CONTRACE				SVSETA CONSCIANCE SHARES	人口学
	<u>سودی کر ہے</u>	, کونتر اللہ ۔ اتمالا • ، •	، شركة ايم	مشروع القطار الكهرياني الب الملقيسة التقنيرية ليتود الاعمال للقطاع السليم (فركة - مطروح) - القطاع من المحطة + - + ح لي السف	
الاوسالي	440	المبية	Longit	المهان الاعمال	فيند
.47871	Δ#	1-119.7-1		العمل قريم الممل الجاهب العمل عزرية رئتشل الرية مساهة الازم و مطابقا الدواصفات والشعل باستعدام الات التعريرة المساف لا يتريذ عن أحسر على مشرور ما مثر و يسف لا عرب عن 10% و رزميا بقليرا الا معرفية الل مورق الى نسية التشكر العسر (2000 السف السيائي الساب الارسيان عن 10% و رزميا بقليرا الا معرفية الل مورق الارضية المطارية والنشاة السيائية والساب الارضي التي العسر التقديمات الاسعين المعرفية متصلحه طبقة السورة المسابعة (مواصطناة العرضية المواجعة المواجعة والاي الارضية العسياب القديمين متصلحه طبقة السورة المسابعة (مواصطناة الهيئة العام العرفي و القياري والمقيدية القديمين المراحية القليبة بهيئة الالتراف التية المسابع العام العام العام العام العرفية والاليزية والميثينة المينية المعن المراحية القليبة العاملة العام العام العربية العام العام العام العام العام المراحية العام العام العام العام الع المراحية القليبة العام العام المراحية التقليبة العام العام المراحية العام العام العام العامية العام العام المراحية المراحية العام العام المراحية العام العام المراحية العام العام المراحية العام المراحية العليم العام المراحية المية العام الع المراحية العام ال	-
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بدین جام المقروعات و ۲ منبید عیشی تیانین	1			المدن بدن بلدن بلدن بلدن بلدن بلدن بلدن بلد	شرز

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			From U.A.	Electric Exp in 15 Schinu (on -7 From FO uw Station 504	CHY TO ELA	Unionalisi - MATT	NCKUT DI		nann Anger Briese belan Manna	ANT DELLAR
Le cheund Coreading (ac	AI Ta	wholl Central	11.4%	A CONTRACTOR	1 1414		CI I	1 115	静度	
Oprisiding de		PAR	TICLE S	IZE DIST	RIBUTI	ION OF S	DIL		144	1-1 Day
TESTING DATE:		13-07-2023		00	1	ZONE	11	507	+000	509+000
LOCATION	K.	P (507+306	0)	EOC	(00)	Material		1		naterial 00 m*
NAME COMPANY	EV	G-CONTRAC	ST	Contraction of	1 11	quantity	1	1	1111	
2-Gradient fest		1		181	The second		11	1.13	1	
A-gradation of bulk materia	ela		1 1	TOTAL SAMP	PLE WEIGHT	438	46.00	gm i	1	table classify
slove size	2	1.5	1	4/3	1 2/1	8/3	#4	FASS		soil classify
Mass retained (g)	6.0	4500.0	7200.0	15302.0	2541.0	2356.0	2354.0		CLASS	A-1-A
Comutative Retained (g)	0.0	4500.0	11700.0	27008.0	29541.0	31847.0	\$4201.0	19646.0	PRO	2.18
Cumulative Retained %	0.0	8.4	21.7	50,1	54.8	59.1	63.5	al al	wc	7.30
Comstative Passing %	100.0	91.6	78.5	45,5	483	43.9	36,48	14 6	CBR	57.40
			1	1924	1	141	5. 11 4		CORR PAG	2.25
B-soft material gradation		1	hist. 1	L WE OF	sample	-	D I. I	11	CORIE NO	9.29
sleve size	10	40	200	141	sample	A CONTRACTOR	0.00	gm		
Contulative Retained (g)	135.00	240.00	340.00		1	1	1	1	1.2.1	at 1
Comulative Retained %	27.00	48.00	68.00	-	1		- for s	-		
Cumutative Passing %	73.00	52.00	32.00	1 1-11	1	1	1 int			
Convert stadlast		1		198.0		11. 1		ليبيها	1.41	
C-General gradient sleve size(in)	2	1.5	1.	-	10	推	1	11	1.1	
sleve size(mm)	50.0	37.5	25.6	3/4	1/2	3/8	#4	# 10	# 40	# 200
Cumulative Passing %	100.0	91.6	78.3	19,0	12.5	9.5	4.75	2.00	0,425	0.075
					45.1	40.9	36,5	26.6	19.0	1.1.08
N				1.1.1	1					
						1-11		1	-	
			at it	1.1	11.00	11.1	1141.7	11-1-1	1.1.1	
CALL CONTRACTOR	L.	OURD LIMIT (LLJ	THE PROPERTY	A STATUS	and the second second	4.1		183	131-
ATTERBERG LIMTS		. [11 6	1 418			- Bay	THE MORE	12023	411
	and the second	- A		101 110	1 81	1111		Nos	1.1 Rts	
Contractor	_	17	Va.	1111				1	1	111
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		7/11	1.18	4 13	11	1 12 1		0	tim	17
	1	1 10	MAN I			A CALLER	1 1	Ac	ellas	2
	1	1.		-77		11 11		12.	1 22	7-2023
	3				ALC: N	11.0				
		2.1		日月月	1 1	11	A	1 TY		
			1.11		. 1	31 Te	E E		5.4.3	
				1.19	-10	1 45 1	1.3.	1111	1 9 9	
							and the second se			

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Electric Express Truin - HERE From LI Air El Saltan City To II Alonado - RATROUIL Detfielt - 7 Drow FORA TO RAIRA DATIONS 1000 TO BEATON EAST-177



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D PROCTOR TEST ASIM D1557

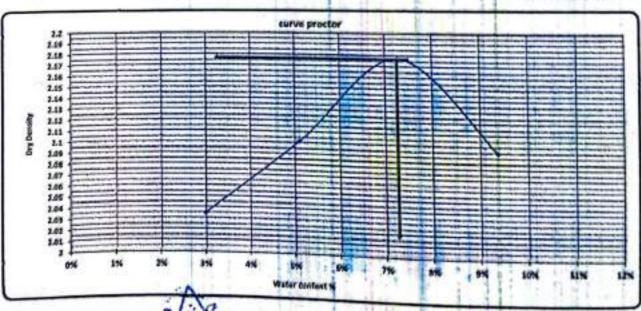
		CONFIED	RUCAU	A REAL CONTRACTOR		\$69+000
	IN.	IODIFIED F			\$07+000	Conception of the local division of the loca
		47-2623	6064	ZONE	fal n	interial
TESTING DATE:				Material	30	*m 00
LOCATION		(\$67+300)	EOC 180 1	quantity		CONTRACT STORE
NAME COMPANY	EG-C	ONTRACT	The Local Pro-	1 1 1 1 H		and the second second
		trist.	1 4507	Contraction of the	Condition of the light	12.18
Weight of empty mol	4	\$622.0	常時間	SIAN Dry De	and the second s	7.3%
		CONTRACTOR CONTRACTOR OF	THE REAL PROPERTY.	Water conten		
Mald Volume:		1114.0	The states	1	1 1 1 1	P. FEMPERATE
	-		1	and a start of the	4	The second second second
trial an 2			Contraction of the local division of the loc	10550.0	10-145	The second se
WE OF Met S	sil	16079.0	103102.0	In the second second second	4865.0	1 1 1 1 1 1 1
WT. WET SOIL		4450.6	4696.6	4555.0	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	
and all sectors designed			and the second se	the second s	1 100	

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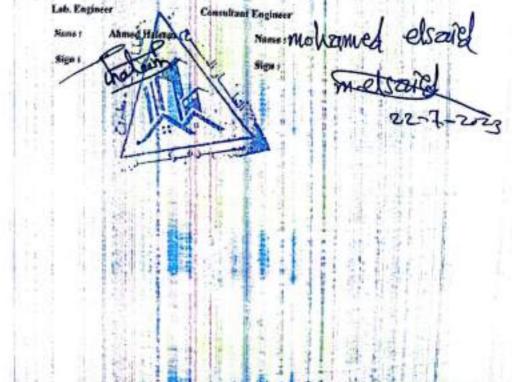
		Contract of	H 13	見れりた。	1411.3	100		-	10.5	In the second
Tare No.	55		1			4	R			
Tare wf.	54.03	83.36	54.68	N	35	-	-	\$4.22		
Wt. Of wet soil & tare	150.0	151.0	152.6	152.5	ISAS	151.0	ESLA	. ista		10.5
Wt. Of dry sell & tare	147.22	147.21	141.37	145.37	141.65	1-1-0.28	141,90	141.0	和國軍	
Wt. Of water	2.8	2.8	4.7	4,7	6.3	6.3	8,1	8.8	1.4.	
Wt. Of dry soll	98.4	14,5	\$6.7	93,5	\$5.7	86.9	85,4	\$7.5	王语	1 1 8
Water content %	3.0%	3.6%	\$.2%	\$.8%	7.4%	7.3%	9.5%	- 9.3%	APRIL	1
AV.Water content %	\$1	116	5.	1%	7.	396		456	I.I.	1
Dry Density	2/	154	2.	268	1 2	127	1 2		and the	

2.335





	Hales Ha	-	1111	5	cation	507+000	509+009	
TESTING DATE:	14/07/2023	0) (00 (10)		and the second second	aterial	fill material		
LOCATION NAME COMPANY	K.P (507+360 EG-CONTRAC			4	antity	3060 m ⁴		
NAME COMPANY	ECCOMMAN	- 100 m	Section 1	112		18.1		
Weight of sample		2500	gm			1 23-1		
Veight of saturated surface dry sample (B)		2575	gin	回書			Part and	
Weight of saturated sample	in water (C)	1523	gim				to the first	
Weight of dry sample after	heating (A)	2495	gm			1		
			Results	1	14 A	1: 51	SE I	
Bulk specific gravity =	A/(8-C)	2,372	24 1 P 1	1.	. ñ. 1		aff an	
Bulk specific gravity (S.S.C	Ŋ = B / (B-C)	2,448		1 Section				
Apparent specific gravity	= A /(A-C)	2.567		방말		1 14	And Ander	
Absorption = (B-A	A	3.206		1343	1 - 1 - 1 - 1	1	1.1	



Lab. Specialist

Name 1

Sign :





California Bearing Ratio TEST ASTM D1883

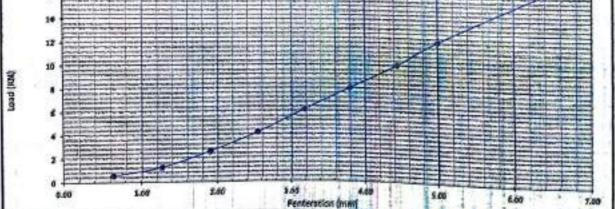
-	15/7/2823	Ceda	FROM STAL	507+008	509+000
Testing Date :	THE OWNER AND AND ADDRESS OF THE OWNER AND ADDRESS OF THE OWNER ADDRESS		of the local division of the local divisiono	fill m	aterial
Location :	K.P (507+300)	EGC(89)	Material	and the second second	1 K
Company Name	EG-CONTRACT	Earl pal	quantity	30	00m ²

.: Teet Results

Composition % for Mold		Mositure Ratio After Compaster	Moid	1	Swelling	2.552-1
Alad No.		TareNo			Riold New	1
stas vel (em ²)	2560	Ten WY. law	52.44		Gute	15/10/23
Mast WY. Ipay	4120	Town WY, Allia WY, Gurt	RSQ		toratilegis (ma)	.a.o.
CAS WY. + WW WY. (gan)	-	Tare WT, +Day WT, (34)	14		Rastling to turn?	4.00
War WT. (gres	6015	Water WEident	44	169 0	Duriveece k	0.05
Wei Dendry' (g/cm ²)	1.525	Deg WT. (part 3 - 5	85.5	311	Santple Hidats pares	110.0
Bry Danity (g/cm ²)	5.669	Meinture Content fü	7.4		Swilling Rolls %	6.00%
Fromur Density (g/cm ²)	1.877	1111	1 1		The state of the second	1.000
Comparison %	98.6		19.14	a 6 4	1 1 1 1 1	

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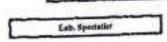
	Penteraties (mm)	8.64	1.1%	1.01	100	3.68	5.86	A DECK	5.69	6.49
- E	Losd (KN)	6.5	1.5	1.5	140-	61	10	10,6	12.1	16.5
		315		1111	1 10	1111	1	-	TE	101



Calculations 1+ à 1. **Standard Load** CUR Losd 4, Milli - Cauge Fenteration 688, (%) dif (Ke) 6143 (mm) 95 da bar 96 15.4 10.015 4.13 1.50 19.5% 100 20.5 11.00 68.11 5.60 \$7.4%

Lot D

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Name 1

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Control Louis

Correction of Unit Weight and	ASTM D-47	18)	Inizo Particios	
parintan Moisture Contact /a	2,177	Company		
Province Orlawity of Over Black	7.30	Date of Sample	EG-CONTRACT	
pecific Gravity of Water (Yw)	2.372	Projact	15/7/2023	
	0.080	Sector	Express Train Project	
Semple Date		The state of the second	Foka - Matrouh	1
otal Weight of Wet Sample	Luin I	The Windows		
Fight of Wet oversite Fraction Parent	gm	53845		
reight of Wet Fine Fraction (Passing 2/4)	em	27000	The second s	
Veight of Dry oversize Fraction (Mac)	gm	26845		216
Veight of Dry Fine Fraction (M _{DF})	gm	24840		2416.
otal Weight of Dry Sample	gm	24429	and the second sec	
Nater Content of oversize Fraction (Wg)	gin	49263	دوون درمم جاف	
Water Content of Fine Fraction (We)	*	0.05	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	*	0.10		
Percent of oversize Fraction By Mass (Pc)	%	50.42	THE REAL PROPERTY.	
Percent of Fine Fraction By Mass (Pr)	*	CONTRACTOR OF	11111111	
Calculations of Corrected Water for oversize	Fraction & Finer F	(action (Wy) :-		
Corrected Water for oversite Fraction & Finer Fr	action (Cur)			
Specific Gravity of over Size Fraction (G _M)	PISSE IN THE PARTY	W, PI+WCP	9.29	
Specific Gravity of Fine Fraction (Y _{DE})	2.37		Contraction of the local division of the loc	
Specific Gravity of Water (Yw)	2.177	Em/cm	IS BURNER STREEMEN	
Calculations of Correctd Unit Dry Weight of	0.980	8 1 1 1 E F 1		
and the second sec		combined finer and ove	rsize fractional college	- 1
Corrected Dry Unit Weight of Total Matter	ial (Yed	(YOF- GOL -	1943	
		(EVOF + PE) + (GRA	110 - pch	
Corrected Maximum Dry Density (M.D.D)	2.25		em/em ²	
Corrected Optimum Molisture Consent (0.M.C)	9/29	(all the second	Server and a server and a server a s	
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the oli		# 用 13 部長計	[2] 禁制[[1]]	
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PARTICLE SIZE DISTRIBUTION OF SOIL

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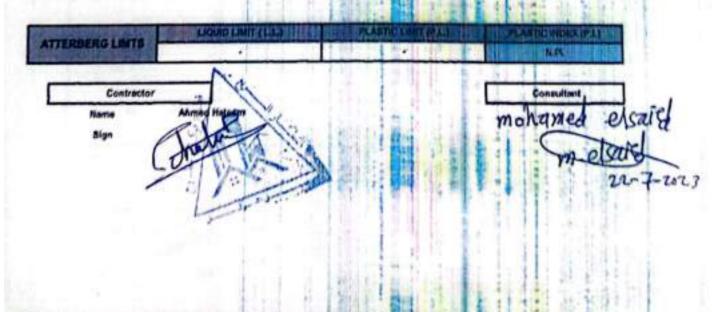
LOCATION	16-07-2023	Coda .	ZOHE	507+000 509+000
NAME COMPANY	K.P (507+300) EG-CONTRACT	EOUIAIT	Material	fill motorial
1-visual inspection inst	Lo contributi	Street Street	quantity	\$000 m*
2-Gradient test		1911a		

production of bulk materia	<u>ts</u>	2	4	TUTAL SAN	FLE Weisent		4.09	0T	11 A.F	table standy
sleve size	2	1.5	1	4/3 2/1 1/2 8/4 0/4/17	14.	self closeify				
Mass retained (g)	0.0	2770.0	0.0010	7275.0	3125.0	4653.0	\$103.0	1.00	CLASS	A1-A
Cumulative Retwined (g)	0.0	377935	925/0.0	20345.0	23460.0	28080.0	34180.0	18830.0	PRO	3,16
Complative Retained %	0.0	8.5	21.7	38.3	44.2	52.0	64.5	10.00	WC	7.58
Completive Passing %	109.0	84.4	THE	41.7	1 23.4	47.1	35.45		CBR	67.20

The second

ft material gradation		1 1 1 1	· ······	Wf.o	F aperpla	1.2	562.03	- 976	100
sleve size	10	40	200	11.	1 × A.				
Comstative Retained (g)	90.60	200.00	345.00	1.0			11		
Cumulative Retained %	18.00	40.00	60.00	135	1				
Cumulative Passing %	82.00	60.00	21.08	1,004	a tracing	100	1 1 1	1-25	1

General gradient			-	Alle	141	100	1 13	4	1	
sleve size(in)	2	1.5	1	3/4	\$/2.	3/6		# 10	# 40	6 200
sleve size(mm)	59.0	37.4	15.0	19.0	12.5	9.5	4.75	2.00	0.425	6.075
Cumulative Passing %	100.0	04.8	76.3	81.7	55.8	47,1	35.5	29.1	21.3	-1000
				111	-			-	111	
1.00			ELLEC.	1984	1.000		111	1 94	5-24	E



ALC: NOT THE OWNER OF THE OWNER OWNER OF THE OWNER	17-07-2023					ASTN	M D155	7		
	H.P (507+39	0)		Scial I	ZONE		1 50	7+864	and the second se	000+0
	EG-CONTRA	CY		C(01)	mansty	1	1	the second second	naterfal	
Weight of empty metds	ACCURATE VALUE	1420.0	Color.		11.1		ALL DOLLAR	Real Property lies	-	CHILDREN T
Mold Valumer	ARC AR	2124.0		Les 1		AX Dry Da			2.10	A STATE
trial as 1	T	_			1.4/			A CONTRACTOR	A STATE OF	Chinese La
Wf. Of Mold + Wet Sail	1019	Contraction of the	the last	1	1.10	1	the second second	423 549	111 414	
WT. WET SOIL	457	ALC: NO.	CONTRACTOR OF	0440	100000000	CESO	and the second second	1405 TE4	Ann in the	Real Party
WL Denity	457			136,6		121	-	784		
		-	-		1 11		1	1	10.0	194.4
Tare No.	16		19	1 4	20 19	14 E	110		1111	(注:)(注:)
Tare wt.	88,35	56.36	54.00	5165	A 22 (435	1 10.72	1643	FEIN	11
Wr. Of wer soil & fare	158.4	150.6	150.0	1.196.0	144.0	114.0	terp	reals	南部派	ALC: W
Wt. Of dry soll & tare	147.30	123.10	146.00	145.20	K1.56	10.50	141,40	i dand	國權的	
We, Of water	2.8	1.9	47	48	68	6.8	43	8.1	-	
Wr. Of dry soil	91.9	91.1	56.5	91.6	88,3 7,4%	2,654	87.6 8.4%	1.6%	-	
Water content %	3.0%	1,1%	5.2%	5.2%	7,4%		- Andrewson and a	9.5%	100	1
AV.Water content %	5.17	the second second		117	1.1			187	1 ST	100
Dry Density	1		11		11.10	1 2		21 1	7-111	11
		1	de	rve procto	1118		11	1 1 2.8	147	1-1
22			-	-						
1.19										
1.17						-				
2.15			1		1					
And in case of the local division in the loc			=15		-	-	X			
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21		1				-		N		
2.09										
1.07					-	_				
personal design of the second s	-					-				
2.46	10000	4 45	1 30	56 85	74	11	1 1	10%	115	52%
2.66 3.05 0% 1%	256 37	F					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A	1	
8.05	N	t	Water	content %		문화 문	311	1	1.12	
8.05	N	1	Water	content %						-
3.05 078 1%	A		(drinter	content %			1			
8.05	A	A.	(aster	ethilen2.5		A CONTRACTOR		Consulta	els els	

