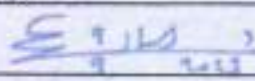
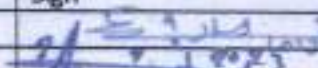
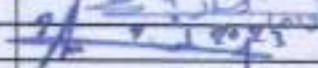


MATERIAL INSPECTION REQUEST	   		
	الهيئة العامة للإسكان GENERAL AUTHORITY FOR HOUSING وزارة النقل والبنية التحتية MINISTRY OF TRANSPORT AND INFRASTRUCTURE		

Contractor Company	Yousef Negida (1)		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng/Shehab Hamdi		09/09/2023																	
Contractor Reference	P.S.G YN1(P-10)																			
Received by ER		MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>09</td> <td>09</td> <td>2023</td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				09	09	2023			
C1	C2	C3	DD	MM	YY	HH	MM													
			09	09	2023															

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

Description of Materials	Curshed Stone P.S.G.10 Material Result				
Location to be Used	515+160	515+180	0.50+		
	515+180	515+300	0.25+		
	515+180	515+300	0.50+		
	517+110	517+160	0.50+		
	515+780	515+840	0.25+		
	515+780	515+840	0.50+		
MAR Approval No	P.S.G. YN1(P-10)		Date		
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & P.L & O.M.C %	m3	2000	06-09-2023	
2	Proctor	m3	2000	07-09-2023	
3	Classification	m3	2000	06-09-2023	
4	Sieve Analysis	m3	2000	06-09-2023	
5	C.B.R	m3	2000	09-09-2023	
6	LA & Absorption	m3	2000	08-09-2023	
Comments by:		Comments by:			
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Eng/ Shehab Hamdi				
QA/QC *	Ahmed Abo Zaid				
GARB**					
Employers Representative					

* Designer

** Alignment / Bridges: Culvert Only

 	Electric Express Train - HSR		
	From El Ain El Sokhne City To El Alamein - MATROUH		
	Section - F From FOKA To MARSA MATROUH		
From Station 554+555 To Station 548+177			
Operating Lab	Negida Central Lab		

PARTICLE SIZE DISTRIBUTION OF PREPARED SUBGRADE

TESTING DATE:	6-9-2023	Code	Zone	FROM STATION	TO STATION
LOCATION	KP 514+515	YH(P-10)		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA 1				
MATERIALS	Prepared Subgrade				
Quantity	2000 m3				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials			SAMPLE WEIGHT (g)				27175.00		gm	Table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	Soil Classify	A-1-a	
Mass retained (g)	0.0	996.0	4034.0	3075.0	3926.3	1066.0	2389.3		PRO	2.205	
Cumulative Retained (g)	0.0	996.0	5030.0	8105.0	12032.0	13698.0	15987.0		WC	8.90	
Cumulative Retained %	0.0	3.7	18.5	29.8	44.3	50.4	58.8		CBR	82%	
Cumulative Passing %	100.0	96.3	81.5	70.2	55.7	49.6	41.2		Los Angeles	27	
									Absorption	2.297	

B-soft material gradation				WT. OF sample		500.00	gm
sieve size	10	40	200				
Cumulative Retained (g)	110.00	221.00	369.00				
Cumulative Retained %	22.00	44.20	71.80				
Cumulative Passing %	78.00	55.80	28.20				

C-General gradent										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	96.3	81.5	70.2	55.7	49.6	41.2	32.1	23.0	11.6
SPECIFICATION	—	97	—	75 — 71	—	11 — 40	—	0 — 35	—	8 — 12

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

Contractor

Shehab Hamdi

Consultant



9/9/23

 	Electric Express Train - HSR		
	From El Am El Bokhna City To El Alamein - MATROUH		
	Section - 7 From FOHA TO MARSA MATROUH		
From Station 504-506 To Station 508-517			

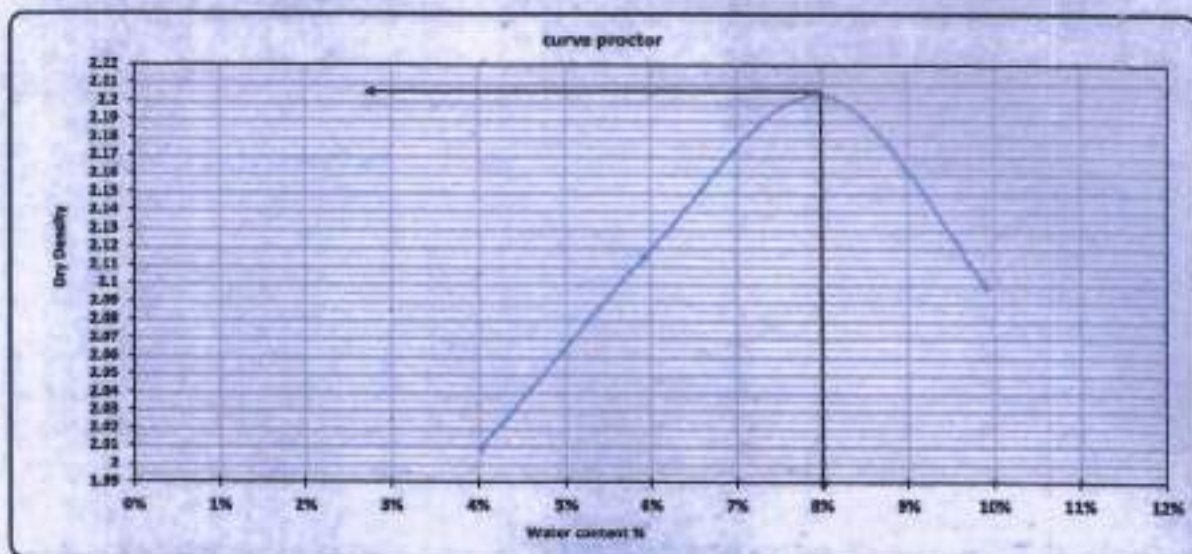
PROCTOR TEST (PREPARED SUBGRADE)

TESTING DATE:	7-8-2023	Code		FROM	TO
LOCATION	K.P 514+515	776(P-10)	zone	514+000	516+500
COMPANY NAME	YUSEF NEGIDA 1				

Weight of empty mold :	5498.0	MAX Dry Density	1.385
Mold Volume:	1127.0	Water content %	8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	18144.0	18464.0	10763.8	10407	
WT. WET SOIL	4446.0	4768.0	5963.0	4909.0	
Wt. Density	1.896	1.343	1.381	1.308	

Tare No.	7	19	13	17	15	40	31	33		
Tare Wt.	41.2	44.1	53.6	53.2	30.9	46.2	36.7	81.7		
Wt. Of wet soil & tare	159.0	150.0	134.0	158.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	145.0	145.1	142.8	142.6	140.2	140.1	137.4	138.0		
Wt. Of water	5.0	4.9	7.2	7.4	9.8	9.9	12.4	12.0		
Wt. Of dry soil	123.0	123.8	123.0	123.8	123.0	123.0	123.0	123.0		
Water content %	4.1%	4.8%	5.9%	6.0%	8.0%	8.0%	10.1%	9.8%		
AV. Water content %	4.0%		5.9%		8.0%		9.9%			
Dry Density	1.909		1.116		1.295		1.109			



Contractor

Shakaa Hamdi

شركة تخطيط للتقنيات
والمباني الهندسية
2023
مشروع المطار السريع - طوكية - مطروح

Consultant

2/2 2023

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد شحيد	 Electric Express Train - HSR From El Ain El Sekhna City To El Kamein - MATROUH Section - 7 From FOKA To MAFSA MATROUH From Station 554+900 To Station 565+177	

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

PREPARED SUBGRADE

TESTING DATE:	8-9-2023	code	zone	FROM	TO
LOCATION	K.P 514+515	TN(P-10)		514+000	518+500
COMPANY NAME	YUSEF NEGIDA 1				

Weight of sample Before Test	—	gm	10995
Weight of saturated -dry surface sample (B)	4215	gm	
Weight of saturated sample in water (C)	2957	gm	
Weight of dry sample after heating (A)	4124	gm	

Results:-

Bulk specific gravity = $A / (B-C)$	2.487	
Apparent specific gravity = $A / (A-C)$	2.832	
Absorption = $(B-A)/A$	2.207	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3659	27

Lab. Specialist

Name :

Sign :

Lab. Engineer

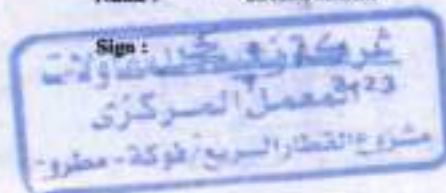
Name : Shchab Hamdi

Sign :

Consultant Engineer

Name :

Sign :



 	Electric Express Train - HSR	 
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Clienting Unit	AL Nohy Control Lab
California Bearing Ratio TEST	

Testing Date : 9-9-2023		Code		FROM	TO
Location : K.P 514+515		YHP-10		514+000	518+500
COMPANY NAME		YOUSSEF NEGIDA 1		ZONE	

Test Results

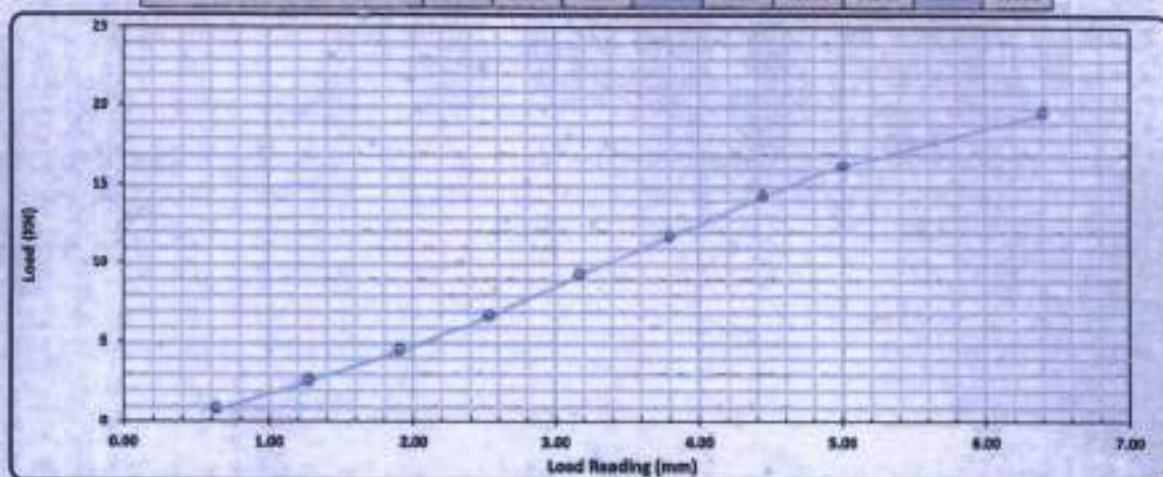
Compaction % for Mold	
Mold No.	4
Mold Vol. (cm ³)	2000
Mold WT. (gms)	8656
Mold WT. + Wet WT. (gms)	12859
Wet WT. (gms)	4803
Wet Density (g/cm ³)	2.406
Dry Density (g/cm ³)	2.132
Proctor Density (g/cm ³)	2.185
Compaction %	97

Moisture Ratio After Compacted Mold	
Tare No.	48
Tare WT. (gms)	66.2
Tare WT. + Wet WT. (gms)	313.7
Tare WT. + Dry WT. (gms)	218.7
Water WT. (gms)	13.8
Dry WT. (gms)	164.5
Moisture Content %	7.9

Swelling	
Mold No.	4
Date	9-9-2023
Initial Height (mm)	8.00
Final Height (mm)	8.00
Difference	0
Sample Height (mm)	116.40
Swelling Ratio %	0.0%

Loading Reading :

Load Reading (mm)	0.5	1.25	1.51	1.76	1.91	2.06	2.21	2.36	2.51
Load (KN)	0.9	2.4	4.5	6.2	9.4	11.8	14.2	16.1	19.8
Load (KG)	92.0	245.0	461.0	635.0	955.0	1202.0	1454.0	1600.0	1984.0



Calculations :-

Penetration	Load	Standard Load	1.00	Mold - Compaction	Compaction	CBR
(mm)	(KN)	(KN)	(%)	(%)	(%)	96.40 %
2.50	6.76	12.4	54.5%	97	95	51.3%
5.00	16.27	28.0	58.1%			81.3%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Shihab Hamdi

Sign :

Coordinating Engineer

Name :

Sign :



9/9/2023

MATERIAL INSPECTION REQUEST



Contractor Company	Yousef Negida (1)			Designer Company			
Issued by Contractor	Name	Sign	Date	Time			
	Eng/Shehab Hamdi	<i>[Signature]</i>	02/09/2023				
Contractor Reference	P.S.G YN(P-9)						
Received by ER			MIR	02	09	2023	

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

Description of Materials	Curshed Stone P.S.G.9 Material Result			
Location to be Used	516+240	TO 516+300	0.25+	
	516+040	TO 516+080	0.25+	
	516+080	TO 516+200	0.25+	
	516+200	TO 516+240	0.25+	
	515+840	TO 515+960	0.25+	
	515+960	TO 516+040	0.25+	
	515+040	TO 515+180	0.25+	
	516+240	TO 516+300	0.50+	
	516+040	TO 516+080	0.50+	
	516+080	TO 516+200	0.50+	
	516+200	TO 516+240	0.50+	
	515+840	TO 515+960	0.50+	
	515+960	TO 516+040	0.50+	
	515+040	TO 515+160	0.50+	

MAR Approval No	P.S.G. YN(9)		Date	
Supplier Name				
Test Requirement	Specification	Clause		
Reference Photos	Yes attached / No	Other		

Item	Description	Unit	Quantity	Arrival Date	Note
1	LL & P.L & O.M.C %	m3	5000	30-08-2023	
2	Proctor	m3	5000	31-08-2023	
3	Classification	m3	5000	30-08-2023	
4	Sieve Analysis	m3	5000	30-08-2023	
5	C.B.R	m3	5000	02-09-2023	
6	LA & Absorption	m3	5000	31-08-2023	

Comments by:	Comments by:

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

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST

المجلس
التقني
(SARL)



ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد شكري

الهيئة العامة للإعطاء
SARL



Location Name	Contractor Company		Designer Company	
Electric express train	Yousef Negida (1)		k.k	
Issued by Contractor	Name	Sign	Date	Time
	Eng/Shehab Hamdi	<i>[Signature]</i>	02/09/2023	
Contractor Reference	P.S.G YN(9)			
Received by ER		MAR	DD	MM
			02	09
			YY	HH
			2023	

The Following Test Result are Attached For Review

Description of Materials	Crushed stone (Prepared Subgrade) (A-1-a)			
Location of Stock	514+515			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	11.1 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	8.10 %	
6	ASTM D 1557	Modified proctor	2.217	
7	ASTM D 1883	CBR	72%	
8	AASHTO-T96	L.A	28 %	
9	AASHTO-T85	Absorption	2.391%	
Comments by:			Comments by:	

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi	<i>[Signature]</i>		
QA/QC *	Hassan	<i>[Signature]</i>		
GARB**		<i>[Signature]</i>		
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

 Karama Karama شركة كراما للمقاولات 2005	Electric Express Train - HSR From El An El Section City To El Alamein - MATROKH Section - F From FOMSA To MARGA MATROKH From Station 514+000 To Station 516+000	 وزارة النقل والتنمية الاقتصادية 2022
	Operating Lab: Negida Central Lab	

PARTICLE SIZE DISTRIBUTION OF PREPARED SUBGRADE

TESTING DATE:	30-03-2023	Code	Zone	FROM STATION	TO STATION
LOCATION	KP 514+515	TNEP-2		514+000	516+000
COMPANY NAME	YOUSEF NEGIDA 1				
MATERIALS	Prepared Subgrade				
Quantity	5000 m3				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		31347.00		gm	Table classify	
sieve size	2	1.5	1	4/3	2/1	5/3	# 4	PASS	Soft Classify	A-1-a
Mass retained (g)	0.0	885.0	5395.0	2528.0	5850.0	1571.0	2852.0		PRO	2.217
Cumulative Retained (g)	0.0	885.0	6280.0	8808.0	14658.0	16229.0	19081.0		WC	6.10
Cumulative Retained %	0.0	2.8	20.0	28.1	46.8	51.8	60.2		CBR	72%
Cumulative Passing %	100.0	97.2	80.0	71.9	53.2	48.2	39.8		Los Angeles	28
									Absorption	2.301

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	102.00	234.90	361.00					
Cumulative Retained %	20.40	46.80	72.20					
Cumulative Passing %	79.60	53.20	27.80					

C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	97.2	80.0	71.9	53.2	48.2	39.8	21.7	11.2	0.1
SPECIFICATION	—	97	—	75 — 75	—	65 — 60	—	5 — 30	—	5 — 12

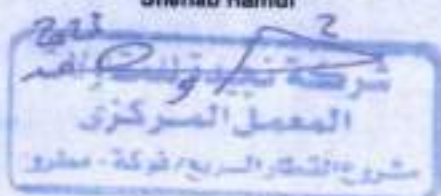
ATTERBERG LIMITS	LIQUID LIMIT (LL)	PLASTIC LIMIT (PL)	PLASTIC INDEX (PI)
	—	—	N.P

Contractor

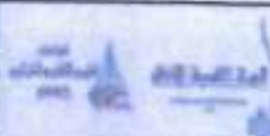
Shehab Hamdi

Consultant

Hasra



Handwritten signature and date 2/2/2023.

