310 KG - OPC
CUSTOMER	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st:507+651 to 507+678 (L.S.B1) / st:507+606 to 507+645 (L.S.B1) / st:508+047 to 508+074 (L.S.B1) / st:508+104 to 508+119 (L.S.B1)	PECIFIED STRENGTH	250 Kg/cm ²
DATE OF CASTING	23-Dec-2023	NO. OF CUBES MADE	6
POURED QUANTITY	m ³	TYPE OF CURING	Sub in water
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm		

n. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	30-Dec-23	7	150	8327	2.47	691.0	313.0	303.2
2			150	7980	2.36	621.0	281.3	
3			150	8160	2.42	696.0	315.3	

النسبة 121.3

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

Satisfactory



Unsatisfactory

Remarks :

Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for most specimens or in the saturated condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	

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 للخرسانة الجاهزة

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6728:1991

PROJECT	مشروع مطار السبع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st:507+651 to 507+678 (L.D.B1) / st:507+696 to 507+645 (L.S.B1) / st:508+647 to 508+074 (L.S.B1) / st:508+104 to 508+119 (L.S.B1)		
DATE OF CASTING	23-Dec-2023	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm	TYPE OF CURING	Sub in water
TARGET SLUMP	Cm		

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	26-Jan-24	28	150	8114	2.40	774.0	358.6	359.1
2			150	8088	2.37	798.0	361.5	
3			150	7995	2.37	806.0	365.1	

النسبة 143.6

MODES OF FAILURE AS PER BS 1881 - Part 116:1983

Satisfactory

Unsatisfactory


A


B


C


1


2


3


4


5


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7


8


9

Remarks: Quality measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens or as the saturated condition for laboratory used specimens

Note: T indicates tensile cracking

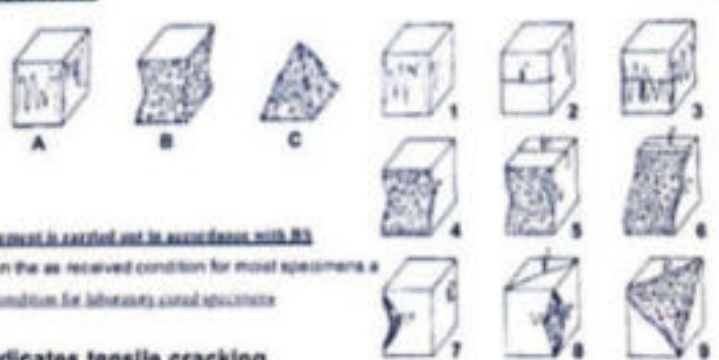
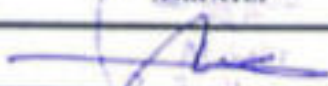
Remarks: Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Ahmed Adel	AMR ATEF
M. Mohamed	Ahmed Adel	

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 للخرسانة الجاهزة

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع المطار السريع		STATION					
Customer	EGY CONTRAC		Cement Content/Type 310 KG - OPC					
STATION	st:507+651 to 507+678 (L.D.B1) / st:507+606 to 507+645 (L.S.B1) / st:508+047 to 508+074 (L.S.B1) / st:508+104 to 508+119 (L.S.B1)							
DATE OF CASTING	23-Dec-2023		PECIFIED STRENGTH : 250 Kg/cm ²					
POURED QUANTITY	m ³		NO. OF CUBES MADE : 6					
CONCRETE SLUMP	Cm							
TARGET SLUMP	Cm		TYPE OF CURING Sub in water					
n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	20-Jan-24	28	150	8070	2.39	795.0	360.1	364.2
2			150	8149	2.41	687.0	311.2	
3			150	8065	2.39	930.0	421.3	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		145.7	التسمية
Satisfactory	Unsatisfactory		
			
Remarks :			
Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens & in the saturated condition for laboratory cured specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mahmoud	Ahmed Adel	AMRATFI	
M. Mahmoud	Ahmed Adel		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+044-508+071 L-D / at 508+122-508+131 L-S		
DATE OF CASTING	24-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	31-Dec-23	7	150	8129	2.41	709.0	321.2	332.7
2			150	7967	2.36	755.0	342.0	
3			150	8031	2.38	739.0	334.8	

		133.1	النسبة
MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983			
<u>Satisfactory</u>		<u>Unsatisfactory</u>	
			
			
			

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5 kN/S to 9.0 kN/S or (6.8 kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Ahmed Adel	AMR ATEF
M. Mohamed	Ahmed Adel	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+101-508+116 L-D / at 507+609-507+648 L-D		
DATE OF CASTING	24-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cubes	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	31-Dec-23	7	150	7836	2.32	839.0	380.1	329.6
2			150	8030	2.38	578.0	261.8	
3			150	8214	2.43	766.0	347.0	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		النسبة 131.9
Satisfactory   	Unsatisfactory         	
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	ASIRATRE
M. Mahmoud	Ahmed Adel	 للخرسانة الجاهزة

27

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AL Sakr للخرسانة الجاهزة

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	Cement Content/Type	310	KG - OPC
Customer	EGY CONTRAC				
STATION	at 508+044-508+071 L-D / at 508+122-508+131 L-S				
DATE OF CASTING	24-Dec-2023	SPECIFIED STRENGTH	250	Kg/cm ²	
POURED QUANTITY	m ³	NO. OF CUBES MADE	6		
CONCRETE SLUMP	Cm				
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water		

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	21-Jan-24	28	150	8058	2.39	678.0	307.1	314.8
2			150	8088	2.40	711.0	322.1	
3			150	8117	2.41	696.0	315.3	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

النسبة 125.9

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
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m. mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+101-508+116 L-D / at 507+609-507+648 L-D		
DATE OF CASTING	24-Dec-2023	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	21-Jan-24	28	150	8093	2.40	682.0	308.9	333.4
2			150	8086	2.40	689.0	312.1	
3			150	8149	2.41	837.0	379.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		133.4	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
 2	 3	 4	 5
 6	 7	 8	 9

Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

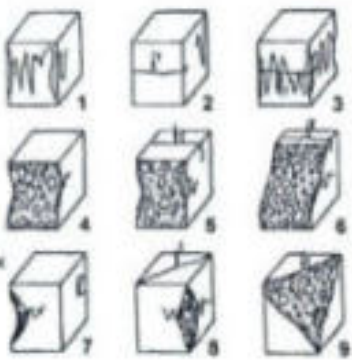
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m-mahmoud	Ahmed Adel	AMR ATEF
m-mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع		STATION		
Customer	EGY CONTRAC		Cement Content/Type	310	KG - OPC
STATION	at 508+119-508+128 L-D - B ₁				
DATE OF CASTING	25-Dec-2023		SPECIFIED STRENGTH	250	Kg/cm ²
POURED QUANTITY		m ³	NO. OF CUBES MADE	6	
CONCRETE SLUMP		Cm			
TARGET SLUMP		Cm	TYPE OF CURING	Sub in water	

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	1-Jan-24	7	150	7776	2.30	659.0	298.5	301.4
2			150	7736	2.29	641.0	290.4	
3			150	7756	2.30	696.0	315.3	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		120.6	النسبة
Satisfactory		Unsatisfactory	
			
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens are in the saturated condition for laboratory cured specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
m-mahmoud	Ahmed Adel		
m-mahmoud	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+119-508+128 L-D-91		
DATE OF CASTING	25-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	22-Jan-24	28	150	7990	2.37	847.0	383.7	386.1
2			150	8012	2.37	855.0	387.3	
3			150	7910	2.34	855.0	387.3	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

154.4

النسبة

SatisfactoryUnsatisfactory

Remarks :

Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range ~ 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m-mahmoud	Ahmed Adel	AMR ATEF
m-mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	st 508+185-508+134 L-S		
DATE OF CASTING	26-Dec-2023	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	2-Jan-24	7	150	7630	2.26	806.0	365.1	386.7
2			150	7726	2.29	872.0	395.0	
3			150	7725	2.29	883.0	400.0	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		154.7	النسبة
<u>Satisfactory</u>			<u>Unsatisfactory</u>
 A	 B	 C	 1
			 2
			 3
			 4
			 5
			 6
			 7
			 8
			 9

Remarks :

Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m-mohamed	Ahmed Adel	
m-mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION			at 508+200-508+239 L-S
DATE OF CASTING	26-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

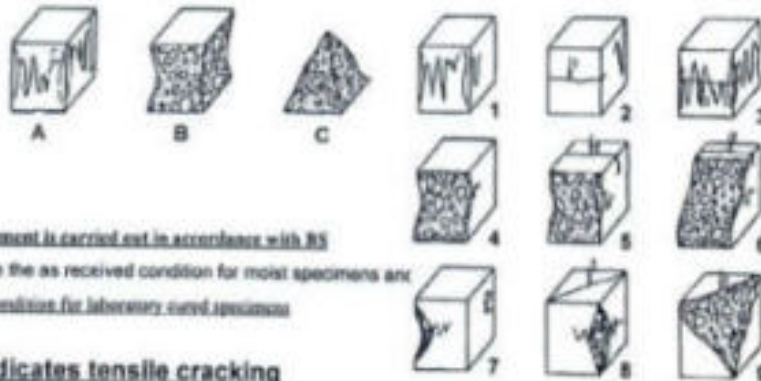
No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L.	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	2-Jan-24	7	150	7744	2.29	805.0	364.7	373.0
2			150	7822	2.32	901.0	408.2	
3			150	7712	2.29	764.0	346.1	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

149.2 النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Adel	AMR ATEL
m. mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	Cement Content/Type	310	KG - OPC
Customer	EGY CONTRAC				
STATION			st 508+185-508+134 L-S		
DATE OF CASTING	26-Dec-2023	SPECIFIED STRENGTH	250	Kg/cm ²	
POURED QUANTITY	m ³	NO. OF CUBES MADE	6		
CONCRETE SLUMP	Cm				
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water		

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	23-Jan-24	28	150	8145	2.41	913.0	413.6	421.4
2			150	8005	2.37	905.0	410.0	
3			150	8035	2.38	973.0	440.8	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

168.6

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS

1881:Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
m. mahmoud	Ahmed Adel	AMR ATEF
m. mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+200.0 - 508+239.0 (L-S) B 1		
DATE OF CASTING	26-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	23-Jan-24	28	150	7990	2.37	890.0	403.2	416.6
2			150	8114	2.40	908.0	411.3	
3			150	8003	2.37	961.0	435.3	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983

النسبة 166.6

Satisfactory

Unsatisfactory



Remarks:

Direct measurement is carried out in accordance with BS 1881-Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Adel	AMR ATEF
m. mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+182-508+131 L-D / at 508+197-508+188 L-S		
DATE OF CASTING	27-Dec-2023	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cubes	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	3-Jan-24	7	150	8233	2.44	643.0	291.3	298.4
2			150	7896	2.34	652.0	295.4	
3			150	8131	2.41	681.0	308.5	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983

119.4

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS

1881:Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m-mahmoud	Abdul Adel	
m-mahmoud	Abdul Adel	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st 508+236-508+203 L-D / st 508+275-508-242 L-S	PECIFIED STRENGTH	250 Kg/cm ²
DATE OF CASTING	27-Dec-2023	NO. OF CUBES MADE	6
POURED QUANTITY	m ³		
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cubes	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	3-Jan-24	7	150	8234	2.44	669.0	303.1	295.7
2			150	8046	2.38	657.0	297.6	
3			150	7963	2.36	632.0	286.3	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

118.3

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. mahmoud	Ahmed Ad-1	AMR-ATEF
M. mahmoud	Ahmed Ad-1	AMR-ATEF





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار المربع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st 508+182-508+131 L-D / st 508+197-508+188 L-S		
DATE OF CASTING	27-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	24-Jan-24	28	150	8067	2.39	722.0	327.1	385.7
2			150	8088	2.40	951.0	430.8	
3			150	8033	2.38	881.0	399.1	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

154.3

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC-MANAGER
m. mohamed	Abdul Adel	AMR ATES
m. mohamed	Abdul Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+236-508+203 L-D / at 508+275-508-243 L-S		
DATE OF CASTING	27-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	24-Jun-24	28	150	8051	2.39	670.0	303.5	374.5
2			150	8043	2.38	896.0	405.9	
3			150	8055	2.39	914.0	414.0	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		149.8	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 1	 2	 3
			 4	 5	 6
			 7	 8	 9

Remarks : Exempts measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens and in the saturated condition for laboratory used specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.3kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Abdul Adel	AMR ATEF
M. Mohamed	Abdul Adel	

AL Sakr
مكتب المهندس
تقنية الجاهزة

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع الفطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+272-508+239 L-D		
DATE OF CASTING	28-Dec-2023	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	4-Jan-24	7	150	8080	2.39	694.0	314.4	311.1
2			150	7991	2.37	657.0	297.6	
3			150	8007	2.37	709.0	321.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		124.4	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
		 2	 3
		 4	 5
		 6	 7
		 8	 9

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens are in the saturated condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m.mahmoud	Abdul Adel	AMRATYF
m.mahmoud	Abdul Adel	A. H. SOUFI



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+359-508+278 L-S		
DATE OF CASTING	28-Dec-2023	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

a. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	4-Jan-24	7	150	7940	2.35	697.0	315.7	310.9
2			150	7951	2.36	673.0	304.9	
3			150	7945	2.35	689.0	312.1	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		124.4	النسبة
Satisfactory Unsatisfactory			
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens and in the saturated condition for laboratory cured specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
m. mahmoud	Ahmed Adel	AMRATY	
m. mahmoud	Ahmed Adel	AL Sakr	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+200-508+185 L-D		
DATE OF CASTING	28-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	4-Jan-24	7	150	8021	2.38	662.0	299.9	295.8
2			150	8001	2.37	667.0	302.2	
3			150	7995	2.37	630.0	285.4	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

118.3

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER *	Q.C MANAGER
m. mahmoud	Ahmed Adel	AMR ATTE
m. mahmoud	Ahmed Adel	Amr Attia



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st 508+272-508+239 L-D		
DATE OF CASTING	28-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	25-Jan-24	28	150	8195	2.43	945.0	428.1	406.5
2			150	8094	2.40	901.0	408.2	
3			150	8072	2.39	846.0	383.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		162.6	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
			 2
			 3
			 4
			 5
			 6
			 7
			 8
			 9

Remarks:

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mathmanab	Ahmed Adel	AMR ATEF
M. Mathmanab	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع الفطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+359-508+278 L-S		
DATE OF CASTING	28-Dec-2023	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	25-Jan-24	28	150	8250	2.44	1002.0	453.9	422.0
2			150	8085	2.40	889.0	402.7	
3			150	8114	2.40	904.0	409.5	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		168.8	النسبة
Satisfactory	Unsatisfactory		
Remarks :			
Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for most specimens are in the saturated condition for laboratory cured specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
m-mahmoud	Abdul Adel	AMR ATEF	
m-mahmoud	Abdul Adel		





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+200.508+185 L-D		
DATE OF CASTING	28-Dec-2023	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	25-Jan-24	28	150	8140	2.41	868.0	393.2	401.5
2			150	8125	2.41	885.0	400.9	
3			150	8097	2.40	906.0	410.4	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		160.6	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
 2	 3	 4	 5
 6	 7	 8	 9

Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens are in the saturated condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6 kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m-mahmoud	Ahmed Adel	AMR ATEF
m-mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+356-508+305 L-D		
DATE OF CASTING	30-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	6-Jan-24	7	150	8004	2.37	672.0	304.4	284.0
2			150	7988	2.37	631.0	285.8	
3			150	7990	2.37	578.0	261.8	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		113.6	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
			 2
			 3
			 4
			 5
			 6
			 7
			 8
			 9

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Adel	
m. mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION			at 508+371-508+362 L-S
DATE OF CASTING	30-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	6-Jan-24	7	150	8023	2.38	685.0	310.3	286.7
2			150	8020	2.38	602.0	272.7	
3			150	8016	2.38	612.0	277.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983						114.7	النسبة
<u>Satisfactory</u>			<u>Unsatisfactory</u>				
A	B	C	1	2	3		
	4	5	6				
	7	8	9				

Remarks :

Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mohamed	Ahmed Adel	AMR ATEF
m. mohamed	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION		
Customer	EGY CONTRAC	Cement Content/Type	310	KG - OPC
STATION	at 508+356-508+305 L-D			
DATE OF CASTING	30-Dec-2023	SPECIFIED STRENGTH	250	Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6	
CONCRETE SLUMP	Cm			
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water	

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	27-Jan-24	28	150	8120	2.41	1011.0	458.0	461.0
2			150	8166	2.42	1020.0	462.1	
3			150	8083	2.39	1022.0	463.0	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		184.4	النسبة
Satisfactory Unsatisfactory			
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
m. mohamed	Ahmed Adel	AMR ATEF	
m. mohamed	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع الطائر المربع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+371-508+362 L-S		
DATE OF CASTING	30-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

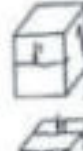
No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	27-Jan-24	28	150	8098	2.40	920.0	416.8	444.4
2			150	8047	2.38	990.0	448.5	
3			150	8073	2.39	1033.0	467.9	

177.8

النسبة

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983

Satisfactory



Remarks :

Exactly measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m.mahmoud	Ahmed Adel	AMR ATEF
m.mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st 508+302-508+275 L-D / st 508+368-508+359 L-D		
DATE OF CASTING	31-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