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مر الماني الستشاري الهلده ۱۹۷۶ الد. داند فنديل	tra gen sam	Institutes	NACE R		
	Absort	tion Of coarse Aggreg	pata	THE OWNER OF STREET,	
and the second se			2	The Property of the Property o	
TESTING DATE:	13/01/2023	and the second	Station .	1 507+000 509+000	
TESTING DATE: LOCATION	13/07/2023 K.P (507+309)	10000 10000	Material granity	50774000 502+000 fill mintorfet 5360 or	

Weight of sample	2500	gin _
Weight of saturated surface dry sample (B)	2615	gim
Weight of saturated sample in water (C)	1531	9-
Weight of dry sample after heating (A)	2490	977
	Res	suffa:-
Bulk specific gravity = A / (B-C)	21247	
Bulk specific gravity (S.S.D) = B / (B-C)	2.412	1
Bulk specific gravity (5.0.0) Apparent specific gravity = A /(A-C)	2.596	1 1
Assistant specific gravity - rite	10.00525	9 1

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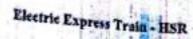
i

Lab. Specialist

Name :

Sign :







California Bearing Ratio TEST ASTM D1883

Company Name K.P. (507-300) EGC.CONTRACT EGC.Contract Edstrial fail material 1: 1 ett Resalts	Testing Date : Location :	-	17/7/2	923	ALC: NO	A state			C			10.05	4	0.044-0.000
BC-CONTRACT ECC (0 1) matrix matrix 1: Zest Results Compacting % for Model 1 </th <th>the second se</th> <th>-</th> <th>K.P (507</th> <th>+300)</th> <th>Courses</th> <th>Cade</th> <th></th> <th>-</th> <th>and in succession.</th> <th>-</th> <th>507</th> <th></th> <th>the second second</th> <th></th>	the second se	-	K.P (507	+300)	Courses	Cade		-	and in succession.	-	507		the second second	
(1) Set Results Comparties % for 56nd Set Results		1	EG-CONT	RACT	1	EGC(91	E.		-	-			And in case of the local division of the loc	
Socie Sec. 1 1 6665 W.cl. (m ¹) 118 1 6665 W.cl. (m ¹) 118 1 6665 W.cl. (m ¹) 118 1 6665 W.cl. (m ¹) 108 Wei WT. (gen) 608 Wei WT. (gen) 608 Wei WT. (gen) 608 Wei WT. (gen) 108 Brease Dansity (d/cm ²) 218 Adding Reading 1 108 Add Breasing (Ck2) 108 Lead Rossing (Ck2) 108 Base 108 Base 108 Bas	: Test Results			111		2013	1	(quant)	7	1	11:			
Machine J Machine	Compaction 5	6 for Mald		-	lane Bar		18		18	1 1		(internet)	No. of Line	d'inter
16.65 V C (cont 318 16.65 V C (con		Contraction of the		Mat		the second s	omporte	d Mold		-	-		NY I	1 1
Kócs W/ (un) NU Kócs W/, (un) NO Wei W/, (un) NO Bry Doning (g/(nk ¹)) Last Presser Doning (g/(nk ¹)) Last Bry Doning (g/(nk ¹)) Last Addition (last) No	Lines Victor	11)	of the local division of	1000	1000				5	THE R		-	State State	
Káczi BK7, 4 War KY7, (ga) Káczi Win WY7, (ga) Káczi Birr Bouniry (g/cm²) J.100 Companies %: H1 Birr Bouniry (g/cm²) J.100 Companies %: H1 Jacobi Karzi (g/cm²) J.100 Companies %: H1 Jacobi Karzi (g/cm²) J.100 Leed Moning (Ling) J.100 Jacobi Leo J.00 J.00 J.00 Jacobi Leo J.00 J.00 J.00 J.00 Jacobi Leo J.00 J.00 J.00 J.00 J.00 Jacobi Leo J.00 J.00 J.00 J.00 J.00 J.00 J.00 Jacobi Leo	Mass wer, ieur			1000				Company of	1 B	+ +	Territoria (A.S.)			-
Wer WT. (gm) 466 Wer Breasy (g/cm ²) 516 Bry Breasy (g/cm ²) 166 Presser Breasy (g/cm ²) 166 Bry Breasy (g/cm ²) 166 Comparison Station (g/cm ²) 166 Com	MALE WT. + WH WY	(em)	and the second second			the local division of	4 - 1 - L - A		1 6					0.10
Wet Breasy (g/cm ²) 1/6 Bry Bestry (g/cm ²) 1.64 Bry Bestry (g/cm ²)	Wirt WT. (gm)		-	Contract of the local division of the local	Contract in the local diversion of the local	ALC: NO DESCRIPTION	24 B.	Contraction in which the		-	1000	all provide the	1.41.4	0.45
Bry Desity (g/cm ²) L64() Pentity (g/cm ²) L64() Comparing % L64 Least Resenting (Kr) L64 L32 L55 L64 L55 L14 Comparing % L64 L52 L55 L64 L55 L55 L64 L55 L55 L64 L55 L55 L64 L55 L55<	Wei Density	(#/cm*)	2.006		and the second	Contraction of the local division of the loc	10	and the second		1004	Englis	angle pine	DE E	1124
$\frac{Predict Dumby (g/cm^{2}) 2.16}{Comparise 5.4 0.47}$ and Ding. Reading. I $\frac{Predict Dumby (g/cm^{2}) 2.16}{Last Statistics (56) 2.16 1.17 1.11 2.56 1.17 1.12 2.56 1.1$	firy Beasity	(s/en ¹)	1.647	-	and the local division of the local division	No. of Concession, Name	1.5		1	E	(will a	e Rotis W	1 1	6.001
Comparise % 0.0 anding Reading. Image: Comparise % 0.0 Image: Comparise % 0.0	Pressor Density	(a/cm3)	2.149	-	1	1000	1.0	11.5		1 1		1 24	1.1.1	5.4
$\frac{1}{100} \frac{1}{100} \frac{1}$	Compaction %					5160	17		1			1 11	1.0	1.17
$\frac{1}{100}$	and an Bandlan .		-		- 8				5	. 1	11	1.9		
Person anno (mai) 0.44 1.37 1.31 2.44 1.33 1.31 2.44 1.33 1.31 1.34 1.31 <th1.31< th=""> 1.31 1.31</th1.31<>	And INC. NEEDING				-	1	-	1	1	100	Ant	1 440	1	
$\frac{1}{100} \frac{1}{100} \frac{1}$	-	and includes the later	the second s	and the local division of the	-	And Distances of the local distances of the l	-	-	and in case of	in the second	-	the second data	122	
$\frac{1}{10}$		and the second second	STATISTICS IN CONTRACTOR		Construction of the local division of the lo	And in case of the local division of the		and the second second	24044-05	A DOCUMENTS	and the owner where	and the second second	1	
$\frac{10}{10}$		Lait	009	0.0	1.14	1 14 1	100	TE F		1.4	11	* N-	10.1	1.31
Featuration Land Standard Load Cont Med Comparties Damparties Cont (ment) (Ke) (Well (%)<	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4													
Penteration Land Standard Load Cont Mod Comparties Damparties Cont (som) (%n)		And a state of the		100		and the second se	1							7.09
(junt) (Kn) (Dot) (Sol) Corr Sol Sol 3.50 3.40 13.4 33.6% 34 35 38.6% 5.50 12.34 30.6 30.6% 37.5% 34 35 37.5%	14 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	And a state of the		100		and the second se	1							7,09
2.50 XM 13.4 14 14 16 17.5% 5.60 12.34 20.8 Aut 1	14 14 13 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	1.00			Pi	interation	(min)	ne -					1	
5.60 12.74 20.8 20.8 20.0 20.0 20.0 20.0 20.0 20.0	18 19 14 13 14 13 14 13 14 13 14 13 14 14 13 14 13 14 13 14 13 14 13 14 14 13 15 16 16 16 16 16 16 16 16 16 16	£.00	_	Standard Lo	Pi	enteration C8	(mm)	ed Steel - e	Separate		-	65		
J N	14 14 14 13 14 14 15 14 15 16 16 16 16 16 16 16 16 16 16	Loo Los (Kit	1	Strendard Lo (161	Pi	Ca (S	(mm) st =1	cd	Segurdar Segurdar		-	615	ية طالبيا 18,6%	
	14 14 14 13 14 14 15 14 15 14 15 16 16 16 16 16 16 16 16 16 16	1.00 Las (Kit 1.44		Streedard Lo Obt 13.4	Pi	Ca (S	(mm) st =1	cd	Segurdar Segurdar		-	615	ية طالبيا 18,6%	
	14 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 15 16 16 16 16 16 16 16 16 16 16	1.00 Las (Kit 1.44		Streedard Lo (761 12.4 50.8	NS NS Los p	anteration (S 15 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(mm) st =1	cd	Segurdar Segurdar		(N-) 28 0	es-	1, 20 % 38.6% 87.3%	
Name: Aindes labors And Name: Moliciphed Cl	14 14 14 13 14 13 14 13 14 13 14 13 14 13 15 16 10 10 10 10 10 10 10 10 10 10	1.00 Las (Kit 1.44		Streedweld Lo Obi 15.4 50.8 Name 1	PS	anteration (S 15 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(mm) st =1	cd	Segurdar Segurdar		(N-) 28 0	es-	1, 20 % 38.6% 87.3%	
start Name - Marine - Monte - Marine -	14 14 14 14 14 14 14 14 14 14	1.00 Las (Kit 1.44		Streedweld Lo Obi 15.4 50.8 Name 1	NS NS Los p	anteration (S 15 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(mm) st =1	cd	Segurdar Segurdar		(%) 26	es-	1, 20 % 38.6% 87.3%	
	14 14 14 14 14 14 14 14 14 14	1.00 Las (Kit 1.44		Streedweld Lo Obi 15.4 50.8 Name 1	NS NS Los p	anteration (S 15 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(mm) st =1	cd	Segurdar Segurdar		(%) 26	es-	1, 20 % 38.6% 87.3%	

Correction of Unit Welght and Wa	ter Content For	Solis Containing of	wersten Parificion	
Dry Unit Weight of Fine Fraction (Yea) (um/cm2)	ASTM D-4718		EQ-CONTRACT	
Optimum Moisture Content (O.M.C) (%)	7.60	Company Date of Sample	17/7/2023	
pocific Gravity of over Size Fruction (Gu)	2.298	Project	Express Train Project	
pecific Gravity of Water (Yw)	0.080	Bector	Foka - Matroull	
The second s				
Sample Data	UNIT	VALUE		
otal Weight of Wet Sample	sm dan de	55110	Mente al la series	
eight of Wet oversize Fraction (Retained 3/4)	gm	20345		1424.13
eight of Wet Fine Fraction (Passing 3/4)	gm	32765		2348.8
eight of Dry oversize Fraction (Moc)	gm	18921	1 - I - Alexandra and	
eight of Dry Fine Fraction (M _{DI})	grh	29816	الوائدة كامع جاف	
tal Weight of Dry Sample	em	48737		
ater Content of oversize Fraction (Wc)	*	0.08		
ater Content of Fine Fraction (Wr)	-	0.10		
rcent of oversize Fraction By Mass (Pd)	%	38.82	1 1 1	
rcent of Fine Fraction By Mass (Pr)	*	61.38	And the second second second	
alculations of Corrected Water for evenits Fra	attan in Their T	and the the state		
prrected Water for oversite fraction Reiner Frout		W _r P _r -	W.P. 8.97	
secific Gravity of over Size Fraction (G _M)	212			
ecific Gravity of Fine Fraction (Yer)	2,160	gm/cm		
pecific Gravity of Water (Yw)	0.950	- unplike	I Burkenthan	
alculations of Correctd Unit Dry Weight of th	a Terrat War - 12	to a state of the state of	nd oversize (ractions) (Yor):-	
		INDE	* GM - YWS	
orrected Dry Unit Weight of Total Maperial	40.014	(TOP T PC)	• (dM * YW * PF))	
Corrected Maximum Dry Density (M.D.D)	2.19		gm/cm*	
And a second sec	a and			
Corrected Optimum Moisture Content (0 JA.C)	ent.		*	
drote				

	Electric Express Train - HSR	
	From El Ala El Soldana City To El Alatnein - MATROUH	AN REAL STREET
DESCRIPTION CONTROL CARRY STREET, CONTROL OF	Section - 7 From FOKA To MARSA MATROUN	(R) (
teuse al SVSTIA C	From Station 504+908 To Station 568+177	

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	17-07-2023	coda	ZONE	507+000	509+000	
LOCATION	K.P (507+300)	FGC (92)	Material	fill m	atorial	
NAME COMPANY	EG-CONTRACT	Enc[as]	quantity	500	5000 m*	

1-visual inspection test

Cumulative Rotalned % Cumulative Paseing %

85.00

63.00

37.00

2-Gradient test

A-gradation of bulk materia	ls			TOTAL BAN	PLE WEIGHT	4445	0.00	gm		table classify
sleve alze	2	1.5	1	4/3	2/1	8/3	84	PASS		soli classify
Mass retained (g)	0.0	1370.0	6340.0	7050.0	3220.0	4230.0	\$823.D		CLASS	A-1-A
Cumulative Retained (g)	0.0	1370.0	7710.0	14760.0	17880,0	22210.0	28035.0	16445.0	PRO	2.16
Cumulative Retained %	0.0	3.1	17.3	33.2	40.4	49.9	63.0	1.00	WC	7.70
Cumulative Passing %	100.0	9.39	82.7	66.5	59.6	50,1	36.97		CBR	49.40
									CORR.PRO	2.21
									CORR WC	9.19
8-soft material gradation	5		Superior	WT.OF	sample	500	05.6	gm	-	1-
sleve size	10	40	200							
Cumulative RateIned (g)	75.00	185.80	315.00							

-General gradient									_	
sleve size(in)	2	1.5	1	3/4	1/2	3/8	84	# 10	# 40	# 200
aleve size(mm)	60.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	96,9	82.7	66.8	59.6	50.1	37.0	31.4	23.3	<u>l'inn</u>
		-		-				-		
				-			-	-		

	LIQUID LIMIT (LL)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.L)
ATTERBERG LIMTS		•	N.PI
Contractor	- Na	14	Consultant
Name	Ahmed Haleem		mohamed elsai
Sign	Hatm		mohamed elsai
	star	14	
/	11	- He	22-7-7
	6		

Electric Express Train - HSR

From El Aln El Sokhna City To El Alamein - MATROUH



a material services

Section - 7 From FOKA TO MARSA MATROUH

From Station 504+609 To Station 568+177

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S.	upresentation

MODIFIED PROCTOR TEST ASTM D1557

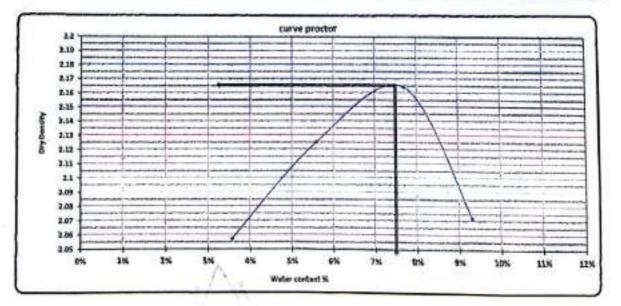
TESTING DATE:	18-07-2023	code	ZONE	507+000	
LOCATION	K.P (507+300)	Concession of the local division of the loca	Material		509+000
NAME COMPANY		EGC (92)	MANY 181	film	vterial
and some room	EG-CONTRACT		quantity	500) m ³

Weight of empty mold :	5622.0
Mold Volume:	2124.0

MAX Dry Density	2.16
Water content %	1.9%

trial as :	1	1	3		
Wit Of Mali + Wet Sail	11145.0		10573.0	10430	and managements
WY, WET SOIL	4535.0	4765.0	(350.0	4810.0	
Wt. Dentity	2.134	2.243	2331	2.165	1

Tare No.	5	3	1	13	H	- 19	21	23	Contraction of	1.
Tare wi.	54.13	55.72	85.88	\$3.21	56.51	56.25	-54.07	- 54.4		Vie a s
WI. Of wet soil & fare	158.0	152.0	158.0	250.0	250.2	150.5	150.3	150.1		ALL MORE ALL
W1. Of dry and & tare	\$46.70	146.92	14430	143.10	143.29	10.40	142.00	141.7	TO(TICT)	1000
WL Of water	3.3	3.2	\$.2	43	6.5	6.6	8.0	8.3		
WL Of dry snil	99.7	91.1	83.9	91,9	86.7	823	87.6	813	-	
Water content %	3.6%	3,5%	5.8%	\$3%	7.8%	7.6%	8.1%	9.5%		
AV.Water content %	3.	5%	5.	615	1.	795	5.	1%		
Dry Density	1	357	2/	125	1	164	1	172		





Consultant mohamed elsaiel

Abso	rbtion Of coarse Aggregate	
م سنة السنة المراجعيني المنتشاري الملدسي م سنة ١٩٩٩ (م حالم منصل ٢٧٥٢٨)	From Station Sol+508 To Station Sol+177	What is
	Section - 7 From FOKA To MARSA MATROLIN	- Par 67
	From El Ain El Soldina City To El Alameiro - MATROUN	AND
	Electric Express Train - HSR	

TESTING DATE:	18/07/2023	etos	Station	507+000	509+000
LOCATION	K.P (507+300)	-	Material	fii m	aterial
NAME COMPANY	EG-CONTRACT	EOC (02)	quantity	500	0 m ³

Weight of sample	2500	gm
Weight of saturated aurface dry sample (B)	2535	
Weight of saturated sample in water (C)	1493	gm
Weight of dry sample after heating (A)	2450	gm
	Re	sults:-
Bulk specific gravity = A / (B-C)	2.351	
Bulk specific gravity (S.S.D) = B / (B-C)	2.433	
Apparent specific gravity = A /(A-C)	2.560	
Absorption = (B-A)/A	3.469	94

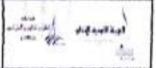
Lab. Specialist

Name :

Sign :

Engineer Nome: mohramed elsaig Sign: metsaig 22-7-2023 Consultant Engineer Lab. Engineer Sign t