 	(Suez Canal Express Train - HSR)		
	From El AIN EL BORDH City To El AIN EL MATRUH - MATRUH		
	Section - 7 From FORA TO MARSA MATRUH		
	From Station 514+000 To Station 518+500		

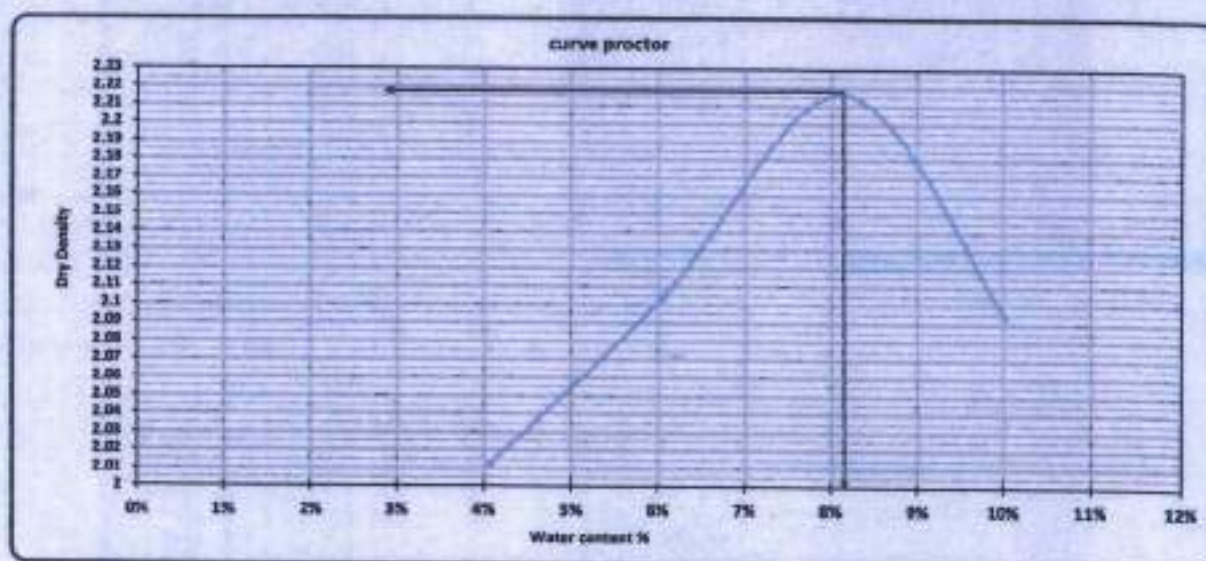
PROCTOR TEST (PREPARED SUBGRADE)

TESTING DATE:	31-8-2023	Code	zone	FROM	TO
LOCATION	K.P 514+515	75017-01		514+000	518+500
COMPANY NAME	YUSEF NEGIDA 1				

Weight of empty mold :	5917.0	MAX Dry Density	2.217
Mold Volume:	2128.0	Water content %	8.1

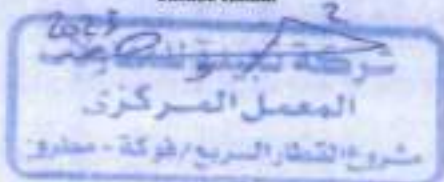
trial no :	1	2	3	4	
Wt. Of Mold + wet soil	10283.0	18558.0	10910.0	10712	
WT. WET SOIL	4466.0	4751.8	5103.0	4995.0	
Wt. Density	2.093	2.232	2.397	2.304	

Tare No.	7	19	13	17	15	48	31	32		
Tare wt.	43.2	44.1	53.6	53.2	30.9	46.2	86.7	82.7		
Wt. Of wet soil & tare	159.0	150.0	156.0	150.0	150.0	150.0	150.0	156.0		
Wt. Of dry soil & tare	144.9	146.1	142.8	142.3	139.9	146.3	137.5	137.9		
Wt. Of water	5.1	4.9	7.2	7.7	10.1	9.9	12.5	12.2		
Wt. Of dry soil	123.0	133.0	121.0	123.0	123.0	133.0	123.0	123.0		
Water content %	4.1%	4.0%	5.9%	6.3%	8.2%	8.6%	10.1%	9.9%		
AV. Water content %	4.9%		6.1%		8.1%		10.2%			
Dry Density	2.012		2.104		2.217		2.094			



Contractor

Shahab Hamdi



Consultant

Hassan
2023

 K&K ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ك.م. هاشم شوقي		Electric Express Train - HSR	
		From El Ain El Sokhes City To El Alamein - MATROUH	
		Section : T From FOHA To MARSA MATROUH	

From Station 504+000 To Station 505+177

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

PREPARED SUBGRADE

TESTING DATE:	31-05-2023	code	zone	FROM	TO
LOCATION	K.P 514+515	T85(P-4)		514+000	515+500
COMPANY NAME	YOUSEF NEGIDA 1				

Weight of sample Before Test	—	gm
Weight of saturated -dry surface sample (B)	3983	gm
Weight of saturated sample in water (C)	3438	gm
Weight of dry sample after heating (A)	3890	gm

Results:-

Bulk specific gravity = $A / (B-C)$	2.618	
Apparent specific gravity = $A / (A-C)$	2.679	
Absorbion = $(B-A)/A$	2.391	%

Los Angeles abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3582	28

Lab. Specialist

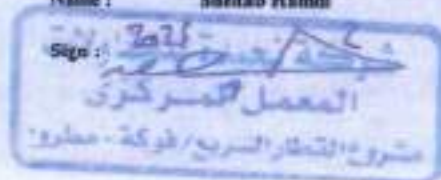
Name :

Sign :

Lab. Engineer

Name : Shehab Hamdi

Sign :



Consultant Engineer

Name : Hassan

Sign :



	Electric Express Train - HSR	
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Operating Lab	AL Naby Central Lab
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California Bearing Ratio TEST					
PREPARED SUBGRADE					
Testing Date :	2-09-2023	Code	ZONE	FROM	TO
Location :	K.P 514+515	VN(P-0)		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA 1				

-: Test Results

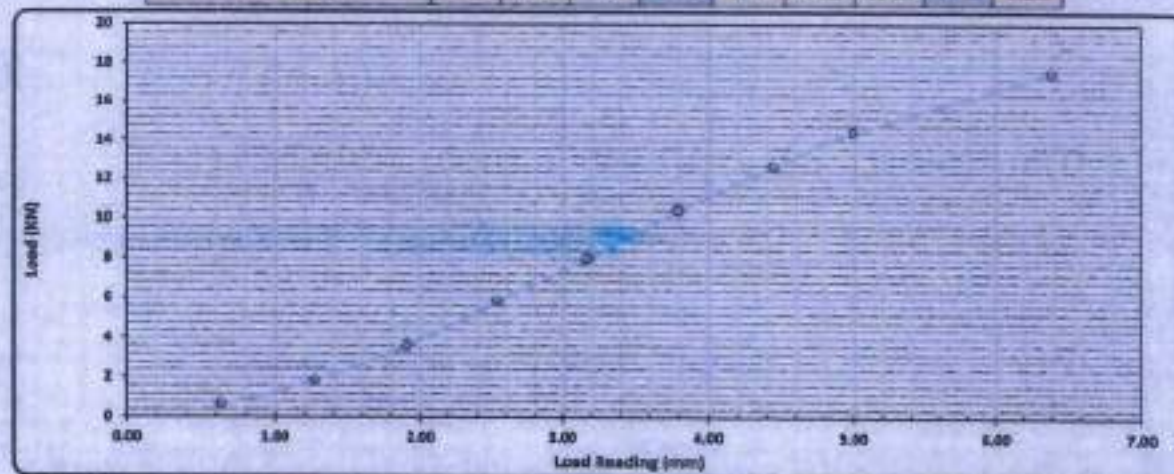
Compaction % for Mold	
Mold No.	4
Mold Vol (cm ³)	998
Mold WT. (gm)	8950
Mold WT. - Wet WT. (gm)	12940
Wet WT. (gm)	4891
Wet Density (g/cm ³)	1.341
Dry Density (g/cm ³)	1.168
Proctor Density (g/cm ³)	1.317
Compaction %	89

Moisture Ratio After Compacted Mold	
Tare Wt.	1
Tare WT. (gm)	32.1
Tare WT. + Wet WT. (gm)	197.3
Tare WT. + Dry WT. (gm)	185.2
Water WT. (gm)	12.1
Dry WT. (gm)	153.0
Moisture Content %	8.8

Swelling	
Mold No.	4
Date	1-9-2023
Initial Height (mm)	8.08
Final Height (mm)	8.08
Difference	0
Sample Height (mm)	136.43
Swelling Ratio %	0.0%

Loading Reading :

Load Reading (mm)	0.00	1.27	1.81	2.54	3.30	3.80	4.40	5.08	5.40
Load (KN)	8.8	1.8	3.4	5.2	8.8	10.4	12.7	14.2	17.2
Load (KG)	89.8	18.18	34.9	53.6	89.8	106.8	129.8	145.8	175.8



Calculations :-

Penetration	Load	Standard Load	C ₁₉	Mold - Compaction	Compaction	CBR
(mm)	(KN)	(kg)	(%)	(%)	(%)	89 4.2 to 9%
1.51	1.84	13.4	43.8%	89	89	43.8%
5.08	12.48	29.3	75.8%			75%

Lab. Specialist

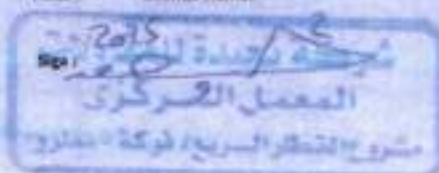
Name :

Sign :

Lab. Engineer

Name : Shahab Hamdi

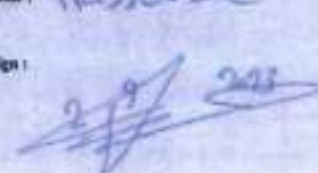
Sign :



Consultant Engineer

Name : Hassan

Sign :



MATERIAL INSPECTION REQUEST



Contractor Company	Yousef Negida (1)			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Shehab Hamdi		01/8/2023								
Contractor Reference	P.S.G YN(8)										
Received by ER			MIR	C1	C2	C3	DD	MM	YY	HH	MM
							01	8	2023		

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

Description of Materials	Curshed Stone P.S.G.8 Material Result					
Location to be Used	515+450	515+780	0.25+			
	515+300	515+780	0.50+			
	516+940	517+110	0.50+			
MAR Approval No	P.S.G. YN(8)			Date		
Supplier Name						
Test Requirement				Specification	Clause	
Reference Photos	Yes attached / No			Other		
Item	Description	Unit	Quantity	Arrival Date	Note	
1	L.I & P.L & O.M.C %	m3	5000	30-07-2023		
2	Proctor	m3	5000	31-07-2023		
3	Classification	m3	5000	30-07-2023		
4	Sieve Analysis	m3	5000	30-07-2023		
5	C.B.R	m3	5000	01-08-2023		
6	LA & Absorption	m3	5000	31-07-2023		
Comments by:			Comments by:			

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Shehab Hamdi			
QA/QC *	Mohamed Elmaghrabi		1-8-2023	
GARB **				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST

المجلس
القومي
للمواصلات
(CAREC)



ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
لبنان - شارع فلسطين

الهيئة العامة للطرق
والمواصلات
JAFZA



Location Name	Contractor Company				Designer Company						
Electric express train	Yousef Negida (1)				k.k						
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Shehab Hamdi		01/08/2023								
Contractor Reference	P.S.G YN(8)										
Received by ER			MAR	C1	C2	C3	DD	MM	YY	HH	MM
							01	8	2023		

The Following Test Result are Attached For Review

Description of Materials	Crushed stone (Prepared Subgrade) (A-1-a)			
Location of Stock	514+515			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	11.2 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	8.00 %	
6	ASTM D 1557	Modified proctor	2.21	
7	ASTM D 1883	CBR	89%	
8	AASHTO-T96	LA	28 %	
9	AASHTO-T85	Absorption	%3.8	
Comments by:			Comments by:	

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
QA/QC *	mohamed elbaz		1-8-2023	
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

 	Electric Express Train - HSR		 	
	From El Ain El Bohina City To El Alamein - MATROUH			
	Section - 7 From FORA TO MARS MATROUH			
From Station 504+000 To Station 508+177				

PROCTOR TEST (PREPARED SUBGRADE)

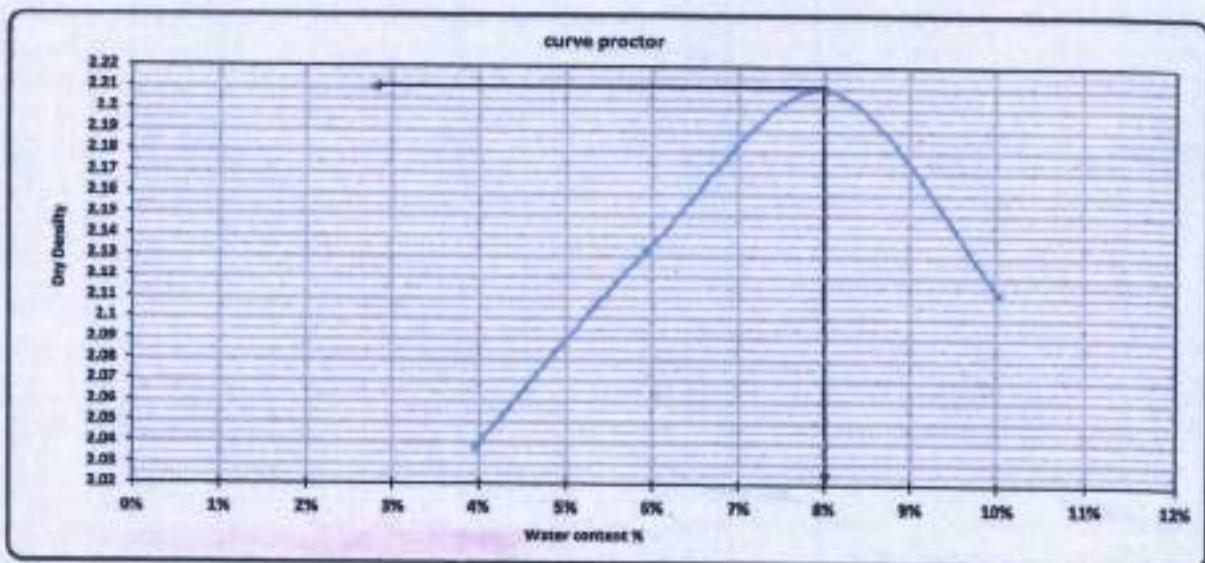
TESTING DATE:	31-7-2023	Code	zone	FROM	TO
LOCATION	K.P 514+515	Type(=)		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA 1				

Weight of empty mold :	5552.0
Mold Volume:	3125.0

MAX Dry Density	2.21
Water content %	8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10154.0	10456.0	10725.0	10591	
WT. WET SOIL	4502.0	4802.0	5073.0	4939.0	
Wt. Density	2.119	2.200	2.307	2.324	

Tare No.	7	19	13	17	15	40	31	32		
Tare wt.	42.2	44.1	53.6	53.2	36.9	46.2	88.7	82.7		
Wt. Of wet soil & tare	159.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0		
Wt. Of dry soil & tare	145.1	145.2	142.9	142.5	140.1	140.2	137.5	137.0		
Wt. Of water	4.9	4.8	7.1	7.5	9.9	9.8	12.5	13.2		
Wt. Of dry soil	123.0	123.0	123.0	123.0	123.0	123.0	123.0	123.0		
Water content %	4.0%	3.9%	5.8%	6.1%	8.1%	8.0%	10.2%	9.9%		
AV. Water content %	4.0%		5.9%		8.0%		10.4%			
Dry Density	2.070		2.133		2.216		2.113			