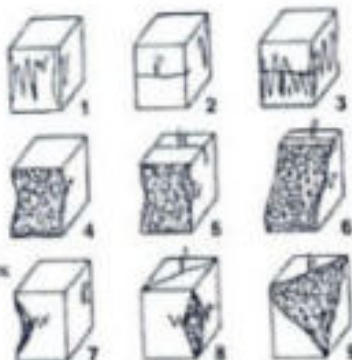
No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	7-Jan-24	7	150	8003	2.37	711.0	322.1	310.6
2			150	7960	2.36	690.0	312.6	
3			150	7891	2.34	656.0	297.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		124.2	النسبة
• <u>Satisfactory</u>   		<u>Unsatisfactory</u>         	
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens <u>Note : T indicates tensile cracking</u> Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
sm. mahmoud	Ahmed Adel		
sm. mahmoud	Ahmed Adel		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	st 508+443-508+374 L-S		
DATE OF CASTING	31-Dec-2023	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	7-Jan-24	7	150	7919	2.35	646.0	292.6	307.1
2			150	7964	2.36	675.0	305.8	
3			150	7997	2.37	713.0	323.0	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		122.9 التسمية
Satisfactory	Unsatisfactory	
		
Remarks :		
Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. Mahmoud	Amr Abdel	
m. mahmoud	Amr Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع		STATION		
Customer	EGY CONTRAC		Cement Content/Type	310	KG - OPC
STATION	at 508+302-508+275 L-D / at 508+368-508+359 L-D				
DATE OF CASTING	31-Dec-2023		SPECIFIED STRENGTH	250	Kg/cm ²
POURED QUANTITY		m ³	NO. OF CUBES MADE	6	
CONCRETE SLUMP		Cm			
TARGET SLUMP		Cm	TYPE OF CURING	Sub in water	

No. Of cy	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	28-Jan-24	28	150	8057	2.39	860.0	389.6	374.6
2			150	8100	2.40	855.0	387.3	
3			150	8020	2.38	766.0	347.0	

النسبة 149.9

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

Satisfactory



Remarks:

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahgoub	Abdul Adel	AMR ATEF
m. mahgoub	Abdul Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION			st 508+374.0 - 508+443.0 L-S B1
DATE OF CASTING	31-Dec-2023	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	28-Jan-24	28	150	8075	2.39	756.0	342.5	354.7
2			150	7987	2.37	820.0	371.5	
3			150	7994	2.37	773.0	350.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		141.9	النسبة
Satisfactory Unsatisfactory			
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory stored specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range ~ 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
m. mahmoud	Ahmed Adel	AMR ATEF	
m. mahmoud	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+422-508+371 L-D		
DATE OF CASTING	1-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	8-Jan-24	7	150	8070	2.39	731.0	331.1	313.9
2			150	7994	2.37	659.0	298.5	
3			150	8024	2.38	689.0	312.1	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

125.6

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed A21	AMRATY
m. mahmoud	Ahmed A21	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION		at 508+449-508-446 L-S	
DATE OF CASTING	1-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	8-Jan-24	7	150	7940	2.35	628.0	284.5	305.5
2			150	7980	2.36	680.0	308.0	
3			150	8032	2.38	715.0	323.9	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

122.2

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Adel	AMR ATEE
m. mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+449-508-446 L-S		
DATE OF CASTING	1-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	29-Jan-24	28	150	8100	2.40	971.0	439.9	457.2
2			150	8120	2.41	945.0	428.1	
3			150	8032	2.38	1112.0	503.7	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		182.9	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 1	 2	 3
 4	 5	 6	 7	 8	 9

Remarks:

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Adel	AMR KATEF
m. mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	u 508+371.0 - 508-422.0 L-D B 1		
DATE OF CASTING	1-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	29-Jan-24	28	150	8046	2.38	1012.0	458.4	454.2
2			150	8098	2.40	1001.0	453.5	
3			150	8076	2.39	995.0	450.7	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

181.7

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens and in the saturated condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m.mahmoud	Amr Adel	AMR-ATEF
m.mahmoud	Amr Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st 508+446-508+425	L-D / st 508+467-508+452	L-S
DATE OF CASTING	2-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

Q. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	9-Jan-24	7	150	8050	2.39	628.0	284.5	271.6
2			150	7986	2.37	560.0	253.7	
3			150	8017	2.38	611.0	276.8	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983	108.7	النسبة
<u>Satisfactory</u>    <u>Unsatisfactory</u>         		
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Adel	AMR ATEF
m. mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+446-508+425 L-D / at 508+467-508+452 L-S		
DATE OF CASTING	2-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	30-Jan-24	28	150	8070	2.39	758.0	343.4	342.0
2			150	8092	2.40	747.0	338.4	
3			150	8100	2.40	760.0	344.3	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

136.8

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	O.C. MANAGER
m. mahmoud	Ahmed Adel	AMR ATEF
m. mahmoud	Ahmed Adel	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+198.5-508+141.5 (L-S-B2) / at 508+327.5-508+300.5 (L-S-B2)		
DATE OF CASTING	4-Jan-2024	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY		NO. OF CUBES MADE	6
CONCRETE SLUMP			
TARGET SLUMP		TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	11-Jan-24	7	150	8033	2.38	676.0	306.2	313.0
2			150	7990	2.37	747.0	338.4	
3			150	8006	2.37	650.0	294.5	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		125.2	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
			 2
			 3
			 4
			 5
			 6
			 7
			 8
			 9

Remarks :
 Results measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Ahmed Afel	AMR ATEF
M. Mohamed	Ahmed Afel	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	st 508+198.5-508+141.5 (L-S-B2) / st 508+327.5-508+300.5 (L-S-B2)		
DATE OF CASTING	4-Jan-2024	PECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY		NO. OF CUBES MADE :	6
CONCRETE SLUMP			
TARGET SLUMP		TYPE OF CURING :	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	11-Jan-24	7	150	8033	2.38	675.0	260.5	296.7
2			150	7990	2.37	723.0	327.5	
3			150	8006	2.37	667.0	302.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

118.7

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory used specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6 kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+198.5-508+141.5 (L-S-B2) / at 508+327.5-508+300.5 (L-S-B2)		
DATE OF CASTING	4-Jan-2024	PECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY		m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	TYPE OF CURING : Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	1-Feb-24	28	150	8145	2.41	818.0	370.6	390.3
2			150	8140	2.41	885.0	400.9	
3			150	8149	2.41	882.0	399.5	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		156.1	النسبة
Satisfactory Unsatisfactory			
Remarks : Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
M. Mahmoud	Ahmed Adel	AMR ATEF	
M. Mahmoud	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع مطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+198.5-508+141.5 (L-S-B2) / at 508+327.5-508+300.5 (L-S-B2)		
DATE OF CASTING	4-Jan-2024	PECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	1-Feb-24	28	150	8145	2.41	739.0	334.8	376.0
2			150	8140	2.41	758.0	343.4	
3			150	8149	2.41	993.0	449.8	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		150.4	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 1	 2	 3
 4	 5	 6			
 7	 8	 9			

Remarks :
Density measurement is carried out in accordance with BS 1881/Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	

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DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st 508+201.5-508+144.5 L-D Ber-2		
DATE OF CASTING	6-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	13-Jan-24	7	150	8001	2.37	656.0	297.2	283.7
2			150	7983	2.37	625.0	283.1	
3			150	8027	2.38	598.0	270.9	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		113.5	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
 4	 5	 6	
 7	 8	 9	
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.6kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
m. mahmoud	Abdul Adel		
m. mahmoud	Abdul Adel		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	Cement Content/Type 310 KG - OPC
Customer	EGY CONTRAC		
STATION	st 508+138.5-508+135.5 L-5 st 508+387.5-508+330.5 L-5		Bar 2
DATE OF CASTING	6-Jan-2024	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	13-Jan-24	7	150	8036	2.38	648.0	293.5	288.4
2			150	8049	2.38	650.0	294.5	
3			150	8012	2.37	612.0	277.2	

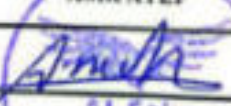
MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		115.4	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 1	 2	 3
			 4	 5	 6
			 7	 8	 9

Remarks :

Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range ~ 4.3kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Adel	AMR ATEF
m. mahmoud	Ahmed Adel	

AL Sakr
معمل المستقر 2
للخرسانة الجاهزة



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+201.5-508+144.5 L-D Δ 2		
DATE OF CASTING	6-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	3-Feb-24	28	150	7986	2.37	830.0	376.0	371.3
2			150	8050	2.39	854.0	386.9	
3			150	7994	2.37	775.0	351.1	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		148.5	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
 4	 5	 6	 7
 8	 9		

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
Mr. mahmoud	Abdul	AMR ALEF
Mr. mahmoud	Abdul	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	At 508+330.5 - 508+387.5 L-S B 2		
DATE OF CASTING	6-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	3-Feb-24	28	150	7958	2.36	817.0	370.1	369.2
2			150	7986	2.37	858.0	388.7	
3			150	7958	2.36	770.0	348.8	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		147.7	النسبة
<u>Satisfactory</u>	<u>Unsatisfactory</u>		
 A	 B	 C	 1
			 2
			 3
			 4
			 5
			 6
			 7
			 8
			 9

Remarks :

Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens and in the oven-dried condition for laboratory cured specimens.

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Adel	AMR ATEF
m. mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	st 508+449-508+458 L-D		
DATE OF CASTING	14-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	21-Jan-24	7	150	7917	2.35	733.0	332.0	310.5
2			150	8001	2.37	646.0	292.6	
3			150	7955	2.36	677.0	306.7	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		124.2	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
			 2
			 3
			 4
			 5
			 6
			 7
			 8
			 9

Remarks : Quality measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m-mahmoud	Ahmed Adel	AMR ATEF
m-mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION			at 508+449-508+458 L-D
DATE OF CASTING	14-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	11-Feb-24	28	150	8217	2.43	818.0	370.6	390.3
2			150	8174	2.42	885.0	400.9	
3			150	8061	2.39	882.0	399.5	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983						156.1	التسليم
Satisfactory			Unsatisfactory				

Remarks: Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. mahmoud	Abdul Adel	AMR ATEF
M. mahmoud	Abdul Adel	AL SAKR



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع المطار الجديد	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+200.5-508+201.5 L-S-B ₁		
DATE OF CASTING	15-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	22-Jan-24	7	150	8060	2.39	575.0	260.5	296.7
2			150	8335	2.47	723.0	327.5	
3			150	8141	2.41	667.0	302.2	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983		118.7	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 1	 2	 3
 4	 5	 6	 7	 8	 9

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C.MANAGER
m. mahmoud	Ahmed Abdel	AMRATET
m. mahmoud	Ahmed Abdel	

معمل المتصل 2
للخرسانة الجاهزة



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	310 KG - OPC
Customer	EGY CONTRAC	Cement Content/Type	250 Kg/cm ³
STATION	at 508+201.5 L-S-8	NO. OF CUBES MADE	6
DATE OF CASTING	15-Jan-2024	TYPE OF CURING	Sub in water
POURED QUANTITY	m ³		
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm		

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	12-Feb-24	28	150	8004	2.37	816.0	369.6	374.0
2			150	8024	2.38	863.0	390.9	
3			150	7995	2.37	798.0	361.5	

النسبة 149.6

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983

Satisfactory



Unsatisfactory

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	O.C MANAGER
m. mahmoud	Amr Abdel	AMR ATEF
m. mahmoud	Amr Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+303.5 - 508+318.5 L-D R 2 / at 508+204.5 - 508+207.5 L-D R 2		
DATE OF CASTING	16-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	23-Jan-24	7	150	8075	2.39	664.0	300.8	293.5
2			150	7935	2.35	644.0	291.7	
3			150	7989	2.37	636.0	288.1	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		117.4	النسبة		
<u>Satisfactory</u>	<u>Unsatisfactory</u>				
 A	 B	 C	 1	 2	 3
			 4	 5	 6
			 7	 8	 9
Remarks : Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens Note : T indicates tensile cracking					
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)					
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER			
M-mahmoud	Ahmed Adel	AMR ATEF			
M-mahmoud	Ahmed Adel				





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+303.5 - 508+318.5 L-D B 2 / at 508+204.5 - 508+297.5 L-D B 2		
DATE OF CASTING	16-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	13-Feb-24	28	150	8216	2.43	819.0	371.0	385.1
2			150	8174	2.42	882.0	399.5	
3			150	8112	2.40	849.0	384.6	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983		154.0	النسبة
Satisfactory 	Unsatisfactory 		
Remarks : Density measurement is carried out in accordance with BS 1881-Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens.			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
m-mahmoud	Amr Adel	AMR ATEF	
m-mahmoud	Amr Adel		





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st 508+399.5 - 508+444.5 L-S B2 / st 508+375.5 - 508+390.5 L-D B2		
DATE OF CASTING	20-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	27-Jan-24	7	150	8010	2.37	686.0	310.8	309.6
2			150	8055	2.39	679.0	307.6	
3			150	8040	2.38	685.0	310.3	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		123.8	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
			 2
			 3
			 4
			 5
			 6
			 7
			 8
			 9

Remarks :

Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cond. specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Adel	AMR ATEF
m. mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	st 508+399.5 - 508+444.5 L-S B2 / st 508+375.5 - 508+390.5 L-D B2		
DATE OF CASTING	20-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY		m ³	NOL OF CUBES MADE : 6
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	TYPE OF CURING : Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	17-Feb-24	28	150	7728	2.29	727.0	329.3	369.6
2			150	7809	2.31	846.0	383.2	
3			150	7846	2.32	875.0	396.4	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983						النسبة	147.9
<u>Satisfactory</u>			<u>Unsatisfactory</u>				
Remarks : Quality measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory used specimens.							
Note : T indicates tensile cracking							
Remarks : Specified Loading Rate Range ~ 4.5kN/s to 9.0 kN/s or (6.8kN/s)							
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER					
m. mahmoud	Amr Adel	AMR ATEF					
m. mahmoud	Amr Adel						





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	H 508+626.0 - 508+635.0 L-S B 1		
DATE OF CASTING	21-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	18-Jun-24	7	150	7903	2.34	678.0	307.1	292.0
2			150	7964	2.36	644.0	291.7	
3			150	7955	2.36	612.0	277.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		116.8	النسبة
Satisfactory 	Unsatisfactory 		
Remarks : Quality measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens.			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
m. mahmoud	Amr Adel	 AMR ATEF	
m. mahmoud	Amr Adel	 AMR ATEF	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	st:508+626-508+635 (L-S-B1)		
DATE OF CASTING	21-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	18-Feb-24	28	150	7866	2.33	882.0	399.5	372.1
2			150	7988	2.37	704.0	318.9	
3			150	7925	2.35	878.0	397.7	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983		النسبة 148.8
Satisfactory 	Unsatisfactory 	

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens.