California Bearing Ratio TEST ASTM D1883

Testing Date :	19/7/2023	Code	FROM STA :	507+600	509+000
Location :	K.P (507+300)	FORMAN	Material	fill m	aterial
Company Name	EG-CONTRACT	EGC(92)	quantity	500	90m²

t Test Results

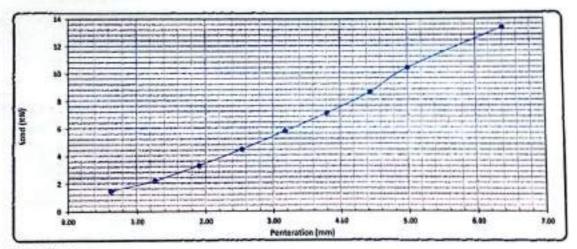
Compaction % for Mold	
Maid Na.	
MLM Vol.(cm ²)	2118
Mail WY. (gas	
Mail WT. + Wei WT. (ga)	-
Wei W7. (ps)	010
We Deaily (g/cm ³)	3.396
Day Density (p/cm ²)	3,34
Tractor Davidy (g/cm ²)	2.16
Comportan %	0.4

Masiture Ratio After Compact	ad Mold		
Tara Na	13		
Tare W.T. (gas)	53.33		
Tors WZ, +We WZ, tgad	159		
Tare WT. +Day WT. (pr)	103		
Water WT. (ged)	8.7		
Bey WT. (pa)	84.0		
Midstore Context %	1.5		

Swelling	
Mali Na	3
Den	two/geas
hand Thight (was)	- 4.00
Fout South (nat)	8.10
Dillomo	8.08
Bungin Bulght Land	125.9
Swolling Rath N.	8.00%

Loading Reading :

Periaratian (mai)	0.64	1.27	3,81	2.54	3.18	3.81	4.45	5.04	6.48
Losi Rinding (Kg)	156	241	310	414	654	758	804	1154.	8493
Loui (105)	14	22	3.2	4.4	8.7	8,0	8.6	38.4	13.3



Calculations :-

Pesteration	Loud	Standard Load CSR		Mold - Compating	Conjustes	CBR 95 است الم	
(aux)	(Ku)	(80)	18a (%) ((%)		
1.50	4.45	134	23.8%		54	HAN	
5.00	18.35	71.4	\$1.3%		98	48.476	

Lab. Cagines

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Lab. Specialist

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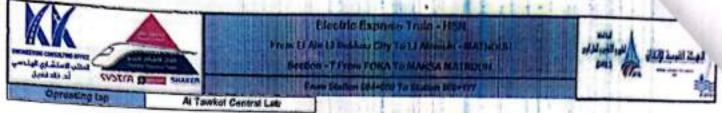
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Constant Engineer

Genestion of Unit Wolaht and W	ater Content For	Solls Containing or	versize Particles	8
and all and a second second second second	(ASTM D-4718			
long unit Weight of Fine Fraction (Ypr) (gm/cm ³)	2.160	Company	EG-CON	TRACT
Optimum Molsture Content (O.M.C) (%)	7.70	Date of Sample	18/7/2	-
specific Gravity of over Size Fraction (G _M)	2.350	Project	Express Train Project	
pacific Gravity of Water (Yw)	0.980	Sector	Foka - M	atrouh
And Alexandren and the statements		and Store in the second		
Sample Data	UNIT	VALUE		
otal Weight of Wet Sample	gm	44480		Constant States
Valght of Wat oversize Fraction (Retained 3/4)	gm	14760		
Veight of Wet Fine Fraction (Passing 3/4)	gm	29720		and shirt with a
Veight of Dry oversize Fraction (Mpc)	gm	13727	الوزة مثلو ماله المحمد	
Neight of Dry Fine Fraction (Mor)	gm	27045	، ذهم جال	الوازد
ratal Weight of Dry Sample	gm	40772	Light Mar	
Vater Content of oversize Fraction (Wg)	%	0.08		
Nater Content of Fine Fraction (W ₂)	×	0,10	A A A	Perter a
Percent of oversize Fraction By Mass (Pc)	%	33.67		
Percent of Fine Fraction by Mass (Pa)	. %	66.33	The second s	Ann Contractor (or
Calculations of Corrected Water for oversize Fr	action & Finer Fr	action (Wy) 2		
Corrected Water for oversize Fraction & Finer Frac	tian (Cul	W, P, + W	cPe	9.09
Specific Gravity of over Size Fraction (G _M)	2,35			
Specific Gravity of Fine Fraction (Ypr)	2,160	gm/cm ³	THE REAL	in report
Specific Gravity of Water (Yw)	0.980		and the second	
Calculations of Correctd Unit Dry Weight of th	Infrastens letor en	(curdined floor and	oversize fraction	ns) (Yar):=
Carcellations of conternal of the	vermentes.	I YDF * G		
Corrected Dry Unit Weight of Total Materia	(Yar)	(YDF * PC) + (5M * YW * PF))	2.21
a state of the second sec	2.21		gm/cm ³	
Corrected Maximum Dry Density (M.D.D) Corrected Optimum Molsture Content (O.M.C)	9.09		N.	

AHMED HALEEM

frate



PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	15-07-2023	6656	ZONE	507+000 509+000		
LOCATION	K.P (507+300)	1 Participant	Moterial 2	fill material		
NAME COMPANY	EG-CONTRACT		quantity			
I visual Inspection test	And a state of the state	1694 01 2	1.000	I S ALL REAL DRAW		
2-Gradient test						
				 A state of the sta		

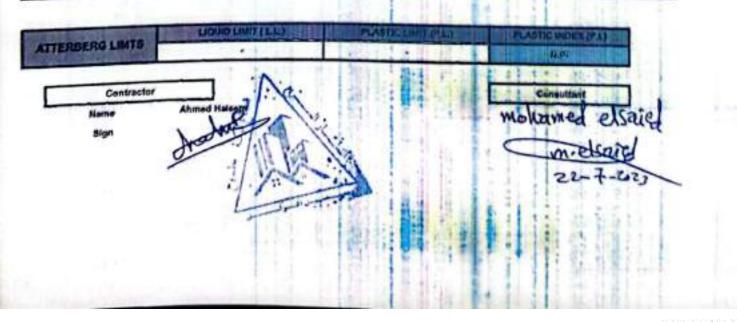
2-Gradient test

adation of bulk materials			TOTAL SAMPLE WERHT		48855.40		gm	144	table clossif	
sieve size	2	1.5	1	43	1 2/1	83	#4	PANE		adil classify
Mass retained (g)	8.5	2560.0	0.0063	50-03	21725	100/4	alles a		CLASS	A-1-A
Comulative Retained (g)	0.0	2680.0	11460.0	21100.0	6.01815	27856.0	32545,0	18515.0	PRO	2.15
Cumulative Retained %	0.0	-5.2	23.5	45.2	48.9	\$7.6	67.2		wc	8.60
Cumulative Passing %	163.3	24.5	72.5	6.63	21.1	43.0	32,77		CBR	59.20

the second s				and the second se	the second second	State and the state of the stat	1100
oft material aradation		naterial gradation		WT.O	f sample	502.00	gm
sieve size	10	40	200	TAST	1 died 1	1 1 1 1	1.
Comutative Ratained (g)	125.00	235.00	115.00	1.85	1	1.4.4.4.1.1	12.00
Cumulative Retained %	25.00	47.00	47.00	1221	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Cumulative Passing %	75.00	\$3,60	\$3.00	1.28-			1

C-General gradient	_					19		1		
sieve size(in)	2	1.5	1	3/4	1/2	3/8	44	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.05	0.425	0.075
Completive Passing %	100.0	94.8	76.5	56.8	42.83	42.0	32.8	24.6	17.4	Columnia (
				131	100			8 A	1.11	1 2
			1.1.1.1	Nig?				17.11	11.2	1
			1.1.1.1.1.1	1 4 4 4 1	18.1		S. March	2.00	121.24	

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2.10 3.30

8.1

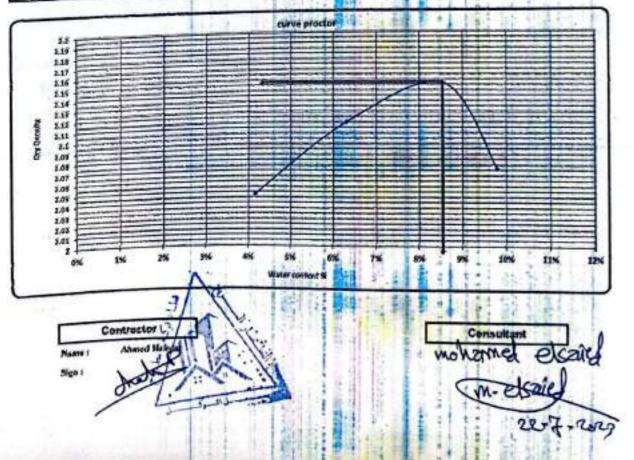
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and the second se	Contraction of the	Contraction of the local division of the loc	5.8	5.6	13	7.5	8.6	87		100
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CarrSeparate Asian Income

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Carr/Separate Alapa in pass?





California Bearing Ratio TEST ASTM D1883

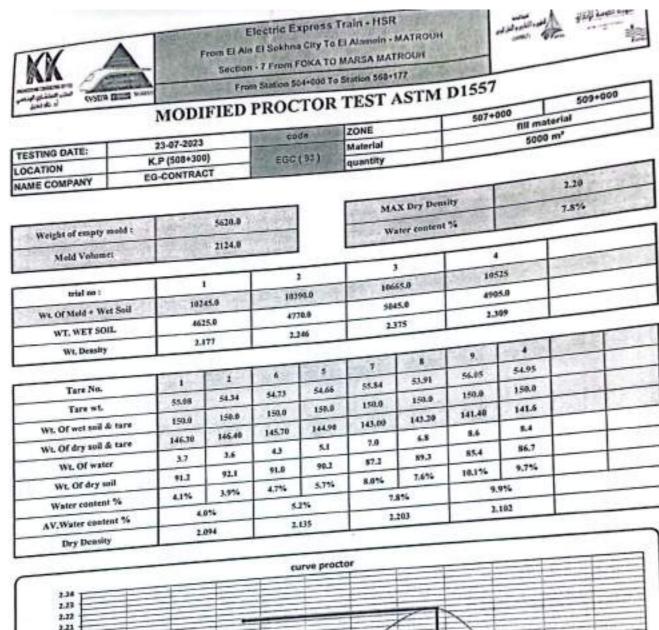
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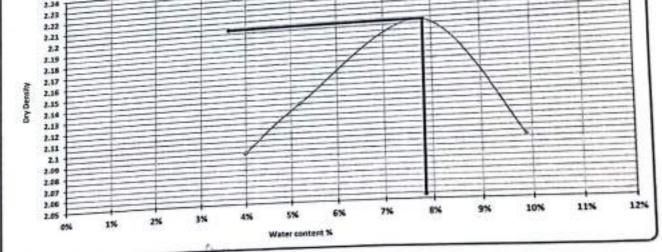
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sleve size	2	1.5	1	4/3	2/1	B/3	2214.0	1	CLASS	A-1-A
Mass retained (g)	0.0	4500.0	7500.0	11400.0	2570.0	2451.0	a the second	12405.0	PRO	2.20
Cumulative Retained (g)	0.0	4500.0	12000.0	23400.0	25970.0	28421.0	30635.0	-	WC	7.80
Cumulative Retained %	0.0	10.5	27.9	54.4	60.3	66.0	71.2	-	CBR	56.90
Cumulative Passing %	100.0	89.5	72.1	45.6	39.7	34.0	28.82		CORR.PRO	(2.27)
Companya Passing a			0						CORR.WC	(9.90)
			64				00	gm	- Southand	
3-soft material gradation		1	1	WT.OF	sample	500	.00	3.0		
sieve size	10	40	200					-		
Cumulative Retained (g)	60.00	160.00	300.00					-		
	12.00	32.00	60.00					-		
Cumulative Retained %	.68.00	68.00	40.00							
Cumulative Passing %	-00.00									
C-General gradient						200	#4	# 10	# 40	# 200
sleve size(in)	2	1.5	1	3/4	1/2	3/8	4.75	2.00	0.425	0.075
sleve size(mm)	50.0	37,5	25.0	19.0	12.5	9.5		25.4	19.6	11.53
Cumulative Passing %	100.0	89.5	72.1	45.6	39.7	34.0	28.8	20.4	10.0	
Cumulative Casaling is										

ATTERBERG LIMITS LIQUID LIMIT (L.L.) PLASTIC LIMIT (P.L.) PLASTIC INDEX (P.I.) N.Pi Consultant Name Abmod Haleem Sign Juliant Juliant





Contractor Ahmed Haleem Name : Sign :

1.1.1

mohamed elsaind mohamed elsaind modesaires 25-7-2023

KK Martine States of States		See	From Station Stateball T	WARLA KATROUK a Surian Scattin	and Andrew Andrew Red Andrew Mar and Andrew
svs اد ماد مناجل svs	Ab	sorbtion Of	coarse Aggreg	ate	507+000 509+000
			The address of the	Station	fill material
	23/07/2023	1. 1. 2. 1.	code	Material	5000 m*
TESTING DATE:	K.P (508+300)	EDC (93)	quantity	
LOCATION	EG-CONTRAC	T			
NAME COMPANY	1				
		2500	gm		
Weight of same	ple		gm		
Weight of saturated surface	dry sample (B)	2590			
Weight of saturated surray		1538	gm		
Weight of saturated samp	le in water (o)	0500	gm		
Weight of dry sample aft	er heating (A)	2500			
Weight of dry sample and		R	esults:-	1	
		2.376		1	
Bulk specific gravity	= A/(B-C)	2.462		1	
the second ty CS.C	5.07	2.599		1	
Bulk specific gravity (Apparent specific grav	ity = A /(A-C)	3.600	95		

Engineer Name: mohamed elsaved Sign: molsaved 25-7-2023 Consultant Engineer Lab, Engineer Akmed Halcem Name : Sign :

Lab. Specialist

Name :

Sign :



Electric Express Train - HSR

-----100

0.000

ing Ratio TEST ASTM D1883

	California I	Searing real	FROM STA :	507+000	509+000
Testing Date :	24/7/2023	Codo	Material	fill m 500	aterial Om ⁹
Location :	K.P (508+300)	EGC(93)	quantity		
Company Name	EG-CONTRACT				

.: Test Results

Compaction % for Mold	
Muld Ne.	1
Muld Vol.(cm ³)	2130
Mail WT. (gm)	\$308
Mold WT. + Wet WT. (gm)	14509
Wer WT. (p=)	507.9
Wet Density (g/cm3)	2,354
Dry Density (#/cm3)	3.187
Propier Density (g/cm ²)	2,399
Compaction %	\$2.4

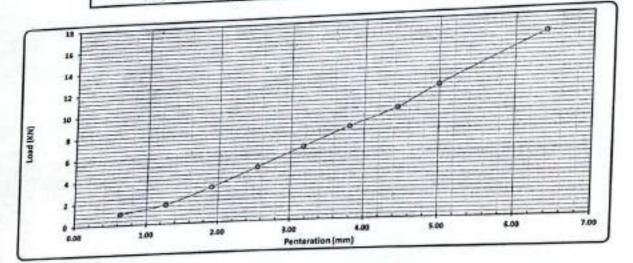
Mositure Ratio After Compa-	ted Mold
Mositure lease sto	11
Tare No.	
Tare B'T. (pro)	
Tare WT. +Wet WT. (pm)	194
Tare WT. +Dry WT. (grs)	143.3
Water WT. (pm)	67
Bry WT. (gm)	\$7.3
Molature Centrel %	7.5

Sweiting	
Mold No.	1
- 10	24/7/2023
Dere	20.00
Initial Height (most)	20.09
Final Height (mm)	
Difference	0.00
Sample Height (mm)	120.0
Senting Ratio %	0.00%

1.14

Loading Reading :

		100000				3.88	4.45	5.00	0.49
	0.64	1.17	1.31	1.54	3.18		1102		1825
Penteration (mm)		1.00	355	543	736	926	1102	1545	
Land Reading (Kg)	112	199	404				9.9	11.9	16.4
Land (KN)	1.0	1.7	3.2	4.9	6.6	8.3	1.100		



Calculations :-

		Standard Loud	COR	Muld-Competion	Computing	CBR
Featuration	Land		(%)	(%)	(%)	95 Auri 40 5
(mm)	(Ka)	(0)		1.47	4.004	34.9%
1.50	4.88	13.4	36,5%	- 99	95	
5.00	11.93	38.0	\$9.6%		1	56.9%

Nume: mohanied elsailed 25-7-2023 Signa

Votra De Guarra united di alla	En En	r Soils Containing	AS-BURNESSAR	CT
Votra De Garrection of Unit Weight and V	Water Content	31	EG-CONTRA	Chor
		Company	23/7/2023	
Dry Unit Weight of Fine Fraction (Yor) (gm/cm ³)	7,80	Date of Sample	Express Train	project
Optimum Moisture Content (O.M.C) (%)	2.376	Project	Foka - Matro	buh
Specific Gravity of over Size Fraction (G _N)	Carlos and and a second se	Sector	E CARL	- 前的学生
specific Gravity of Water (Yw)	0.980	A LANGER	1	S. C. TRACT
specific Gravity of the		VALUE	Carlo and a second second second	
L Data	UNIT	43040	1510 (3.30)	ALC: NO
Sample Data	gm	23400	18 12 14 18 18 18 18 18 18 18 18 18 18 18 18 18	CHO ALSA
otal Weight of Wet Sample	gm			
veight of Wet oversize Fraction (Retained 3/4)	gm	19640	وند خشن چالى	J
(eight of Wet Fine Fraction (Passing 3/4)	gm	21294	لوزن ناعم جاف	
eight of Dry oversize Fraction (Moc)	gm	17872	THE STREET STREET	Stor L
reight of Dry Fine Fraction (Mor)	gm	39166	NACES OF STREET	1943 (N 1974)
tal Weight of Dry Sample	22.6	0.10		
ater Content of oversize Fraction (W _d)	%	0.10	Children	1
ater Content or Oreston (We)	%	54,37		
ater Content of Fine Fraction (W _F)	%		Margaret - State - St	TO OF
rcent of oversize Fraction By Mass (Pc)	%	45.63	A CALL STORE AND A STORE AND	11-1-15
rcent of Fine Fraction By Mass (P _n)	action & Finer Fra	action (W _T) :-	State State	Constant Section
a concreted Water for orenand		W _F P _F + V	VcPc	9.89
Iculations of Corrected rrected Water for oversize Fraction & Finer Fract	tion (Cwl		And the second second	019205-7
rrected water te	2.376			
ecific Gravity of over Size Fraction (G _M)	2.200	gm/cm ³	and the second second	Serlin
ecific Gravity of Fine Fraction (Yor)				
ecific Gravity of Water (Y _w)	0.980	Li J Cura and	augering feastlong)	IN N.
ecific Gravity of Water (Y _w) Iculations of Correctd Unit Dry Weight of th	e Total Material	(combined tiner and	oversize machons)	TOTIC
culations of corrector and	20122-2-3	(YDF * 0	im * YW)	
rected Dry Unit Weight of Total Material	(Yar)	((YDF * PC) + (GM * YW * PF))	2.27
rected Dry Unit Weight	and the second sec			1
orrected Maximum Dry Density (M.D.D)	2.27	and a present	gm/cm ³	2013
prrected Maximum ery	9.89		%	
rected Optimum Moisture Content (O.M.C)				Contract ()
LAB Manager				
AHMED HALEEM				
	• V :			
X Driv	die			
the	1.			
·				
6.	1			