Contractor
Sahab Hamdi
شركة نجدة للمقاولات
المقاول المركزي
مشروع القطار السريع - مطروح

Consultant
mohamed elsaied
m. elsaied
1-8-2023

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد شاذلي	 Electric Express Train - HSR From El An El Sukhna City To El Alamein - MATROUH Section - 7 From FOXA To MARS MATROUH From Station 514+000 To Station 518+500	

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

PREPARED SUBGRADE

TESTING DATE:	31-7-2023	code	zone	FROM	TO
LOCATION	K.P 514+515	YH(P-5)		514+000	518+500
COMPANY NAME	YUSEF NEGIDA 1				

Weight of sample Before Test	—	gm
Weight of saturated -dry surface sample (B)	3769	gm
Weight of saturated sample in water (C)	2223	gm
Weight of dry sample after heating (A)	3620	gm

10005

Results:-

Bulk specific gravity = $A / (B-C)$	2.387	
Apparent specific gravity = $A / (A-C)$	2.591	
Absorption = $(B-A)/A$	3.840	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3602	28

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Shehab Hamdi

Sign :



Consultant Engineer

Name : mohamed elsaied

Sign :

m elsaied
1-8-2023

 	Electric Express Train - HSR	 
Clienting Lab:	Al. Naby Central Lab	

California Bearing Ratio TEST

		PREPARED SUBGRADE			
Testing Date :	01-08-2023	Curve	ZONE	FROM	TO
Location :	K.P 514+515	TYPE (B)		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA 1				

1. Test Results

Compaction % for Mold	
Mold No.	5
Mold Vol. (cm ³)	1000
Mold WT. (gm)	8047
Mold WT. + Wet WT. (gm)	12031
Wet WT. (gm)	4784
Wet Density (g/cm ³)	2.325
Dry Density (g/cm ³)	2.154
Proctor Density (g/cm ³)	2.210
Compaction %	97

Moisture Ratio After Compacted Mold	
Tare No.	21
Tare WT. (gm)	86.7
Tare WT. + Wet WT. (gm)	196.3
Tare WT. + Dry WT. (gm)	187.3
Water WT. (gm)	8.8
Dry WT. (gm)	187.3
Moisture Content %	7.8

Swelling	
Mold No.	5
Date	01-08-2023
Initial Height (mm)	9.08
Final Height (mm)	9.08
Difference	0
Sample Height (mm)	116.40
Swelling Ratio %	0.0%

Loading Reading :

Load (kN)	1.0	1.2	1.5	1.8	2.0	2.5	3.0	3.5	4.0
Load (kN)	1.8	2.4	3.7	4.3	18.7	13.4	14.2	17.7	19.7
Load (kN)	178.8	211.8	365.8	421.8	1871.8	1367.8	1471.8	1766.8	1917.8



Calculations :-

Penetration (mm)	Load (kN)	Standard Load (kN)	(%)	Mold - Compaction (%)	Compaction (%)	CBR
2.50	8.14	13.4	61.2%	97	98	61.2%
5.00	17.76	28.0	63.2%			63.2%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Shehab Hamed

Sign :



Civilian Engineer

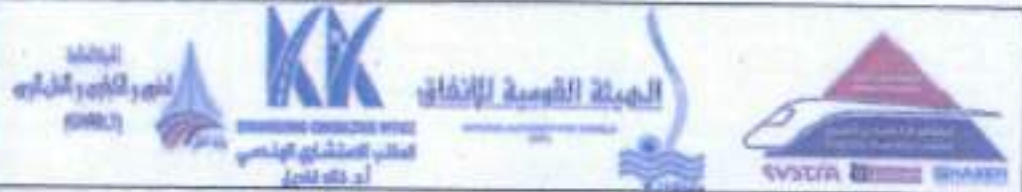
Name : mohamed elsaied

Sign :

m. elsaied

1-8-2023

MATERIAL INSPECTION REQUEST



Contractor Company	Yousef Negida (1)		Designer Company	
Issued by Contractor	Name Eng/Shehab Hamdi	Sign 	Date 31/7/2023	Time
Contractor Reference	P.S.G YN(7)			
Received by ER		MIR	DD 31	MM 7
			YY 2023	HH MM

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

Description of Materials	Curshed Stone P.S.G.7 Material Result		
Location to be Used	514+900	515+040	0.50+
	514+000	514+160	0.25+
	514+000	514+160	0.50+
	514+160	514+180	0.50+
	514+640	514+700	0.25+
	514+640	514+700	0.50+
	515+300	515+450	0.25+

MAR Approval No	P.S.G. YN(7)	Date	
Supplier Name			
Test Requirement	Specification	Clause	
Reference Photos	Yes attached / No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & P.L & O.M.C %	m3	5000	29-07-2023	
2	Proctor	m3	5000	30-07-2023	
3	Classification	m3	5000	29-07-2023	
4	Sieve Analysis	m3	5000	29-07-2023	
5	C.B.R	m3	5000	31-07-2023	
6	L.A & Absorption	m3	5000	30-07-2023	

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Shehab Hamdi			
QA/QC *	Mohamed elsaie		1-8-2023	
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges; Culvert Only

MATERIAL APPROVAL REQUEST

المجلس
التقني
للمواصلات
(GARB)



ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
للمواصلات

الهيئة العامة
للتنظيم
(SSTRA)



Location Name	Contractor Company				Designer Company						
Electric express train	Yousef Negida (1)				k.k						
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Shehab Hamdi		31/07/2023								
Contractor Reference	P.S.G YN(7)										
Received by ER			MAR	C1	C2	C3	DD	M	YY	HH	M
							31	7	2023		

The Following Test Result are Attached For Review				
Description of Materials	Crushed stone (Prepared Subgrade) (A-1-a)			
Location of Stock	514+515			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	11.8 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	8.05 %	
6	ASTM D 1557	Modified proctor	2.204	
7	ASTM D 1883	CBR	72 %	
8	AASHTO-T96	LA	29 %	
9	AASHTO-T85	Absorption	%3.6	
Comments by:			Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
QA/QC *	mohamed elsayed	m.elsayed	1-8-2023	
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges; Culvert only

 	Electric Express Train - HSR		
	From El Ain El Sotrina City To El Alamein - MATROUH		
	Section - 7 From FORA TO MARS MATROUH		
From Station 504+000 To station 505+177			

PROCTOR TEST (PREPARED SUBGRADE)

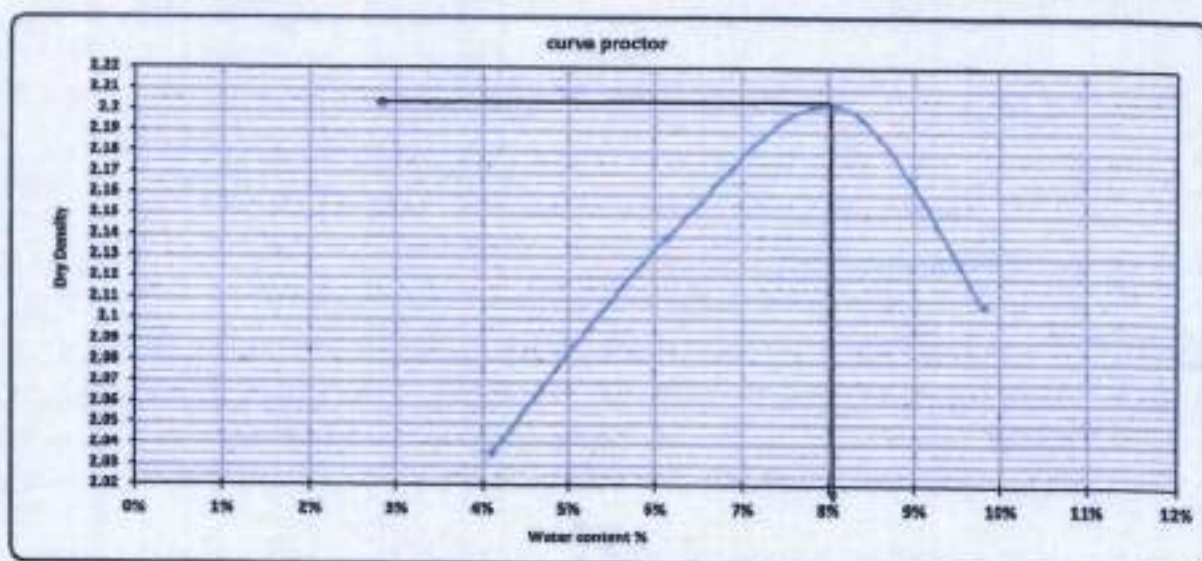
TESTING DATE:	30-7-2023	Grade	zone	FROM	TO
LOCATION	514+515	7000P-177		514+000	515+300
COMPANY NAME	YOUSEF NEGIDA 1				

Weight of empty mold :	5652.0
Mold Volume:	2135.0

MAX Dry Density	2.244
Water content %	8.35

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10155.0	10471.0	10713.0	10589	
WT. WET SOIL	4501.0	4815.0	5061.0	4917.0	
Wt. Density	2.119	2.271	2.382	2.314	

Tare No.	7	19	13	17	15	46	31	32		
Tare wt.	42.3	44.1	53.6	52.2	36.9	46.2	80.7	82.7		
Wt. Of wet soil & tare	138.0	150.0	158.0	150.0	159.0	156.0	158.0	158.0		
Wt. Of dry soil & tare	145.1	144.8	142.6	141.3	141.0	146.1	138.0	137.9		
Wt. Of water	4.9	5.2	7.4	7.7	10.0	9.9	12.0	12.2		
Wt. Of dry soil	123.0	123.0	123.0	123.0	123.0	123.0	123.0	123.0		
Water content %	4.8%	4.2%	6.8%	6.3%	8.1%	8.1%	9.8%	9.9%		
AV. Water content %	6.1%		6.1%		6.1%		9.3%			
Dry Density	2.035		2.139		2.203		2.167			



Contractor
Shehah Hamdi
شركة نجده والهندسة
د. محمد عبد الحليم
مركز
مشروع القطار السريع / طوكيو - مصر

Consultant
[Signature]

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي د. خالد غنيم	 Electric Express Train - HSR From El Ain El Solhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 514+000 To Station 518+177	 وزارة النقل Ministry of Transport

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

PREPARED SUBGRADE

TESTING DATE:	30-7-2023	code	zone	FROM	TO
LOCATION	514+515	YH(P-7)		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA 1				

Weight of sample Before Test	—	gm
Weight of saturated -dry surface sample (B)	3703	gm
Weight of saturated sample in water (C)	2196	gm
Weight of dry sample after heating (A)	3573	gm

10695

Results:-

Bulk specific gravity = $A / (B-C)$	2.371	
Apparent specific gravity = $A / (A-C)$	2.895	
Absorption = $(B-A)/A$	3.638	%

Los Angeles abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3588	29

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Shehab Hamdi

Sign :



Consultant Engineer

Name :

Sign :

 	Electric Express Train - HSR	 
Client: AL Naby Central Lab		

California Bearing Ratio TEST					
PREPARED SUBGRADE					
Testing Date: 31-7-2023	Code:	ZONE	FROM	TO	
Location: 514+515	TRIP-7		514+000	518+500	
COMPANY NAME: YOUSEF NEGIDA I					

Test Results

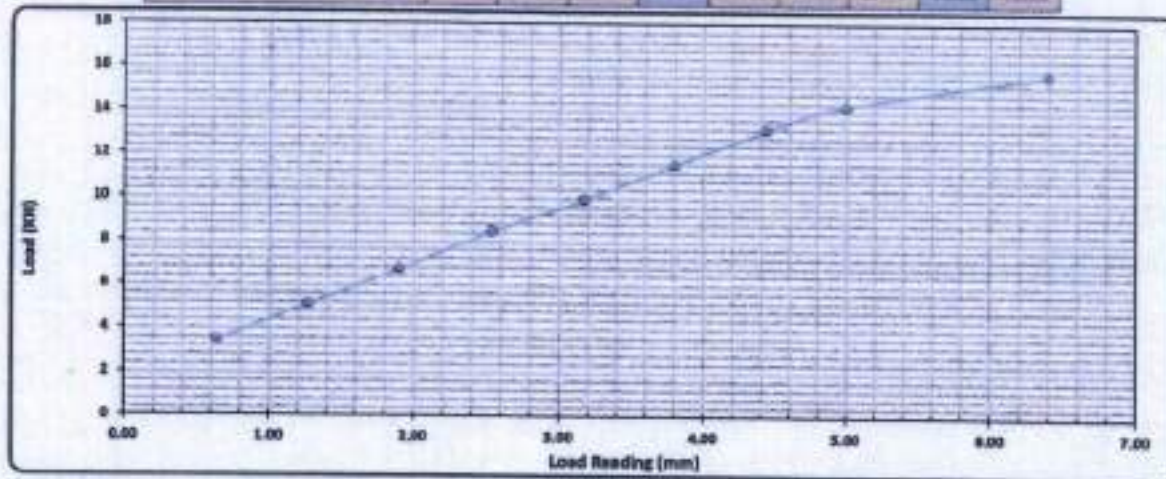
Compaction % for Mold	
Mold No.	1
Mold Vol. (cm ³)	2170
Mold WT. (gm)	7700
Mold WT. - Wet WT. (gm)	13000
Wet WT. (gm)	4900
Wet Density (g/cm ³)	2.300
Dry Density (g/cm ³)	2.139
Proctor Density (g/cm ³)	2.104
Compaction %	97

Moisture Ratio After Compacted Mold	
Tare No.	17
Tare WT. (gm)	23.2
Tare WT. + Wet WT. (gm)	179.6
Tare WT. + Dry WT. (gm)	176.6
Water WT. (gm)	9.4
Dry WT. (gm)	117.4
Moisture Content %	8.0

Swelling	
Mold No.	1
Date	31-7-2023
Initial Height (mm)	9.00
Final Height (mm)	9.00
Difference	0
Sample Height (mm)	116.40
Swelling Ratio %	0.0%

Loading Reading :

Load Reading (mm)	2.5	5.1	7.7	10.3	12.9	15.5	18.1	20.7	23.3	25.9
Load (KN)	3.5	7.1	10.7	14.3	17.9	21.5	25.1	28.7	32.3	35.9
Load (lb)	795.8	1591.6	2387.5	3183.4	3979.3	4775.2	5571.1	6367.0	7162.9	7958.8



Calculations :-

Penetration (mm)	Load (KN)	Standard Load (lb)	CBR (%)	Mold - Compaction (%)	Compaction (%)	CBR (%)
2.50	3.57	13.4	63.2%	97	98	64.2%
5.00	14.27	20.0	71.2%			72%

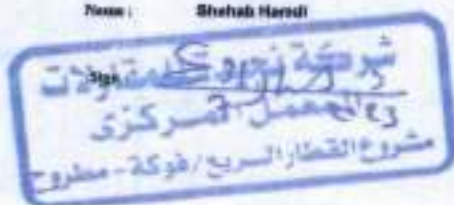
Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : **Shahab Harsuli**



Consultant Engineer

Name :

Sign :

(Handwritten signature)

MATERIAL INSPECTION REQUEST

الهيئة العامة
للحرق والطرق
(G.M.B.C.)



الهيئة العامة
للحرق والطرق
(G.A.H.B.)
الهيئة العامة
للحرق والطرق
(G.A.H.B.)
أدراكاً من
أدراكاً من

الهيئة العامة
للحرق والطرق
(G.A.H.B.)