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmad Abd	AMR ATEF
M. Mahmoud	Ahmad Abdel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+402.5 - 508+447.5 L-D B2 / at 508+390.5 - 508+393.5 L-D B2 at 508+638.0 - 508+647.0 L-S B 1		
DATE OF CASTING	22-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	29-Jan-24	7	150	8069	2.39	585.0	265.0	259.1
2			150	8055	2.39	570.0	258.2	
3			150	8025	2.38	561.0	254.1	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		103.6 النسبة
Satisfactory	Unsatisfactory	
 A	 B	 C
 1	 2	 3
 4	 5	 6
 7	 8	 9

Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens and in the saturated condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	O.C MANAGER
m. mahmoud	Ahmed Adel	AMIR ATY
m. mahmoud	Ahmed Adel	AMIR ATY

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st 508+450.5 - 508+453.5 L-S B2 / st 508+461.0 - 508+464.0 L-S B 1		
DATE OF CASTING	22-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	29-Jan-24	7	150	8090	2.40	588.0	266.4	261.4
2			150	8100	2.40	580.0	262.7	
3			150	8077	2.39	563.0	255.0	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		104.6	النسبة
Satisfactory	Unsatisfactory		
 A  B  C	 1  2  3  4  5  6  7  8  9		
Remarks : Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
m. mahmoud	Ahmed Adel	 AMR ATEF محل العمل للخرسانة الجاهزة	
m. mahmoud	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+402.5 - 508+447.5 L-D B2 / at 508+390.5 - 508+393.5 L-D B2 at 508+638.0 - 508+647.0 L-S B1		
DATE OF CASTING	22-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	19-Feb-24	28	150	8307	2.46	924.0	418.6	407.2
2			150	8180	2.42	868.0	393.2	
3			150	8135	2.41	905.0	410.0	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		النسبة	162.9
<u>Satisfactory</u>   		<u>Unsatisfactory</u>         	
Remarks : Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens <u>Note : T indicates tensile cracking</u> Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C.MANAGER	
m. mahmoud	Ahmed Ali		
m. mahmoud	Ahmed Ali		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st 508+450.5 - 508+453.5	L-S B2 / st 508+461.8 - 508+464.0	L-S B 1
DATE OF CASTING	22-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	19-Feb-24	28	150	8110	2.40	846.0	383.2	391.5
2			150	8095	2.40	879.0	398.2	
3			150	8056	2.39	868.0	393.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		156.6	النسبة
Satisfactory		Unsatisfactory	
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C.MANAGER
m. mahmoud	Amr Atef	AMR ATEF
m. mahmoud	Amr Atef	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+650 - 508+701 L-S-B1 / at 508+629 - 508+632 L-D-B 1		
DATE OF CASTING	23-Jan-2024	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY		NO. OF CUBES MADE	6
CONCRETE SLUMP			
TARGET SLUMP		TYPE OF CURING	Sub in water

n. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	30-Jan-24	7	150	7963	2.36	699.0	316.6	308.5
2			150	8045	2.38	701.0	317.6	
3			150	8073	2.39	643.0	291.3	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		123.4	النسبة
Satisfactory		Unsatisfactory	
 A	 B	 C	 1
 4	 5	 6	 7
 8	 9		

Remarks :
 Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for most specimens or in the saturated condition for laboratory used specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+650 - 508+701 L-S-B1 / at 508+629 - 508+632 L-D-B 1		
DATE OF CASTING	23-Jan-2024	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	20-Feb-24	28	150	8030	2.38	856.0	387.8	391.8
2			150	7920	2.35	823.0	372.8	
3			150	8013	2.37	916.0	414.9	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		156.7	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 1	 2	 3
 4	 5	 6			
 7	 8	 9			

Remarks :

Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for most specimens or in the saturated condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
Mr Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	at 508+635 - 508+680 L-D-B1 / at 508+704 - 508+725 L-S-B 1		
DATE OF CASTING	24-Jan-2024	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY		NO. OF CUBES MADE	6
CONCRETE SLUMP			
TARGET SLUMP		TYPE OF CURING	Sub in water

n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	31-Jan-24	7	150	7994	2.37	639.0	289.5	279.5
2			150	8054	2.39	680.0	271.8	
3			150	8077	2.39	612.0	277.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983						111.8	النسيه
<u>Satisfactory</u>			<u>Unsatisfactory</u>				
							
							
							
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)							
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER					
M. Mohamed	Ahmed Adel	AMR ATEF					
M. Mohamed	Ahmed Adel	 					



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع		STATION		
Customer	EG-CONTRAC		Cement Content/Type	310	KG - OPC
STATION	: at 508+635 - 508+680 L-D-B1 / at 508+704 - 508+725 L-S-B 1		PECIFIED STRENGTH	250	Kg/cm ²
DATE OF CASTING	28-Jan-2024		NO. OF CUBES MADE	6	
POURED QUANTITY	m ³				
CONCRETE SLUMP	Cm				
TARGET SLUMP	Cm		TYPE OF CURING	Sub in water	

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	30-Jan-24	7	150	8057	2.39	705.0	319.4	316.2
2			150	8033	2.38	694.0	314.4	
3			150	8005	2.37	695.0	314.8	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		126.5	النسبة
Satisfactory Unsatisfactory			
Remarks : Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
M. Mahmoud	Ahmed Adel	AMR ATEF	
M. Mahmoud	Ahmed Adel		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
CUSTOMER	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 508+635 - 508+680 L-D-B1 / at 508+704 - 508+725 L-S-B1		
DATE OF CASTING	24-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	21-Feb-24	28	150	8312	2.46	887.0	401.8	368.9
2			150	8330	2.47	741.0	335.7	
3			150	8271	2.45	815.0	369.2	

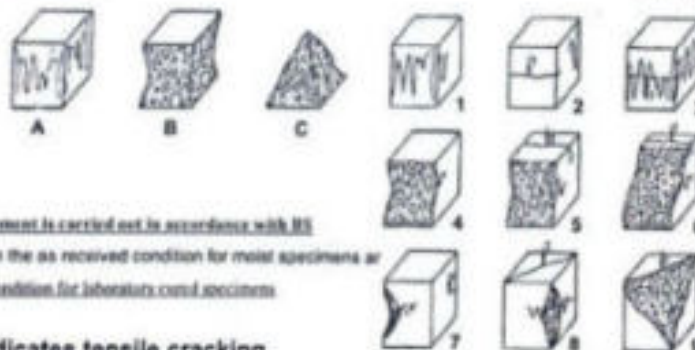
MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

147.6

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	O.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st 508+635 - 508+680 L-D-B1 / st 508+704 - 508+725 L-S-B 1		
DATE OF CASTING	24-Jan-2024	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	21-Feb-24	28	150	8145	2.41	814.0	368.7	382.3
2			150	8115	2.40	857.0	388.2	
3			150	8075	2.39	861.0	390.0	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		النسبة 152.9
Satisfactory 	Unsatisfactory 	
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	L.D.B. من 508+710 إلى 508+683 الجدار الأيسر		
DATE OF CASTING	25-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

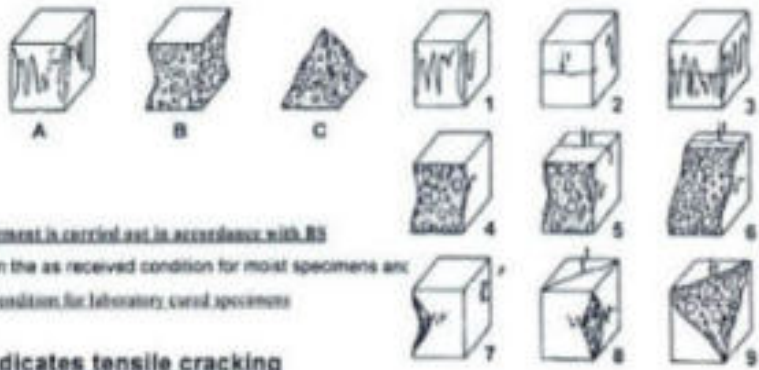
No. of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	1-Feb-24	7	150	8145	2.41	731.0	331.1	320.1
2			150	8135	2.41	724.0	328.0	
3			150	8050	2.39	665.0	301.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

128.0 التسمية

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Amr Adel	Amr Adel
m. mahmoud	Amr Adel	Amr Adel





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	L.D.B. الطريق الازرق 508 + 508 الى 508 + 508		
DATE OF CASTING	25-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	22-Feb-24	28	150	8140	2.41	877.0	397.3	406.2
2			150	8100	2.40	902.0	408.6	
3			150	8108	2.40	911.0	412.7	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983

162.5

النسبة

SatisfactoryUnsatisfactory

Remarks :

Density measurement is carried out in accordance with BS 1881-Part 114 in the as received condition for most specimens and in the saturated condition for laboratory control specimens

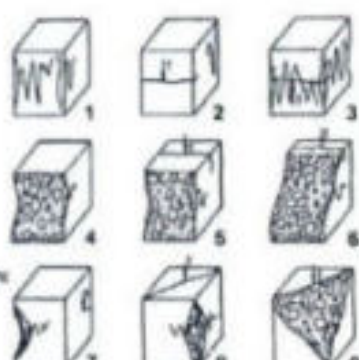
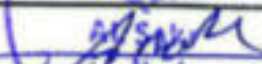
Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (5.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
m. mahmoud	Abdul Add	AMR ATEF
m. mahmoud	Abdul Add	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع		STATION					
Customer	EGY CONTRAC		Cement Content/Type	310 KG - OPC				
STATION	722+508 من 713+508 L.D. ٥							
DATE OF CASTING	27-Jan-2024		SPECIFIED STRENGTH	250 Kg/cm ²				
POURED QUANTITY		m ³	NO. OF CUBES MADE	6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING	Sub in water				
n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	3-Feb-24	7	150	8000	2.37	603.0	273.2	280.0
2			150	7996	2.37	631.0	285.8	
3			150	8040	2.38	620.0	280.9	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		النسبة 112.0
Satisfactory	Unsatisfactory	
		
Remarks :		
Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range - 4.5kN/S to 9.0 kN/S or (6.8kN/S)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
		
		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	722+508 الى 713+508	L.O. B₁	
DATE OF CASTING	27-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	24-Feb-24	28	150	8090	2.40	876.0	396.8	383.4
2			150	8165	2.42	819.0	371.0	
3			150	8120	2.41	844.0	382.3	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		153.4	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
 2	 3	 4	 5
 6	 7	 8	 9

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m.mahmoud	Ahmed Adel	AMR ATEK
m.mahmoud	Ahmed Adel	AMR ATEK



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st:507+447 to 507+552 (L.S.B1)		
DATE OF CASTING	28-Jan-2024	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

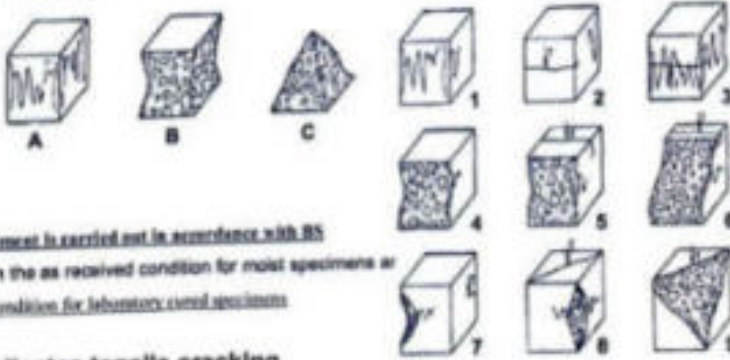
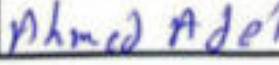
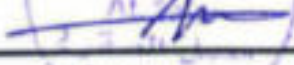
No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	4-Feb-24	7	150	8040	2.38	592.0	268.2	269.2
2			150	7950	2.36	599.0	271.3	
3			150	7984	2.37	592.0	268.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		107.7 النسبة
Satisfactory	Unsatisfactory	
Remarks : Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
Mohamed Mohamed	Ahmed Adel	AMR ATEF
Mohamed Mohamed	Ahmed Adel	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st:507+447 to 507+552 (L.S.B1)		
DATE OF CASTING	28-Jan-2024	SPECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	4-Feb-24	7	150	8040	2.38	605.0	274.1	301.1
2			150	7950	2.36	694.0	314.4	
3			150	7984	2.37	695.0	314.8	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		النسبة 120.4
Satisfactory	Unsatisfactory	
		
Remarks :		
Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
		
		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	st:507+447 to 507+552 (L.S.B1)		
DATE OF CASTING	28-Jan-2024	PECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY		m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	TYPE OF CURING : Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	25-Feb-24	28	150	7890	2.34	815.0	369.2	368.0
2			150	7933	2.35	886.0	401.4	
3			150	7950	2.36	736.0	333.4	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		النسبة 147.2
Satisfactory	Unsatisfactory	
Remarks :		
Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens or in the saturated condition for laboratory cured specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
mahmoud	Ahmed Adel	AMR ATEF
mahmoud	Ahmed Adel	[Signature]

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	510+507 إلى 507+549 L.D		
DATE OF CASTING	30-Jan-2024	SPECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

No. Of cubes	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	6-Feb-24	7	150	8109	2.40	907.0	410.9	397.0
2			150	8074	2.39	893.0	404.5	
3			150	8123	2.41	829.0	375.5	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

158.8

النسبة

Satisfactory

Unsatisfactory



Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory used specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Adel	AMRATED
m. mahmoud	Ahmed Adel	AL Sakr



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	Cement Content/Type 310 KG - OPC	
Customer	EGY CONTRAC		510+507 الى 507+549 L.D	
STATION :			30-Jan-2024	
DATE OF CASTING		PECIFIED STRENGTH :	250	Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6	
CONCRETE SLUMP	Cm			
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water	

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	27-Feb-24	28	150	7966	2.36	741.0	335.7	368.9
2			150	8032	2.38	887.0	401.8	
3			150	7979	2.36	815.0	369.2	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983

147.6

النسبة

Satisfactory

Unsatisfactory

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mahmoud	Ahmed Ali	AMR ATEF
m. mahmoud	Ahmed Ali	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	at 507+399 to 507+444 L-S-B1 / at 507+468 to 507+507 L-B-B 1		
DATE OF CASTING	31-Jan-2024	PECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY		m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	TYPE OF CURING : Sub in water

n. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	7-Feb-24	7	150	8000	2.37	475.0	215.2	281.9
2			150	7997	2.37	742.0	336.1	
3			150	7978	2.36	650.0	294.5	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		112.8	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 1
			 2
			 3
			 4
			 5
			 6
			 7
			 8

Remarks : Density measurement is carried out in accordance with BS 1881:Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Adel	AMR ATEF
M. Mahmoud	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	st 507+399 to 507+444 L-S-B1 / st 507+468 to 507+507 L-D-B 1		
DATE OF CASTING	31-Jan-2024	PECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY		NO. OF CUBES MADE :	6
CONCRETE SLUMP			
TARGET SLUMP		TYPE OF CURING :	Sub in water

n. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	28-Feb-24	28	150	8330	2.47	812.0	367.8	411.5
2			150	8271	2.45	925.0	419.0	
3			150	8097	2.40	988.0	447.6	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		164.6	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 1	 2	 3
			 4	 5	 6
			 7	 8	 9

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Abdel	AMR ATEF
M. Mahmoud	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION :	st:507+426 to 507+465 (L.D.B1)		
DATE OF CASTING	1-Feb-2024	PECIFIED STRENGTH :	250 Kg/cm ²
POURED QUANTITY		m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	TYPE OF CURING : Sub in water

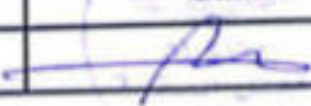
n. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ³
1	8-Feb-24	7	150	8125	2.41	597.0	270.4	267.7
2			150	8174	2.42	615.0	278.6	
3			150	8085	2.40	561.0	254.1	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983		107.1	النسبة
Satisfactory	Unsatisfactory		
Remarks : Density measurement is carried out in accordance with BS 1881: Part 114 in the as received condition for most specimens or in the saturated condition for laboratory used specimens.			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
M. Mahmoud	Ahmed Adel	AMR ATEF	
M. Mahmoud	Ahmed Adel		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983AMD 6097:1989, 6720:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	st:507+426 to 507+465 (L.D.B1)		
DATE OF CASTING	1-Feb-2024	PECIFIED STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	29-Feb-24	28	150	8025	2.38	811.0	367.4	382.2
2			150	8040	2.38	858.0	388.7	
3			150	7365	2.18	862.0	398.5	

MODES OF FAILURE AS PER BS 1881 : Part 116 : 1983	152.9	النسبة
Satisfactory   	Unsatisfactory   	
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens or in the saturated condition for laboratory cured specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4.5kN/S to 9.0 kN/S or (6.8kN/S)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mahmoud	Ahmed Abdel	AMR ATEF
M. Mahmoud	Ahmed Abdel	



Electric Express Train - HSR
 From El Ain El Sokhna City To El Alamein - MATROUH
 Section - 7 From FOKA To MARSA MATROUH
 From Station 504+000 To Station 508+177



Operating lap: Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	20/9/2023	code	ZONE	507+000	508+000
LOCATION	K.P (507)	P.S.G EGC (1)	Material	Prepared subgrade	
NAME COMPANY	EG CONTRACK		quantity	3250 m³	

-visual inspection test

-Gradient test

-gradation of bulk materials

			SAMPLE WEIGHT (g)		47056.00		gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	0.0	1360.0	4105.0	7200.0	2097.0	3999.0	10255.0		CLASS A-1-a
Cumulative Retained (g)	0.0	1360.0	5465.0	12665.0	15762.0	21761.0	32016.0	15050.0	PRO 2.20
Cumulative Retained %	0.0	2.9	11.6	26.9	33.5	46.2	68.0		WC 7.6
Cumulative Passing %	100.0	97.1	88.4	73.09	66.5	53.8	32.0		CBR 87.4
									L.A 29.0

-soft material gradation

			WT.OF sample		500.00		gm
sieve size	10	40	200				
Cumulative Retained (g)	130.00	260.00	355.00				
Cumulative Retained %	26.00	52.00	71.00				
Cumulative Passing %	74.00	48.00	29.00				

-General gradient

sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	97.11	88.4	73.09	66.5	53.8	32.0	23.7	16.3	9.3
		97		70.75		15.60		0-35		<12

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

Contractor

Eng

Ahmed Hakeem



Consultant

mohamed elsayid
 m-elsayid





Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 7 From FOKA TO MARSA MATROUH
From Station 504+000 To Station 508+177