CarrScantas

	Electric Express Train - HSR	
HAM PORT	From El Ain El Sokhna City To El Alamein - MATROUH	A REAL PROPERTY AND
REAL PROPERTY IN SHARE	Section - 7 From FDKA To MARSA MATROUH	المينة المبدخ النظر
Opreating lap Al Tawkol C	From Station 504+000 To Station 568+177	1

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	22-07-2023				
LOCATION	the second se	code	ZONE	507+000	509+000
NAME CONDUNC	K.P (507+300)	A REAL PROPERTY AND	Material	400	
NAME COMPANY	EG-CONTRACT	EGC (94)			aterial
1-visual Inspection test		TANK AND DESCRIPTION	quantity	300	10 m*

2-Gradient test

tradation of bulk materia	<u>ds</u>		1	TOTAL SAM	PLE WEIGHT	4040	00.00	gm	Г	table classify
sleve size	2	1.5	1	4/3	2/1	8/3	#4	PASS	H	soll classify
Mass retained (g)	0.0	2000.0	6000.0	11800.0	2460.0	2206.0	2214.0	1000000	CLASS	A-1-A
Cumulative Retained (g)	0.0	2000.0	8000.0	19800.0	22280.0	24488.0	26700.0	13700.0	PRO	2.18
Cumulative Retained %	0.0	5.0	19.8	49.0	55.1	60.6	66.1		wc	7.70
Cumulative Passing %	100.0	95.0	80.2	51.0	44.9	39.4	33.91		CBR	74.20
	19		1-						CORR PRO	2.25

soft material gradation				WT.OF sample	500,00	gm	
sleve stze	10	40	200				1
Cumulative Retained (g)	60.00	155.00	305.00			-	1
Cumulative Retained %	12.00	31.00	61.00				1
Cumulative Passing %	88.00	69.00	39.00			-	1

C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	#4	# 10	# 40	# 200
sleve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	95.0	80.2	51.0	44.9	39.4	33.9	29.8	23.4	13.23
	-	-								
		-	-		-		-	-		-
and in the second										

	LIQUID LIMIT (LL)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.I.)
TTERBERG LIMTS	-		N.PI
Contractor	- Na		Consultant
Name	Ahmed Halpers		mohanned elsave
Sign J	alamt		
U			mielsale
	1		25-7-20
100			

9.30

84.14	
الالي المتذكر أو عام	E,
i was	- 9

From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA TO MARSA MATROUH

from Station 501+000 To Station 568+177

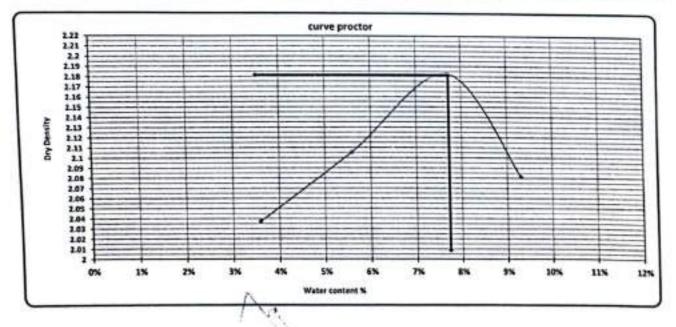


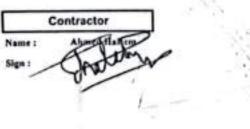
MODIFIED PROCTOR TEST ASTM D1557

TESTING DATE:	23-07-2023			1.	
LOCATION	K.P (507+300)	code	ZONE	507+000	
NAME COMPANY	EG-CONTRACT	EGC (94)	Material	507+000 509+00	
			quantity	3000 m*	

Weight of empty mold :	5620.0	100000	1		1	
Mold Volume:		1.	MAX Dry Dens	sley	2.18	
	2124,0		Water content	%	7.1%	
trial no :	1					
WL Of Mold + Wet Soil	10102.0	10342.0	3	4		
WT. WET SOIL	4482.0	AND DO THE	10613.0	10451	2 . S . S	
		4722.0	4993.0	48.32.0		
WL Deusity	2.110	2.223	2,351	2.275		

Tare No.	5	3	. 9	IJ	16	19	21	23	
Tare wt.	56.3	\$5.72	\$5.88	53.21	56.51	56.08	54.42	54,04	-
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	
Wt. Of dry soil & tare	146.70	146.80	144.80	145.10	143.20	143.40	142.00	141.7	-
Wt. Of water	3.3	3.2	5.2	4.9	6.8	6.6	8.0	8.3	-
Wt. Of dry soil	90.4	91.1	83.9	91.9	86.7	87.3	87.6	87.7	_
Water content %	3.7%	3.5%	5.8%	5.3%	7.8%	7.6%	9.1%	9.5%	_
AV.Water content %	3,	6%	5.	676	7.	796	9.	***	
Dry Density	1 2	037	1	105	2.	183	2/	181	





Consultant elsaid monamed m.elail 25-7-2023

HAGANTERING CONSIGNATION GENER	Electric Express Train - HSR From El Ain El Sokhaa City To El Alamoin - MATROLIN Section - 7 From FOKA To MARGA MATROLIN From Station 504+030 To Station 548+177	ala ala fattanis and
Abso	rbtion Of coarse Aggregate	

TESTING DATE:	23/07/2023				
LOCATION		code	Station	507+000	509+000
NAME COMPANY	K.P (507+300)	EGC (94)	Material	fill material	
	EG-CONTRACT	0.000	quantity	300	°m 0

Weight of sample	2500	gm
Weight of saturated surface dry sample (B)	2590	gm
Weight of saturated sample in water (C)	1535	gm
Weight of dry sample after heating (A)	2495	gm
	Re	sults:-
Bulk specific gravity = A / (B-C)	2.365	1
the second se		

Bulk specific gravity (S.S.D) = B / (B-C)	2.455	
Apparent specific gravity = A /(A-C)	2.599	
Absorption = (B-A)/A	3.808	5

Rame: mohamed elsaied sign: 25-7-2023 **Consultant Engineer** Lab. Engineer Ahmed Haleen Name i Sign r

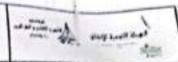
Lab. Specialist

Name :

Sign :

I





California Bearing Ratio TEST ASTM D1883

and an Desta		Code FROM STA :		507+000	509+000
esting Date :	24/7/2023	Code		60 m	aterial
ocation :	K.P (507+300)	500(94)	Material		
ompany Name	EG-CONTRACT	EGC(94)	quantity	300	0m'

Test Results

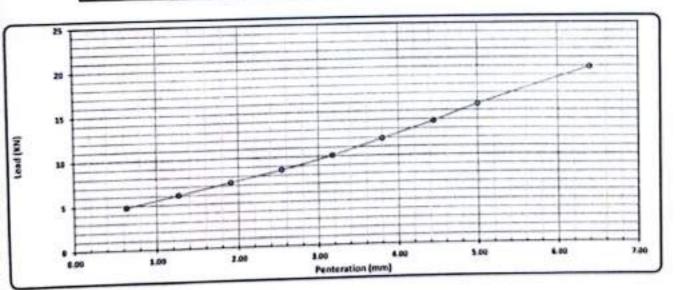
Compaction % for Mold			
Mold Na.	1		
Mold Vol.(cm ³)	2130		
Muld WT. (pm)	5310		
Mold WT. + Wei WT. (gm)	10325		
Wet WT. (gm)	5915		
Wet Donsity (g/cm ⁸)	2,354		
Dry Density (g/cm3)	2.189		
Proctor Density (g/cm3)	2,190		
Compaction %	500.4		

Mositure Ratio After Compact	ted Mold
Tare No.	10
Tare WT. (gm)	56
Tare WT. +Wei WT. (gm)	150
Tare WT. +Dey WT. (gm)	143.4
Water WT. (gm)	6.6
Dry WT. (gm)	87.4
Meisture Control %	7.6

Swelling	- 24
Muld Na.	1
Date	34/7/2023
Initial Height (sam)	10.00
Final Height (mm)	10.00
Difference	0.00
Sample Height (mm)	120.0
Swelling Ratio %	0.00%

Loading Reading :

Penteration (mm)	8.64	1.37	1.91	2.54	3.18	3.80	4.45	5.00	6.48
Load Reading (Kg)	534	674	814	954	1120	1322	1534	1744	2210
Lord (KN)	4.8	6.1	7.3	8.6	10.1	11.9	13.8	15.7	19.9



Calculations :-

			CBR	Muld-Comparison	Coputer	CBH
Pesteration	Last	Standard Land		(%)	(5)	-
(mm)	(864)	(Ib)	(%)	147	1.42	48.5%
2.59	8.59	13.4	10% A.	199		
5.00	15.70	21.0	78.4%	1		14.1%

Lab. Specialise

Name :

Signi

Dame i

Lab. Engineer

--- mohamed elsaig m. etsziel 25-7-2023

WINDOW DE	معند مراجع الكوم اللود المراجع التقوم			
Correction of Unit Weight and V	Water Content Fe	Soils Containing o	varsize Particin	# Bally and
The second se	THE REPORT OF A DESCRIPTION OF A DESCRIP	Company	EG-CON	Design of the second
ptimum Moisture Content (O.M.C) (%)	2.180	Date of Sample	23/7/2	2023
pecific Gravity of over Size Fraction (G _w)	7,70	Project	Express Tra	ain Project
pecific Gravity of Water (Yw)	2.365	Sector	Foka - M	and the second se
is of trater (Y _W)	0.980	Sector	Service States	
Sample Data		VALUE	enutro nase	E arrive total (
tal Weight of Wet Sample	UNIT	40400		
eight of Wet oversize Fraction (Retained 3/4)	gm	19800	The Store	1
eight of Wet Fine Fraction (Passing 3/4)	gm	20600		
eight of Dry oversize Fraction (Mpc)	gm	18018	ل شن جاف	الوژن ش
eight of Dry Fine Fraction (Mor)	gm	18952	عم جاف	الوژن نا
tal Weight of Dry Sample	gm	36970	1997011	705 A
ater Content of oversize Fraction (Wc)	%	0.10		
ater Content of Fine Fraction (Wy)	%	0.09	10-01-11-1	C. Stand
rcent of oversize Fraction By Mass (Pc)	%	48.74		
rcent of Fine Fraction By Mass (P _p)	%	51.26	Runs Carl	83.P
Iculations of Corrected Water for oversize F	Fraction & Finer F	raction (W _T) :-	And an Inne	Sal Kanada
rrected Water for oversize Fraction & Finer Fra	ction (C _w)	W _F P _F + V	N _c P _c	9.28
ecific Gravity of over Size Fraction (G _M)	2.365	CONTRACTOR OF A		1000
ecific Gravity of Fine Fraction (Ypr)	2.180	gm/cm ³	THE MANES	Reprint
ecific Gravity of Water (Yw)	0.980		and the second second	1202010014
alculations of Correctd Unit Dry Weight of t	he Total Materia	(combined finer and	l oversize fractiv	anel (V.).
		HER DECEMPENT OF BUILDEN ALL OF ADDRESS OF	GM * YW)	and to other
prrected Dry Unit Weight of Total Materia	al (Y _{nr})	Talles and the second states of the	(GM * YW * PF))	2.25
Corrected Maximum Dry Density (M.D.D)	2.25	1013	Talan Sector	100
Corrected Optimum Moisture Content (O.M.C)	9.28		gm/cm ³	ディー
LAB Manager			*	

opreating lap	And And And		From El	tion - 7 From	Apress Tra a City To El FOKA To MA	Alamein - MA	TROUH	1.00	uu	
and a tab	Al	Tawkol Cont	call at	From Station 5	04+000 To P	KSA MATRO	UH		لتروقان الألم 1991 -	July 2m
TROP		PA	PTICT		10 10 30	mon 568+177	8 1.34	SPAR.	8	E
TESTING DATE: LOCATION	-		ATTCLE	SIZE DIS	TRIBUT	ION OF a	011			_
NAME COMPANY		24-07-202	3				SOIL			
1-visual inspection test	F	K.P (508+3	00)	A COLORADOR	ode	ZONE		60		_
inspection test		G-CONTR/	ACT	EGO	(95)	Material		00	7+000	509+
2-Gradient test					and the second	quantity			500	aterial 0 m³
A-gradation of bulk materi sieve size	2	1.5	1		PLE WEIGHT	567	10.00	gm	1 1	
Mass retained (g)	0.0	2000.0	and an other	4/3	2/1	8/3	#4	PASS		table c
Cumulative Retained (g)	0.0	2000.0	6000.0	11245.0	4500.0	5450.0	4625.0	1000	CLASS	soil cl
Cumulative Retained %	0.0	3.5	8000.0	19245,0	23745.0	29195.0	33820.0	22890.0	PRO	A-1
Cumulative Passing %	100.0	95.5	14.1	33.9	41.9	51.5	59.6		WC	2
		90.0	85.9	66.1	58.1	48.5	40.36	-	CBR	1.
								-	CORR.PRO	52
3-soft material gradation		1		WT OF					CORR.WC	2.
sieve size	10	40	200	WT.OF	sample	500.00		gm		4.
Cumulative Retained (g)	75.00	165.00	320.00							
Cumulative Retained %	15.05	33,90	64.00							
Cumulative Passing %	85.00	87.00	36.00							
-General gradient										
sieve size(in)	2	1.5	1	3/4	400			-		
sieve size(mm)	50.0	37.5	25.0	19.0	1/2	3/8	#4	# 10	# 40	# 200
	100.0	96.5	85.9	66.1	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %		500 Kg	0010	0001	58.1	48.5	40.4	34.3	27.0	14:51
Cumulative Passing %								20000	atte	19.04

ATTERBERG LIMTS	LIQUID LIMIT (L.L.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.L)
ATTERBERGEMITE	*		N.Pi
Contractor	N.		Consultant

Ahmg Name Sign X

Consultant mohamed elsaña m.elsaña 29-7-2023



Electric Express Train - HSR

From El Aln El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA TO MARSA MATROUH

From Station 504+000 To Station 568+177

MODIFIED PROCTOR TEST ASTM D1557

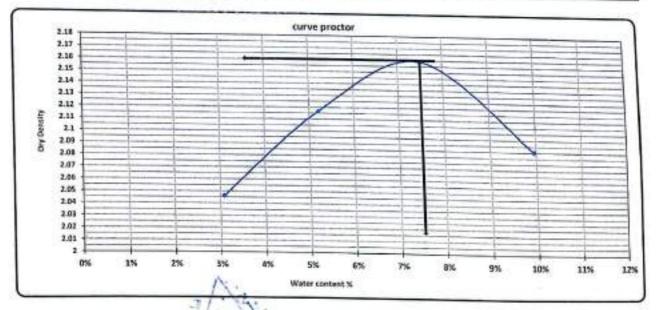
TESTING DATE:	25-07-2023				
LOCATION	K.P (508+300)	code	ZONE	507+000	509+000
NAME COMPANY	EG-CONTRACT	EGC (05)	Moterial	fill motorial	
	and occurrence		quantity	19994	0 m²

5620.0
2124.0

-	MAX Dry Density	1.16
	Water content %	7.5%

string as :	1	1			_
WL Of Mold + Wet Soil	10100.0	10350.0	19550.0	4	
WT. WET SOIL	4498.0	4730.0		18490	
Wt. Density	2.109	-	4930,8	4870.0	
		2.221	2.324	2.293	

Tare No.	16	17	18	19.	20	21	22	23	
Tare ut.	55.35	\$4.36	54.48	53.63	55.22	54.28	the second second		-
WL Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	54.22	56.62	
Wt. Of dry soil & tare	147.20	147.10	145.30	145.20	143.59	143.20	150.0	150.0	
Wt. Of water	2.8	2.9	4.7	4.5	6.5	6.8		141.1	
Wt. Of dry soil	91.9	92.7	50.8	93.6	88.3	8.9	8.3	8.9	
Water content %	3.8%	3.1%	5.2%	51%	7.4%	7.6%		84.5	-+-
AV.Water content %	3.	1%		1%		5%	9.4%	10.5%	
Dry Density	2	846	2	117		159	-	485	





Consultant mohamed elsaid 29-7-223

KK A	Electric Express Train - HSR From El Ain El Soktria City To El Alamain - MATROUH Section - 7 From FOKA To MARSA MATROUH	لوة تصديقه الفرائلي الم
المكتب الدستشاري الهندسي المكتب الدستشاري الهندسي المكتب المنتشاري الهندسي	From Station \$54+000 To Station 568+177	W

TESTING DATE:	25/07/2023	code	Station	507+000	509+000
LOCATION	K.P (508+300)	EGC (95)	Material	0.0000	aterial
NAME COMPANY	EG-CONTRACT	Eactory	quantity	500	0 m²

Weight of sample	2500	gm
Weight of saturated surface dry sample (B)	2530	gm
Weight of saturated sample in water (C)	1492	gim
Weight of dry sample after heating (A)	2450	gm
	Res	ults:-
Bulk specific gravity = A / (B-C)	2,300	
Bulk specific gravity (S.S.D) = B / (B-C)	2,437	_
Apparent specific gravity = A /(A-C)	2.557	
1 The second s	and the first owned	. 8.0

Absorption = (B-A)/A

Name: mohamed elsaid Consultant Engineer Lab. Engineer Lab. Specialist Name 1 Name : Y Sign : Sign : 29-7-2023

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CareSepter Asian in passi



Electric Express Train - HSR

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California Bearing Ratio TEST ASTM D1883

MA WY

testing Date :	27/7/2023				
Location :	K.P (508+300)	Code	FROM STA :	507+000	509+000
Company Name		EGC(95)	Material	fill m	aterial
State State State	EG-CONTRACT	1.001	quantity	50	00m*

.: Test Results

Teres.