Contractor Company	Yousef Negida (1)		Designer Company											
Issued by Contractor	Name	Sign	Date	Time										
	Eng/Shehab Hamdi		14/6/2023											
Contractor Reference	P.S.G YN(6)													
Received by ER		MIR	<table border="1"> <tr> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>14</td> <td>6</td> <td>2023</td> <td></td> <td></td> </tr> </table>	DD	MM	YY	HH	MM	14	6	2023			
DD	MM	YY	HH	MM										
14	6	2023												

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

Description of Materials	Curshed Stone P.S.G.6 Material Result				
Location to be Used	516+560	516+600	0.25+		
	516+560	516+600	0.50+		
	516+600	516+630	0.50+		
	516+630	516+800	0.50+		
	516+800	516+880	0.50+		
	516+880	516+940	0.50+		
MAR Approval No	P.S.G. YN(6)		Date		
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & P.L & O.M.C %	m3	5000	11-06-2023	
2	Proctor	m3	5000	12-06-2023	
3	Classification	m3	5000	11-06-2023	
4	Sieve Analysis	m3	5000	11-06-2023	
5	C.B.R	m3	5000	14-06-2023	
6	L.A & Absorption	m3	5000	13-06-2023	
Comments by:		Comments by:			
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Eng/ Shehab Hamdi				
QA/QC *	Yousef Rafab				
GARB**					
Employers Representative					

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST

المجلس
القومي
للبنية التحتية
(AWE)



KK
ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
ل.م. خالد كندل

الهيئة العامة
للبنية التحتية
AWE



Location Name	Contractor Company			Designer Company		
Electric express train	Yousef Negida (1)			k.k		
Issued by Contractor	Name	Sign	Date	Time		
	Eng/Shehab Hamdi		14/06/2023			
Contractor Reference	P.S.G YN(6)					
Received by ER			MAR	CS	CF	CC
				DD	M	YY
				14	6	2023

The Following Test Result are Attached For Review				
Description of Materials	Crushed stone (Prepared Subgrade) (A-1-a)			
Location of Stock	514+515			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	12.7 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.8 %	
6	ASTM D 1557	Modified proctor	2.198	
7	ASTM D 1883	CBR	73.6 %	
8	AASHTO-T96	LA	32 %	
9	AASHTO-T85	Absorption	%4.9	
Comments by:			Comments by:	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
QA/QC *	Youssef Rafeb	Youssef Rafeb		
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

 KARAMA كرامة شركة توريد المواد للمباني والمنشآت	Electric Express Train - HSR From El Ain El Bokhra City To El Alamein - MATROUH Section - 7 From FOKA To WARSA MATROUH From Station 504+000 To Station 518+177	 وزارة النقل والاعمال الاقتصادية
	Operating Lab Negida Central Lab	
	PARTICLE SIZE DISTRIBUTION OF PREPARED SUBGRADE	

TESTING DATE:	11-6-2023	Code	Zone	FROM STATION	TO STAT
LOCATION	KP 514+515	TN(P-01)		514+000	518+500
NAME COMPANY	YUSEF NEGIDA 1				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		49447.00		gm	Table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	Soft Classify	A-1-a
Mass retained (g)	186.0	1649.0	9400.0	4378.0	5371.0	3232.0	7132.0		PRO	2.200
Cumulative Retained (g)	186.0	1626.0	11226.0	15604.0	20975.0	24207.0	31339.0		WC	7.80
Cumulative Retained %	0.4	3.7	22.7	31.6	42.4	49.0	63.4		CBR	73.70%
Cumulative Passing %	99.6	96.3	77.3	68.4	57.6	51.0	36.6		Los Angeles	32
									Absorption	4.381

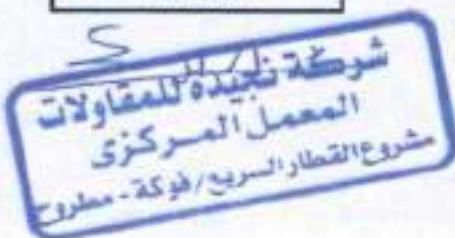
B-soft material gradation				WT.OF sample		306.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	78.00	188.00	327.00					
Cumulative Retained %	15.60	37.60	65.40					
Cumulative Passing %	84.40	62.40	34.60					

C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	99.6	96.3	77.3	68.4	57.6	51.0	36.6	30.8	22.9	12.7
SPECIFICATION	—	97	—	70 — 75	—	15 — 40	—	0 — 35	—	0 — 12

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

Contractor

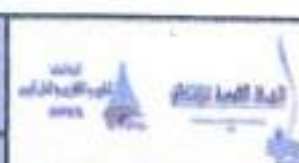
Consultant



Youssef Ragab



Electric Express Train - HSR
From El Ain El Sokhna City To El Alamein - MATROUH
Section - 7 From FOKA TO MARSA MATROUH
From Station 514+000 To Station 518+117



PROCTOR TEST (PREPARED SUBGRADE)

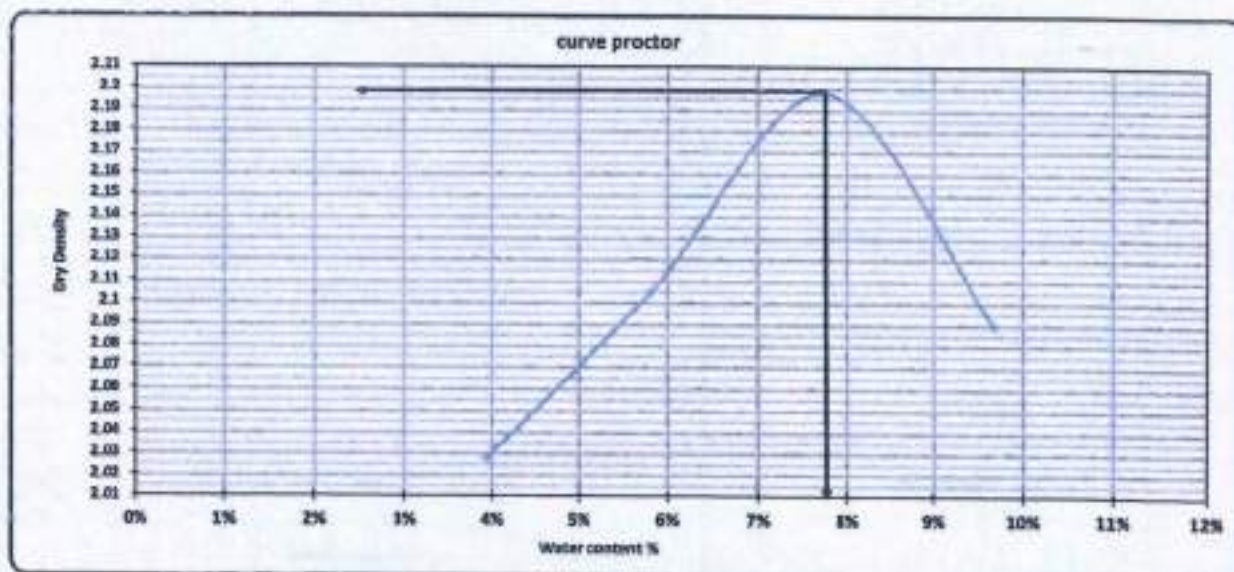
TESTING DATE:	12-6-2023	Code		FROM	TO
LOCATION	514+515	TNIP-6	Zone	514+000	518+500
NAME COMPANY	YUSEF NEGIDA 1				

Weight of empty mold :	5552.0
Mold Volume:	2125.0

MAX Dry Density	2.298
Water content %	7.8

trial no :	1	2	3	4	
Wt. Of Mold+ wet soil	10132.0	10385.0	10685.0	10523	
WT. WET SOIL	4480.0	4733.0	5033.0	4871.0	
Wt. Density	2.108	2.227	2.368	2.292	

Tare No.	7	19	13	17	15	40	31	32		
Tare wt.	42.2	44.1	53.6	53.2	30.9	46.2	80.7	82.7		
Wt. Of wet soil & tare	150.0	158.0	190.0	190.0	150.0	158.0	158.0	150.0		
Wt. Of dry soil & tare	145.2	145.1	142.9	142.8	140.5	140.4	138.2	138.0		
Wt. Of water	4.8	4.9	7.1	7.2	9.5	9.6	11.8	12.0		
Wt. Of dry soil	123.0	123.0	123.0	123.0	123.0	123.0	123.0	123.0		
Water content %	3.9%	4.0%	5.8%	5.9%	7.7%	7.8%	9.6%	9.8%		
AV. Water content %	3.9%		5.8%		7.8%		9.7%			
Dry Density	2.018		2.105		2.198		2.090			



Contractor

شركة نجيدة للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

Consultant

Youssef Ragab

California Bearing Ratio TEST

		PREPARED SUBGRADE			
Testing Date :	13/6/2023	Code	ZONE	FROM	TO
Location :	514+515	YN(P-6)		514+000	518+500
Company Name	YOUSEF NEGIDA 1				

Test Results

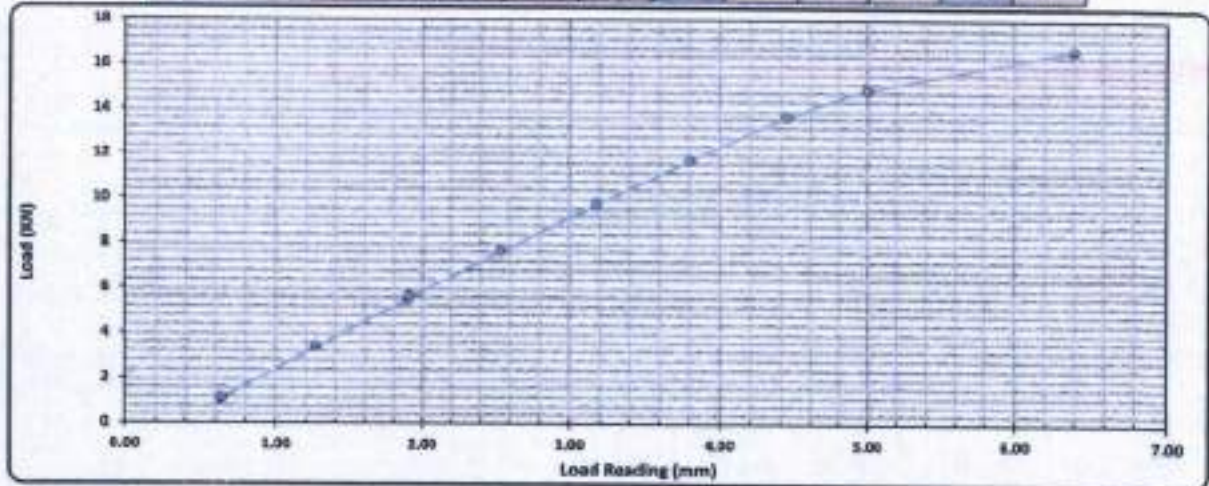
Compaction % for Mold	
Mold No.	4
Mold Vol.(cm ³)	1000
Mold WT. (gm)	3078
Mold WT. + Wet WT. (gm)	12940
Wet WT. (gm)	4916
Wet Density (g/cm ³)	1.352
Dry Density (g/cm ³)	1.179
Proctor Density (g/cm ³)	1.196
Compaction %	99

Moisture Ratio After Compacted Mold	
Tare No.	15
Tare WT. (gm)	50.9
Tare WT. + Wet WT. (gm)	186.81
Tare WT. + Dry WT. (gm)	175.2
Water WT. (gm)	11.4
Dry WT. (gm)	144.3
Moisture Content %	7.9

Swelling	
Mold No.	4
Date	13/6/2023
Total Height (mm)	0.00
Final Height (mm)	0.00
Difference	0
Sample Height (mm)	116.48
Swelling Ratio %	0.0%

Loading Reading :

Load Reading (mm)	0.04	0.37	1.91	2.30	3.36	5.00	6.25	8.00	9.00
Load (kN)	1.3	3.4	5.8	7.1	9.8	11.2	12.7	14.9	16.7
Load (kPa)	117.8	302.8	514.8	623.8	885.8	1005.8	1125.8	1322.8	1518.8



Calculations :-

Penetration (mm)	Load (kN)	Standard Load (lb)	Ratio	Mold - Compaction (%)	Compaction (%)	CBR
2.50	7.07	13.4	27.2%	99	99	99.8%
5.00	14.91	20.0	74.5%			73.6%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

شركة نجيدة للمقاولات
المعمل المركزي
شروع القطار السريع / فوكة - مطروح

Consultant Engineer

Name :

Sign :

Youssef Raghib

 ENGINEERING CONSULTANTS OFFICE المكتب الاستشاري الهندسي أ.د. خالد كركيل	 Water & Power	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 518+177

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

PREPARED SUBGRADE

TESTING DATE:	13-6-2023	code	zone	FROM	TO
LOCATION	514+515	TN(P-6)		514+000	518+500
NAME COMPANY	YOUSEF NEGIDA 1				

Weight of sample Before Test	—	gm
Weight of saturated -dry surface sample (B)	5099	gm
Weight of saturated sample in water (C)	3034	gm
Weight of dry sample after heating (A)	4858	gm

Results:-

Bulk specific gravity = $A / (B-C)$	2.341	
Apparent specific gravity = $A / (A-C)$	2.549	
Absorbition = $(B-A)/A$	4.961	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3417	32

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :



Consultant Engineer

Name :

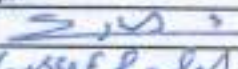
Sign :

Yousef Negida

MATERIAL INSPECTION REQUEST				
	الهيئة العامة للقنوات القناة السويسية سلطة ميناء القناة			

Contractor Company	Yousef Negida (1)		Designer Company																	
Issued by Contractor	Name	Sign	Date	Time																
	Eng/Shehab Hamdi		17/5/2023																	
Contractor Reference	P.S.G.1 YN(5)																			
Received by ER		MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DO</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>17</td> <td>5</td> <td>2023</td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DO	MM	YY	HH	MM				17	5	2023			
C1	C2	C3	DO	MM	YY	HH	MM													
			17	5	2023															

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

Description of Materials	Curshed Stone P.S.G.5 Material Result				
Location to be Used	517+640 ---517+860	0.50+			
	514+500 ---514+640	0.50+			
	516+300 ---516+350	0.50+			
	516+350 ---516+480	0.50+			
	516+480 ---516+560	0.50+			
	514+700 ---514+800	0.50+			
	514+800 ---514+900	0.50+			
MAR Approval No	P.S.G.1 YN(5)		Date		
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & P.L & O.M.C %	m3	5000	14-05-2023	
2	Proctor	m3	5000	15-05-2023	
3	Classification	m3	5000	14-05-2023	
4	Sieve Analysis	m3	5000	14-05-2023	
5	C.B.R	m3	5000	17-05-2023	
6	LA & Absorption	m3	5000	16-05-2023	
Comments by:			Comments by:		
APPROVAL STATUS					
Organisation	Name	Sign	Date	A-AWC-R	
Contractor	Eng/ Shehab Hamdi				
QA/QC *	Youssef Ragab	Youssef Ragab			
GARB**					
Employers Representative					

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST

المجلس
للمواد والبنية التحتية
(GARBT)



KK
ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد خليل

الهيئة القومية للإسكان
مجلس الإسكان
KUSA



Location Name	Contractor Company			Designer Company		
Electric express train	Yousef Negida (1)			k.k		
Issued by Contractor	Name	Sign	Date	Time		
	Eng/Shehab Hamdi		17/05/2023			
Contractor Reference	P.S.G YN(5)					
Received by ER			MAR	☐	☐	☐
				DD	M	YY
				17	5	2023
				HH	M	M

The Following Test Result are Attached For Review

Description of Materials	Prepared Subgrade (A-1-a)			
Location to be Used	514+515			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	11.2 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	7.4 %	
6	ASTM D 1557	Modified proctor	2.185	
7	ASTM D 1883	CBR	83.9 %	
8	AASHTO-T96	L.A	30 %	
9	AASHTO-T85	Absorption	%4.178	
Comments by:			Comments by:	

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
QA/QC *	Youssef Raafab	Youssef Raafab		
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

 	Electric Express Train - HSR		 
	From El Ain El Solhna City To El Alamein - MATROUH		
	Section - 7 From FOKA TO MARSA MATROUH		
From Station 504+900 To Station 558+177			