PROCTOR TEST

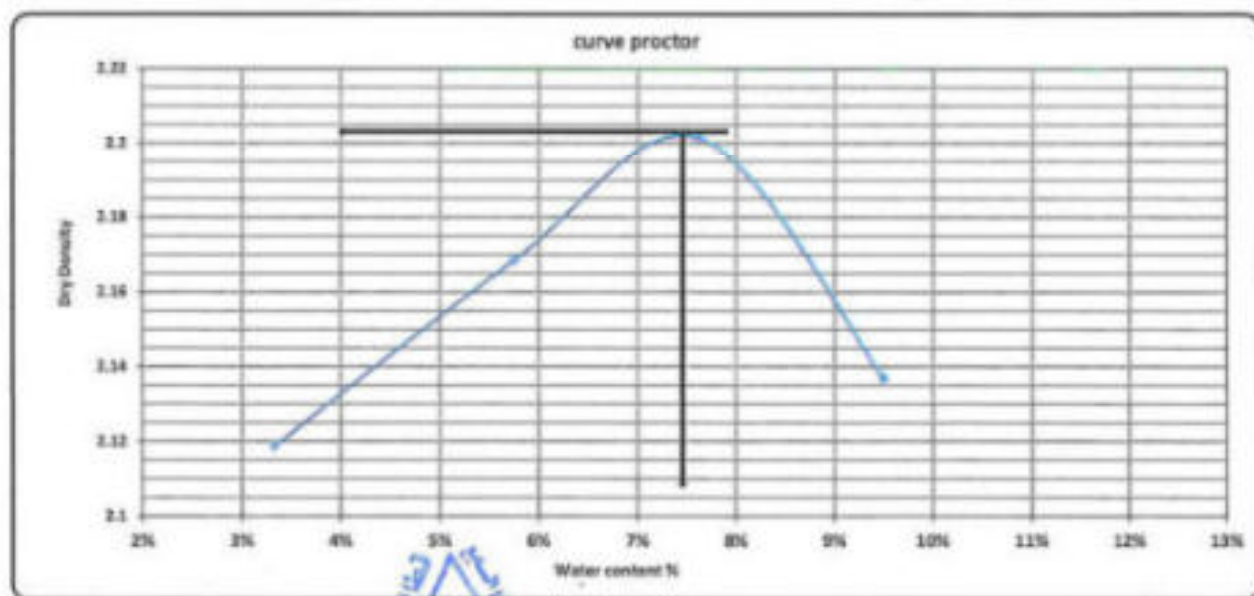
TESTING DATE:	21/9/2023	code	ZONE	507+000	509+000
LOCATION	K.P (507)	P.S.G EGC (1)	Material	Prepared subgrade	
NAME COMPANY	EG CONTRACT		quantity	3250 m ³	

Weight of empty mold :	5620.0
Mold Volume:	2124.0

MAX Dry Density	2.29
Water content %	7.6%

trial no :	1	2	3	4	
Wt. Of Mold + wet soil	10270.0	10490.0	10652.0	10550	
WT. WET SOIL	4650.0	4870.0	5032.0	4970.0	
Wt. Density	2.189	2.293	2.309	2.340	

Tare No.	1	3	5	7	9	11	14	15		
Tare wt.	57.99	52.81	55.33	54.96	56.07	54.92	56.07	54.92		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	147.1	146.8	144.8	144.9	143.5	143.2	147.0	141.6		
Wt. Of water	2.9	3.2	5.2	5.1	6.6	6.8	8.0	8.4		
Wt. Of dry soil	89.1	94.0	89.5	89.9	87.4	88.3	85.9	86.7		
Water content %	3.3%	3.4%	5.8%	5.7%	7.5%	7.7%	9.3%	9.7%		
AV. Water content %	3.3%		5.7%		7.6%		9.3%			
Dry Density	2.119		2.148		2.30		2.137			



Contractor

Eng

Ahmed Hala

شركة إيجي كونتراتك
التخطيط السريع

Consultant

mohamed elsaad
m. elsaad

 ENGINEERING CONSULTING OFFICE المكتب الهندسي الاستشاري ل.د. خالد شحاته		Electric Express Train - HSR From El Ain El Sheikh City To El Alamein - MATROUH Section - 1 From FOLA To MARGA MATROUH From Station MA+00 To Station MA+117	
		Los Angeles Abrasion AASHTO-T96	

TESTING DATE:	21-05-2023	code	Station	507+000	509+000
LOCATION	K.P (507)	P.S.G EGC (1)	Material	Prepared subgrade	
NAME COMPANY	EG-CONTRACT		quantity	3258 m ²	

Results:-

Weight of sample before test (gms)	Weight of sample after test (gms)	Abrasion ratio (%)
5000	3550	29.00

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :



California Bearing Ratio TEST

Testing Date :	22/9/2023	Code	FROM STA :	507+000	509+000
Location :	K.P (507)	P.S.G EGC (1)	Material	Prepared subgrade	
Company Name	EG CONTRACK		Layer Thickness	325mm	

:- Test Results

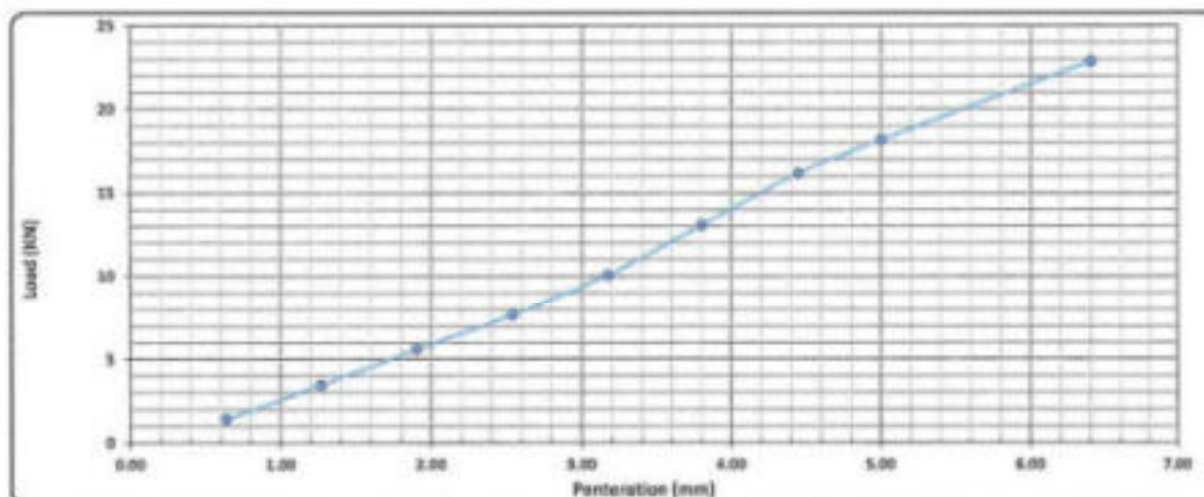
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2130
Mold WT. (gm)	5253
Mold WT. + Wat WT. (gm)	10220
Wat WT. (gm)	4977
Wet Density (g/cm ³)	2.471
Dry Density (g/cm ³)	2.175
Proctor Density (g/cm ³)	2.280
Compaction %	95.7

Moisture Ratio After Compacted Mold	
Tare No.	12
Tare WT. (gm)	10.33
Tare WT. + Wet WT. (gm)	150
Tare WT. + Dry WT. (gm)	143.3
Water WT. (gm)	6.7
Dry WT. (gm)	88.8
Moisture Content %	7.6

Swelling	
Mold No.	2
Date	22/9/2023
Initial Height (mm)	20.00
Final Height (mm)	20.00
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.09	6.00
Load Reading (Kg)	178	385	624	854	1121	1455	1797	2021	2544
Load (KN)	1.4	3.5	5.6	7.7	10.1	13.1	16.2	18.2	22.9



Calculations :-

Penetration	Load	Standard Load	CBR	Note - Compaction	Compaction	CBR
(mm)	(KN)	(lb)	(%)	(%)	(%)	نسبة نسبة %
2.50	7.69	13.4	57.5%	95	95	55.4%
3.00	18.17	20.9	86.8%			87.4%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

AMMED HALEEM

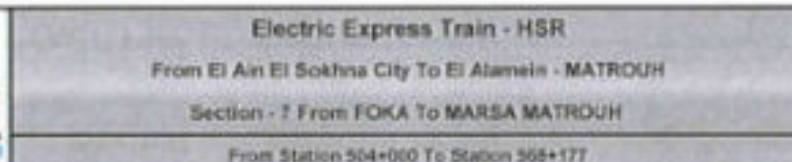
Consultant Engineer

Name :

Sign :

Mohamed El-Sayed

شركة اي جي كونتراك



Creating lap

Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	23/9/2023	code	ZONE	507+000	509+000
LOCATION	K.P (507)	P.S.G EGC (2)	Material	Prepard subgrade	
NAME COMPANY	EG CONTRACK		quantity	5000 m³	

- visual inspection test

[-Gradient test]

<u>gradation of bulk materials</u>			SAMPLE WEIGHT [g]		57265.00		gm	table classify
sieve size	2	1.5	1	4/3	2/1	3/3	# 4	soil classify
Mass retained (g)	0.0	1513.0	8517.0	6970.0	5010.0	8000.0	8985.0	CLASS
Cumulative Retained (g)	0.0	1513.0	10030.0	17000.0	22010.0	30010.0	38995.0	PRO
Cumulative Retained %	0.0	2.6	17.5	29.7	38.4	52.4	67.4	WC
Cumulative Passing %	100.0	97	82.5	70.31	61.6	47.6	32.6	GBR
								LA
								31%

Soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	105.00	205.00	335.00					
Cumulative Retained %	21.00	41.00	67.00					
Cumulative Passing %	79.00	59.00	33.00					

[illegible]

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

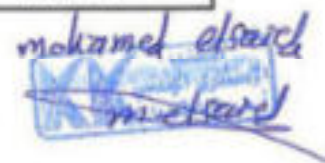
Contractor

End

Ahmed Hakeem

Consultant

Journal closed





Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 7 From FOKA TO MARSA MATROUH
From Station 504+000 To Station 563+177



PROCTOR TEST

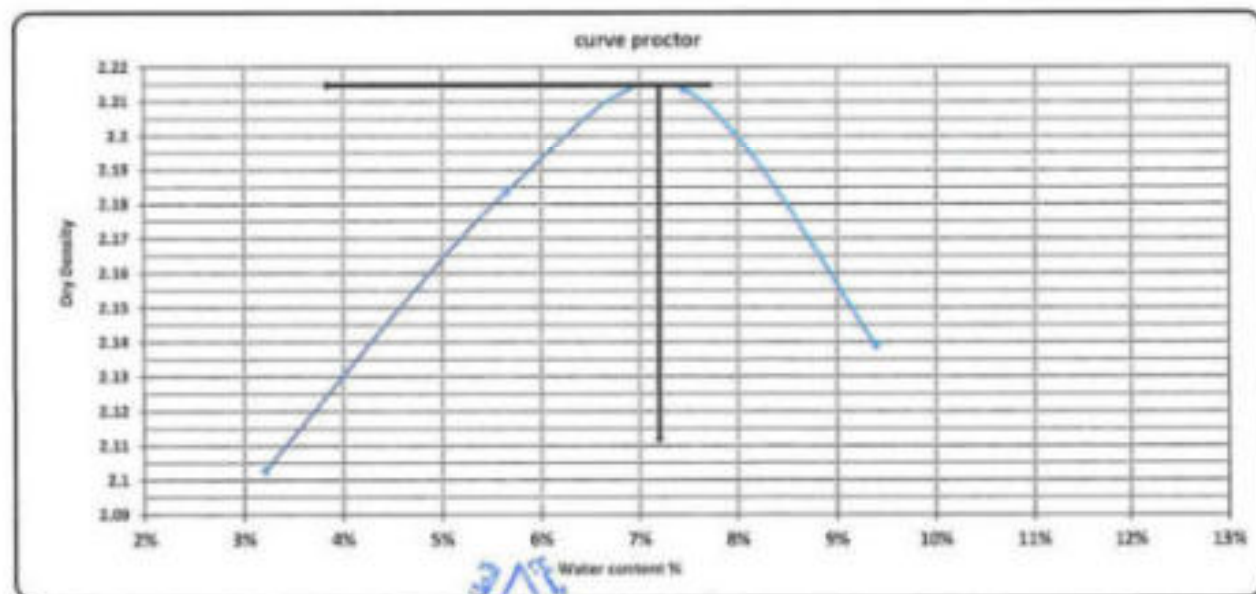
TESTING DATE:	24/9/2023	code	ZONE	507+000	509+000
LOCATION	K.P (507)	P.S.G EGC (2)	Material	Prepared subgrade	
NAME COMPANY	EG CONTRACT		quantity	5000 m³	

Weight of empty mold :	5620.0
Mold Volume:	2124.0

MAX Dry Density	2.21
Water content %	7.1%

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	18239.8	18529.8	19672.8	18590	
WT. WET SOIL	4618.0	4908.0	5852.0	4976.8	
Wt. Density	2.170	2.307	2.379	2.340	

Tare No.	14	15	7	8	10	18	11	12		
Tare wt.	54.22	53.33	55.22	54.12	53	54	57.33	54.92		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	147.1	146.9	144.8	145.0	143.4	143.3	142.2	141.7		
Wt. Of water	2.9	3.1	5.2	5.0	6.6	6.8	7.8	8.3		
Wt. Of dry soil	92.9	93.6	89.6	90.9	90.4	89.3	84.9	86.8		
Water content %	3.1%	3.3%	5.8%	5.5%	7.3%	7.6%	9.2%	9.6%		
AV. Water content %	3.2%		5.6%		7.4%		9.4%			
Dry Density	2.183		2.184		2.21		2.139			

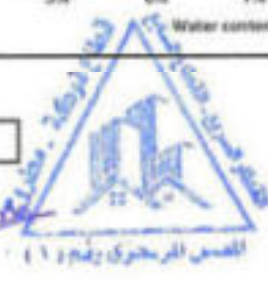


Contractor

Eng

Ahmed Haseem

Signature of Ahmed Haseem



Consultant

Signature of Consultant
mohamed elsayed

شركة إيجي كونتراك
التطبيقات السريعة

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ا.د. خالد شحاته	 SCA	Electric Express Train - HDR From El Ain El Sakina City To El Bahariya - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 507+000 To Station 509+000	 شركة إيجي كوتراك القطار السريع
		Los Angeles Abrasion AASHTO-T96	

TESTING DATE:	23-09-2023	code	Station	507+000	509+000
LOCATION	K.P (507)	P.S.G EGC (2)	Material	Prepared subgrade	
NAME COMPANY	EG CONTRACT		quantity	5000 m³	

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3450	31.00

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Ahmed Hafeez

Sign :

Consultant Engineer

Name :

Mohamed Elsayed

Sign :







Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date :	25/9/2023	Code	FROM STA :	S07+000	S07+000
Location :	K.P (507)	P.S.G EGC (2)	Material	Prepared subgrade	
Company Name	EG CONTRACT		Layer Thickness	1000mm	

- : Test Results

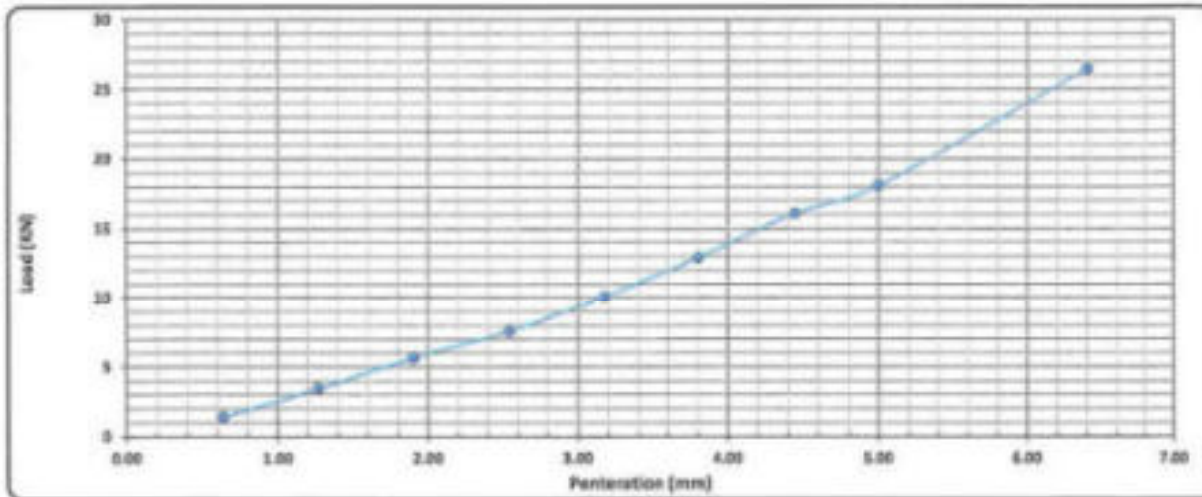
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2130
Mold WT. (gm)	5210
Mold WT. + Wat WT. (gm)	10000
Wat WT. (gm)	4790
Wat Density (g/cm ³)	1.336
Dry Density (g/cm ³)	1.187
Proctor Density (g/cm ³)	1.218
Compaction %	98.4

Moisture Ratio After Compacted Mold	
Tare No.	14
Tare WT. (gm)	52.3
Tare WT. + Wat WT. (gm)	158
Tare WT. + Dry WT. (gm)	142.4
Water WT. (gm)	6.6
Dry WT. (gm)	91.1
Moisture Content %	7.2

Swelling	
Mold No.	1
Date	25/9/2023
Initial Height (mm)	20.00
Final Height (mm)	20.00
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (Kg)	150	285	424	844	1121	1435	1790	2011	2944
Load (KN)	1.4	3.5	5.7	7.8	10.1	12.9	16.1	18.1	26.5



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kg)	(lb)	(%)	(%)	(%)	90 mm نسبة 90
2.50	7.60	13.4	56.7%	98	98	54.4%
5.00	18.10	20.0	90.4%			86.4%

Lab. Specialist

Name :

Sign :

Lab. Engineer

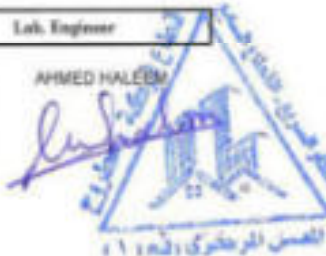
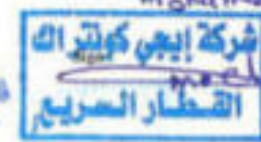
Name :