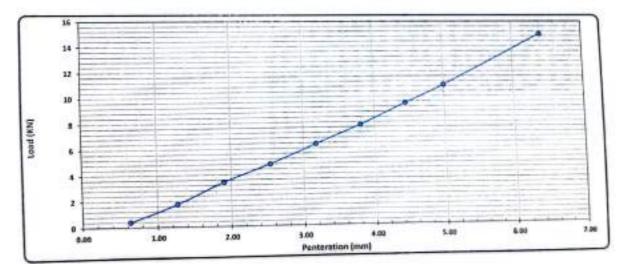
Compaction % for Mold	-
Mold Ne.	1
Mold Vol.(cm ³)	1138
Mald WT. (gm)	\$316
Maild WT. + Wet WT. (gm)	19225
Wei WT. (gm)	4915
Wet Density (g/cm ³)	2,388
Dry Dessity (g/cm ³)	2.148
Practar Density (g/cm^3)	2.360
Compaction %	99.5

Moviture Ratio After Compact	ted Mold
Tare Ne.	21
Tare WT. (ga)	51,33
Tare WT. +Wes WT. (gm)	118
Tare WT. +Dry WT. (pn)	143.2
Water WT. (gm)	- 64
Dry WT. (get)	11.9
Mointone Content %	7,4

Swelling	
Meld No.	1
Date	11/1/2013
forfall Height (aust)	15.04
Titul (Bright (mm))	15.00
Differmer	0.09
Sample Height (mm)	128.8
Secting Rate %	0.00%

Loading Reading :

Penteration (mm)	3.64	1.27	1,91	2.54	3.18	3,88	4.45	5.05	6.48
Load Reading (Kg)	42	195.	382	532	392	165	1053	un	1663
Load (KN)	8.4	1.8	3.4	4.3	6.5	7,8	1.5	88.9	15.0



Calculations :=

		Standard Loui	CBR	Mold - Compution	Comparison	EBR
Penterstian	Load	Standard Long		(5)	6763	-
(mm)	()(#)	(10)	(%)	1.67		14.1%
2.50	4.79	13.4	35,9%		95	
		20.0	54.4%		16.0	52.8%
5.05	10.50		100 C C C C C C C C C C C C C C C C C C			

moland elsait Lab. Engineer Lab. Specialist Name 1 m. elsaie Name 1 Sign1 29-7-22

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Correction of Unit Weight and Wa	ter Content For	Soils Containing ov	ersize Particle		APTINA -	
	(ASTM D-4718	1		-		
y Unit Weight of Fine Fraction (Y _{DF}) (gm/cm ³)	2.160	Company	EG-CONTRACT			
ptimum Moisture Content (O.M.C) (%)	7.50	Date of Sample	27/7/2023			
pecific Gravity of over Size Fraction (G _M)	2.360	Project	Express Train Project		ct	
pecific Gravity of Water (Y _w)	0.980	Sector	Foka - Matrouh			
Sample Data	LIAUT	WALLE	-	-		
otal Weight of Wet Sample	UNIT	VALUE 56710			-	
Veight of Wet oversize Fraction (Retained 3/4)	gm	19245			-	
Veight of Wet Fine Fraction (Passing 3/4)	gm	37465		-		
Weight of Dry oversize Fraction (Mpc)	gm	17705	ر جالی	الوزن غشن		
Weight of Dry Fine Fraction (Mpc)	gm	34468	الوژن ناعم جاف		_	
Total Weight of Dry Sample	gm	52173		T		
Water Content of oversize Fraction (W _c)	%	0.09	-	-		
Water Content of Fine Fraction (W ₄)	N	0.09				
Percent of oversize Fraction By Mass (Pc)	%	33.94		-		
Percent of Fine Fraction By Mass (Pr)	%	66.06				
Calculations of Corrected Water for oversize	Fraction & Finer	Fraction (W _T) :-	1000			
Corrected Water for oversize Fraction & Finer Fra		W _F P _F + W _C P _C		8.70		
	2,360			1		
Specific Gravity of over Size Fraction (G _M)	2.160	gm/cm ³			1	
Specific Gravity of Fine Fraction (Yor)	0.980					
Specific Gravity of Water (Y _w) Calculations of Correctd Unit Dry Weight of		rial (combined finer a	nd oversize fra	actions) (Y DT):-	
Calculations of Correctd Unit Dry Weight of		(YDF	* GM * YW)		Contraction of the	
Corrected Dry Unit Weight of Total Mater	rial (Ynr)	((YDF * PC) + (GM * YW * F	PF))	2.21	
the state of the s	2.21		gm/cm ³			
Corrected Maximum Dry Density (M.D.D) Corrected Optimum Moisture Content (D.M.C)		8.70		%		

5

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friend when	svotin n
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Electric Express Train - HSR

From El Aln El Sokhna City To El Alamain - MATROUH

Section - 7 From FOKA To MARSA MATROUH

From Station 504+000 To Station \$48+177 Al Tawkol Central Lab

and and and and

PARTICLE SIZE DISTRIBUTION OF SOIL

	25-07-2023	and the			
CATION	K.P (507+300)	Code	ZONE	507+000	100.000
ME COMPANY	EG-CONTRACT	EGC (96)	Material		509+000 atorial
sual inspection test		and a state of the	quantity		0 m ²

test treature

redation of bulk mater	1	-		TOTAL SAN	PLE WEIGHT	504	33.00	gm		table classify
	2	1.5	1	4/3	2/1	8/3	#4	PASS		soil classify
Mass retained (g)	0.0	2500.0	3500.0	11040.0	4632.0	5321.0	4865.0		CLASS	
Cumulative Retained (g)	e,0	2500.0	8000.0	19040.0	23672.0	28993.0	33858.0	16575.0	PRO	A-1-A 2.17
Comulative Retained %	0.0	5.0	15.9	37.6	46.9	57.5	67.1	10373.0	WC	7.70
Cumulative Passing %	100.0	95.0	84,1	62.2	52,1	42.5	32.87		CBR	00.00
				-11				-	CORR PRO	2.22
									CORR. INC	8.70
t material gradation		1	- 7	WT.OF	sample	500	.00	gm		
	10	40	200							
sieve size	10									

Cumulative Retained %	15.00	33.00	64.00	1						
Cumulative Passing %	55.00	67.00	36.00							
ieneral gradient		1							A	
sieve size(in)	2	1.5	1	3/4	1/2	3/8	#4	# 10	8 40	
sleve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4,75	2.00	8.425	Γ

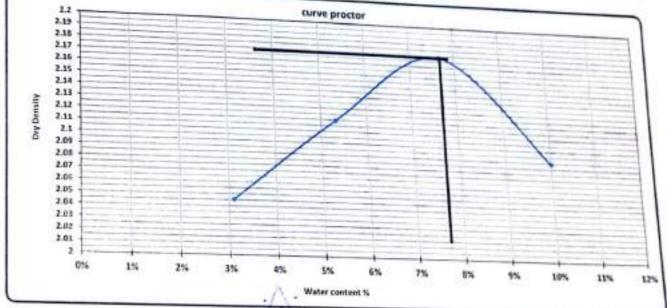
sleve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	8.425	0.075
Cumulative Passing %	100 J	0.50	84.1	62.2	53.1	42.5	32.9	27.9	22.0	13.82
								-		
								-		

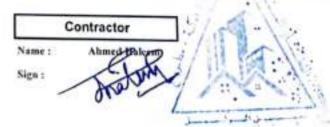
us of the second se	LIQUID LIMIT (LL.)	PLASTIC LIMIT (P.L.)	PLASTIC INDEX (P.1.)
TERBERG LIMTS	4	*2	N.Pi
Contractor	~		Consultant
Name	Ahmed Halgern		mohamed e
Sign	A COLORA		me
			29

12/3

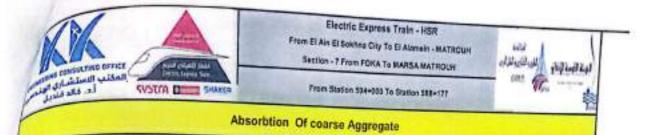
200

And A SUSTIN		Have	From	m Station St	OKA TO	El Alamain - MARSA MA	TROUM			4	í
		MODI	FIED	PROC	041009 To	TEST	177	_	100	19	Anitid
TESTING DATE:	1	6-07.2033		· not	TOR	TEST	Acres				-
OCATION	К.	P (507+300		10	-		asim	D155	7	_	10
AME COMPANY	EG	CONTRA	1					the second se			
			-1	100	(96)	Motorial		\$674	050	509	444
					-	quantity			fill may	terlal.	909
Weight of empty m	old :		11000						5650	1017	
Mold Volume:			5620,0	1000			_				-
			2124.0			MA	X Dry Den	tity			_
trial no :	-			-		Wa	iter content	*		1.17	
WL OF Mold + Wet		1							1	7.7%	
		101	0.0	1		3					
WT, WET SOIL		448	0.0	1035	100	Tase	0.0		_		
WL Drusity		2.1		473	<u>ûn</u>	497	1.0	364	-	1300	
				1.2	27	2,3		697	_		
Tare No.		5				-	-	1.2	93		
Tare wt.			3	6	9	1	14				
Wt. Of wet soil &	lare	56.44	9.9	56.55	55.21	55.31	56.32	15	16		
Wt. Of dry soil &	tare	150.0	150.0	150.0	159.6	150.0	150.0	54.23	57.33		
Wt. Of water		147.20	347.10	145.30	145.20	143.40	143.20	150.0	158,0		
Wt. Of dry so	S	2.8	2.9	4.7	4.8	6.6	143.20	141.50	10.1		
Water content		90.8	92.5	\$8.8	90.0	88.1	56.9	8.2	1.9		
AV.Water conte	100	3.1%	3.1%	5.3%	\$3%	7.5%	7.8%	87.6	11.1		
	- ALC: 97	3.	1%	5.	3%	-	100 C 100 C 100	9.4%	18,4%		
Dry Density 2.046		1	115	2,2%		10.0%					





Consultant mohamed elsaie melsai 29-7-2023



TESTING DATE:	26/07/2023	code	Station	507+000	509+000	
LOCATION	K.P (507+300)		Material	fill material		
NAME COMPANY	EG-CONTRACT	EGC (96)	quantity	500) m'	

3.484

Weight of sample	2500	gm
Weight of saturated surface dry sample (B)	2525	gm
Weight of saturated sample in water (C)	1490	gm
Weight of dry sample after heating (A)	2440	gm
	Res	sults:-
Bulk spacific gravity = A / (B-C)	2.357	
Bulk specific gravity (S.S.D) = B / (B-C)	2.440	
Apparent specific gravity = A /(A-C)	2.568	
Abharan at	9.49.4	144

Absorption = (B-A)/A

sign: 29-7-2023 **Consultant Engineer** Lab. Engineer Ah Name I Sign :

Lab. Specialist

Name :

Sign :



Electric Express Train - HSR



California Bearing Ratio TEST ASTM D1883

	27/7/2023	Code	A CONTRACTOR OF A CONTRACTOR OFTA CONT		
EG-CONTRA	W D (PAR. AAA)	Code	FROM STA :	507+000	589+606
	R.P (507+300)	FORMAN	Material	60.00	stadal
	EG-CONTRACT	EGC(96)		fill material	
Name		-	quantity	591	Hire*

Inst Results

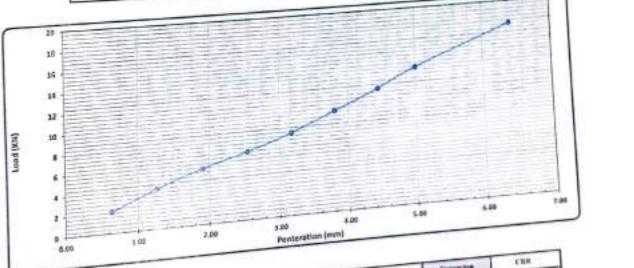
Compaction % for Mold	1
Mald No.	-
Muld VaL(cm ³)	2215
Mold WT. (gm)	5176
Mald WT. + Wet WT. (gm)	10333
Wei WT. (gm)	\$162
Wet Dunisty (g/cm ³)	7.330
Dry Density (g/cm ²)	2.167
Prostar Density (g/cm ³)	2,171
Compaction %	99,9

Mositure Ratio After Compac	ted Mold
Tareña.	H
Tare WT. (gs)	N.21
Tate WT, 4Wei WT. (go)	150
Tare WT. +Dvy WT. (get)	30
Water WT. (gm)	2.8
Dry WT. (gm)	92.8
Maisture Contont %	7,6

Southing	
West No.	1
Date	1111040
Jacust Harges (mith)	38.99
Pinal Bright (mint)	38.88
Different	1.00
Sample Bogitt (mm)	\$78.0
Sealing Ratio %	8.00%

Logding Reading :

ng;				_			4.05	6.68	6.48
	0.64	1.27	1.91	2.54	3.15	3.50		-	1 MA
Penteration (mm)	8.04			754	910	1133	1334	1944	1996
Land Reading (Kg)	234	442	634			10.1	32.0	12.0	17.7
Lord (KN)	2.8	4.0	8.5	6.5	0	10.1			





Correction of Unit Weight and	(A31M D-4/1	8)	ersize Particles	
weight of Fine Fraction (Yor) (gm/cm	3) 2.170	Company	EG-CONTRAC	т
Content Content Content	7.70	Date of Sample	27/7/2023	
Moisture Gravity of over Size Fraction (G _N)	2.357	Project	Express Train P	
Specific Gravity of Water (Yw)	0.980	Sector	Foka - Matro	uh
specific Glarita		Sal I - I and		
Sample Data	UNIT	VALUE	And the second s	
Total Weight of Wet Sample	gm	51430		15
Weight of Wet oversize Fraction (Retained 3/4)	gm	19040		25
Weight of Wet Fine Fraction (Passing 3/4)	to Wet over state of Wet over			
		17517	ان حشن جاف	
Weight of Dry oversize Fraction (M _{DC})			ين 2 م جال ا	-
Weight of Dry Fine Fraction (M _{DF})	gm	47316		
Total Weight of Dry Sample	%	0.09	T	
Water Content of oversize Fraction (W _C)	*	0.09		
Water Content of Fine Fraction (W _F)	36	37.02	T	
Percent of oversize Fraction By Mass (P _c)	%	62.98		
Percent of Fine Fraction By Mass (P _F)	Function & Finel	Fraction (WT) :-		
Percent of Fine Fraction by Mass (F) Calculations of Corrected Water for oversiz	e Fraction a tal	W _F P _F +	WcPc	8.70
Corrected Water for oversize Fraction & Finer F	raction (Cite)		T	
Specific Gravity of over Size Fraction (G _M)	2.357	1		
Specific Gravity of over State	2.170	gm/cm ¹	-	
Specific Gravity of Fine Fraction (Ypr)	0.980		t marking fractio	ons) (Yat):-
Specific Gravity of Water (Y _w) Specific Gravity of Water (Y _w) Calculations of Correctd Unit Dry Weight of	of the Total Mate	rial (combined finer a	and oversize machine	
Calculations of Correctd Unit Dry 110a		(YDF	GM YW)	2.22
Corrected Dry Unit Weight of Total Mat	erial (Yor)	((YDF * PC) + (GM * YW * PF))	
Corrected Dry Onic Weat	2.3	22	gm/cm ³	
			96	
	and the second se	70		
Corrected Maximum Dry Density (M.D.D)	0.			
Corrected Maximum Dry Density (M.D.D) Corrected Optimum Moisture Content (D.M.C)	-			
Corrected Maximum Dry Density (M.D.D)				

14.41

KK		-	Sect	Ain El Sokhr Son - 7 From	FÖKA TO MA	Alamein - MJ IRSA MATRO	NUH		uu Miladikha pass	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Contraction Contraction Contraction	A DESI SHU			From Station 1	104+000 To St	ation 568+177		Per la		
Opreating tap	A	J Tawkol Cent	ral Lab		-7800 251.051.2					
		PAI	RTICLE	SIZE DIS	TRIBUT	ION OF 2	SOIL			
	_	26-07-202		-	ode	ZONE		50	7+000	509+000
TESTING DATE: LOCATION	-	K.P (508+3)	P C C	CONTRACTOR OF	ALC: NOT	Material				aterial
NAME COMPANY	-	EG-CONTR/		11.15.19	11274	quantity			500	⁴ m 01
1-visual inspection test				dine a set i		200				
And and a second second										
2-Gradient test									- T	
-gradation of bulk mate	rials		1	TOTAL BAN	PLE WEIGHT	441	70.00	gm		table classify
sleve size	2	1.5	1	4/3	2/1	8/3	#4	PASS	-	soil classify
	-	2000.0	6000.0	9466.0	3112.0	4537,0	4403.0		CLASS	A-1-A
Mass retained (g)	0.0		0.000	17661.0	20780.0	25317.0	29720.0	14450.0	PRO	2.17
Cumulative Retained (g)	0.0	2000.6		40.0	47.0	\$7.3	67.3		WC	6.50
Cumulative Rotained %	0,0	4.0	48.1	10000		42.7	32.71		CBR	58,90
Cumulative Passing %	100.0	88.5	61,8	98.0	53.6	Tail	Canto -	-	CONH PRO	2.22
									DOWN RINCO	8.23
				WT.OF	sample	500	.00	gm		
oft material gradation		-		WILOW	adright					
sleve size	10	40	200		-					
Cumulative Rotained (g)	55.00	140.05	280.00					-		
Comutative Retained %	11.00	28.00	56.00							
Cumulative Passing %	89,05	72.09	44.00			-				
Compare to the C										
eneral gradient					15	3/8	8.4	# 10	# 40	# 200
sieve size(in)	2	1.5	1	3/4	1/2		4.75	2.00	0.425	0.075
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5		29.1	23.6	4418
	100.0	95.5	81.9	60.0	53.0	42.7	32.7	44.1		
umulative Passing %	10010			S				-	-	
-		-						-	-	
H									-	
1.1	-									
							21.45	IC INDEX	(P.L)	
	110/0	D UMIT (LL	J	PLAS	TIC LIMIT (F	·L.)	PLAS			
	LIGO		-					N.PI		

Contractor Name Sign

TTERBERG LIMTS

Consultant elsaig M amed

Electric Express Train - HSR

From El Aln El Sokhna City To El Alamein - MATROUH

Section - 7 From FOKA TO MARSA MATROUH

From Station 504+000 To Station 568+177



MODIFIED PROCTOR TEST ASTM D1557

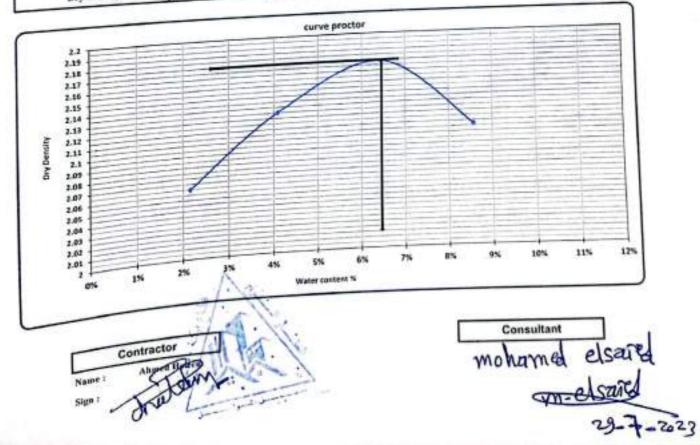
TESTING DATE:	27-07-2023				
LOCATION	27-07-2023	code	ZONE	507+000	509+000
the second s	K.P (508+300)	Transfer Street, or other	Material	fill material	
NAME COMPANY	EG-CONTRACT	EGC (97)	- over tall	the end	ner ian
	CO-OOITINAGT	Contraction in the	quantity	5000 m*	

Weight of empty mold :	5620.0
Mold Volume:	2124.0

MAX Dry Demity	2.17
Water content %	6.5%

trial no :	1	1	3	4	
Wt. Of Mold + Wet Soil	10100.0	10330.0	10535.0	18490	
WT, WET SOIL	4488.0	4730.8	4915.0	4570.0	
Wt. Density	2,109	2.218	2,314	2.295	

Tare No.	1	2	3	4	5	6	7	9		
Tare wt.	55.21	55.36	35.21	54.31	56.21	57.54	58.65	57.46		
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0	150.0	158.0		
	145.00	145,00	145.29	146.30	144.20	\$44.50	142.50	143.0		
WL Of dry soil & tare	2.0	2.0	3.8	3.7	5.8	3.5	7.5	7.0		
Wr. Of water		92.6	91.0	92,1	\$8.0	\$7.0	83.9	\$5.5		
Wt. Of dry soil	92,8	1.5.6	4.2%	4.8%	6.075	6.3%	8.9%	8.2%	-	
Water content %	2.2%	2.2%	-	1%		576	8.4	26		
AV.Water content %	13	256				174	2.1	112		
Dry Density	2.0	165	2.	138	-				_	_