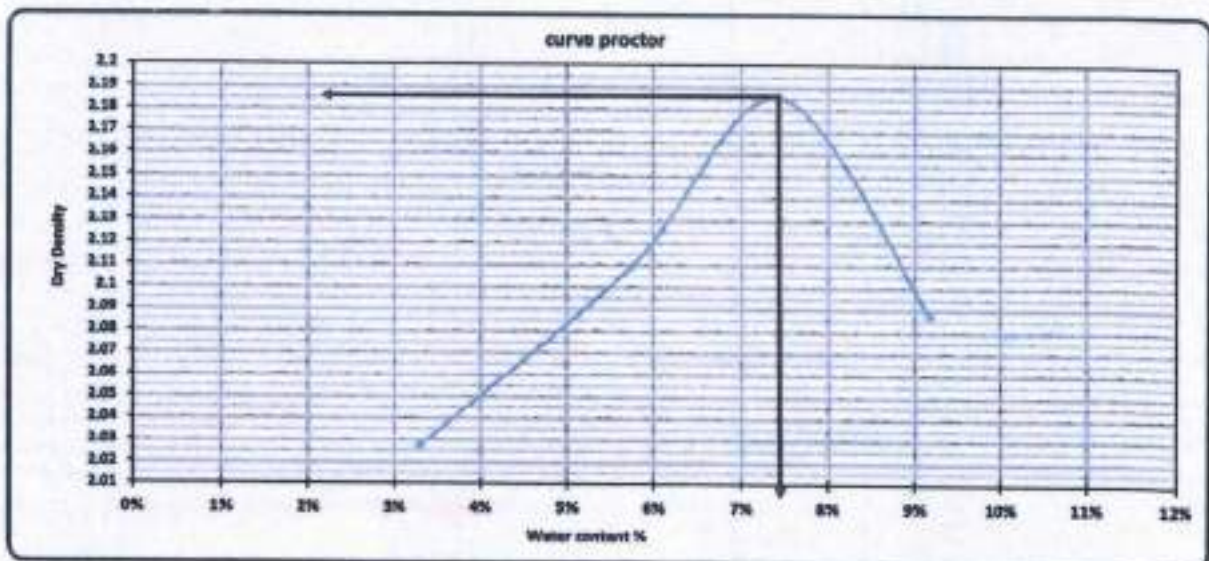
PROCTOR TEST (PREPARED SUBGRADE)

TESTING DATE:	15-5-2023	Code	zone	FROM	TO
LOCATION	514+515	Yus(P-d)		514+000	518+500
NAME COMPANY	YOUSEF NEGIDA 1				

Weight of empty mold :	5652.8	MAX Dry Density	2.185
Mold Volume:	2125.0	Water content %	7.4

trial no :	1	2	3	4	
Wt. Of Mold + wet soil	10102.0	10392.0	10642.0	10495	
WT. WET SOIL	4450.0	4740.0	4990.0	4843.0	
Wt. Density	2.094	2.231	2.348	2.279	

Tare No.	7	19	13	17	15	46	31	32		
Tare wt.	42.2	44.1	51.6	53.2	30.9	46.2	80.7	82.7		
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	146.0	145.9	143.0	142.9	140.8	140.9	138.9	138.5		
Wt. Of water	4.0	4.1	7.0	7.1	9.2	9.1	11.1	11.5		
Wt. Of dry soil	113.0	113.0	123.0	123.0	123.0	123.0	123.0	123.0		
Water content %	3.3%	3.3%	5.7%	5.8%	7.5%	7.4%	9.0%	9.3%		
AV. Water content %	3.3%		5.7%		7.4%		9.1%			
Dry Density	2.027		2.110		2.186		2.080			



Contractor

شركة نهجيدة للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكا - مطروح

Consultant

Youssef Ragab

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي ا.د. خالد قنديل		Electric Express Train - HSR From El Ain El Solihna City To El Akmah - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 504+000 To Station 568+177		

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

PREPARED SUBGRADE

TESTING DATE:	16-5-2023	code	zone	FROM	TO
LOCATION	514+515	YH(P-S)		514+000	518+500
NAME COMPANY	YOUSEF NEGIDA 1				

Weight of sample		gm
Weight of saturated -dry surface sample (B)	4438	gm
Weight of saturated sample in water (C)	2938	gm
Weight of dry sample after heating (A)	4260	gm

Results:-

Bulk specific gravity = $A / (B-C)$	2.354	
Apparent specific gravity = $A / (A-C)$	2.610	
Absorption = $(B-A)/A$	4.178	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3484	30

Lab. Specialist

Name :

Sign :

Lab. Engineer

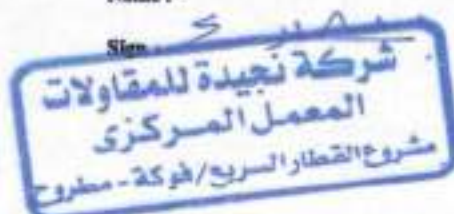
Name :

Sign :

Consultant Engineer

Name :

Sign :





Operating Lab	AL Ruby Central Lab
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California Bearing Ratio TEST

PREPARED SUBGRADE

Testing Date :	17/5/2023	Code	ZONE	FROM	TO
Location :	514+515	YN(P-8)		514+000	518+500
Company Name	YOUSEF NEGIDA 1				

• Test Results

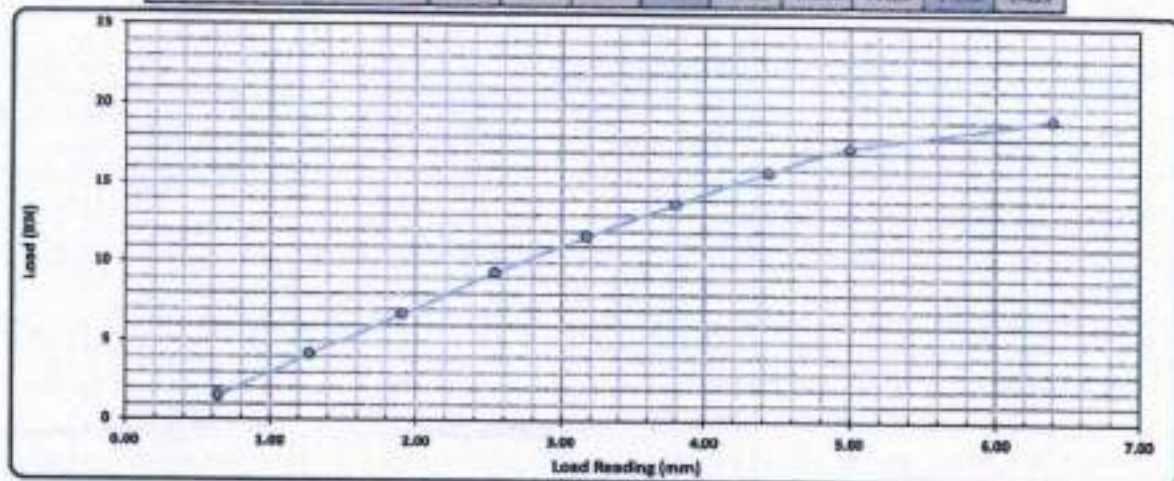
Compaction % for Mold	
Mold No.	3
Mold Vol. (cm ³)	2163
Mold WT. (gm)	3009
Mold WT. + Wat. WT. (gm)	31025
Wat. WT. (gm)	4826
Wat. Density (g/cm ³)	3.205
Dry Density (g/cm ³)	3.141
Proctor Density (g/cm ³)	3.185
Compaction %	99.0

Test No.	25
Tare WT. (gm)	21.5
Tare WT. + Wet WT. (gm)	129
Tare WT. + Dry WT. (gm)	142.2
Water WT. (gm)	7.5
Dry WT. (gm)	119.2
Moisture Content %	7.2

Swelling	
Mold No.	2
Date	17/5/2023
Initial Height (mm)	0.04
Final Height (mm)	0.04
Difference	0
Sample Height (mm)	(20.60)
Swelling Ratio %	0.0%

Loading Reading:

Lead Breeding Count	6.40	5.27	5.91	5.26	5.33	5.80	6.45	5.89	6.40
Lead (BPO)	1.5	6.2	6.7	5.4	11.7	13.3	15.8	17.3	19.2
Lead (BGO)	189.8	425.4	405.2	395.6	1195.8	1488.0	1615.0	1740.0	1863.1



Calculations 1.

Penetration	Load	Standard Load	CRB	Mold - Composites	Composites	CRB
(mm)	(Kg)	(lb)	(%)	(%)	(%)	95 نسبة الى %
2.50	8.36	13.4	78.1 %	98.0	96	68.0%
5.60	17.34	20.6	96.0%			83.9%

Lab. Specialist

Summary

Figure 2

Lab. Engineer

Methods

شركة لجيدة للمقاولات
المعمل المركزي
مشروع: القطار السريع / فوكة - مطروح

Consultant Engineer

Phase 2:

Signs :

MATERIAL INSPECTION REQUEST

الهيئة العامة
للحرق والكمبوست
(GARBL)



ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. فهد شبيب

الهيئة القومية للإسكان
القومية للإسكان
QATAR NATIONAL
HABITAT AUTHORITY



Contractor Company	YUSEF NEGIDA			Designer Company					
Issued by Contractor	Name	Sign	Date	Time					
	Eng/Shehab Hamdi	<i>[Signature]</i>	24-10-2023						
Contractor Reference	YN-SUB 9								
Received by ER			MIR	CS	DD	MM	YY	HH	MM
					24	10	2023		

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

Description of Materials	Curshed Stone SUB-Ballast Material Result		
Location to be Used	516+640	516+760	0.90+
	516+760	516+890	0.90+
	516+890	517+020	0.90+
	517+020	517+100	0.90+
	517+100	517+160	0.90+
	517+640	517+680	0.90+
	517+680	517+850	0.90+

MAR Approval No	YN-SUB 9	Date	
Supplier Name			
Test Requirement		Specification	Clause
Reference Photos	Yes attached / No	Other	

Item	Description	Unit	Quantity	Arrival Date	Note
1	L.I & P.L & O.M.C %	m3	5000	22-10-2023	
2	Proctor	m3	5000	23-10-2023	
3	Classification	m3	5000	22-10-2023	
4	Sieve Analysis	m3	5000	22-10-2023	
5	C.B.R	m3	5000	24-10-2023	
6	L.A	m3	5000	24-10-2023	

Comments by:	Comments by:

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

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST

المركبة
والقارورة والبالون
(GARBL)



ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قانديل

الهيئة القومية للإنتاج



Location Name	Contractor Company				Designer Company						
Electric express train	YOUSEF NEGIDA				k.k						
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Shehab Hamdi		24-10-2023								
Contractor Reference	YN-SUB 9										
Received by ER			MAR	C1	C2	C3	DD	M M	YY	HH	M M
							24	10	2023		

The Following Test Result are Attached For Review

Description of Materials	SUB -BALLAST (A-1-a)			
Location to be Used	517+600			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	5.9 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	6.3 %	
6	ASTM D 1557	Modified proctor	2.259	
7	ASTM D 1883	CBR	91.6%	
8	AASHTO-T96	L.A	21 %	
Comments by:			Comments by:	

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
QA/QC *	Ahmed Abo Zeid			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

 K.K. KORDA KORDA KORDA KORDA كورد كورد كورد	 SCA قناة السويس SUEZ CANAL AUTHORITY	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	 SCA قناة السويس SUEZ CANAL AUTHORITY
Operating Lab	Negida Central Lab		

PARTICLE SIZE DISTRIBUTION OF SUB-BALLAST

TESTING DATE	22-10-2023	Code	Zone	FROM STATION	TO STATION
LOCATION	K.P 517+000	YN1-SUB 9		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA				
MATERIALS	SUB-BALLAST				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		53457.00		gm	Table classify	
sieve size	2	1.5	1	4/3	3/1	8/3	# 4	PASS	Soil Classify	A-1-e
Mass retained (g)	0.0	1401.3	4653.0	9571.0	5056.0	7400.3	4319.0		PRO	1.259
Cumulative Retained (g)	0.0	1401.3	6054.0	15625.0	20681.0	28081.0	32400.0		WC	6.30
Cumulative Retained %	0.0	2.6	11.3	29.2	38.7	52.5	60.6		CBR	91.6%
Cumulative Passing %	100.0	97.4	88.7	70.8	61.3	47.5	39.4		Los Angeles	21
									Absorption	1.677
									SP.Gravity	2.505

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	113.00	336.00	425.00					
Cumulative Retained %	22.60	67.20	85.00					
Cumulative Passing %	77.40	32.80	15.00					

C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	97.4	88.7	70.8	61.3	47.5	39.4	30.5	12.8	6.8
SPECIFICATION	—	97	—	70 — 75	—	15 — 20	—	0 — 35	—	0 — 7

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

Contractor
 شركة انجيد
 Shohab Hamdi
 المعمل المركزي
 مشروع القطار السريع فوكا - مرقو
 مرقو

Consultant
 24/10/2023



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



PROCTOR TEST (SUB-BALLAST)

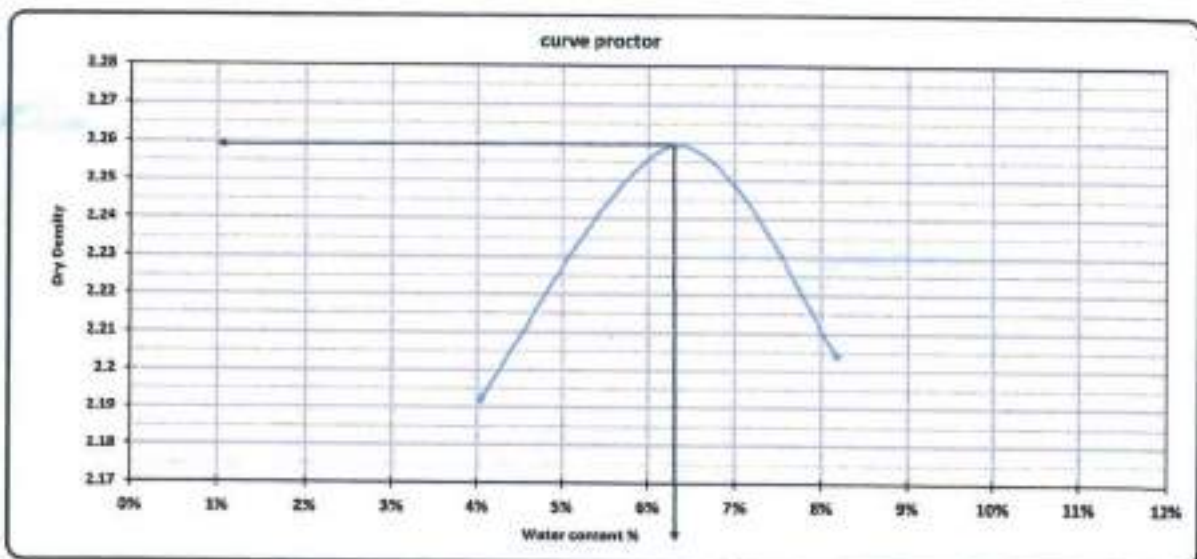
TESTING DATE:	23-10-2023	Code	zone	FROM	TO
LOCATION	K.P 517+600	YH1-SUB 9		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA				

Weight of empty mold :	5861.0
Mold Volume:	2118.0

MAX Dry Density	2.259
Water content %	6.3

trial no :	1	1	1		
Wt. Of Mold+ wet soil	10922.8	10948.0	10911.8		
Wt. WET SOIL	4831.0	5087.0	5050.0		
Wt. Density	2.281	2.402	2.384		

Tare No.	7	19	13	17	15	40				
Tare wt.	42.2	44.1	53.6	53.2	54.9	46.2				
Wt. Of wet soil & tare	150.0	150.8	150.8	150.0	150.0	150.0				
Wt. Of dry soil & tare	145.09	145.06	142.30	142.17	139.98	139.98				
Wt. Of water	5.8	4.9	7.7	7.8	10.0	10.1				
Wt. Of dry soil	123.0	123.0	123.0	123.0	123.0	123.0				
Water content %	4.1%	4.0%	6.3%	6.4%	8.1%	8.2%				
AV. Water content %	4.0%		6.3%		8.2%					
Dry Density	2.192		2.289		2.284					



Contractor
 شركة نجمة الشرق
 المعمل المركزي
 مشروع القطار السريع - طنجة - مطروح

Consultant
 24/10/2023

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد شندويل	 م.د. محمد عبد الله م.د. محمد عبد الله	Electric Express Train - HSR	 م.د. محمد عبد الله م.د. محمد عبد الله
		From El Ain El Sokhra City To El Alamein - MATROUH	
		Section - 7 From FOKA To MARSA MATROUH	

From Station 504+000 To Station 518+177

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

SUB-BALLAST

TESTING DATE:	24-10-2023	code	zone	FROM	TO
LOCATION	K.P 517+600	YN1-SUB 9		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA				

Weight of sample Before Test	—	gm
Weight of saturated -dry surface sample (B)	4002	gm
Weight of saturated sample in water (C)	2433	gm
Weight of dry sample after heating (A)	3936	gm

Results:-

Bulk specific gravity = $A / (B-C)$	2.509	
Apparent specific gravity = $A / (A-C)$	2.619	
Absorption = $(B-A)/A$	1.677	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3929	21

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Shehab Hamdi

شركة نهج للمقاولات
المعمل المركزي
شرق القطار السريع / فوكة - مطروح

Consultant Engineer

Name :

Sign :