Sign :

AHMED HALEEM

Consultant Engineer

Name :





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



Operating lap: Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	27/9/2023	code	ZONE	507+000	509+000
LOCATION	K.P (508)	P.S.G EGC (3)	Material	Prepared subgrade	
NAME COMPANY	EG CONTRACT		quantity	5000 m³	

visual inspection test

Gradient test

-gradation of bulk materials-				SAMPLE WEIGHT (g)		27240.00	gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	0.0	905.0	3330.0	4000.0	2350.0	5300.0	4255.0	CLASS	A-1-a
Cumulative Retained (g)	0.0	905.0	4235.0	8235.0	10585.0	15885.0	20140.0	7100.0	PRO
Cumulative Retained %	0.0	3.3	15.5	30.2	38.9	58.3	73.9		WC
Cumulative Passing %	100.0	97	84.5	70	61.1	41.7	26.1		CBR
									LA
									29.60%

-soft material gradation-				WT. OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	100.00	200.00	335.00				
Cumulative Retained %	20.00	40.00	67.00				
Cumulative Passing %	80.00	60.00	33.00				

-General gradient-									
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425
Cumulative Passing %	100.0	97	84.5	70	61.1	41.7	26.1	20.9	15.6
		97		70-75		15-60		0-35	<12

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

Contractor

Eng

Ahmed Haseem



شركة إيجي كونتراتك
 القطار السريع

Consultant

mohamed elsaroh

m-elsaroh



 	Electric Express Train - HSR		 	
	From El Ain El Sokhna City To El Alamein - MATROUH			
	Section - 7 From FOKA TO MARSA MATROUH			
From Station 504+000 To Station 508+177				

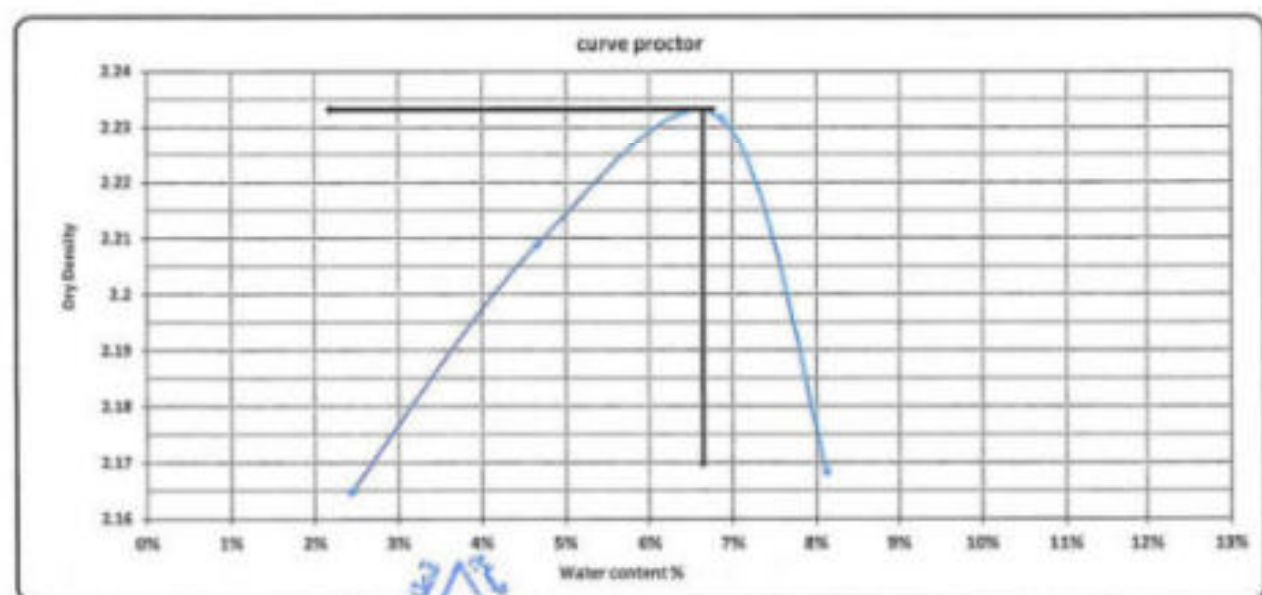
PROCTOR TEST

TESTING DATE:	28/9/2023	code	ZONE	507+000	509+000
LOCATION	K.P (508)	P.S.G EGC (3)	Material	Prepared subgrade	
NAME COMPANY	EG CONTRACT		quantity	5000 m³	

Weight of empty mold :	5620.8	MAX Dry Density	2.23
Mold Volume:	2124.8	Water content %	7.2%

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10330.0	10530.0	10605.0	10600	
WT. WET SOIL	4710.0	4910.0	5065.0	4980.0	
Wt. Density	2.218	2.312	2.385	2.345	

Tare No.	13	5	7	8	9	11	13	16		
Tare wt.	51.22	54.36	57.21	53.21	53.22	54.36	55.32	54.22		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	147.8	147.6	145.8	145.8	143.8	143.5	142.8	142.9		
Wt. Of water	2.2	2.4	4.2	4.2	6.2	6.1	7.2	7.1		
Wt. Of dry soil	96.6	93.2	88.6	92.6	96.6	89.3	87.5	88.7		
Water content %	2.3%	2.6%	4.7%	4.6%	6.9%	6.9%	8.2%	8.0%		
AV. Water content %	2.4%		4.7%		6.9%		8.1%			
Dry Density	2.165		2.289		2.232		2.168			



Contractor
Eng Ahmed Hafeez

Consultant
مهندس محمد السيد
مهندس محمد السيد

 ENGINEERING CONSULTANCY OFFICE المكتب الاستشاري الهندسي ا.م. خالد عبد الجليل		Electric Express Train - RSR	
		From El Ain El Bahari City To El Ramein - MATROUH	
		Section : 7 From FOA To MARSA MATRUH	
		From Station 504+000 To Station 509+177	
Los Angeles Abrasion AASHTO-T96			

TESTING DATE:	28-05-2023	code	Station	507+000	509+000
LOCATION	K.P (508)	P.S.G EGC (3)	Material	Prepared subgrade	
NAME COMPANY	EG CONTRACT		quantity	5000 m³	

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3520	29.60

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Ahmed Haseeb

Sign :

Consultant Engineer

Name :

Mohamed Elsayed

Sign :

M. Elsayed





Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date :	30/9/2023	Code	FROM STA :	507+000	509+000
Location :	K.P (508)	P.S.G EGC (3)	Material	Prepared subgrade	
Company Name	EG CONTRACT		Layer Thickness	200mm	

-: Test Results

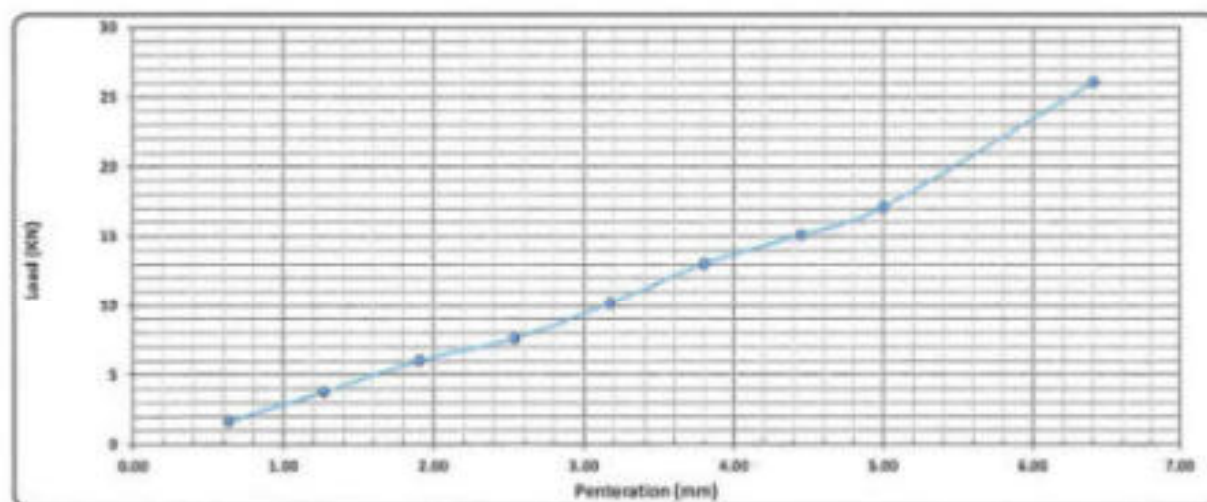
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2130
Mold WT. (gm)	5320
Mold WT. + Wat WT. (gm)	10510
Wat WT. (gm)	2015
Wet Density (g/cm ³)	2.354
Dry Density (g/cm ³)	2.285
Proctor Density (g/cm ³)	2.230
Compaction %	98.9

Moisture Ratio After Compacted Mold	
Tare No.	1
Tare WT. (gm)	52.25
Tare WT. + Wet WT. (gm)	130
Tare WT. + Dry WT. (gm)	143.8
Water WT. (gm)	6.2
Dry WT. (gm)	91.5
Moisture Content %	6.8

Swelling	
Mold No.	1
Date	30/9/2023
Initial Height (mm)	5.00
Final Height (mm)	5.00
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.60	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (Kg)	180	410	670	850	1130	1400	1680	1912	2900
Load (KN)	1.7	3.8	6.0	7.7	10.2	13.1	15.1	17.1	26.1



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Moist - Compaction (%)	Compaction (%)	CBR 95-98 %
2.50	7.65	13.4	57.1%	98	95	55.1%
5.00	17.12	20.8	82.1%			82.1%

Lab. Specialist

Lab. Engineer

Consultant Engineer

Name :

Name :

Name :

Sign :

Sign :

Sign :



المهندس المصطفى رقم ١٩



Electric Express Train - HSR
 From El Ain El Sokhna City To El Alamein - MATROUH
 Section - 7 From FOKA To MARSA MATROUH
 From Station 504+000 To Station 508+177



Operating lap: Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	2/10/2023	code	ZONE	507+000	509+000
LOCATION	K.P (508)	P.S.G EGC (4)	Material	Prepared subgrade	
NAME COMPANY	EG CONTRACT		quantity	5000 m³	

-visual inspection test

-Gradient test

-gradation of bulk materials				SAMPLE WEIGHT (g)		28585.00	gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	8.0	930.0	2451.0	3634.0	3875.0	2855.0	4975.0	CLASS	A-1-a
Cumulative Retained (g)	8.0	930.0	3381.0	7015.0	10890.0	13745.0	18720.0	PRO	2.21
Cumulative Retained %	0.0	3.3	11.8	24.5	38.1	48.1	65.5	WC	6.8%
Cumulative Passing %	100.0	97	88.2	75	61.9	51.9	34.5	QBR	87.1
								LA	31.00%

-soft material gradation				WT.OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	95.00	190.00	335.00				
Cumulative Retained %	19.00	38.00	67.00				
Cumulative Passing %	81.00	62.00	33.00				

-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	97	88.2	75	61.9	51.9	34.5	28.0	21.4	11.4
		97		75-75		15-60		0-35		<12

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

Contractor

Eng

Ahmed Haleeth



Consultant

Mohamed elsaied





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



PROCTOR TEST

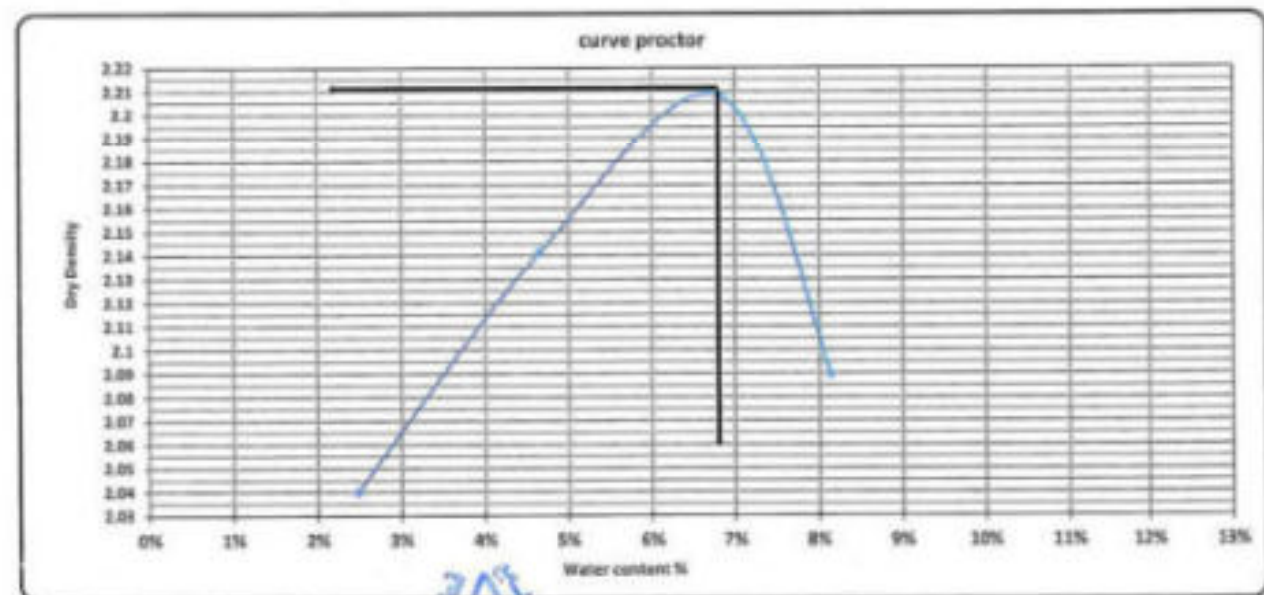
TESTING DATE:	3/10/2023	code	ZONE	507+000	509+000
LOCATION	K.P (508)	P.S.G EGC (4)	Material	Prepared subgrade	
NAME COMPANY	EG CONTRACT		quantity	5000 m³	

Weight of empty mold :	5629.8
Mold Volume:	2134.9

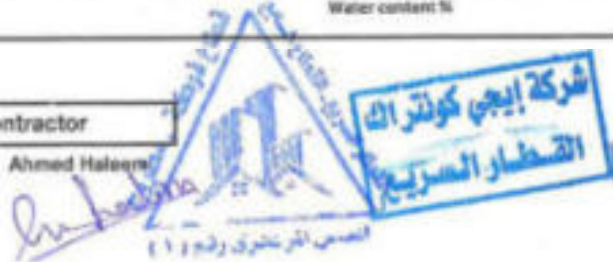
MAX Dry Density	2.21
Water content %	6.8%

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10668.0	10386.0	10638.0	10429	
WT. WET SOIL	4448.0	4766.0	5016.0	4800.0	
Wt. Density	2.099	2.241	2.359	2.260	

Tare No.	5	6	9	12	14	7	3	16		
Tare wt.	51.23	54.36	57.21	53.21	53.22	54.56	55.31	54.22		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	147.8	147.5	145.8	145.8	143.6	146.1	142.8	142.8		
Wt. Of water	2.2	2.5	4.2	4.2	6.4	5.9	7.2	7.2		
Wt. Of dry soil	96.6	93.1	88.6	91.6	96.4	89.5	87.5	88.6		
Water content %	2.3%	2.7%	4.7%	4.6%	7.1%	6.6%	8.2%	8.1%		
AV. Water content %	2.5%		4.7%		6.8%		8.1%			
Dry Density	2.041		2.141		2.388		2.899			



Contractor
Eng Ahmed Hafeez



Consultant



 ENGINEERING CONSULTANCY OFFICE المكتب الهندسي الاستشاري والقياسي ل.م.م. خالد شحاته		Electric Express Train : HSR From El Ain El Sadara City To El Alamein - MATROUH Section : T From FONA To WARSA MATROUH From Station WB+000 To Station WB+177	
		Los Angeles Abrasion AASHTO-T96	

TESTING DATE:	03/10/2023	code	Station	507+000	509+000
LOCATION	K.P (508)	P.S.G EGC (4)	Material	Prepared subgrade	
NAME COMPANY	EG CONTRACT		quantity	5000 m³	

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3450	31.00

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Ahmed Hakeem

Sign :

Consultant Engineer

Name : mohamed elsaid

Sign :





Electric Express Train - HSR



California Bearing Ratio TEST

Testing Date:	4/10/2023	Code	FROM STA :	507+000	509+000
Location :	K.P (508)	P.S.G EGC (4)	Material	Prepared subgrade	
Company Name	EG CONTRACT		Layer Thickness	100mm	