	Electric Express Train - HSR	
	From El Ain El Bokhna City To El Alamoin - NATROUH	
AGANTERING CONSULTING DEFICE	Section - 7 From FOKA Te MARSA MATROUH	الها البيد المالي المالية الدارة
ATTACK THE ALL OF ALL O	From Station 534+000 To Station 568+177	

Absorbtion Of coarse Aggregate

TESTING DATE:	an anna an			and the second s	
	27/07/2023	code	Station	507+000	509+000
LOCATION	K.P (508+300)		Material	fil m	aterial
NAME COMPANY	EG-CONTRACT	EGC (97)	quantity	11.0 - 200,09	0 m ¹

Weight of sample	2500	gm
Weight of saturated surface dry sample (B)	2610	gm
Weight of saturated sample in water (C)	1550	gm
Weight of dry sample after heating (A)	2490	gm

	1100	Million .
Bulk specific gravity = A / (B-C)	2,349	
Bulk specific gravity (S.S.D) = B / (B-C)	2.462	
Apparent specific gravity = A /(A-C)	2.649	
Absorption = (B-A)/A	4.819	16

Name: Mohamed elszied sign: <u>m-elszied</u> 2g-7-2023 **Consultant Engineer** Lab. Engineer Name : Sign : 30

Lab. Specialist

Name :

Sign :





	Code	FROM STA :	507+000	509+000	
29/7/2023	Loue	and the second se	filmsterial		
K.P (508+300)	EGC(97)	Material			
FG-CONTRACT	EGO(SI)	quantity	Secon		
	29/7/2023 K.P (508+300) EG-CONTRACT	K.P (508+300) EGC(97)	K.P (508+300) EGC(97) Material	29/7/2023 Code PROMISIAN fill ma K.P (508+300) EGC(97) Material fill ma	

.: Test Results

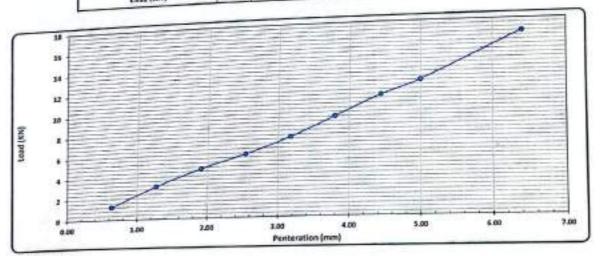
Compaction % for Mold	÷
Ifuid No.	3
Mult Vol.(cm ²)	2168
Muld WT. (gw)	4858
Maid WT. + Wet WT. (gm)	8452
Wer WT. (gw)	5003
Wer Density (g/cm ²)	2,346
Dry Beauty (g/cm ³)	2,372
Practor Density (g/cm ²)	2.170
Compaction %	198.1

Mositure Ratio After Campa	cted Mole
Tare No.	11
Tare WT. (pro)	\$3.17
Tare WT. +Wet WT. (ps)	140
Tare WT. +Dry WT. (gm)	344
Water WE. (ges)	6.8
Dry WT-(gm)	10.8
Maintary Control 54	6.6

Swelling	
Mold No.	1
Dave	29/7/0603
Terial Weight (men)	30.00
Find Height (ment)	33.00
Different	4.00
Sample Height (mm)	128.0
Sealing Satis %	0.0074

Loading Reading :

Contraction of the second s		-	1	1.0.00	3.15	3.88	4.45	5.00	0.47
the second second	8.64	1.27	.1/91	2.54	1.18				1866
Penleration (mm)		342	514	654	810	1077	1234	1380	1909
Load Reading (Kg)	134	14.	and the second			9.2	11.1	12.4	16.8
1 4 4 1 (20)	1.2	3.1	4.6	59	2.4	7.6			



Calculations :-

Penteration	Lord	Standard Lord	CER	Mold - Compaction	Compaction	СВЯ
(mm)	(5.8)	(fb)	(15)	(%)	(%)	يا هد نسبة 93
2.59	5.89	13.4	44.1%			41.8%
5.89	12.42	28.0	62.0%	156	95	58,9%

Lak. Specialist	Lab. Engineer		Consultant Engineer	1
Name +	Name: Atmentinger	Maner	mohamed	elsais
aga :	- Tradant	M. W	Cm.el	saie
	0.1	N. S. J.		29-7-20

2.22		gm/cm ³		
	((YDF * PC) + (GN			
I (Yar)	(YDF * GM	• YW)	2.22	
he Total Material (o	ombined finer and ov	ersize fractions)	(Y ₀₇):-	
0.980				
2.170	gm/cm ³			
2.349				
ction (C _W)	W _F P _F + W _C	Pc	8.23	
Fraction & Finer Fra	ction (W _T) :-	The second	Caller and	
N	59.74			
16	40.26			
%	0.09			
96	0.08			
gm	40813			
gm	24382	الوزن للموجاف		
gm	16431	رن خشن جاف	الوان ا	
gm	26502			
gm	17668			
gm	44170			
UNIT	VALUE	and the second second	-	
	1	rona + mat	rouh	
0.980			and the second second	
2.349			10	
6.50			0.01400	
1	<u>ei</u>			
(ASTM D.474	or Solls Containing o	versize Particles	Kan	
Wator Canton a	Contraction of the second s			
	1 2.170 6.50 2.349 0.980 0.980 UNIT gm gm gm	Image: state	1 2.170 Company EG-CONT 6.50 Date of Sample 29/7/20 2.349 Project Express Train 0.980 Sector Foka - Mat UNIT VALUE Foka - Mat gm 44170 1 gm 17668 1 gm 16502 1 gm 16631 1 gm 26502 1 gm 26502 1 gm 26502 1 gm 26502 1 gm 24382 1 gm 40813 1 % 0.09 1 % 0.09 1 % 59.74 1 Fraction & Finer Fraction (WT) :- 2.349 1 2.349 1 1 2.170 gm/cm ³ 1 0.980 1 1 he Total Material (combined finer and oversize fractions) (YDF * PC) + (GM * YW)	

CON LAN		the second second								
		and the second		Electric	Cepress Tr	alte - Million		_		
antig states and the state	ELSE C		Trem El	Contraction of the local division of the loc	34 C.m. V. A.		Thomas	1.88.0		the second se
Operating lan	and the second se	Contraction of the local division of the loc							dia the	-
		Tankai Cent	ni Lab	The Party number of the Pa		stars adda and		-	-	the shift had it as
ESTING DATE:		PA	RTICLE	SIZE DIS						30
	_	24-07-202	2	and this	TRIBUT	ION OF S	OIL		11	
AME COMPANY	-	K.P (508+3	001		ode	ZONE		_		
mapection test		G-CONTR/	ACT	EGO	E.98)	Material		30	7+308	100+000
Gradiant test					-	quantity		-	fill (#	1 advectad
							100	_	30	90 m²
tredetion of bulk meter	lah									
sieve size		_	1	TOTAL SAM	PLE REGIST					
Moss retained (g)	2	1.5	5	47	-	567	18.00	ani.	1 1	table cleasify
Cumulative Retained (p)	0,0	2006.0	6000.0	11245.8	2/1	83		PASS		and the second se
Cumulative Retained %	0.0	2005.5	8005.0	19241.0	4500.8	5458.0	4525.0		CLASS	A-1-A
	0.0	3.5	16.1	33.8	23745.0	29193.2	12828.0	2093h.0	7980	2.18
									the second se	4
Comutative Passing S	105.6	95.5	61.3	RE 1		11.1	19.4		WC	7.58
Cumulative Pessing %	8,001	96.5			58.1	48.5	18.4 10.31		WC CRIR	7.58
Cumulative Passing %	105.6	96.5		ME 1	<u>18.1</u>					
Comutative Passing %	105.6	1	11.3		<u>18.1</u>		#136		сая	52.08
Comutative Passing % <u>At motoriol production</u> Sieve size umulative Retained (g)		40	11,3	ME 1	<u>18.1</u>	45.5	#136	Im	C218	52.08 2.21
Cumulative Passing % <u>At motoriol prodotion</u> Sieve size Cumulative Retained (g)	10	40	81.5 200 320.00	ME 1	<u>18.1</u>	45.5	#136	liu	C218	52.08 2.21
Comutative Passing % <u>At motoriol prodution</u> Sleve size comutative Retained (s) Comutative Retained %	10 75.00	40 165.00 32.00	200 200 220.00 84.00	ME 1	<u>18.1</u>	45.5	#136	im	C218	52.08 2.21
Cumulative Passing % oft motoriol production Slove size Cumulative Retained (s) Comulative Passing %	10 75.00 15.00	40	81.5 200 320.00	ME 1	<u>18.1</u>	45.5	#136	liu	C218	52.08 2.21
Cumulative Passing % <u>oft motoriol prodution</u> sieve size cumulative Retained (s) Comutative Retained % Comutative Passing % Comutative Passing %	10 75.00 15.00	40 165.00 32.00	200 200 220.00 84.00	ME 1	<u>18.1</u>	45.5	#136	liu	C218	52.08 2.21
Comutative Passing % <u>oft motoriol production</u> sieve size comutative Retained (s) Comutative Retained % Comutative Retained % Comutative Retained % Comutative Retained % Comutative Retained % Comutative Retained %	10 75.00 15.00	40 165.00 32.00	200 200 220.00 84.00	WT.OF	Sh.+	45.5	et.34	- Jan	C218	52.08 2.21
Comutative Passing % <u>Alt motoriol prodution</u> Sieve size comutative Retained (a) Comutative Retained % Comutative Passing % <u>Comutative Passing %</u> <u>Comutative Size(in)</u> Sieve size(ine)	10 75.00 15.00 85.00	40 165.00 32.00 67.01	205 205 320.00 64.00 34.00	WT.OF	58.1 8amp/a 1/2	43.5 500	#1.34 30	ym # 15	C218	52.08 2.21
Cumulative Passing % oft motoriol production sieve size cumulative Retained (s) Comulative Retained % Comulative Passing % comulative Passing %	10 75.00 15.00 85.00	40 165.00 23.00 67.00	11.8 200 200 220.00 84.00 34.00 34.00	WT.OF	Sh.+	45.5	et.34		C237	52.00 2.21 8.79

Date

ATTERBERG LIMTS	LIQUID LIMIT (LL.)	PLASTIC LINIT (P.L.)	PLASTIC INDEX IP IN
ATTERBERG LINTS			PORTIG OUDEX (P.1)
			1.71

Contractor

x

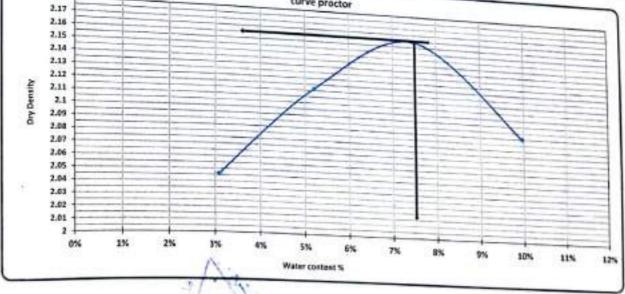
Name

Sign

Consultant mohamed elsaite midsail 29-7-203

Carr/Segment - Labor in passed

Aller and Aller	P-see	Section	n - 7 From	FOKA TO	Train - HS El Alamein MARSA M	MATROL	ин			_
	MOD	110	m Station 5	04+000 To	MARSA M	ATROUH	- 10.0	ed Hankil,	-A	a
TING DATE:	MODI 25-07-2023 K.P (508+30)	FIED	PROC	TOP	station 548	+177			Wr.	-
ATION	25-07-2023			TOR	TEST	ASTA	L Durin			
E COMPANY	K.P (508+30		00	de			D155	7		-
	EG-CONTRA		and the state of		CONE					
_			EGC (95)		Material		507+000 509+00			
Weight of			1.000	_	quantity		-	fill m	aterial	+909
Weight of empty mold	1	-	_					500	° m 0	-
Mold Volume:		5620.0		1						-
		2124.0			M.	AX Dry Der	rity			
trial no :					Water conten				2.16	
Wr. Of Mold + Wet So				-		conten	1%		7.5%	-
WT the	101	10.0		2	3					_
WT, WET SOIL			10350.0		10550.0		4		-	_
WI, Density		0.0	472	30.0			10	(99		_
	2.1	09	23	127	49	10.0	48	N.D.		
Tare No.					1	un (91		
Tare wt.	16	17	15					30		
	\$5.35	54.36		19	20	21				
Wt, Of wet soil & far	e 150.0		54.48	53.63	55.22	54.28	12	23	Start.	
Wt. Of dry soil & tar	e 147.20	150.0	150.0	150.0	150.0	150.0	54.12	56.62	1.1.1.1.1.1.1	
Wt. Of water		147.10	145.30	145.20	143.50		151.0	158.0		-
WL Of dry soil	2.8	2.9	4.7	4.5	6.5	143.28	141.80	141.1		-
Water content %	91.9	92.7	90.8	91.6		6.8	8.2	8.9	-	-
	3.0%	3.1%	5.2%		\$8.3	18,9	87.6	14.5		-
AV.Water content %	3.	1%		5.2%	7,4%	7.6%	9.4%	10.5%	-	-
Dry Density	2.0	046			7.5	\$46	10	876	-	
			2.1	117	1	159		185		_
				1-25	-		-			







ALAR CRAATER COVER			Electric Expres rom El Ain El Sokhna Gity Section - 7 From FOKA	To El Alamain - MATRICIAN	ورت لور لازار لوله	
denis and with all and	TA DES SAME		From Station 534+000		542 6	fillent by
	AL	sorbtion	Of coarse Aggree	gate	-	1
TESTING DATE:	25/07/2023					_
LOCATION	25/07/2023 K.P. (505+100		code	Station	597+606	509+000
LOCATION	25/07/2023 K.P (505+300 EG-CONTRAC			Station Material	fill m	sterial
LOCATION NAME COMPANY	K.P (508+300 EG-CONTRAC		code	Station	fill m	the second se
TESTING DATE: LOCATION NAME COMPANY Weight of same eight of saturated surface	K.P (50\$+300 EG-CONTRAC		code	Station Material	fill m	

gm

gm

54

Results:-

1492

2450

2.360

2.437

2.557

3.265

200

Lab.	Sne	19 A 19	11-6	

Name : 🌱

Weight of saturated sample in water (C)

Weight of dry sample after heating (A)

Bulk specific gravity = A / (B-C)

Bulk specific gravity (S.S.D) = B / (B-C)

Apparent specific gravity = A /(A-C)

Absorption = (B-A)/A

Sign :

Lab. Engineer	Consultant En	gincer	3 81	1
Name : Ahmed Hal	tem N	ame : M	ohamed	elsaïs
Sign :		ign :	m.ets	
Sta	1			29-7-2023
4/11	N. H.			
4.98	x - 71			
L	- North in			

11

I HH I





Testing Date :	27/7/2023	Code	Code FROM STA			
Location :	K.P (508+300)	code	code	FROM STA :	507+000	509+000
Company Name	EG-CONTRACT	EGC(95)	EGC(95) Material		aterial	
a second second	EG-CONTRACT		quantity	500	10m ²	

: Test Results

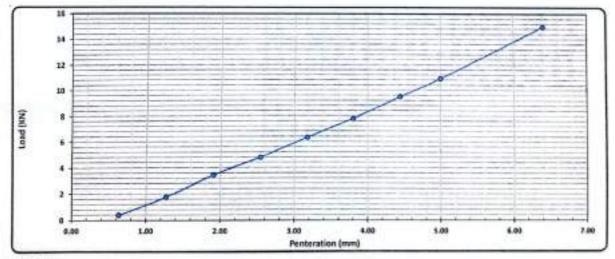
Compaction % for Mold	
Mold No.	1
Mold Vol.(cm ³)	2130
Mald WT. (gas)	5310
Mold WT. + Wet WT. (gm)	16235
Wet WT, (pw)	4915
Wet Deasity (g/cm ³)	1.908
Dry Dennity (g/cm ³)	2.1-0
Practor Density (g/cm ³)	1140
Comparison %	19.5

Mositure Ratio After Compacted Mole		
Tare No.	11	
Tare WT. (gm)	51.33	
Tare WT, +Wat WT, (pe)	158	
Tare WT. +Dry WT. (gm)	143.2	
Water WY. (gm)	6.5	
Dvy WT. (gm)	91.9	
Molutare Content %	7.4	

5welling	
Hold No.	1
Date	21/3/2013
Inital Height (non)	15.88
Final Beight (ston)	15.00
Difference	8.00
Sample Height (mm)	128.0
Swelling Ratio %	0.00%

Loading Reading :

Pesteratian (mm)	8,64	1.27	1.91	2.54	1.15	3.80	4.45	5.00	6.48
Load Rendlag (Kg)	42	195	382	512	702	855	1053	1111	1663
Load (KN)	0.4	1,8	3.4	4.8	6.3	7.8	1.5	18.9	15.0



Calculations : -

Penteration	Lead	Stanilard Load	свя	Mold - Comparison	Compaction	CRR
(mm)	(Ka)	(76)	(5)	(%)	(16)	
2.50	4.79	11.4	35.9%			34.3%
5.00	10:90	20.0	56.4%	19	**	\$2.8%

Lab. Specialist	Lab. Enginee	Concellant Engineer
enter :	Name Armaticarta	mohaned elsait
iga :	men Standar H .	un melsail
		29-7-223

Correction of Unit Weight and V	Transfer the Part of the	Solis Containing o	versize Particle	2
boy Unit Weight of Fine Fraction (Yor) (gm/cm3	2.160	Company		
Optimum Molsture Content (O.M.C) (%)	7.50	Date of Sample	EG-CON	(1019))/es/1
specific Gravity of over Size Fraction (G _M)	2.360	Project	27/7/2	20100 ·
specific Gravity of Water (Yw)	0.980	Sector	Express Tra Foka - M	and the second second
	1000		FORM + M	atroun
Sample Data	UNIT	VALUE		
otal Weight of Wet Sample	gm	56710	Statement of the local division of the local	
reight of Wet oversize Fraction (Retained 3/4)	gm	19245		August and a
eight of Wet Fine Fraction (Passing 3/4)	gm	37465		
leight of Dry oversize Fraction (Mpc)	gm	17705	نستن جای	No.
Veight of Dry Fine Fraction (Mpr)	gm	34468		Mertin .
otal Weight of Dry Sample	gm	52173	الوان تامم جال	
Vater Content of oversize Fraction (Wc)	16	0.09		
Vater Content of Fine Fraction (We)	36	0.09		-
Percent of oversize Fraction By Mass (Pr)	14	33.94		
Percent of Fine Fraction By Mass (Pe)	5	55.06		
Calculations of Corrected Water for oversize I	The second se			Contraction of the
orrected Water for oversize Fraction & Finer Fra		W, P, + W	/. P.	8.70
anettes waterior oversiter action a rule ra	iction [cg.]	witht	icre l	0.70
Specific Gravity of over Size Fraction (G _M)	2.360			
Specific Gravity of Fine Fraction (Y _{DI})	2,160	gm/cm1		
Specific Gravity of Water (Yw)	0.980			
Calculations of Correctd Unit Dry Weight of	the Total Material	(combined finer and	oversize fractio	ns) (Y _{DT}):-
		(YDF*GM*YW)		
Corrected Dry Unit Weight of Total Materi	iai (for)	((YDF * PC) + ((GM * YW * PF)) 2.	
Corrected Maximum Dry Density (M.D.D)	2.21		gm/cm ¹	
Corrected Optimum Moisture Content (O.M.C)	\$.70		%	
Corrected Optimum Moisture Content (Circc)				