24/10/2023

 K.K. Karama شركة كراما للمقاولات كراما - مصر	Electric Express Train - HSR	 الهيئة العامة للمواصلات - مصر
Spreading Lab Mayda Central Lab		

California Bearing Ratio TEST

		SUB-BALLAST			
Testing Date :	24-10-2023	Code	ZONE	FROM	TO
Location :	K.P 517+600	YN1-SUB B		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA				

1. Test Results

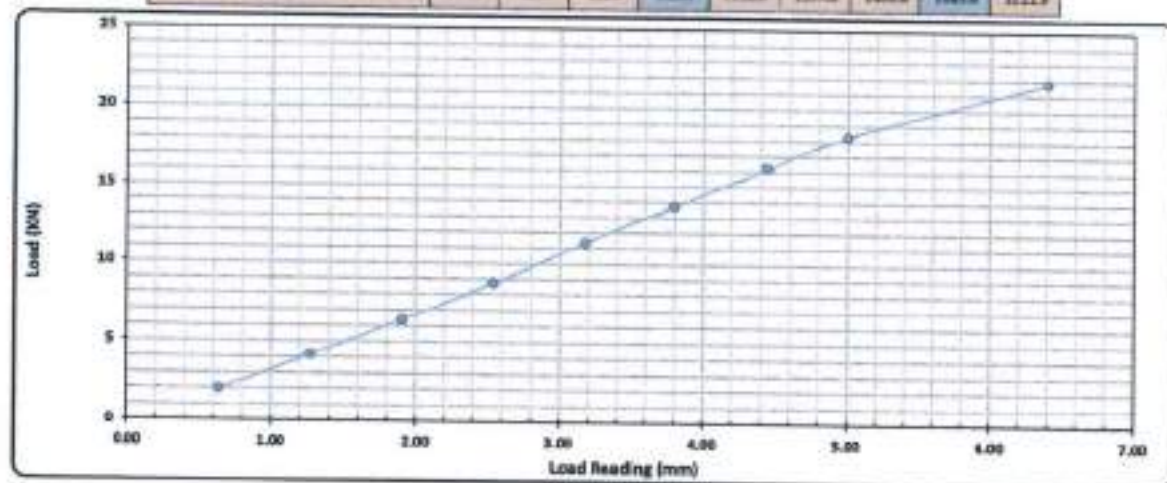
Compaction % for Mold	
Mold No.	3
Mold Vol. (cm ³)	1133
Mold WT. (gm)	8218
Mold WT. + Wet WT. (gm)	13310
Wet WT. (gm)	5100
Wet Density (g/cm ³)	2.391
Dry Density (g/cm ³)	1.852
Proctor Density (g/cm ³)	1.258
Compaction %	100

Moisture Ratio After Compacted Mold	
Tare No.	13
Tare WT. (gm)	33.4
Tare WT. + Wet WT. (gm)	269
Tare WT. + Dry WT. (gm)	248
Water WT. (gm)	21.8
Dry WT. (gm)	1944
Moisture Content %	10.2

Swelling	
Mold No.	3
Date	24-10-2023
Initial Height (mm)	13.80
Final Height (mm)	13.80
Distance	0
Sample Height (mm)	116.40
Swelling Ratio %	0.0%

Loading Reading :

Load Reading (mm)	0.00	1.27	1.91	2.54	3.18	3.81	4.45	5.08	5.72
Load (KN)	2.0	4.2	6.4	8.7	11.2	13.7	16.2	18.7	21.8
Load (KOG)	201.8	423.8	652.8	885.0	1138.8	1399.8	1654.8	1915.0	2223.8



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(KN)	(kg)	(%)	(%)	(%)	(%)
2.50	8.70	13.4	85.2%	100	100	65.4%
5.00	16.28	25.0	91.1%			91.6%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Shohab Hamdi

شركة نجيدة للمقاولات
 ١٠٠٠
 شارع المطار السريع - هوكة - مطروح

Consulting Engineer

Name :

Sign :

MATERIAL INSPECTION REQUEST



Contractor Company	YOUSSEF NEGIDA			Designer Company							
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Shehab Hamdi	<i>[Signature]</i>	16-10-2023								
Contractor Reference	YN-SUB 8										
Received by ER			MIR	C1	C2	C3	DD	MM	YY	HH	MM
							16	10	2023		

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

Description of Materials	Curshed Stone SUB-Ballast Material Result		
Location to be Used	514+800	515+000	0.90+
	515+000	515+160	0.90+
	515+160	515+320	0.90+
	515+450	515+600	0.90+
	515+600	515+700	0.90+
	516+000	516+100	0.90+
	516+100	516+220	0.90+
	516+220	516+360	0.90+
	516+360	516+490	0.90+
	516+490	516+640	0.90+
	515+870	516+000	0.90+

MAR Approval No	YN-SUB 8		Date	
Supplier Name				
Test Requirement	Specification		Clause	
Reference Photos	Yes attached / No	Other		

Item	Description	Unit	Quantity	Arrival Date	Note
1	L.L & P.L & O.M.C %	m3	5000	14-10-2023	
2	Proctor	m3	5000	15-10-2023	
3	Classification	m3	5000	14-10-2023	
4	Sieve Analysis	m3	5000	14-10-2023	
5	C.B.R	m3	5000	16-10-2023	
6	L.A	m3	5000	15-10-2023	

Comments by:	Comments by:

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

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST

المواد
للمسار والكراب
(SUBT)



KK
ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ.د. خالد قنديل

الهيئة القومية للإسكان
القاهرة



Location Name	Contractor Company				Designer Company			
Electric express train	YUSEF NEGIDA				k.k			
Issued by Contractor	Name	Sign	Date	Time				
	Eng/Shehab Hamdi		16-10-2023					
Contractor Reference	YN-SUB 8							
Received by ER			MAR	DD	MM	YY	HH	MM
				16	10	2023		

The Following Test Result are Attached For Review

Description of Materials	SUB -BALLAST (A-1-a)			
Location to be Used	517+600			
Item	Specification	Test requirement	Test result attachment	Remarks
1	ASTM D 75	Aggregate Sampling	According to specifications	
2	ASTM C 136	Sieve Analysis	According to specifications	
3	ASTM D 1440	Passing Sieve, No 200	5.2 %	
4	ASTM D 4318	Atterberg limit	N.P	
5	ASTM D 2974	Moisture content	6.1 %	
6	ASTM D 1557	Modified proctor	2.219	
7	ASTM D 1883	CBR	104.9%	
8	AASHTO-T96	LA	20 %	
Comments by:			Comments by:	

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
QA/QC *	Abdallah Shamy			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

	Electric Express Train - HSR From El Ain El Solhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 514+000 To Station 518+177		
	Testing Lab	Negida Central Lab	

PARTICLE SIZE DISTRIBUTION OF SUB-BALLAST

TESTING DATE:	14-10-2023	Code	Zone	FROM STATION	TO STATION
LOCATION	K.P 517+600	YN1-SUB 8		514+000	518+500
COMPANY NAME	YUSEF NEGIDA				
MATERIALS	SUB-BALLAST				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		50106.00		gm	Table classify	
sieve size	2	1.5	1	4/3	2/1	3/3	# 4	PASS	Soil Classify	A-1-a
Mass retained (g)	0.0	799.0	4634.0	9147.0	4565.0	4711.0	4784.0		PRO	2.219
Cumulative Retained (g)	0.0	799.0	5433.0	14580.0	19145.0	23856.0	28640.0		WC	6.10
Cumulative Retained %	0.0	1.6	10.8	29.1	38.2	47.6	57.2		CBR	104.7%
Cumulative Passing %	100.0	98.4	89.2	70.9	61.8	52.4	42.8		Los Angeles	30
									Absorption	2.283
									SP.Gravity	2.816

B-soft material gradation				WT.OF sample		500.00		gm
sieve size	10	40	200					
Cumulative Retained (g)	122.00	372.00	439.00					
Cumulative Retained %	24.40	74.40	87.80					
Cumulative Passing %	75.60	25.60	12.20					

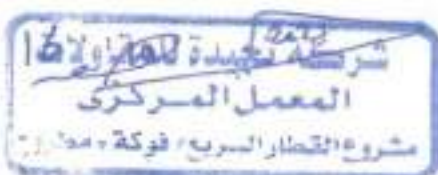
C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	98.4	89.2	79.9	61.8	52.4	42.8	32.4	11.9	5.2
SPECIFICATION	—	97	—	70 — 75	—	15 — 80	—	0 — 35	—	8 — 7

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

Contractor

Shehab Hamdi

Consultant



Handwritten signature



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



PROCTOR TEST (SUB-BALLAST)

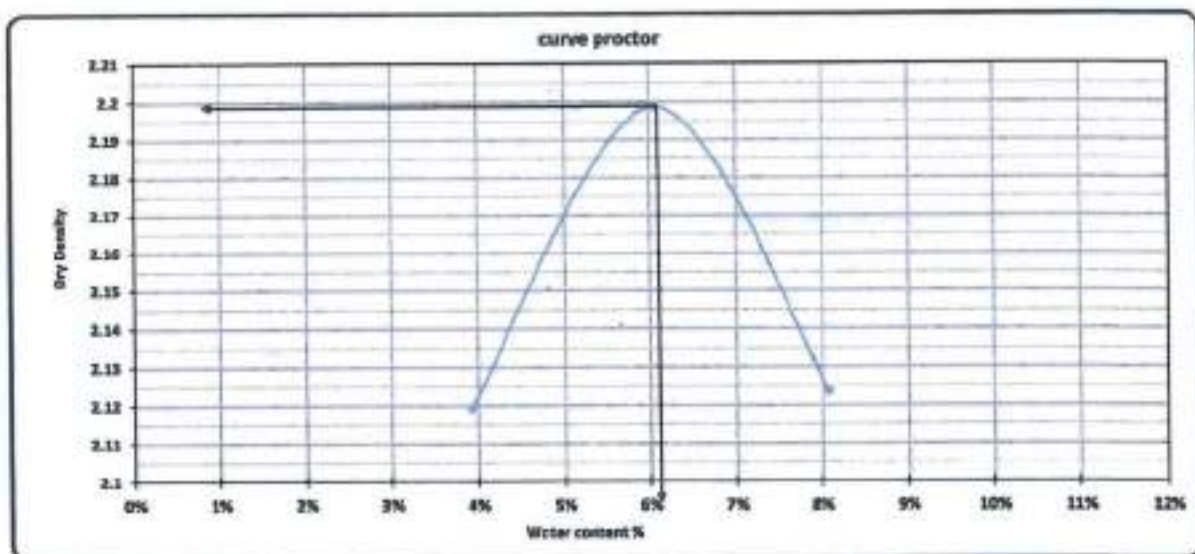
TESTING DATE	15-10-2023	Code	zone	FROM	TO
LOCATION	KP 817+000	YN1-SUB 8		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA				

Weight of empty mold :	5147.6
Mold Volume:	2115.0

MAX Dry Density	2.219
Water content %	6.1

trial no :	1	2	3		
Wt. Of Mold+ wet soil	10405.0	10679.0	10681.0		
WT. WET SOIL	4658.0	4932.0	4854.8		
Wt. Density	2.382	2.332	2.295		

Tare No.	7	19	13	17	15	48			
Tare wt.	42.2	44.1	53.6	53.2	30.9	44.2			
Wt. Of wet soil & tare	150.0	150.0	150.0	150.0	150.0	150.0			
Wt. Of dry soil & tare	145.11	145.24	142.47	142.65	144.12	146.02			
Wt. Of water	4.9	4.8	7.5	7.3	9.9	16.0			
Wt. Of dry soil	123.0	123.0	123.0	123.0	123.0	123.0			
Water content %	4.0%	3.9%	6.1%	6.0%	8.4%	8.1%			
AV. Water content %	3.9%		6.0%		8.1%				
Dry Density	2.110		2.199		2.134				



Contractor
 شركة هندسة
 المعمل للمقاولات
 مشروع القطار السريع / فوكة - مطروح

Consultant
 Abdess

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أ.د. خالد عبد الجليل	 القانون رقم 18 لسنة 1984 م.ن.ق. 18 لسنة 1984	Electric Express Train - HSR From El Ain El Sekhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 504+000 To Station 508+177		 وزارة النقل م.ن.ق. 18 لسنة 1984

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

SUB-BALLAST

TESTING DATE:	15-10-2023	code	zone	FROM	TO
LOCATION	K.P 517+600	YN1-SUB B		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA				

Weight of sample Before Test	—	gm
Weight of saturated -dry surface sample (B)	3181	gm
Weight of saturated sample in water (C)	1945	gm
Weight of dry sample after heating (A)	3110	gm

Results:-

Bulk specific gravity = $A / (B-C)$	2.516	
Apparent specific gravity = $A / (A-C)$	2.670	
Absorbition = $(B-A)/A$	2.283	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3998	20

Lab. Specialist

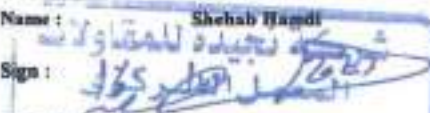
Name :

Sign :

Lab. Engineer

Name : Shehab Hamdi

Sign :


 مشروع القطار السريع / فوكة - مطروح

Consultant Engineer

Name :

Sign :



 	Electric Express Train - HSR	
Operating Lab: Negida Central Lab		

California Bearing Ratio TEST					
		SUB-BALLAST			
Testing Date :	16-10-2023	Code	ZONE	FROM	TO
Location :	K.P 517+600	YN1-SUB 8		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA				

Test Results

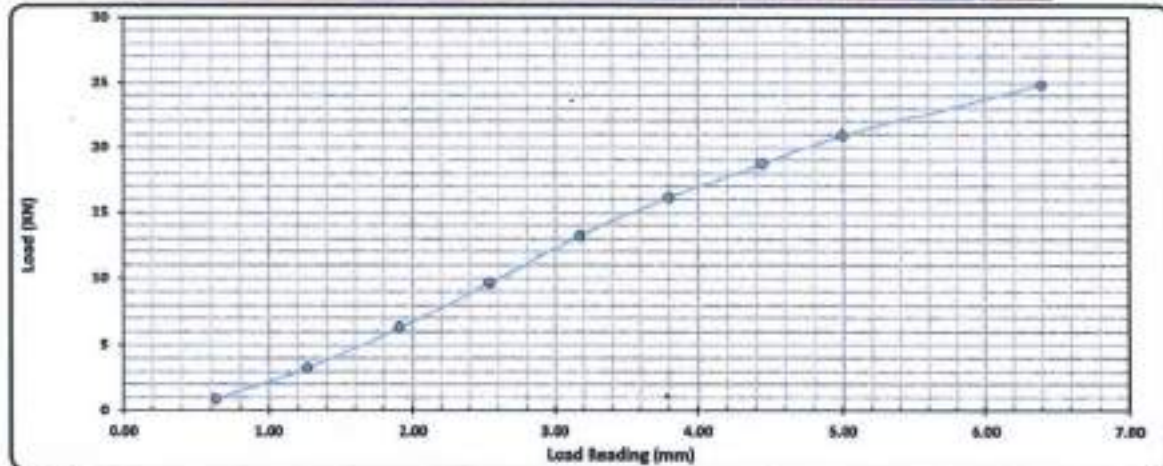
Compaction % for Mold	
Mold No.	8
Mold Vol. (cm ³)	1000
Mold WT. (gm)	9648
Mold WT. + Wat WT. (gm)	12960
Wat WT. (gm)	4891
Wet Density (g/cm ³)	1.352
Dry Density (g/cm ³)	1.214
Proctor Density (g/cm ³)	1.219
Compaction %	198

Moisture Ratio After Compacted Mold	
Tare No.	19
Tare WT. (gm)	44.1
Tare WT. + Wat WT. (gm)	131.2
Tare WT. + Dry WT. (gm)	114.4
Water WT. (gm)	16.8
Dry WT. (gm)	179.2
Moisture Content %	8.2

Swelling	
Mold No.	8
Date	16-10-2023
Initial Height (mm)	8.00
* Final Height (mm)	8.00
Difference	0
Sample Height (mm)	116.40
Swelling Ratio %	0.0%

Loading Reading :

Load Reading (mm)	0.54	1.27	1.91	2.54	3.18	3.80	4.47	5.09	5.76
Load (KN)	0.9	3.3	6.3	9.6	13.3	16.3	18.8	20.9	24.8
Load (KG)	91.8	334.8	643.8	984.8	1347.8	1647.8	1915.8	2114.8	2534.8