Test Results

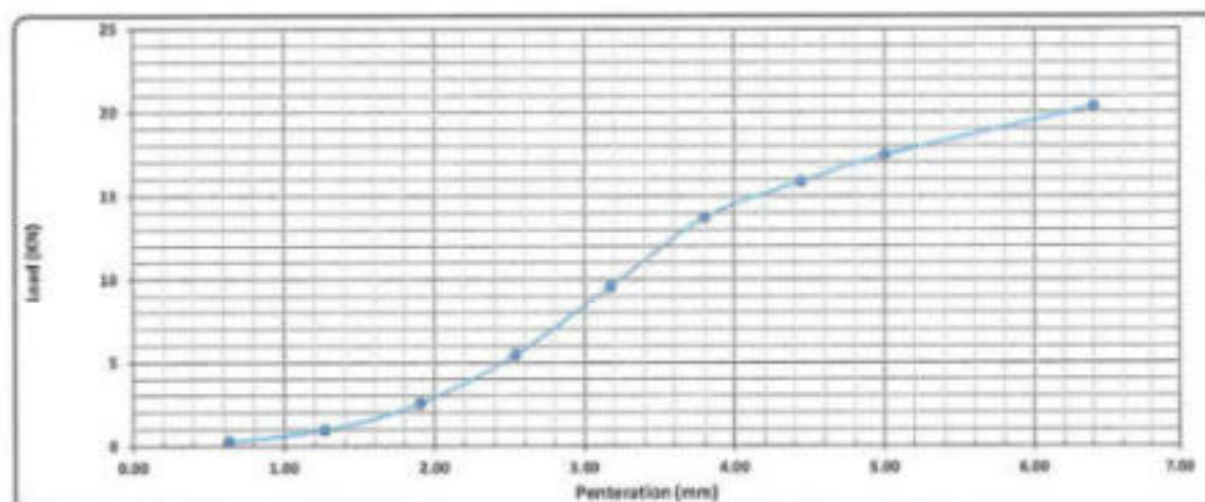
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2136
Mold WT. (g)	5218
Mold WT. + Wet WT. (g)	10880
Wet WT. (g)	4768
Wet Density (g/cm ³)	2.238
Dry Density (g/cm ³)	2.180
Proctor Density (g/cm ³)	2.210
Compaction %	98.1

Moisture Ratio After Compacted Mold	
Tare No.	12
Tare WT. (g)	56.67
Tare WT. + Wet WT. (g)	156
Tare WT. + Dry WT. (g)	144.2
Water WT. (g)	5.7
Dry WT. (g)	89.6
Moisture Content %	6.4

Swelling	
Mold No.	1
Date	4/10/2023
Initial Height (mm)	10.00
Final Height (mm)	10.00
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.08	5.60
Load Reading (Kg)	33	108	286	609	1068	1525	1764	1945	2264
Load (KN)	0.3	1.0	2.6	5.5	9.6	13.7	15.9	17.5	20.4



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kg)	(Kg)	(%)	(%)	(%)	نسبة قساوة %
2.50	5.45	13.4	41.1%	95	95	41.0%
5.00	17.40	20.0	87.2%			87.1%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer



Mohamed Elsayed

 شركة كوكا كوكا كوكا	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 504+000 To Station 508+177	 وزارة النقل والتنمية الاقتصادية جمهورية مصر العربية
Operating Lab	Negida Central Lab	

PARTICLE SIZE DISTRIBUTION OF SUB-BALLAST

TESTING DATE:	26-09-2023	Code	Zone	FROM STATION	TO STATION
LOCATION	K.P 508+000	EG-SUB1		507+000	509+000
COMPANY NAME	EG-CONTRACT				
MATERIALS	SUB-BALLAST				
Quantity	2000 M3				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		65571.00		gm	Table classify	
sieve size	2	1.5	1	4/3	2/1	3/2	# 4	PASS	Soil Classify	A-1-a
Mass retained (g)	0.0	1290.0	7241.0	10695.0	8349.0	7016.0	7895.0		PRO	2.243
Cumulative Retained (g)	0.0	1290.0	8521.0	19216.0	27562.0	34586.0	42275.0		WC	6.88
Cumulative Retained %	0.0	2.0	13.0	29.3	42.0	52.7	64.5		CBR	106.2%
Cumulative Passing %	100.0	98.0	87.0	70.7	58.0	47.3	35.5		Los Angeles	21
									Absorption	1.362
									SP.Gravity	2.549

B-soft material gradation				WT. OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	106.00	324.00	422.00					
Cumulative Retained %	21.20	64.80	84.40					
Cumulative Passing %	78.80	35.20	15.60					

C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	99.0	87.0	79.7	58.0	47.3	35.5	26.0	12.5	5.5
SPECIFICATION	—	97	—	70 — 75	—	15 — 60	—	0 — 35	—	0 — 7

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

المعمل المركزي رقم 4
 Contractor
 Shehab Hamdi
 القطر المديري
 2023

شركة إيجي كونترات
 القطر المديري

Consultant
 mohamed elsaied

 	Electric Express Train - HSR		 
	From El Ain El Sokhria City To El Alamein - MATROUH		
	Section - 7 From FOKA TO MARSA MATROUH		
From Station 504+000 To Station 508+177			

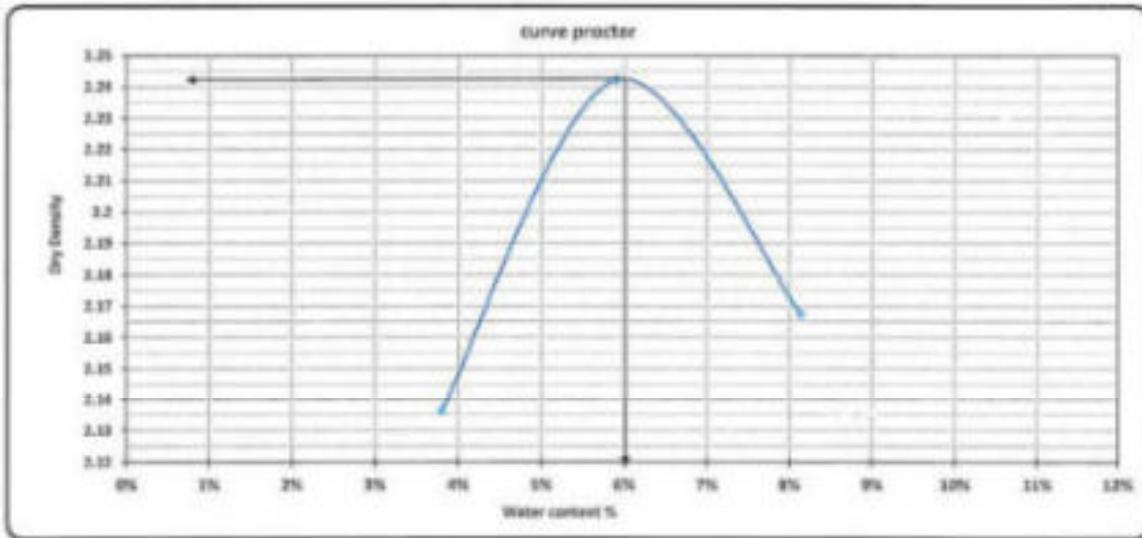
PROCTOR TEST (SUB-BALLAST)

TESTING DATE:	27-8-2023	Code	zone	FROM	TO
LOCATION	K.P 508+000	EQSUB1		507+000	509+000
COMPANY NAME	EG-CONTRACT				

Weight of empty mold :	5861.8	MAX Dry Density	2.243
Mold Volume:	2118.8	Water content %	6

trial no :	1	2	3		
Wt. Of Mold+ wet soil	18198.8	18893.8	18625.8		
WT. WET SOIL	4697.8	5025.8	4944.8		
Wt. Density	2.218	2.354	2.344		

Tare No.	7	19	13	17	15	48				
Tare wt.	42.2	44.1	53.6	55.2	58.9	46.2				
Wt. Of wet soil & tare	159.8	156.8	158.8	158.9	158.8	156.8				
Wt. Of dry soil & tare	145.4	145.3	142.7	142.8	146.1	139.9				
Wt. Of water	4.7	4.7	7.3	7.2	6.9	16.1				
Wt. Of dry soil	123.8	123.8	123.8	123.8	123.8	123.8				
Water content %	3.8%	3.8%	5.9%	5.9%	5.6%	8.2%				
AV. Water content %	3.8%		5.9%		6.1%					
Dry Density	2.136		2.342		2.346					



Contractor
المعمل المركزي رقم ٢
القطار السريع
2-2-3

شركة إي جي كونترات
القطار السريع

Consultant
mohamed elsaied
m. elsaied

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ا.م. خالد شحيد	 Electric Express Train - HSR From El Ain El Sukhri City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 504+000 To Station 509+000	 وزارة النقل الهيئة العامة للنقل

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

SUB-BALLAST

TESTING DATE:	29-09-2023	code	zone	FROM	TO
LOCATION	K.P 508+000	EG-SUB1		507+000	509+000
COMPANY NAME	EG-CONTRACT				

Weight of sample Before Test	—	gm
Weight of saturated -dry surface sample (B)	3051	gm
Weight of saturated sample in water (C)	1870	gm
Weight of dry sample after heating (A)	3010	gm

Results:-

Bulk specific gravity = $A / (B-C)$	2.540	
Apparent specific gravity = $A / (A-C)$	2.640	
Absorption = $(B-A)/A$	1.362	%

Los Angeles abrasion AASHTO-T96

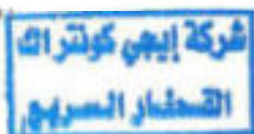
Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3975	21

Lab. Specialist

Name :

Sign :


شركة إي جي كونترات
القنطرة السريعة

Lab. Engineer

Name :

Shahab Hamed

Sign :


المعمل المركزي رقم ٢
القطار السريع - القطاع السابع

Consultant Engineer

Name :

mohamed elstair

Sign :


شركة إي جي كونترات

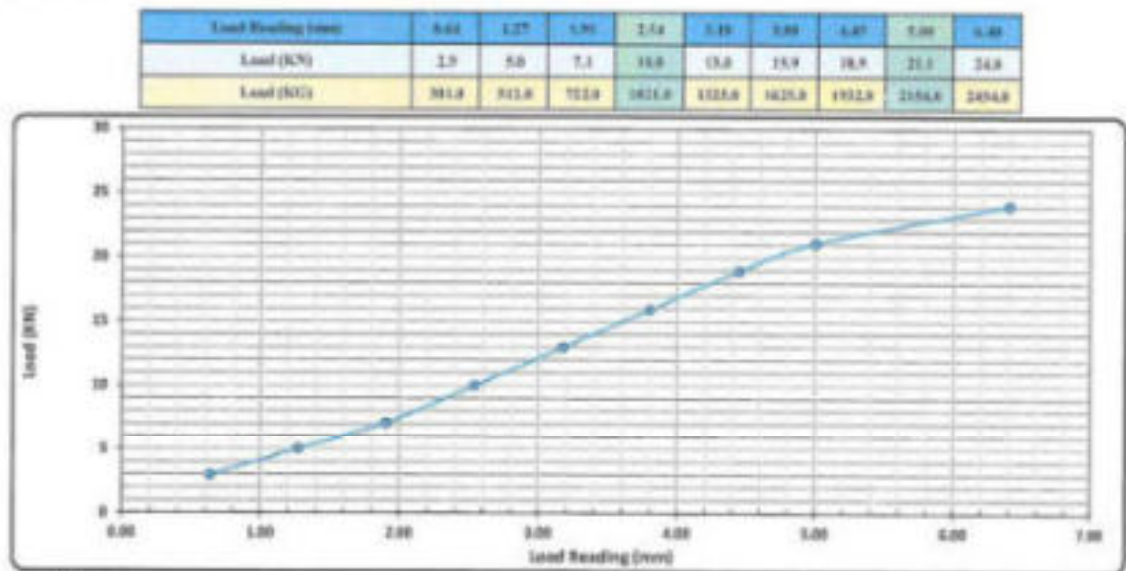
California Bearing Ratio TEST

		SUB-BALLAST			
Testing Date :	29-09-2023	Code	EG-CONTRACT	FROM	TO
Location :	K.P 508+000	EG-SUB1		507+000	509+000
COMPANY NAME	EG-CONTRACT				

Test Results

Compaction % for Mold		Moisture Ratio After Compacted Mold		Swelling	
Mold No.	5	Test No.	40	Mold No.	5
Mold Vol (cm ³)	2000	Test WT. (gms)	46.1	Date	29-09-2023
Mold WT. (gms)	8008	Test WT. + Wet WT. (gms)	102.8	Initial Height (mm)	0.00
Mold WT. + Wet WT. (gms)	12980	Test WT. + Dry WT. (gms)	140.9	Final Height (mm)	0.00
Wet WT. (gms)	4972	Water WT. (gms)	11.9	Difference	0
Wet Density (g/cm ³)	2.302	Dry WT. (gms)	128.7	Sample Height (mm)	116.40
Dry Density (g/cm ³)	2.226	Moisture Content %	6.1	Swelling Ratio %	0.0%
Proctor Density (g/cm ³)	2.240				
Compaction %	99				

Load Reading :



Calculations :

Penetration	Load	Standard Load	CBR	Mold - Comparison	Compaction	CBR
(mm)	(KN)	(kg)	(%)	(%)	(%)	100 Load at %
2.50	10.01	13.0	74.3%	99	100	75.5%
5.00	21.11	20.0	105.4%			106.2%

Lab. Specialist

Lab. Engineer

Consultant Engineer

Name :

Name : Shihab Hamed

Name : mohamed elsaied

شركة إي جي كونترات
القطار السريع

المعمل المركزي رقم ٢
القطار السريع - القطاع السابع

Sign :

 KARAMALLAH KARAMALLAH KARAMALLAH كرام الله كرام الله كرام الله	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 504+000 To Station 508+177	 وزارة النقل والتنمية الاقتصادية Ministry of Transport and Economic Development
Operating Lab	Negida Central Lab	

PARTICLE SIZE DISTRIBUTION OF SUB-BALLAST

TESTING DATE:	22-10-2023	Code	Zone	FROM STATION	TO STATION
LOCATION	K.P 508+000	EG4SUB2		507+000	509+000
COMPANY NAME	EG-CONTRACT				
MATERIALS	SUB-BALLAST				
Quantity	2000 M3				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		7000.00		gm	Table classify	
sieve size	2	1.5	1	4/3	2/1	3/2	# 4	PASS	Soil Classify	A-1-a
Mass retained (g)	0.0	1389.0	7491.0	11674.0	4767.0	14948.0	6361.0		PRO	2.245
Cumulative Retained (g)	0.0	1389.0	8880.0	20554.0	27321.0	42269.0	48630.0		WC	7.18
Cumulative Retained %	0.0	2.0	12.5	29.8	39.6	59.7	68.6		CBR	99.9%
Cumulative Passing %	100.0	98.0	87.5	71.0	61.4	40.3	31.4		Los Angeles	21
									Absorption	1.626
									SP.Gravity	2.551

B-soft material gradation				WT. Of sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	88.00	216.00	419.00					
Cumulative Retained %	17.60	63.20	83.80					
Cumulative Passing %	82.40	36.80	16.20					

C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	98.0	87.5	71.0	61.4	40.3	31.4	20.0	11.5	5.1
SPECIFICATION	—	97	—	70 — 75	—	15 — 00	—	0 — 35	—	0 — 7

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

Contractor
 المعمل المركزي رقم ٢
 شهاب حامد
 ٢٤
 القطار السريع - المقطع الخامس

شركة إي جي كونترات
 القطار السريع

Consultant

mohamed elsayed

 	Electric Express Train - HSR		 
	From El Ain El Sokhna City To El Alamein - MATROUH		
	Section - 7 From FOXA TO MARSA MATROUH		
From Station 504+000 To Station 509+000			

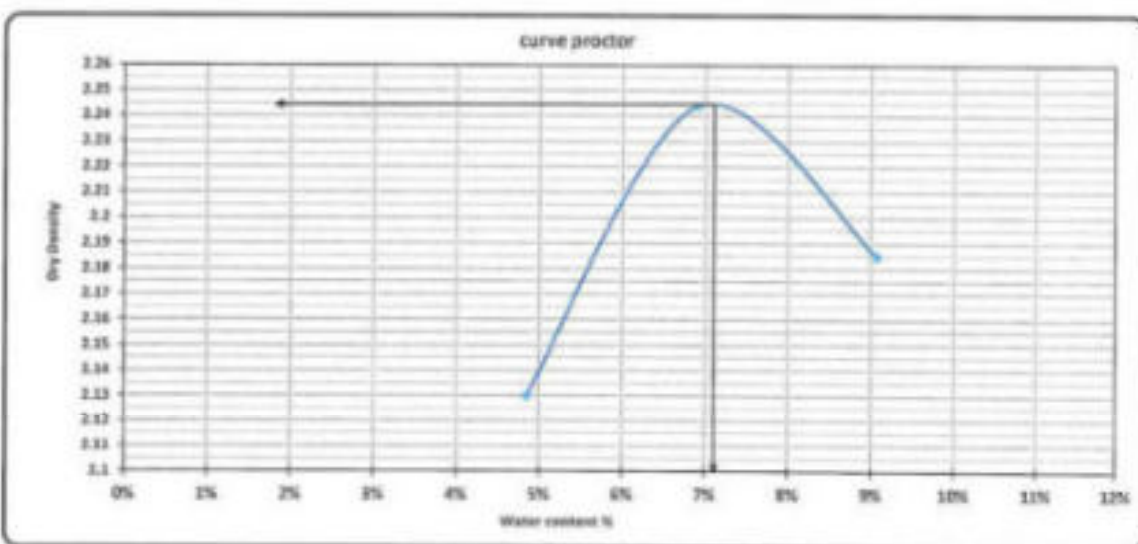
PROCTOR TEST (SUB-BALLAST)