CarrSegatar chief in possi-

KK A	Electric Express Train - HSR From El Ain El Sokhea City To El Alamais - MATROUH Section - 7 From FOKA To MARSA MATROUH	and and and and the
doubt al Costra Dens Succes	From Station 504+000 To Station \$65+177	1

PARTICLE SIZE DISTRIBUTION OF SOIL

TESTING DATE:	29-07-2023	tice	ZONE	507+000	509+000
LOCATION	K.P (507+300)	state opportunity of	Matorial	fill m	atorial
NAME COMPANY	EG-CONTRACT	Eric 1881	quantity	500	0 m'

1 artsgal inspection test

2-Gradient test

gradation of bulk materio	als			TOTAL SAM	THORN SLIP	5414	45.00	gm		table classify
siova siza	2	1.5	1	40	2/1	8/3	#4	PASS	Г	soil classify
Mass mained (a)	1122.0	3214.0	50110	A 8065	5415.0	5637.0	4403.0		CLASS	A-1-A
	1000000	4330.0	9159.0	14 #55.0	24040.9	10277.0	34688.9	18405.0	PRO	2,19
Currentitive Retailord (F)	1122.0	8,0	18.4	35.0	45.5	55.1	04.1		WC	6.09
Comparison Retained %	2,1	-	-	65.0	54.5	44.1	35.95		CBR	58.50
Convertive Passing %	97,9	\$2.0	\$1.8	85.0	98.0				6.94 #403	2.23

i-saft material gradation		WT.0F sample		\$60.00		gm		
SID+0 SIZD	13	40	309		-		_	-
Ceremitive Related (r)	60,00	160.00	54820		-			-
Cathelative Rotation %	12.00	36.00	\$2.00				_	-
Construirtion Passing N	88.00	64.00	\$8,00				_	1

1

-General gradient	· · · · · · · ·				1000			1	# 40	# 200
sieve size(in)	2	1.5	1	3,4	1/2	3.8	84	# 10		_
sieve size(mm)	50.0	37.5	25.0	18.0	12.5	9.5	4.75	2,08	0.425	0.075
Cumulative Passing %	97.9	92.0	81.6	61.0	54.5	44.1	35.9	31.6	23.0	3344
			-							
								-		
				100						

A REAL PROPERTY AND A REAL	LIQUID LIMIT (LL)	PLASTIC LIMIT (PL.)	PLASTIC BIDEX (PJ)
TTERBERG LIMTS	24.51%	19.19%	5.32%
			Consultant
Contractor	Ahmed Haloging		mohamed elsaire
Namo	a		
Sign	A Mark		(midsing)
	all a le		31-7-20
	1 In the		31- +

3.30



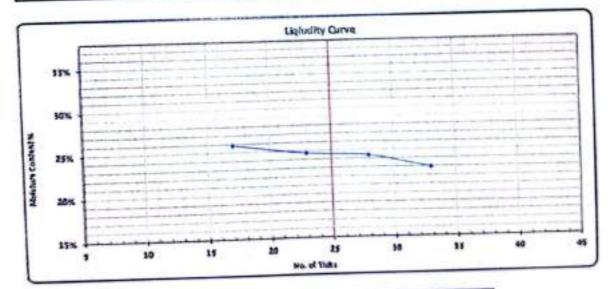


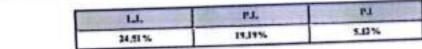
Plasticity and Liquidity Test -Atterberg Limits

Testing Date:	29/7/2023	CODE	Station	507+000	507+000
Location;	K.P (507+300)		Material	fill material	
Company Name	EG CONTRACT	EGC (98)	quantity	500	4m ⁹

Testing Results :-

Test	1	Ligiud	Limit		Plastic	Lintit
No. of Delu	111	23	23	17		
Tare lin.	11	13	14	15	16	D
Then WT. (m)	57.14	55.13	54,41	35.53	53.54	\$7.32
Thre WT. + Wist WT. (pm)	11.77	76.79	63,74	74.05	55.90	51,63
TereWT.+Day WT.(gat)	28.90	73.59	66.78	67,13	53.5	\$9,4
Water WT. (gm)	4.57	4,20	3.64	1.9	0.19	0.17
Dry WT. (pa)	31.66	17.34	13.25	11.38	3,04	1.43
Maisture Context %	12,9%	24,4%	14.7%	25.8%	13.5%	18,9%
A DECISION OF THE OWNER	Average %				18	276





Cumultant Englisser memohamed elsaid Lab. Engine Lab. Spectalist m elsaig Name I Name 1 140 Spit

Press ID AD ID EMONS City To ID Alexanic - MATRIXAN Designed - Three First To Market MATRIXAN Designed - Three First Statistical MATRIXAN Designed - Thre	المشمه التستمساري الواردس	NYSEIA DE SARAN	Devices - Trives PORA To MAINER MAINTARE	12.00 A	
--	---------------------------	-----------------	--	---------	--

Absorbtion Of coarse Aggregate

TESTING DATE:	10,07,0011	Loda	Station	503+004	589+00
LOCATION	K.P (507+300)	and search	Material	riti m	aterial
NAME COMPANY	EG-CONTRACT	EDC (sel	quantity	500	10 m T

Weight of sample	2500	gm
Weight of saturated surface dry sample (6)	2500	gan
Weight of saturated sample in water (C)	1543	gm
Weight of dry sample after heating (A)	2485	gm
	Re	sults:-

Bulk specific gravity = A I (B-C)	2 361	
Bulk specific gravity (S.S.D) = B / (B.C)	2,460	1000
Apparent specific gravity = A I(A.C)	2,538	
Absorption = (B-A)/A	- 233e	- 35

Lab. Specialist

121

Name 1

Sign :

Nume: mohamed elsaid sun: m. etsaid 31-7-2023 Consultant Engin Lab. Engineer



		A141	LINOMSTN	1 101-1010 SUIT-1018
Testing Deir :	71 - 2073	41000		FSE maturial
Localian 1	N.S. (807+300)	EGC(98)	Mateviel	5195 m [*]
and service is a product of the service of the serv	FG-CONTRACT	A CONTRACTOR	4484181	
Company Name				

L. Trit. Banalia

Comparison 5. for Mold	
Mai Ne.	
Mail Vill (vm *)	2570
Minal W.Y. 1994	-
NAL BT . No BT (PH)	11017
R. W. W. T. Spech	4979
Wathonin 121003)	5.89
Den Denip (gramb)	1.8.
Prestor Denoits 1g' (751")	2170
Camperton No	

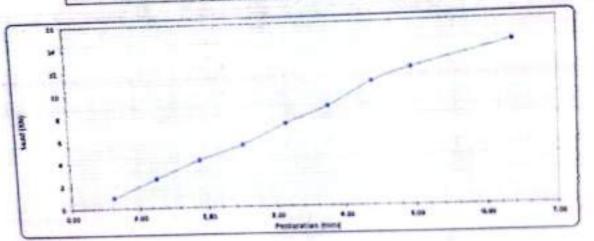
Conitare Ratin After Compact	
Tenta	11
ture WT. 1981	11.0
Tara 18 7 . + Hat 18 7 . 12+17	144
Tate WT. elbry WT. (gat	1 1003
R ange ih T (gm)	91
Brg WY (ge)	
Munture Current %	1 14

Swetting	
Mull No.	1.
Bur	BUT DATA
teartan reer	38.6*
East il-ade minit	10.00
P.A.wus	4,07
Camp & Shipe perit	1 41A.R
Saviling Parls To	1.00%

10

Londing Brading ;

and the second se							Concernant.		
	1.0.00	1.3*	- 1.91	2.10	3.18	3.80		Antestation	-
Person yours person		1000	1000	411	198		8295	1221	1762
Last Rooting Pup	1.143	141	10000	in property in		1	10.0	4.0	\$4.5
Lost Alle		1.1.4	4.8.00	24	a	1	1.00	-	



Calculations 1.

Consolition and			000	The Contract of	Concession.	1 1548
Passing	5 6.005	Tigetart Last	CBR		1000	and the second second
-	Bay.	0.	8.83	1761	1944	at leading to
and the second s		18.0	at. 11.	1	221	1. 16.7%
259	P.44.			148		16.5%
1.00	11.50	18.0	ALC: NOT			

Lat. Sprinter

Lan. Keap

vashawed elsaig mekaid 71-7-2021

ta de testa			realize arrest allo		
Correction of Unit Weight or	A Water C	Ontent Fo	r Solls Containing ov	orsiza Partici	-511
Dry Unit Weight of Fine Fraction (Yer) (gm/c	and the second	2.190	Company	FG.co	NTRACT
Optimum Moisture Content (O.M.C) (%)		6.00	Date of Sample	d to obtain the party of	1/2023
Specific Gravity of over Size Fraction (Ga)		2.351	Project		rain Project
Specific Gravity of Water (Yw)		0,980	Soctor	and the second se	Matrouh
			termine and the second		
Sample Data	UN	IT	VALUE }		T
fotal Weight of Wet Sample	gn	n	53145		19 11 1 1 1 1 1 1
Veight of Wet oversize Fraction (Retained 3/4)	En	,	18955	- (- 12 B	1.55025
Veight of Wet Rno Fraction (Passing 3/4)	Gm		34190		
Veight of Dry oversize Fraction (Mpo)	Ea	1	17628	د مال	د ال
Veight of Dry Fine Fraction (Mor)	gm		31455		الوزن تاء
otal Weight of Dry Sample	gm		65083		
later Content of oversize Fraction (Wg)	*		0.08	1	2010010-12
ater Content of Fine Fraction (We)	*		0.09		Married Street
tent of oversize Fraction By Mass (Pd	*	-	35.92		a state of
cent of Fine Fraction By Mass (Pr)	*	1. 19	54.08		
culations of Corrected Water for oversize F		inset and		- million and	TO VIEW
noted Water for ownsin Fraction & Finer Frac	tion to 1				EKO I E
A REAL PROPERTY OF CONTRACT OF THE REAL PROPERTY OF	and dett		Wr.PF+WcP	c	8.28
cific Gravity of over Size Fraction (G ₁₀)	2351	Sec.	and the second se		-
cific Gravity of Fine Fraction (Y _{DF})	2.190		gm/cm ³		
cific Gravity of Water (Ye)	088.0				
ulations of Correctd Unit Dry Weight of the	e Total Ma	terial (con	nbined finer and over	size fractions	10.15
ected Dry Llait Walsha . to		1	(YDF . GM .	NUMBER OF STREET, STREE	A. Div-
ected Dry Unit Weight of Total Material	(Yor)	-			2.23
rected Maximum Dry Density (M.D.D)			([YDF * PC) + [GA! *		1
ected Optimum Moitture Content (O.M.C)	_	23	and the second second	gm/cm*	-
LAB Manager	-	4	and an inclusion of	*	111111

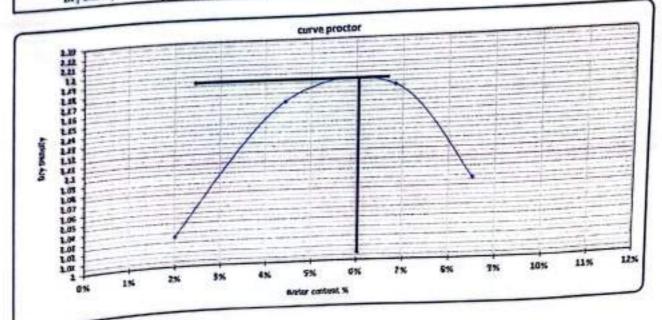
KX A	From El Alh El Sokhna City To El Alamain - MATROUH Section - T From FOKA TO MARSA MATROUH	and the particular
And a state of the	Frank Station \$14+800 To Station 208+177	57
per state of the s	DEST AND PROCTOR TEST ASTM DIS	37

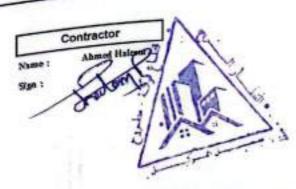
MODIFIED PROCTOR TEST ASTM DISS

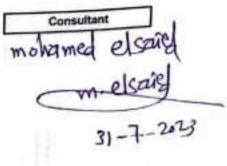
	the second states of the		ZONE	\$07+000	509+000
TESTING DATE:	30-07-2013	coda	Material		atortal
OCATION	K.P (507+300)	ENCTRAT	quantity	500	0 m,
NAME COMPANY	EQ-CONTRACT		President.		

			MAX Dey Des	uity	1,19
wights of compily mailed 1	5433.0		Water confer		6.0%
Mald Valamet	3134.8		IN FRA COMME	- del	1
			3		1
wiston :	1		16578.0	19430	1
COTINAL + SILE SHE	5,5091	19435.4	4958.0	4908,6	
a destruction of the second se	and the second se	1287.0	# 404M	and the second se	-
WT.WET DOG.	A-801A		1,351	2,368	

				1		1 11	0	13	1200	
Dec No.		3	3				10	54.8	Sec. 1	alle
THE N.		25.00	25.59	633	55.51	56.01				1000
Threwi.	-56,21	1.		150.0	1583	154.0	154.8	Figure .		1000
W1. Of set sal & tare	150.0	1104	155.3	Tel States and	144.91	104.04	142.00	243.4	100	
and the second se	148.10	1.02.31	14774	145.90	Terror		80	1.0	1	
W1. Of day sail & tare	-	14	4.1	4.5	6.0	64	80	-	-	-
W1. Of water	1.9				87.5	87,3	87.6	68.5		-
W1. OF 4ry set	91.9	91,9	98.1	82.7			5.1%	1.9%	1	
	115	2.0%	4.6%	4.4%	6.9%	6.8%			-	-
Water content %			-	176	6.1	E76-	8.5	196		
AV.Water content %	2/	m				-	3.5	113		1
Dry Density	14	K04	2.0	(46	1 1					







			From EI Al	Electric Ex In El Sokhna In - 7 From FC om Station 504	City To EI A	ALL SHALL SHELL SHELL				
ATTEV? LE ULEAN	SHAKER		and the second s	and the second se			sager			
Opreating lap	Al Ta	wkol Central	Lab	TTE DIST	RIBUTI	ON OF SC	DIL			1
		PAR	IICLES			ZONE		507	+000	509+000
STING DATE:		1-07-2023		00	dø	Material			fill ma 5000	
CATION		P (508+300		EGC	(99)	quantity			5000) m-
ME COMPANY isual inspection test	EG	-CONTRAC								
and the second state										
radient test								-	1 [table classif
radation of bulk materia	ls			TOTAL SAM	PLE WEIGHT	2637	5.00	gm	4 1	soil classify
sieve size	2	1.5	1	4/3	2/1	8/3	#4	PASS		A-1-A
Mass retained (g)	0.0	1235.0	2500.0	3205.0	3225.0	3214.0	3021.0	-	CLASS	2.18
Cumulative Retained (g)	0.0	1235.0	3735.0	6940.0	10165.0	13379.0	16400.0	9975.0	PRO	7.00
Cumulative Retained %	0.0	4.7	14.2	26.3	38.5	50.7	62.2		WC	65.40
Cumulative Passing %	100.0	95.3	85.8	73.7	61.5	49.3	37,82		CBR	
	TRACE.								CORR .PRO	
								Lan	CORR .WC	
oft material gradation				WT.OF	sample	50	9.66	gm	1	
sleve size	10	40	200					-		
Sumulative Retained (g)	70.00	180.00	305.00					-	1	
Cumulative Retained %	10,00	36.00	60.10					1	1	
Cumulative Passing %	(6),60	64.00	35.50	harmon		1			1	
		1								
eneral gradient	2	1.5	1	3/4	1/2	3/8	84	# 10	# 40	# 200
sieve size(in)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
sleve size(mm)	100.0	95.3	85.8	73,7	61.5	49.3	37.8	32.5	24.2	14.75
Cumulative Passing %										
								-		
P						1	1			
	the local									
	10	UID LIMIT (LL)	PL	ASTIC LIMIT	(P.L.)	PLAS	TIC INDE	EX (P.I.)	
TTERBERG LIMTS	Link	-		-			-	N.PI	-	
Contraction of the second	5	C					-			
		P.						Consult	ant	
Contractor	Ahimed	Halcem					mo	ham	ed al	TP
Name	3/ X	P					110	1 19 10	el els	and
Sign	100	25					C	-	10	2
21)poor	171					0	_	nousa	12
4/	M CO	. K							/	

3-

Carr/Septem - July in possil





			Incompany of the	\$07+009	509+000
Testing Date :	2/8/2623	Codé	FROM STA :	fill m	aterial
Location :	K.P (508+300)	EGC(99)	Material	500	90m3
Company Name	EG-CONTRACT	Handert	quantity		

: Test Results

2

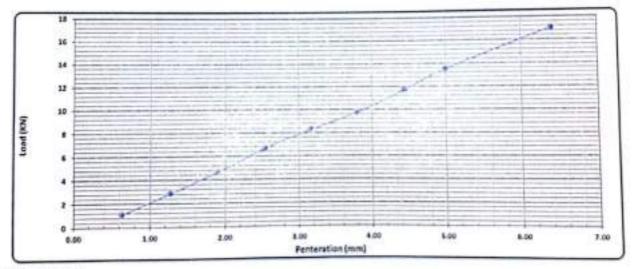
Compaction % for Mold		
Mat No		
Molt Vol. (cm ²)	21(8	
Must WE. (ps)	\$318	
Modd WT, + Wet WT. (pn)	11241	
Wet WT. (gm)	4935	
Wei Denity (g/cm3)	2.285	
Day Density (g/cm ³)	1.138	
Process Density (g/cm ³)	2.18	
Compaction %	58.1	

Mositure Ratio After Compacted Mold							
13	Tara So.						
48.2	Tare WT. (gm)						
6.50	Tan WT. 4Met WT. (m)						
143	Tare WT. +Dey WT. (gm)						
6.1	Water WL (gm)						
84.7	Dry WL (gn)						
6.9	Mointage Content %						

Swelling	
Mold No.	3
Dete	18/3815
Entitel Marigher (upper)	28,06
Find Height seen!	20.00
Defference	0.00
Sample Bright (mm)	120.0
Sortheg Ratio %	0.00%

Loading Reading :

Proteration (mm)	0.64	1.27	1.91	2.54	3.15	3.50	4.45	5.00	6.40
Load Reading (Kg)	125	322	521	745	925	1045	1.941	1902	1896
Load (KN)	1.1	2.9	4.7	6.7	8.3	8,8	11.7	13.3	17,4



Calculations : -

Pesteration	Load	Standard Load	C88	Mid-Cospetie	Calpinition	C88
(64)	(Ku)	(1b)	1911	(%)	(5)	يه هد لسية 15
2.56	6.71	13.4	50.2%			48.75
5.60	13.52	20.0	67.5%	- The		65.4%

Lab. Engineer

Lab. Specialist

Name

Sign 1

Name

Consultant Engineer m.elsard mo Nai Sign 1



Electric Express Train - HSR

From D Ara TI Salarias Day To D Alassan - MATROLAY -Saularia - FFrom FORA TO WAREA WATROLAY