Calculations :-

Penetration	Load	Standard Load	C (%)	Mold Compaction	Compaction	CBR
(mm)	(KN)	(lb)	(%)	(%)	(%)	100 % نسبة 100
2.50	9.64	13.4	71.2%	198	198	72.4%
5.00	20.91	20.8	100.4%			104.7%

Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Shahab Hamed



Consultant Engineer

Name :

Sign :

(Signature)

MATERIAL INSPECTION REQUEST



Contractor Company	YOUSEF NEGIDA			Designer Company			
Issued by Contractor	Name	Sign	Date	Time			
	Eng/Shehab Hamdi		10-10-2023				
Contractor Reference	YN-SUB 7						
Received by ER			MIR	☒	☒	☒	DD MM YY HH MM
				10	10	2023	

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

Description of Materials	Curshed Stone SUB-Ballast Material Result		
Location to be Used	517+850	518+000	0.90+
	518+000	518+100	0.90+
	518+100	518+300	0.90+
	518+300	518+500	0.90+

MAR Approval No	YN-SUB 7		Date	
Supplier Name				
Test Requirement	Specification		Clause	
Reference Photos	Yes attached / No	Other		

Item	Description	Unit	Quantity	Arrival Date	Note
1	LL & P.L & O.M.C %	m3	5000	08-10-2023	
2	Proctor	m3	5000	09-10-2023	
3	Classification	m3	5000	08-10-2023	
4	Sieve Analysis	m3	5000	08-10-2023	
5	C.B.R	m3	5000	08-10-2023	
6	LA	m3	5000	10-10-2023	

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/ Shehab Hamdi			
QA/QC *	Ahmed Abu Zaid			
GARB**				
Employers Representative				

* Designer

** Alignment / Bridges: Culvert Only

MATERIAL APPROVAL REQUEST

المجلس
التقني وال
(GARB)



ENGINEERING CONSULTING OFFICE
المكتب الاستشاري الهندسي
أ. م. خالد فخريل

الهيئة القومية للإسكان
SQUADRA



Location Name	Contractor Company				Designer Company						
Electric express train	YOUSEF NEGIDA				k.k						
Issued by Contractor	Name	Sign	Date	Time							
	Eng/Shehab Hamdi		09-10-2023								
Contractor Reference	YN-SUB 7										
Received by ER			MAR	C	C	C	DD	M	YY	HH	M
							10	10	2023		

The Following Test Result are Attached For Review

Description of Materials	SUB -BALLAST (A-1-a)				
Location to be Used	517+600				
Item	Specification	Test requirement	Test result attachment	Remarks	
1	ASTM D 75	Aggregate Sampling	According to specifications		
2	ASTM C 136	Sieve Analysis	According to specifications		
3	ASTM D 1440	Passing Sieve, No 200	6.2 %		
4	ASTM D 4318	Atterberg limit	N.P		
5	ASTM D 2974	Moisture content	6.1 %		
6	ASTM D 1557	Modified proctor	2.215		
7	ASTM D 1883	CBR	93.6%		
8	AASHTO-T96	LA	21 %		
Comments by:			Comments by:		

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	Eng/Shehab Hamdi			
QA/QC *	Ahmed Abou Zaid			
GARB**				
Employers Representative				

* Designer

** Alignment/Bridges: Culvert only

 KARAMA KARAMA كرام كرام	Electric Express Train - HSR From El Als El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARS MATROUH From Station 504+000 To Station 568+177	 وزارة النقل والتنمية الاقتصادية MATROUH
Cooperating Lab	Negida Central Lab	

PARTICLE SIZE DISTRIBUTION OF SUB-BALLAST

TESTING DATE:	09-10-2023	Code	Zone	FROM STATION	TO STATION
LOCATION	K.P 517+600	YN1-SUB 7		514+000	518+500
COMPANY NAME	YUSEF NEGIDA				
MATERIALS	SUB-BALLAST				
Quantity	5000 M3				

1-visual inspection test

2-Gradient test

A-gradation of bulk materials				SAMPLE WEIGHT (g)		50998.00		gm	Table classify	
sieve size	2	1.5	1	4/3	2/1	8/3	# 4	PASS	Soil Classify	A-1-a
Mass retained (g)	0.0	1420.0	4013.0	8126.0	5586.0	4243.0	7912.0		PRO	2.115
Cumulative Retained (g)	0.0	1420.0	5433.0	13559.0	19145.0	23388.0	30400.0		WC	6.10
Cumulative Retained %	0.0	2.8	10.7	26.6	37.5	45.9	59.6		CBR	93.6%
Cumulative Passing %	100.0	97.2	89.3	73.4	62.5	54.1	40.4		Los Angeles	21
									Absorption	1.758
									SP.Gravity	2.627

B-soft material gradation			WT.OF sample		500.00		gm
sieve size	10	40	200				
Cumulative Retained (g)	156.00	338.00	423.00				
Cumulative Retained %	31.20	67.60	84.60				
Cumulative Passing %	68.80	32.40	15.40				

C-General gradient										
sieve size(in)	2	1.5	1	3/4	1/2	3/8	# 4	# 10	# 40	# 200
sieve size(mm)	50.0	37.5	25.0	19.0	12.5	9.5	4.75	2.00	0.425	0.075
Cumulative Passing %	100.0	97.2	89.3	73.4	62.5	54.1	40.4	27.9	13.1	6.2
SPECIFICATION	—	97	—	70 — 75	—	15 — 40	—	5 — 35	—	0 — 7

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

Contractor

Shehab Hamdi



Consultant

10/10/2023



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



PROCTOR TEST (SUB-BALLAST)

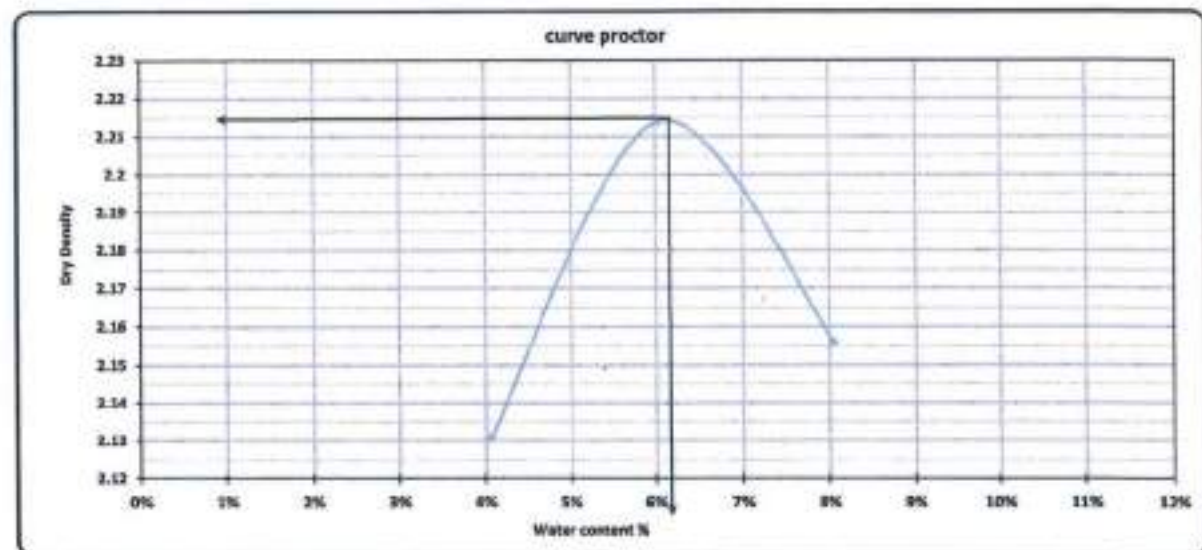
TESTING DATE:	9-10-2023	Code	zone	FROM	TO
LOCATION	K.P 517+600	YN1-SUB 7		514+000	518+500
COMPANY NAME	YOUSSEF NEGIDA				

Weight of empty mold :	5147.8
Mold Volume:	2115.8

MAX Dry Density	2.215
Water content %	6.1

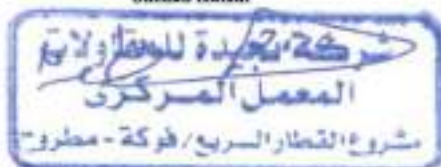
trial no :	1	2	3		
Wt. Of Mold+ wet soil	10436.8	10713.0	10474.8		
WT. WET SOIL	4689.0	4566.0	4927.8		
Wt. Density	2.217	2.348	2.338		

Tare No.	7	19	13	17	15	40			
Tare wt.	42.3	42.1	63.6	83.2	36.9	46.2			
Wt. Of wet soil & tare	150.0	159.0	156.0	150.0	159.0	158.0			
Wt. Of dry soil & tare	144.98	148.05	142.47	142.65	149.14	148.04			
Wt. Of water	5.0	4.9	7.5	7.3	9.9	19.8			
Wt. Of dry soil	123.0	123.0	123.0	123.0	123.0	123.0			
Water content %	4.1%	4.0%	6.1%	6.0%	8.0%	8.1%			
A.V. Water content %	4.1%	6.0%	8.1%						
Dry Density	2.131	2.214	2.156						



Contractor

Shahab Handi



Consultant

10/10/2023

 ENGINEERING CONSULTING OFFICE المكتب الاستشاري الهندسي أبو خالد عبد الحليم	 TOSTA TOSTA GROUP	Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA To MARSA MATROUH From Station 504+000 To Station 508+177		

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

SUB-BALLAST

TESTING DATE:	09-10-2023	code	zone	FROM	TO
LOCATION	K.P 517+600	YN1-SUB 7		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA				

Weight of sample Before Test	—	gm
Weight of saturated -dry surface sample (B)	3648	gm
Weight of saturated sample in water (C)	2228	gm
Weight of dry sample after heating (A)	3583	gm

Results:-

Bulk specific gravity = $A / (B-C)$	2.527	
Apparent specific gravity = $A / (A-C)$	2.644	
Absorption = $(9-A)/A$	1.758	%

Los Anglos abrasion AASHTO-T96

Results:-

Weight of sample before test (gm)	Weight of sample after test (gm)	Abrasion ratio (%)
5000	3930	21

Lab. Specialist

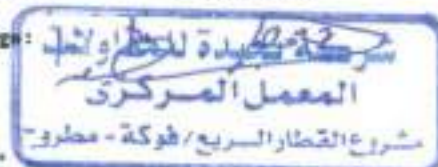
Name :

Sign :

Lab. Engineer

Name : Shchab Handi

Sign :



Consultant Engineer

Name :

Sign :



 	Electric Express Train - HSR	
Operating Lab: Negida Central Lab		

California Bearing Ratio TEST

		SUB-BALLAST			
Testing Date :	10-10-2023	Code	ZONE	FROM	TO
Location :	K.P 517+600	YN1-SUB T		514+000	518+500
COMPANY NAME	YOUSEF NEGIDA				

- : Test Results

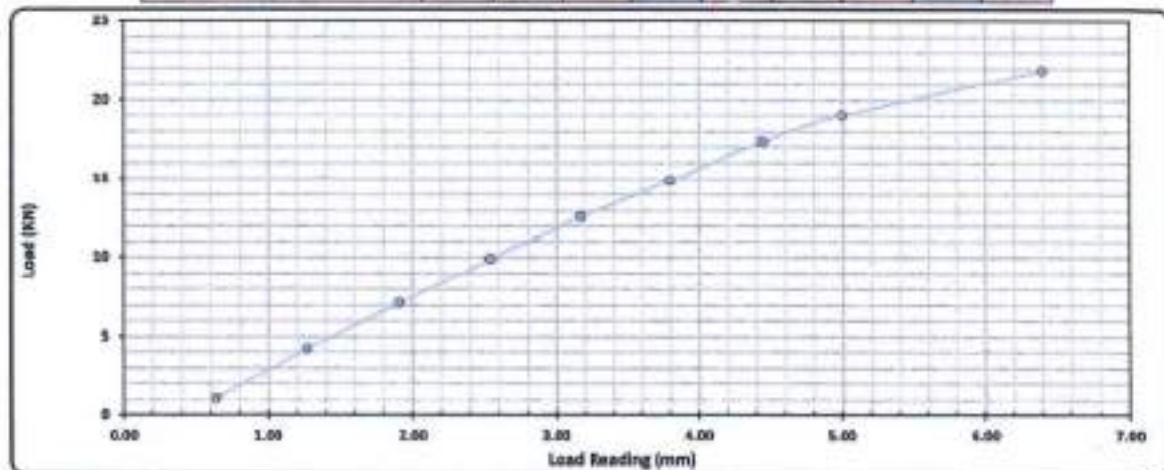
Compaction % for Mold	
Mold No.	5
Mold Vol. (cm ³)	2000
Mold WT. (gm)	8068
Mold WT. + Wat WT. (gm)	12933
Wat WT. (gm)	4865
Wat Density (g/cm ³)	1.339
Dry Density (g/cm ³)	1.263
Proctor Density (g/cm ³)	1.318
Compaction %	99

Moisture Ratio After Compacted Mold	
Tare No.	7
Tare WT. (gm)	42.2
Tare WT. + Wet WT. (gm)	331.2
Tare WT. + Dry WT. (gm)	314.4
Water WT. (gm)	16.8
Dry WT. (gm)	273.2
Moisture Content %	6.2

Swelling	
Mold No.	5
Date	10-10-2023
Initial Height (mm)	9.80
Final Height (mm)	9.80
Difference	0
Sample Height (mm)	116.40
Swelling Ratio %	0.0%

Loading Reading :

Load Reading (mm)	0.00	1.27	1.91	2.54	3.18	3.80	4.45	5.09	5.40
Load (KN)	1.1	4.2	7.1	9.9	12.6	14.9	17.4	19.8	21.9
Load (KG)	112.0	430.0	718.0	1008.0	1277.0	1519.0	1771.0	1992.0	2234.0



Calculations :-

Penetration	Load	Standard Load	CBR	Mold - Compaction	Compaction	CBR
(mm)	(Kg)	(lb)	(%)	(%)	(%)	معدل نسبة %
2.50	9.98	13.4	74.8%	99	99	72.9%
5.00	19.83	29.8	66.8%			63.6%

Lab. Specialist

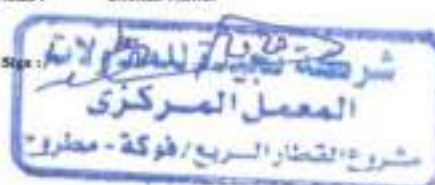
Name :

Sign :

Lab. Engineer

Name : Shehab Hamdi

Sign :



Consent Engineer

Name :

Sign :

10/10/2023



Sign :



Contractor



Contract



Plate Load Test Results

Layer:
Station:
Date:

PREPARED SUBGRADE 2	0.50+
517+110	TO 517+160
04-11-23	

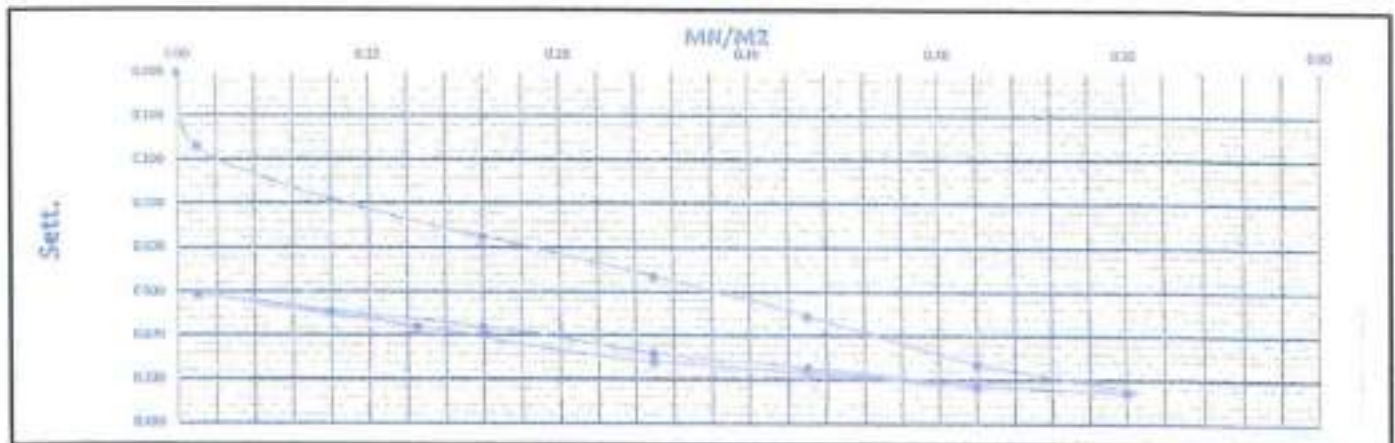
COMPANY	VOUSEF NEGIDA I
Location	517+150