TESTING DATE:	23-10-2023	Code	zone	FROM	TO
LOCATION	K.P 508+000	EG-SU92		507+000	509+000
COMPANY NAME	EG-CONTRACT				

Weight of empty mold :	5861.0	MAX Dry Density	2.245
Mold Volume:	2118.0	Water content %	7.1

trial no :	1	2	3		
Wt. Of Mold+ wet soil	10991.0	10942.0	10988.0		
Wt. WET SOIL	4730.0	5061.0	5047.0		
Wt. Density	2.233	2.399	2.383		

Tare No.	7	10	13	17	18	40			
Tare wt.	42.2	44.3	83.6	95.2	30.9	46.2			
Wt. Of wet soil & tare	178.0	190.0	186.0	196.0	190.0	190.0			
Wt. Of dry soil & tare	144.0	144.3	141.4	141.0	138.9	138.0			
Wt. Of water	6.0	5.0	8.6	8.4	11.1	11.2			
Wt. Of dry soil	123.0	123.0	123.0	123.0	123.0	123.0			
Water content %	4.9%	4.8%	7.0%	6.8%	9.0%	9.1%			
AV. Water content %	4.8%		6.9%		9.1%				
Dry Density	2.130		2.244		2.185				



Contractor
المعمل المركزي رقم ٢
القنطرة السريعة - القنطرة السابع

شركة إيمن كونتراكت
القنطرة السريعة

Consultant
mohamed elsaied
KK

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد عبدالعظيم	 EGYPTIAN RAILWAYS السكك الحديدية المصرية	Electric Express Train - HSR	 محافظة مطروح Matrouh
		From El Ain El Sakina City To El Alamein - MATROUH	
		Section - 7 From FOKA To MARSA MATROUH	
		From Station 508+000 To Station 509+000	

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

SUB-BALLAST

TESTING DATE:	23-10-2023	code	zone	FROM	TO
LOCATION	K.P 508+000	EG-SUB2		507+000	509+000
COMPANY NAME	EG-CONTRACT				

Weight of sample Before Test	—	gm
Weight of saturated -dry surface sample (B)	2813	gm
Weight of saturated sample in water (C)	1728	gm
Weight of dry sample after heating (A)	2768	gm

Results:-

Bulk specific gravity = $A / (B-C)$	2.551	
Apparent specific gravity = $A / (A-C)$	2.662	
Absorption = $(B-A)/A$	1.626	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3943	21

Lab. Specialist

Name :

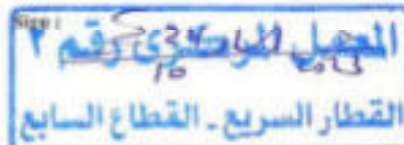
Sign :



Lab. Engineer

Name : Sheshab Hamdi

Sign :



Consultant Engineer

Name : Mohamed Elsayed

Sign :



 	Electric Express Train - HSR	 
Operating Lab: Nagda Control Lab		

California Bearing Ratio TEST

		SUB-BALLAST			
Testing Date :	24-10-2023	Code	ZONE	FROM	TO
Location :	K.P 508+000	EG-SUB2		507+000	509+000
COMPANY NAME	EG-CONTRACK				

Test Results

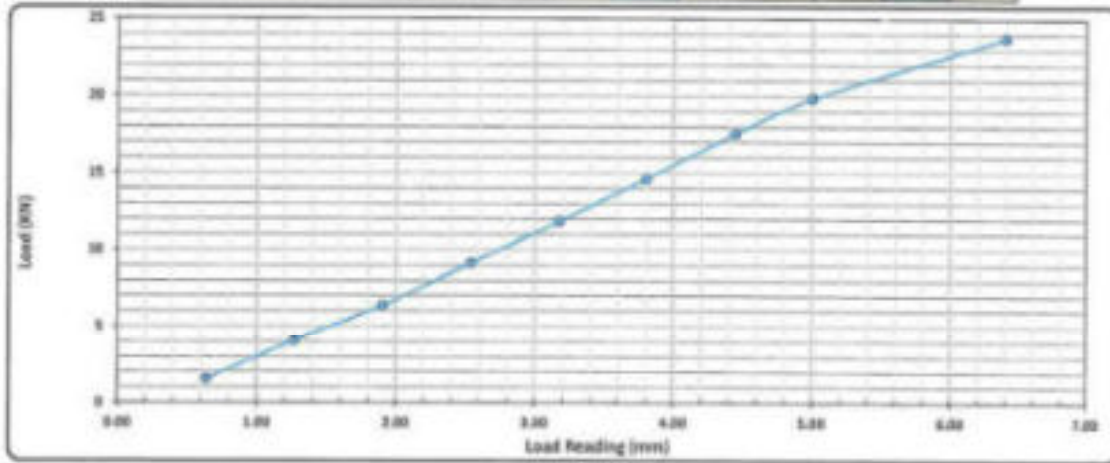
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2137
Mold WT. (gm)	7724
Mold WT. + Wet WT. (gm)	12811
Wet WT. (gm)	5087
Wet Density (g/cm ³)	2.360
Dry Density (g/cm ³)	2.208
Proctor Density (g/cm ³)	2.245
Compaction %	98

Moisture Ratio After Compacted Mold	
Tare No.	13
Tare WT. (gm)	36.5
Tare WT. + Wet WT. (gm)	107
Tare WT. + Dry WT. (gm)	176.7
Water WT. (gm)	70.2
Dry WT. (gm)	106.5
Moisture Content %	7.1

Swelling	
Mold No.	1
Date	24-10-2023
Initial Height (mm)	6.00
Final Height (mm)	6.00
Difference	0
Swelling Height (mm)	116.40
Swelling Ratio %	9.8%

Loading Reading :

Load Reading (mm)	0.44	1.27	1.91	2.74	3.38	3.80	4.45	5.08	6.40
Load (KN)	1.5	4.1	6.4	9.1	11.9	14.6	17.6	19.8	23.8
Load (KG)	158.8	415.8	643.8	932.8	1211.8	1491.8	1781.8	2021.8	2425.8



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(KN)	(kg)	(%)	(%)	(%)	100 mm Load %
2.78	9.14	25.4	36.3%	98	100	45.8%
5.08	19.85	26.8	74.0%			99.9%

Lab. Specialist

Name :

Lab. Engineer

Name : Shehali Handi

Consultant Engineer

Name : mohamed elsaied





Electric Express Train - HSR
 From El Ain El Sokhna City To El Alamein - MATROUH
 Section - 7 From FOKA To MARSA MATROUH
 From Station 504+000 To Station 566+177



Operating tag: **Al Tawkol Central Lab**

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	23-10-2023	code	ZONE	507+000	508+000
LOCATION	K.P (508)	EOG-SUB3	Material	Sub ballast	
NAME COMPANY	EG CONTRACT		quantity	2500 m³	

-visual inspection test

-Gradient test

-gradation of bulk materials			SAMPLE WEIGHT (g)		28770.00		gm	table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	soil classify
Mass retained (g)	75.0	800.0	2800.0	4370.0	4020.0	4125.0	4105.0		CLASS A-1-A
Cumulative Retained (g)	75.0	875.0	3675.0	8545.0	12565.0	16690.0	20795.0	7975.0	PRO 2.24
Cumulative Retained %	0.3	3.0	12.8	29.7	42.7	58.0	72.3		WC 7%
Cumulative Passing %	99.7	97	87.2	70	56.3	42.0	27.7		CBR 99.2
159.6									LA 20.4%
									S.G 2.644

-soft material gradation			WT.OF sample		500.00		gm
sieve size	#10	#40	#200				
Mass retained (g)	145	175	85				
Cumulative Retained (g)	140.00	310.00	415.00				
Cumulative Retained %	28.00	62.00	83.00				
Cumulative Passing %	72.00	38.00	17.00				

-General gradient

sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	99.7	97	87.2	70	56.3	42.0	27.7	20.3	10.5	4.7
		97		70-76		15-60		0-35		<7

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

Contractor

Eng

Ahmed Hakeem



Consultant

شركة إيجي كوتراك
القنطار السريع





Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 7 From FOKA TO MARSA MATROUH
From Station 504+000 To Station 508+177



PROCTOR TEST

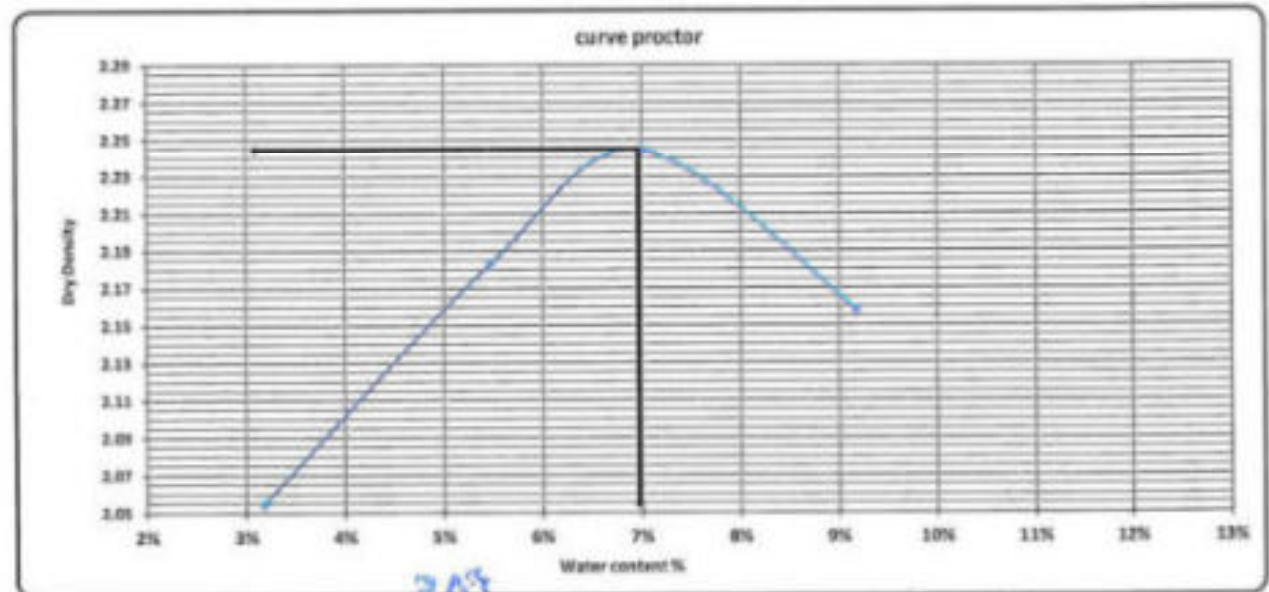
TESTING DATE:	24-10-2023	code	ZONE	507+000	509+000
LOCATION	K.P (508)	EGC-BUB3	Material	Sub ballast	
NAME COMPANY	EG CONTRACT		quantity	2500 m³	

Weight of empty mold :	5629.9
Mold Volume:	2124.9

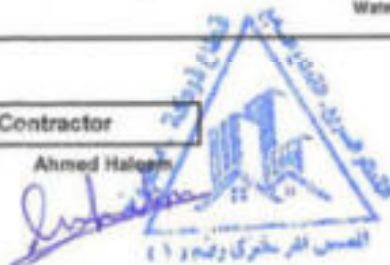
MAX Dry Density	2.24
Water content %	7.0%

trial no :	1	2	3	4	
Wt. Of Mold + wet soil	10123.0	10518.0	10728.0	10625	
WT. WET SOIL	4503.0	4896.0	5100.0	5005.0	
Wt. Density	2.129	2.302	2.401	2.356	

Tare No.	11	13	19	12	9	5	18	19		
Tare wt.	53.21	52.12	56.15	54.79	55.93	56.33	58.65	59.21		
Wt. Of wet soil & tare	150.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	147.0	147.0	144.9	145.3	143.9	143.8	142.0	142.7		
Wt. Of water	3.8	3.0	5.1	4.7	6.1	6.2	8.0	7.3		
Wt. Of dry soil	93.8	94.9	88.8	90.5	88.0	87.5	83.4	83.5		
Water content %	3.2%	3.2%	5.7%	5.2%	6.9%	7.1%	9.6%	8.7%		
AV. Water content %	3.2%		5.5%		7.0%		9.2%			
Dry Density	2.055		2.183		2.24		2.158			



Contractor
Eng. Ahmed Haseem



شركة إيجي كولتراك
القسطار الشريف

Consultant
Abdelhak



 Karama Construction Services المكتب الاستشاري والهندسي أ.م. خالد كرام	 وزارة النقل والبنية التحتية م.م. محمد عبد الله	Electric Express Train - HSR From El Att El Dekra City To El Aamim - MATROUH Section - 7 From FORA To BANSA MATROUH From Station 501+000 To Station 508+137	 وزارة التخطيط م.م. محمد عبد الله
		Absorption & Aggregate specific gravity AASHTO-T85	

TESTING DATE:	24/8/2023	code	Station	507+000	508+000
LOCATION	K.P (508)	EGC-SUB3	Material	Sub ballast	
NAME COMPANY	EG CONTRACT		quantity	2500 m³	

Weight of sample	2500	gm
Weight of saturated surface dry sample (B)	2525	gm
Weight of saturated sample in water (C)	1550.1	gm
Weight of dry sample after heating (A)	2480	gm

Results:-

Bulk specific gravity = $A / (B - C)$	2.544	
Bulk specific gravity (S.S.D) = $B / (B - C)$	2.590	
Apparent specific gravity = $A / (A - C)$	2.667	
Absorption = $(B - A) / A$	1.015	%

(in)

Los Anglos Abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3980	20.40

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Ahmed Elshen

Sign :

Consultant Engineer

Name :

Sign :



California Bearing Ratio TEST

Testing Date :	25/10/2023	Code	FROM STA :	507+000	509+000
Location :	K.P (508)	EGC-SUB3	Material	Sub ballast	
Company Name	EG CONTRACT		Layer Thickness	100mm	

Test Results

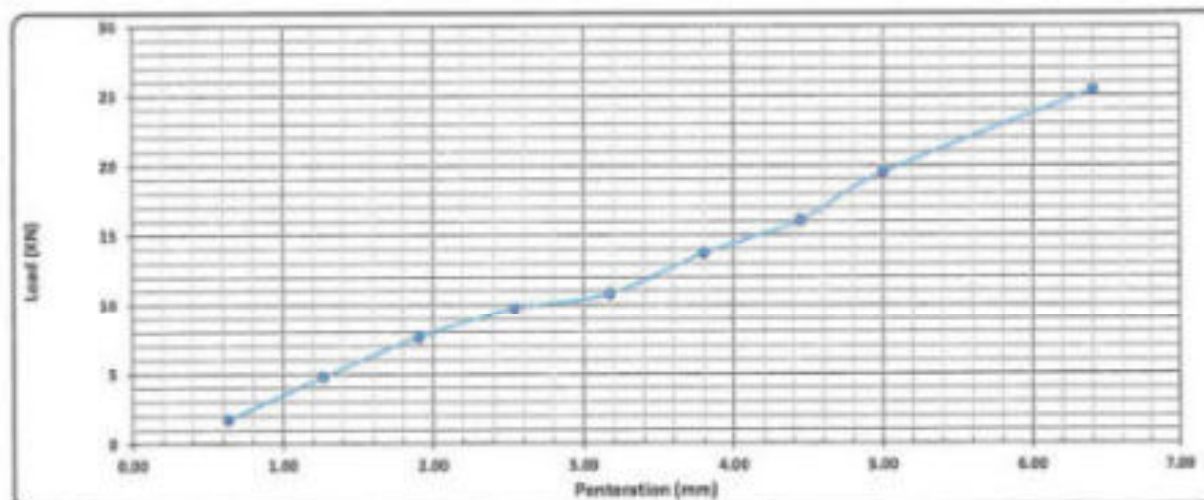
Compaction % for Mold	
Mold No.	3
Mold Vol. (cm ³)	2144
Mold WT. (gm)	4029
Mold WT. + Wet WT. (gm)	5058
Wet WT. (gm)	1029
Wet Density (g/cm ³)	2.343
Dry Density (g/cm ³)	2.281
Proctor Density (g/cm ³)	2.348
Compaction %	98.2

Moisture Ratio After Compacted Mold	
Tare No.	10
Tare WT. (gm)	54.31
Tare WT. + Wet WT. (gm)	110
Tare WT. + Dry WT. (gm)	144.2
Water WT. (gm)	5.8
Dry WT. (gm)	89.9
Moisture Content %	6.5

Swelling	
Mold No.	3
Date	25/10/2023
Initial Height (mm)	20.00
Final Height (mm)	20.85
Difference	0.85
Sample Height (mm)	129
Swelling Ratio %	0.66%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.42	5.00	6.40
Load Reading (Kg)	196	325	502	1081	1201	1525	1785	2148	2823
Load (KN)	1.9	4.8	7.7	9.7	10.8	15.7	16.1	19.5	25.4



Calculations :-

Penetration (mm)	Load (Kg)	Standard Load (Kg)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR % نسبة 100
2.50	9.73	13.4	72.9%	98	100	74.2%
5.00	15.51	20.8	97.4%			99.2%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

شركة إي جي كونترات
القسطار السريع

Creating lap

Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	30-10-2023	code	ZONE	507+000	509+000
LOCATION	K.P (508)	EOC-SUB4	Material	Sub ballast	
NAME COMPANY	EG CONTRACT		quantity	2500 m³	