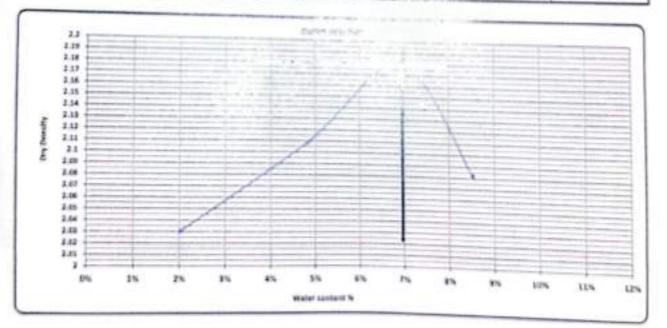
MODIFIED PROCTOR TEST ASTM D1557

TESTING DATE	1.08.0003	10.00	PONE	557+505	578+508
LOCATION	K.P (102+305)	-	Material	60 m	etartal
NAME COMPANY	EG-CONTRACT	Socies1	quartity	\$1500	1 m'

Farm Englishen Add + 500 Tol Martines State - 177

i blow cique to segure	rmply mold 5426.8 MAX Dry Density		der .	2.19		
Midd Volume.	3124.6		Water compar	6	145	
Reisi me 1	1	1	3		1	
the states in the second			1055.0	Lincon.	-	
and the second design of the second se	1MI2LA	10315.8	10872.6	19429		
WL OF Most + WAY Sold WT, WET SOLL WL Dendry	4456.8	10312.0	10724	4804.9		

Tars No.	7 -			1.1	1				
Tarr et.	Toplant.	-	1 2			.4	- 41	2.8	-
	54.21	54,50	74.11	542	54.53	93,31	54.42	14.4	
WL Of wet soil & tare	196.8	156.8	298.6	198.0	111.0	150.0	110.0	150.0	
W1. Of dry soil & tare	144.70	144.25	- Internet and -			1.000.00		196.0	
WL Of water	-	100.01	246.00	147.38	143.78	145,98	142.00	245.0	
The later of the l	1.5	1.8	4.0	4.5	-	6.1	8.0	7.8	
WL Of dry soil	91.5	41.4	41.8	91.0	87.4	11.8			
Water content %	2.15	2.8%					87.6	85.5	
AV.Water content %	-		4.4%	4.3%	1.2%	475	41.8	7.8%	
of a loss must company of	2.0	15	6.0	15	4.7	-		12	
Dry Density	2.6	193	- 11	-		ini i		(8)	





Consultant mohamed elsard

	Electric Express Train - HSR Frem El Ala El Sokha City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH	من المربية الثانية المراجع الم
SVALTA DES SAMER	From Station 564+050 To Station 568+177	

Opreating lap

AI Tawkol Central Lab PARTICLE SIZE DISTRIBUTION OF SOIL

	and the second se	ZONE	507+000	509+000
TING DATE:	31-07-2023	Material	fill m	aterial
CATION	K.P (508+300)	ouantity	500	0 m ³
ME COMPANY	EG-CONTRACT	P. Wild Childrenny		

sual inspection test

geographic test							gm		table classify	
adation of bulk materials			TOTAL SAMPLE WE						soil classify	
sieve size	2	1.5	1	4/3	211	64		PASS	CLA55	A-1-A
	0.0	1235.0	2500.0	3205-0	3225.0	\$5.99.0	3021.0	-		2.18
Mass retained (g)		all and the second		6940.0	10165.0	13378.0	16400.0	9975.0	PRO	
Cumulative Retained (g)	0.0	1235.0	3735.0		38.5	50.7	62.2		WC	7.00
Cumulative Ratained %	0.0	4.7	14.2	26.3				-	CBR	65.40
Cumulative Passing %	100.9	95.3	85.0	73.7	61.5	49.3	37.82	-	CORR PRO	
	-							1	CORR.WC	
				-		100	00	1 am		

oft material gradation				WT.OF sample	500.00	ĝm
sieve size	10	40	200			-
Cumulative Relained (s)	70.00	180.00	305.00			+
Cumulative Retained %	14.00	36.00	61.00			-
Cumulative Passing %	66.00	64.00	39.00			-

eneral gradient					1/2	3/8	#4	# 10	# 40	# 200
sieve size(in)	2	1.5	1	3/4	114	-				
sieve sizo(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Sumulative Passing %	100.0	95.3	65.6	717	61.5	49.3	37.0	32:5	24.2	44.73
				-						
					N	_				

CONTRACTOR OF THE OWNER	LIQUID LIMIT (LL.)	PLASTIC LINIT (P.L.)	PLASTIC INDEX (P.L)
TERBERG LINTS	•		N.PI
Contractor	-		Consultant
Name .7/	AhmenHalsem		mohamed e
Sign 3	Takt		internal G
1/1	ante		no.els
4.2	1 12		C
. 4	A Statement		





Testing Date :	2/8/2023	Code	FROM STA :	507+000	509+000	
Location :	K.P (563) 12(9)	E00(00)	Material	fill material		
Company Name	EG- UNITA-CT	EGC(99)	quantity	5000m ³		

.: Test Results

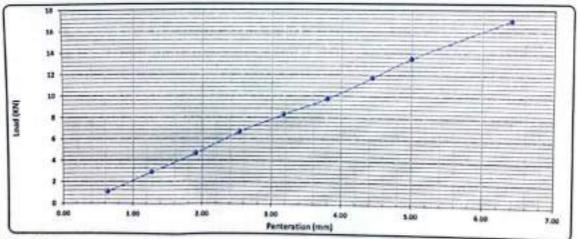
Compaction % for Mold	
Mdd No.	3
Mold VeL(cm ³)	3160
Mold WT, (gra)	\$310
Mold WT. + Wet WT. (gm)	1024
Wet WT. (gai)	4935
Wet Denity (g/cm ³)	1.285
Day Descity (g/cm ²)	2.13
Principe Density (g/cm ³)	2.58
Compaction S	98.1

Mositure Ratio After Compac	ted Mold
Tare No.	ш
Tare WT. igni	55.21
Ture WT, sWet WT, (get)	159
Tare WI, slivy WL (gas)	342.9
Water WL (gm)	61
Dry WL (gm)	88.7
Molecure Content %	6.9

Swelling	
Mold No.	3
Date	18/2023
Ential Beight (mm)	28.04
Final Height (men)	20.00
Difference	0.00
Sample Height (mm)	129.0
Swelling Ratio %	8.00%

Loading Reading :

Pesteration (mail	9.64	1.27	1.91	2.54	3.13	3.80	4,45	5.89	6.40
Load Reading (Ng)	125	312	521	748	925	1055	1342	1902	1816
Load (KN)	1.1	2.9	4.7	4.7	11	9.8	11.7	13.5	17.1



Calculations :-

Proteration	Load	Standard Load	CBR	Hid Cospetia	Conjettin	C88
(mm)	(Ka)	(lk)	151	(5)	(5)	-
3.50	6.71	13.4	81.3%			48.7%
1.00	13.52	26.0	47.8%		95	12.4%

Lab. Engls

Lab. Spectadat

inter .

Signi

mohamed elsard m.etszed

Consultant Engloses

Electric Express Train - HSR

From El Ain El Sokhna City To El Alamein - MATROUH

Section - 7 From FOKA TO MARSA MATROUH



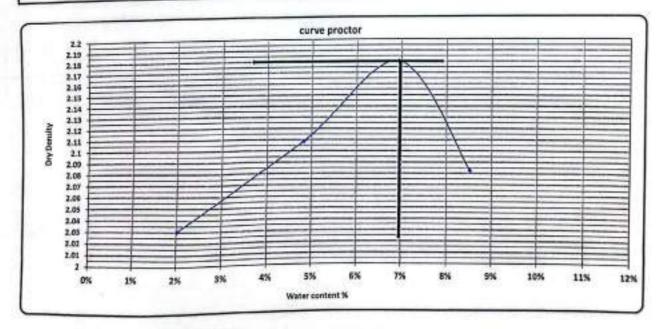
From Station 504+000 To Station 568+177

	MODIFIED	PROCTOR	TEST	ASTM D155'
--	----------	---------	------	------------

TESTING DATE:	1-08-2023	code	ZONE	507+000	509+000
DCATION	K.P (508+300)	EDC (DO)	Material	fill ma	terial
NAME COMPANY	EG-CONTRACT	EGC (99)	quantity	5000	m'

Veight of empty mold :	Lin Soch		MAX Dry Density		2.18	
Mold Volume:	21:30.0		Water content %		7.0%	
trial no :	1	2	3	4		
	10000	16316.0	10572.0	10420		
VL Of Mold + Wet Soll	10620.0	10315.0	101111			
VL Of Mold + Wet Soil WT, WET SOIL	4400.0	4495.0	4952.0	4800.0		

Tare No.	1	1	3	5	6	- 4	11	10	
Tare wt.	56.31	\$6.32	54.11	54.2	56.33	52.31	54,42	54,A	
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	148.10	148.20	146.00	145.20	143.70	143.90	142.00	143.0	
Wt. Of water	1.9	1.8	4.0	4.8	63	6.1	8,0	7.0	
WL Of dry soil	91.9	91.9	91.9	91.0	87.4	91.6	87.6	88.6	
Water content %	2.1%	2.0%	4.4%	\$.3%	7.2%	6.7%	9.1%	7.9%	
AV.Water content %	2.0	196	4.8	15	6.9	12	8.5	9	
Dry Density	2.0	131	2.1	09	2.1	80	2.0	83	





WORKA .

Consultant mohamed elsait

NYSEC.	A Distance Site	AXER		om El Ain El Section - 71	Sokhoa City	To El Alam	HSR	200		T
Opreating lap				From Sea	TONA	TO MARSA	WATROUN			NH. Starker
		Al Tawkol C	entral Lab			To Station 4	a di finis	-		AU (14)
TING DATE:			PARTI	CLF SIZ	P. mar	_				104
ATION		31-07-2		012	E DISTR	IBUTIO	NOFSO	11	1	
		K.P (507-	023	1000	LE SIZE DISTRIBUT			a.		
E COMPANY		EG-CONT	PACT	E	The second se		E fal		507+0	dd bar
ual inspection test		- com	TACT							60 \$09+0 RH material
adient test						quant	4			5000 m*
adation of bulk mater	rials		٦	TOTAL SA	MPLE WEGHT	1	Salerna		_	
sieve size	2	1.5	1	43	1	-	6000.00	97		table classi
Mass retained (g)	0.0	2290.0	10000.0	14000.0	2/1	53		PAS	8	Sinesh: See
umulative Retained (g)	0.0	2290.0	12296.8	26290.8	3385.0	3854.0	3291.0	1	CLAS	8 4.14
Cumulative Retained %	0.0	41	21.9	46.9	29655.0	11504.0	38863.8	19422	1.110	-
Cumulative Passing %	100.0	55.9	78.1	31.1	101 121	53.3	15.4	-	WC	9.00
							38.64	-	Citit	74.70
t material gradation				WT.OF a	ample	500	00	gm	-	And and a state of the second s
sieve size	10	40	200		-		1			
nulative Retained (g)	80.00	225.00	330.00				-	_		
umulative Retained %	16.00	45.00	14.00							
umulative Passing %	84.00	\$5.00	34.00							
					_					
neral aradient	2	1.5	1	214	12	38		# 10	# 40	# 209
sieve size(in)	50.0	37.5	25.0	18.0	12.5	8.5			0.425	0.275
sieve size(mm)	102.0	95.8	78.5	82.1	47.5	40.3	36.6	28.1	19.1	A REAL PROPERTY.
mulative Passing %						-				
		NA OWNERS AND		PLATIC	Loutput	1	PLASTIC	NUMBER OF	13	
and and a	Liqui	DI LAMIT (L L)			*		R.	79.		
TERBERG LIMITS										
						C	Contra	albant		
Contractor	Alumedifie	iner II.					dine.	1 .	1 I	
Starris	al	t				0	insing	e el	Str.	
\$100	aler	1					inhand A	a la	.nl	
	1 AL	The					-re	845	42	
0										
3	111 15	TIC						-	-	

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

WYSER 8

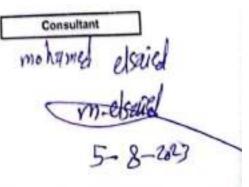
MODIFIED PROCTOR TEST ASTM D1557

TESTING DATE:	1-08-2023	code	ZONE	\$07+000	509+000				
LOCATION	K.P (507+300)	FORGANNI	Material	fill material					
NAME COMPANY	EG-CONTRACT	EGC (100)	quantity	5000	\$000 m*				

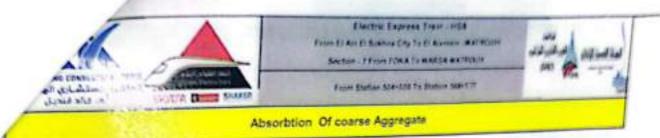
Weight of empty mold :	-	5620.0			3	MAX Dry Density			2.14	
Mold Volume:		2124.0		1		Water contest %			7,8%	
				-	-	,	1			_
trial no :	T	1		1	-	10556.0		84.92		
WL Of Mold + Wet Soil	101	140.0	-	NS.0	-	966.9	4512.0			
WT. WET SOIL	45	20.0		4775.0		2,135		266		
WL Density	1	.128	3.250		2.09		-			_
					16	1 17	12	п		L
Tare No.	12	13	14	15	54.43	54.1	54.42	54.4	-	┢
Tare wL	56,88	\$3,21	56.51	56.98	150.0	150.0	150.0	Levia	-	+
WL Of wet soll & tare	156.0	150.0	159.9	150.0	142.00	141.70	140.00	142.0		+
	145,00	145,10	113.31	141.40	8.0	83	10.0	10.0		+
WL Of dry soil & tare WL Of water	5.0	49	6.5	\$7.3	87.6	\$7.3	\$5.6	15.0		+
	55.1	91.9	\$5.7	7.69	115	4.5%	11.79	11.74		-
WL Of dry soil	8.7%	5,35	7.8%		1.5	19	11.			-
Water content %	5.5		2,19		2,139		2,629		-	-
AV.Water content fe	2.0	017								-
Dry Density				we proctor	1			-		=
										-
117 118 119 111 111 111 111 111 111 111 111		+		/	1					

2.05 2.04 1.03 2.02 15% 14% 13% 12% 11% 10% 9% 5% 1.01 7% 6% 5% 4% 2 3% Water content % 2% 1% 0%





16%



			Station	307-0003	339408	
TESTING DATE:	01/8/2023	ebde	Material	11.0	dirid	
LOCATION	K.P (507+300)	EOC (100)		500 m ²		
NAME COMPANY	EG-CONTRACT		domania			

2500	97		
2595	p ^m		
1543	-		
2487	-		
Resultain			
2,314			
2.487			
2.635	-		
4.943			
	2595 1543 2487 <u>2487</u> 2.467 2.435		

Lob England

mohrmed elsaith

Lab. Specialist Name -

NIGHT





cion +	2/8/2023			Cox	le	FR	OM ST	A :	1 1	07+000	\$09+000
tion :						the second second	terial		fill material		
	IC.P (507+3		EGC(100)		(00	quantity			50	Wm ¹	
any Name	G-CONTR.	ACT				0		-			
Results							-	-		Seiller	
er coulor regione	_	Mosib	are Rat	io After	Compact	ted Mold		M	Al No.)	
Compaction % for Mold	-	-	Ta	rt Ns.		-"	-	-	-		31900
Mold No.	3	-		NT. (pn)		1911	-	1	beat 10	(ALCONT)	1.00
Mold Vol. (cm ³)	2569			Wet WT.		142	-	F	Fiel N	(a set	5.04
Mold WT. (gm)	5338	T		Dep WT. 4	(m)	-	1		pellerret Sample Height simm		
Mold WT. + Wet WT. (gm)	11245			WE.spni	-	89	1				6,04%
Wes WT. (gm)	5935 2,331			T. (ges)	-	U	1		Sealing	and t	
Wet Densiky (g/em ³)	2,140		Materiare	Containt %							
Des Density (g/cm2)	Des Density (g/cm ²)										
Prostor Density (g/cm ²)	100.0										
Compaction Q					-		3.51	4.47	5.08	4.41	
ding Reading 1		0.64	1.2*	1.91	1.14	3.18	11.00	1.505	1759	223.8	
Protector Products	Goe (sun)	85	Tax	325	-10	11	1.1	12.3	18.8	11.9	
Load Re	rading (Kg)		1.7	2.9		-		1			-
1.00	d (KN)		1.1		_	-	-				
boolpeen a				2				1.04		4.00	1.00
E E	340	1.00	11	enteratio	n (mm)	_	_	_	againte		34
6.00			-	-			Lunjati	· .	- my ti ret	111	444
6.00	1000		-		CBR	5542	_	-	1.001	42.4	
Celculations.1:	Loud	Tonial Lo	d		ST.	814	191	-	14)	-	11.1%
Calculations.1:	taat (Ka)	(Bri	-			-	_	-	15)		
Calculations.i:		(B) 114	1		81	-	151				16.1%
Calculations.1:	(84)	(Bri	-		81 175	-	151			F	16.1%

conversion discoverse

CarrSepter - Lips in pass?

emection of Unit Weight and	water Content Fo	r Soils Containing o	versize Particle	s	
		<u>8)</u>	COLUMN TO A	Prolate	
Weight of Fine Fraction (YDF) (gm/cm	2.140	Company	EG-CONTRACT		
Moisture Content (0.m.c) (16)	9.00	Date of Sample	1/8/2023		
Executic Gravity of over Size Fraction (GM)	2.360	Project	Express Train Project		
Specific Gravity of Water (Yw)	0.980	Sector	Foka - Matrou		
				100000	
Sample Data	UNIT	VALUE	Constant of		
otal Weight of Wett Sample	gm	56000			
eight of Wee oversize Fraction (Retained 3/4)	gm	26290			
eight of Wet Fine Fraction (Passing 3/4)	gm	29710			
/eight of Dry oversize Fraction (M _{DC})	gm	23651	وان خشن جافى		
(eight of Dry Fine Fraction (MDF)	gm	26888	الوزن لاعم جافنا		
otal Weight of Dry Sample	gm	50549			
Vater Content of oversize Fraction (W _c)	%	0.11			
Vater Content of Fine Fraction (W _F)	%	0.10			
Percent of oversize Fraction By Mass (Pc)	%	46.81			
and Exception By Mass (Pr)	%	53.19			
Calculations of Corrected Water for oversize	Fraction & Finer Frac	tion (W _T) :-	A Haward	EW	
Calculations of Corrected Water Internet	action (C _w)	W _F P _F + W _C P	c	10.78	
Corrected Water for oversize Fraction & Finer Fra	ALL DESCRIPTION OF A DE				
Specific Gravity of over Size Fraction (G _M)	2.360				
Specific Gravity of Fine Fraction (YDF)	2.140	gm/cm ³		-	
cuttone (V.)	0.980			N/- 101	
Specific Gravity of Water (1997 Calculations of Correctd Unit Dry Weight of	the Total Material (c	ombined finer and ove	ersize fractions)	(Yor):-	
Corrected Dry Unit Weight of Total Mater		(TOP GM	* GM * YW)		
Corrected Dry Unit Weight of Feren		((YDF * PC) + (GM	SM * YW * PF))		
	2.22		gm/cm ³		
Corrected Maximum Dry Density (M.D.D) Corrected Optimum Moisture Content (O.M.C)	2.22		%		