Visual inspection test

t-Gradient test

1-gradation of bulk materials				SAMPLE WEIGHT [g]		39195.00		gm	table classify	
sieve size	2	1.5	1	4/3	3/1	8/3	# 4	PASS	soil classify	
Mass retained (g)	0.0	1150.0	5105.0	5500.0	5030.0	5100.0	4780.0		CLASS	A-1-A
Cumulative Retained (g)	0.0	1150.0	6255.0	11755.0	16785.0	21885.0	26645.0	12650.0	PRO	2.26
Cumulative Retained %	0.0	2.9	15.6	36.0	42.8	55.8	68.0		WC	7.3%
Cumulative Passing %	100.0	97	84.0	79	57.2	44.2	32.0		CBR	92%
									LA	21%
									S.G	2.544

I-soft material gradation					WT.OF sample	500.00	gm
sieve size	#10	#40	#200				
Cumulative Retained (g)	150.00	320.00	425.00				
Cumulative Retained %	30.00	64.00	85.00				
Cumulative Passing %	70.00	36.00	15.00				

[illegible]

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

Contractor

Eng

Signi

Ahmed Hakeem

Consultant

شركة إيجي كونترالك
التسليم السريع



Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 7 From FOKA TO MARSA MATROUH
From Station 504+000 To Station 508+177



PROCTOR TEST

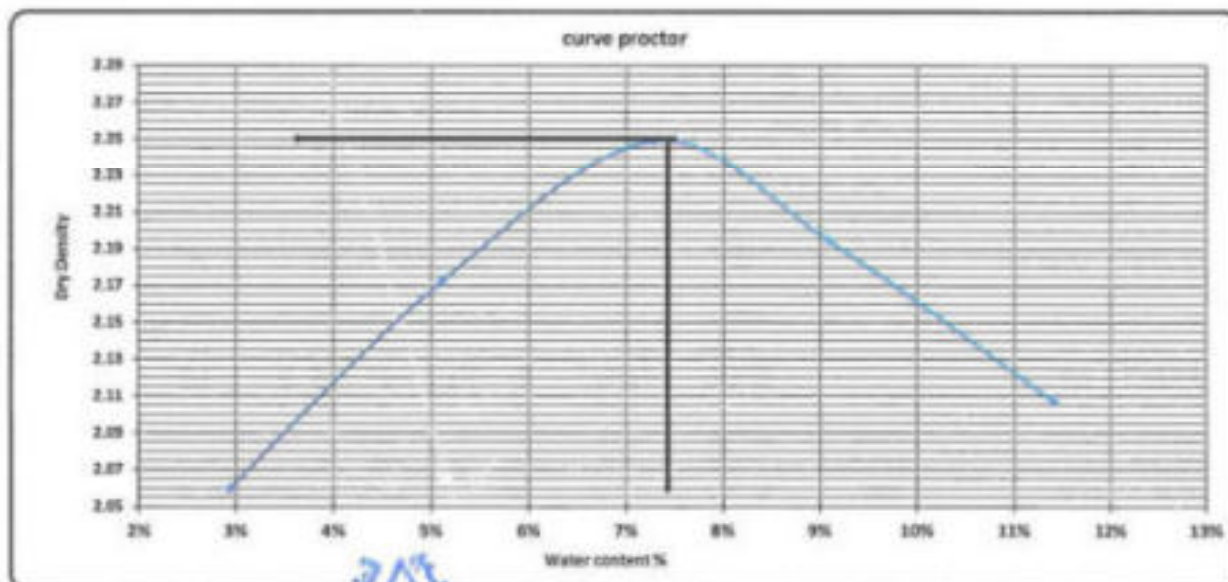
TESTING DATE	21-10-2023	code	ZONE	507+000	509+000
LOCATION	K.P (508)	EDC-SUB4	Material	Sub ballast	
NAME COMPANY	EG CONTRACT		quantity	2500 m³	

Weight of empty mold :	5620.0
Mold Volume:	2124.0

MAX Dry Density	2.25
Water content %	7.3%

trial no :	1	2	3	4	4
Wt. Of Mold+ wet soil	10123.0	10470.0	10745.0	10705	10605
WT. WET SOIL	4503.0	4850.0	5123.0	5085.0	4985.0
Wt. Density	2.120	2.283	2.413	2.394	2.347

Tare No.	1	3	5	7	9	9	11	10	14	14
Tare wt.	55.21	53.4	52.63	53.21	55.24	54.33	54.32	51.36	55.32	54.21
Wt. Of wet soil & tare	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
Wt. Of dry soil & tare	147.2	147.3	148.2	148.4	143.5	143.6	142.0	141.8	140.0	140.5
Wt. Of water	2.8	2.7	4.8	4.6	6.5	6.4	8.0	8.2	10.0	9.5
Wt. Of dry soil	92.0	93.9	92.6	92.2	88.3	89.2	87.7	90.4	84.7	86.3
Water content %	3.0%	2.9%	5.2%	5.0%	7.4%	7.2%	9.1%	9.1%	11.8%	11.0%
AV. Water content %	2.9%		5.1%		7.3%		9.1%		11.4%	
Dry Density	2.060		2.172		2.25		2.194		2.107	



Contractor

Eng. Ahmed Hossain

Sigs

Consultant

شركة إيجي كونتراتك
التصاريح السريع

المكتب
الإستشاري الهندسي
أ.ع. - طه الدين

	Electric Express Train - PDR From El Ain El Sofhah City To El Menouh - MATROUH Section - 7 From PDR To MARSA MATRUH From Station 54+00 To Station 54+177		
	Absorption & Aggregate specific gravity AASHTO-T85		

TESTING DATE:	31/10/2023	code	Station	507+000	509+000
LOCATION	K.P (508)	EGC-SUB4	Material	Sub ballast	
NAME COMPANY	EG CONTRACT		quantity	2500 m³	

Weight of sample	2500	gm
Weight of saturated surface dry sample (B)	2527	gm
Weight of saturated sample in water (C)	1553.0	gm
Weight of dry sample after heating (A)	2485	gm

Results:-

Bulk specific gravity = $A / (B - C)$	2.551	
Bulk specific gravity (S.S.D) = $B / (B - C)$	2.594	
Apparent specific gravity = $A / (A - C)$	2.566	
Absorption = $(B - A) / A$	1.690	%

100

Los Angeles Abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3956	21.00

Lab. Specialist

شركة إيجي كونتراك
 المهندس أحمد هادي
 Sign:

Lab. Engineer

Name: Ahmed Hadeem
 Sign:

Consultant Engineer

Name:
 

Sign:
 

شركة إيجي كونتراك
 المهندس أحمد هادي

California Bearing Ratio TEST

Testing Date :	1/11/2023	Code	FROM STA :	507+000	509+000
Location :	K.P (S06)	EGC-SUB4	: Material	Sub Ballast	
Company Name	EG CONTRACT		: Layer Thickness	200mm	

1. Test Results

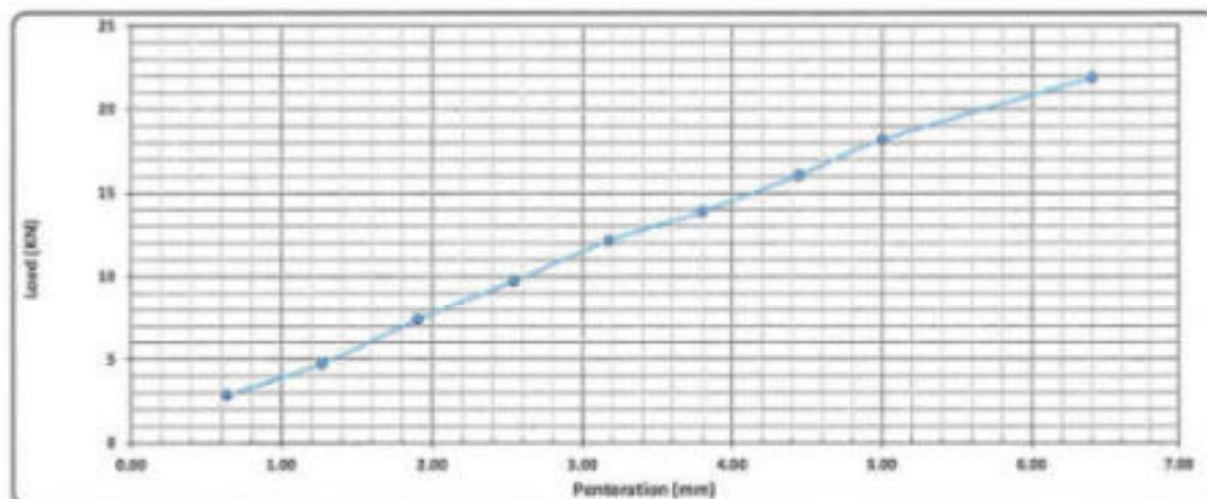
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	1138
Mold WT. (gm)	5208
Mold WT. + Wet WT. (gm)	10254
Wet WT. (gm)	5046
Wet Density (g/cm ³)	2.279
Dry Density (g/cm ³)	2.232
Proctor Density (g/cm ³)	2.286
Compaction %	98.7

Moisture Ratio After Compacted Mold	
Tare No.	11
Tare WT. (gm)	54.01
Tare WT. + Wet WT. (gm)	158
Tare WT. + Dry WT. (gm)	143.45
Water WT. (gm)	6.3
Dry WT. (gm)	89.6
Moisture Content %	7.1

Swelling	
Mold No.	1
Date	1/11/2023
Initial Height (mm)	10.00
Final Height (mm)	10.00
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.08	6.40
Load Reading (Kg)	320	630	813	1001	1152	1345	1705	2021	2435
Load (kN)	2.9	4.8	7.4	9.7	12.2	13.9	16.1	18.2	21.9



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(kN)	(kN)	(%)	(%)	(%)	100 على نسبة %
2.50	9.73	13.4	72.9%	99	100	73.8%
5.00	18.19	20.0	90.9%			92.0%

Lab. Specialist

Name :
شركة إيبيكو كونترال
Sign :
التقارير الهندسية

Lab. Engineer

Name :
أحمد محمد
Sign :
المسارح الهندسي رقم ١٠

Consulting Engineer

Name :
شركة إيبيكو كونترال
Sign :
التقارير الهندسية



Electric Express Train - HSR
 From El Ain El Sokhna City To El Alamein - MATROUH
 Section - 7 From FOKA To MARSA MATROUH
 From Station 504+000 To Station 508+177



Operating lap: Al Tawkol Central Lab

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	8-11-2023	code	ZONE	507+000	509+000
LOCATION	K.P (508)	EGC-SUB5	Material	Sub ballast	
NAME COMPANY	EG CONTRACT		quantity	2500 m³	

Visual inspection test

1-Gradient test

1-gradation of bulk materials				SAMPLE WEIGHT (g)		28145.00		gm	table classify	
sieve size	2	1.5	1	4/3	3/1	5/3	# 4	PASS	soil classify	
Mass retained (g)	0.0	885.0	3440.0	4100.0	3200.0	4500.0	3945.0		CLASS	A-1-A
Cumulative Retained (g)	0.0	885.0	4325.0	8425.0	11625.0	16125.0	20070.0	8075.0	PRO	2.26
Cumulative Retained %	0.0	3.1	15.4	29.9	41.3	57.3	71.3		WC	7.5 %
Cumulative Passing %	100.0	97	84.6	70	58.7	42.7	28.7		CBR	89.7 %
									C.A	22 %
									S.G	2.514

1-soft material gradation				WT.OF sample		500.00		gm
sieve size	#10	#40	#200					
Cumulative Retained (g)	150.00	290.00	415.00					
Cumulative Retained %	30.00	58.00	83.00					
Cumulative Passing %	70.00	42.00	17.00					

2-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	97	84.6	70	58.7	42.7	28.7	20.1	12.1	4.9
		97		70-75		15-60		0-35		<7

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

Contractor

Eng Ahmed Hakeem
 Sign



Consultant



 K.K. ENGINEERING CONSULTANCY OFFICE المكتب الاستشاري الهندسي ا.د. خالد فهد	 Electric Express Train - RSR From El Ain El Sakina City To El Alamein - MATROUH Section - / From FOMA To MARSA MATRUH From Station 504+000 To Station 509+000	 وزارة النقل الهيئة العامة للطرق ٢٠٢٣
Absorption & Aggregate specific gravity AASHTO-T85		

TESTING DATE:	18/11/2023	code	Station	507+000	509+000
LOCATION	K.P (508)	EGC-SUBS	Material	Sub ballast	
NAME COMPANY	EG CONTRACT		quantity	2500 m³	

Weight of sample	2500	gm
Weight of saturated surface dry sample (B)	2535	gm
Weight of saturated sample in water (C)	1543.5	gm
Weight of dry sample after heating (A)	2500	gm

Results:-

Bulk specific gravity = $A / (B - C)$	2.554	
Bulk specific gravity (S.S.D) = $B / (B - C)$	2.549	
Apparent specific gravity = $A / (A - C)$	2.606	
Absorption = $(B - A) / A$	1.400	%

130

Los Anglos Abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3900	22.00

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Ahmed Halem

Sign :

Consultant Engineer

Name :

Sign :


 المهندس أحمد هالم
 المهندس الاستشاري
 (١٠٠٠)


 شركة إيجي كونترالك
 القطار السريع

California Bearing Ratio TEST

Taring Date :	11/11/2023	Code	FROM STA :	S67+000	S69+000
Location :	K.P (S08)	EGC-SUB1	Material	Sub ballast	
Company Name	EG CONTRACT		Layer Thickness	200mm	

- Test Results

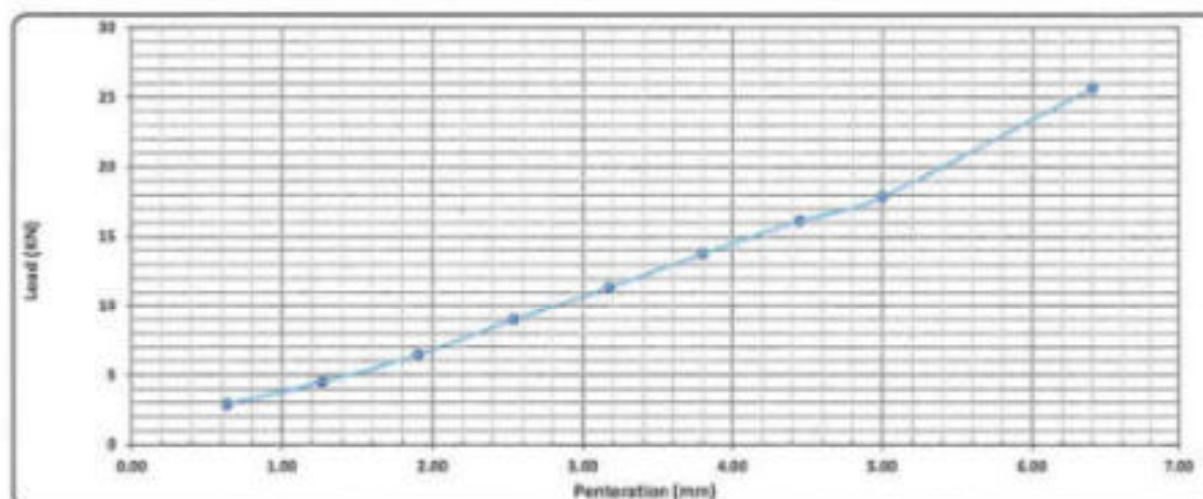
Compaction % for Mold	
Mold No.	2
Mold Vol. (cm ³)	2170
Mold WT. (gm)	5210
Mold WT. + Wat WT. (gm)	10468
Wat WT. (gm)	5258
Wat Density (g/cm ³)	1.419
Dry Density (g/cm ³)	1.282
Proctor Density (g/cm ³)	1.28
Compaction %	99.4

Moisture Ratio After Compacted Mold	
Tare No.	12
Tare WT. (gm)	25.33
Tare WT. + Wat WT. (gm)	158
Tare WT. + Dry WT. (gm)	143.45
Water WT. (gm)	6.6
Dry WT. (gm)	88.1
Moisture Content %	7.4

Swelling	
Mold No.	2
Date	11/11/2023
Initial Height (mm)	0.00
Final Height (mm)	0.00
Difference	0.00
Sample Height (mm)	120
Swelling Ratio %	0.00%

Loading Reading :

Penetration (mm)	0.64	1.27	1.91	2.54	3.18	3.80	4.45	5.00	6.40
Load Reading (Kg)	325	801	720	1001	1263	1532	1795	1955	2894
Load (KN)	2.9	4.5	6.5	9.0	11.4	13.8	16.2	17.9	25.7



Calculations :-

Penetration	Load	Standard Load	CBR	Moist-Compaction	Compaction	CBR
(mm)	(Kg)	(Kg)	(%)	(%)	(%)	100 نسبة 100 %
2.50	9.01	13.4	67.8%	100	100	67.7%
5.00	17.87	20.8	89.3%			89.7%

Lab Specialist

Name :

Sign :

شركة إي جي كونتراك
القضايا المصيرية

Lab Engineer

Name :

Sign :

أحمد رمضان
المهندس احمد رمضان (م)

Consultant Engineer

Name :

Sign :

شركة إي جي كونتراك
القضايا المصيرية