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg Sett.
Stage No.	Bar	KN	MPa	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.89	6.03		0.000	0.000		0.000
1.000	1.0	0.707	0.01	7.73	5.85		0.160	0.180		0.170
2.000	7.9	5.652	0.08	7.60	5.74		0.290	0.290		0.290
3.000	15.8	11.304	0.16	7.51	5.66		0.380	0.370		0.375
4.000	24.7	17.663	0.25	7.42	5.57		0.470	0.460		0.465
5.000	32.6	23.315	0.33	7.33	5.48		0.560	0.550		0.555
6.000	41.5	29.673	0.42	7.22	5.37		0.670	0.660		0.665
7.000	49.4	35.325	0.50	7.16	5.30		0.730	0.730		0.730
8.000	24.7	17.663	0.25	7.23	5.37		0.660	0.660		0.660
9.000	12.4	8.831	0.12	7.30	5.46		0.590	0.570		0.580
9.000	1.0	0.707	0.01	7.38	5.53		0.510	0.500		0.505
10.000	1.0	0.707	0.01	7.38	5.53		0.510	0.500		0.505
11.000	7.9	5.652	0.08	7.35	5.48		0.540	0.550		0.545
12.000	15.8	11.304	0.16	7.32	5.44		0.570	0.590		0.580
13.000	24.7	17.663	0.25	7.29	5.35		0.600	0.680		0.640
14.000	32.6	23.315	0.33	7.26	5.31		0.630	0.720		0.675
15.000	41.5	29.673	0.42	7.22	5.27		0.670	0.760		0.715

0.7 e_1	0.35	0.6081	0.24375	0.2
0.3 e_1	0.15	0.3644		
0.7 e_2	0.35	0.6839	0.49888	0.2
0.3 e_2	0.15	0.585		
D (mm)	300			
E_{v1}	184.42			
E_{v2}	455.07			
Area (Sq.m)	0.07865			

E_{v1}/E_{v2}	1.46		
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LOAD
UNLOAD
RELOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Mohamed Hamed
Sign :

Consultant Engineer

Name :

Sign :



Plate Load Test Results

Layer:
Station:
Date:

PREPARED SUBGRADE 2	0.50+
516+880	TO 516+940
21-09-23	

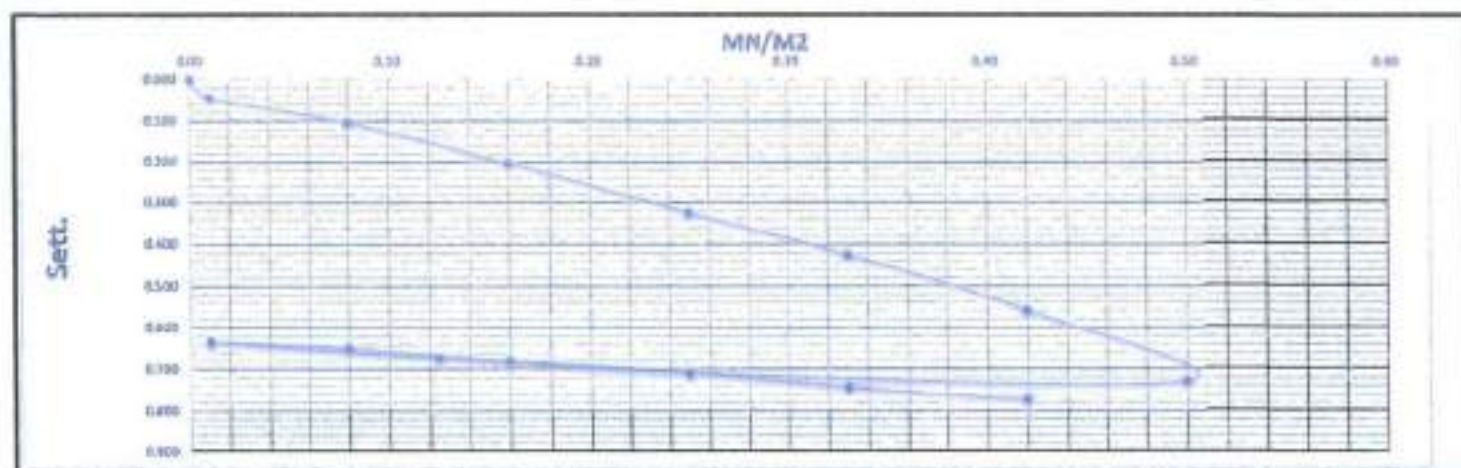
COMPANY	YUSEF NEGIDA I
Location	516+890

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MM/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.52	7.46		0.000	0.000		0.000
1.000	1.0	0.707	0.01	7.48	7.41		0.040	0.050		0.045
2.000	7.9	5.652	0.08	7.41	7.36		0.110	0.100		0.105
0.080	15.8	11.304	0.16	7.30	7.27		0.220	0.190		0.205
4.000	24.7	17.663	0.25	7.18	7.15		0.340	0.310		0.325
5.000	32.6	23.315	0.33	7.04	7.09		0.480	0.370		0.425
6.000	41.5	29.673	0.42	6.89	6.97		0.630	0.490		0.560
7.000	49.4	35.325	0.50	6.71	6.81		0.810	0.650		0.730
8.000	24.7	17.663	0.25	6.72	6.84		0.800	0.620		0.710
9.000	12.4	8.831	0.12	6.74	6.89		0.780	0.570		0.675
9.000	1.0	0.707	0.01	6.78	6.93		0.740	0.530		0.635
10.000	1.0	0.707	0.01	6.78	6.93		0.740	0.530		0.635
11.000	7.9	5.652	0.08	6.76	6.92		0.760	0.540		0.650
12.000	15.8	11.304	0.16	6.72	6.90		0.800	0.560		0.680
13.000	24.7	17.663	0.25	6.69	6.87		0.830	0.590		0.710
14.000	32.6	23.315	0.33	6.66	6.83		0.860	0.630		0.745
15.000	41.5	29.673	0.42	6.63	6.80		0.890	0.660		0.775

		σ	ΔS	Δs
0.7 σ_1	0.35	0.41125	0.21875	0.2
0.3 σ_1	0.15	0.1925		
0.7 σ_2	0.35	0.75167	0.08667	0.2
0.3 σ_2	0.15	0.665		
D (mm)	300			
E_{v1}	205.71			
E_{v2}	519.34			
Area (Sq.m)	0.07065			

E_{v2}/E_{v1}	2.52		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Mohamed Hamed

Sign :

شركة التطوير والبناء - مكة - مملكة

Consultant Engineer

Name :

Sign :



Plate Load Test Results

Layer:
Station:
Date:

PREPARED SUBGRADE 2	0.50+
516+880	TO 516+940
21-09-23	

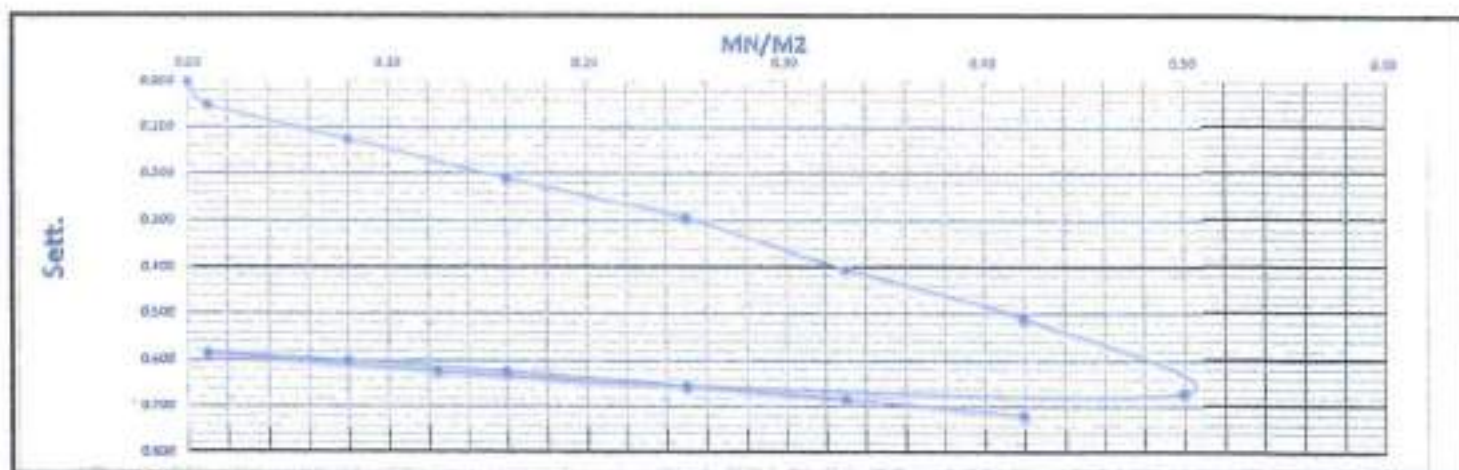
COMPANY	YUSEF NEGIDA 1
Location	516+915

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MM/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	8.23	8.29		0.000	0.000		0.000
1.000	1.0	0.707	0.01	8.18	8.24		0.050	0.050		0.050
2.000	7.9	5.652	0.08	8.11	8.16		0.120	0.130		0.125
0.080	15.8	11.304	0.16	8.02	8.08		0.210	0.210		0.210
4.000	24.7	17.663	0.25	7.91	8.02		0.320	0.270		0.295
5.000	32.6	23.315	0.33	7.80	7.91		0.430	0.380		0.405
6.000	41.5	29.673	0.42	7.70	7.80		0.530	0.490		0.510
7.000	49.4	35.325	0.50	7.51	7.67		0.720	0.620		0.670
8.000	24.7	17.663	0.25	7.53	7.68		0.700	0.610		0.655
9.000	12.4	8.831	0.12	7.57	7.70		0.660	0.590		0.625
9.000	1.0	0.707	0.01	7.61	7.74		0.620	0.550		0.585
10.000	1.0	0.707	0.01	7.61	7.74		0.620	0.550		0.585
11.000	7.9	5.652	0.08	7.59	7.73		0.640	0.560		0.600
12.000	15.8	11.304	0.16	7.57	7.70		0.660	0.590		0.625
13.000	24.7	17.663	0.25	7.54	7.67		0.690	0.620		0.655
14.000	32.6	23.315	0.33	7.51	7.64		0.720	0.650		0.685
15.000	41.5	29.673	0.42	7.48	7.60		0.750	0.690		0.720

		ϵ	AS	$\Delta\sigma$
0.7 σ_1	0.35	0.37	0.17063	0.1
0.3 σ_1	0.15	0.19938		
0.7 σ_2	0.35	0.69278	0.07778	0.2
0.3 σ_2	0.15	0.615		
D (mm)	300			
E_{v1}	263.74			
E_{v2}	378.50			
Area (Sq.m)	0.07065			

E_{v2}/E_{v1}	1.15		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Mohamed Hamad

Sign :

Consultant Engineer

Name : Yousef Negida 1

Sign :

شركة نجيبة للمقاولات
المعمل المركزي
شركة المقاولات العربية - مطروح



Plate Load Test Results

Layer:
Station:
Date:

PREPARED SUBGRADE 2	0.50+
516+880	TO
516+940	
21-09-23	

COMPANY	VOUSEF NEGIDA I
Location	516+940

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	8.03	8.17		0.900	0.000		0.000
1.000	1.0	0.707	0.01	7.96	8.09		0.070	0.080		0.075
2.000	7.9	5.652	0.08	7.89	8.01		0.140	0.160		0.150
3.000	15.8	11.304	0.16	7.80	7.93		0.230	0.240		0.235
4.000	24.7	17.663	0.25	7.68	7.82		0.350	0.350		0.350
5.000	32.6	23.315	0.33	7.55	7.71		0.480	0.460		0.470
6.000	41.5	29.673	0.42	7.41	7.61		0.620	0.560		0.590
7.000	49.4	35.325	0.50	7.27	7.44		0.760	0.730		0.745
8.000	24.7	17.663	0.25	7.29	7.47		0.740	0.700		0.720
9.000	12.4	8.831	0.12	7.31	7.49		0.720	0.680		0.700
9.000	1.0	0.707	0.01	7.35	7.53		0.680	0.640		0.660
10.000	1.0	0.707	0.01	7.35	7.53		0.680	0.640		0.660
11.000	7.9	5.652	0.08	7.33	7.51		0.700	0.660		0.680
12.000	15.8	11.304	0.16	7.31	7.49		0.720	0.680		0.700
13.000	24.7	17.663	0.25	7.28	7.46		0.750	0.710		0.730
14.000	32.6	23.315	0.33	7.25	7.42		0.780	0.750		0.765
15.000	41.5	29.673	0.42	7.22	7.39		0.810	0.780		0.795

		σ	AS	AS
0.7 σ_1	0.35	0.45437	0.23	0.2
0.3 σ_1	0.15	0.21438		
0.7 σ_2	0.36	0.77167	0.07166	0.2
0.3 σ_2	0.15	0.7		
D (mm)	300			
E_{v1}	195.65			
E_{v2}	639.03			
Area (sq. cm)	0.07065			

E_{v2}/E_{v1}	3.21		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Mohamed Hamed

Sign :

شركة القطار السريع / فؤاد - مطروح

Consultant Engineer

Name : El

Sign :



Contractor Consultant

Contractor



Plate Load Test Results

Layer:
Station:
Date:

PREPARED SUBGRADE 2	0.50+
515+180	TO 515+300
20-09-23	

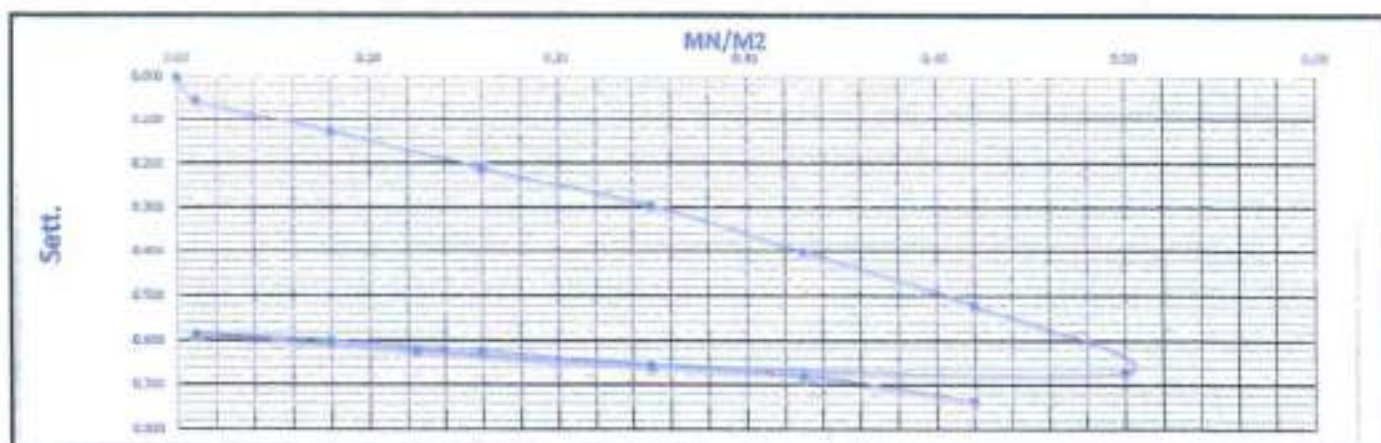
COMPANY	YUSEF NEGIDA I
Location	515+290

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MPA	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	8.21	8.26		0.000	0.000		0.000
1.000	1.0	0.797	0.01	8.16	8.20		0.050	0.060		0.055
2.000	7.9	5.652	0.08	8.09	8.13		0.120	0.130		0.125
0.080	15.8	11.304	0.16	8.00	8.05		0.210	0.210		0.210
4.000	24.7	17.663	0.25	7.89	7.99		0.320	0.270		0.295
5.000	32.6	23.315	0.33	7.79	7.88		0.420	0.380		0.400
6.000	41.5	29.673	0.42	7.65	7.78		0.560	0.480		0.520
7.000	49.4	35.325	0.50	7.49	7.64		0.720	0.620		0.670
8.000	24.7	17.663	0.25	7.51	7.65		0.700	0.610		0.655
9.000	12.4	8.831	0.12	7.55	7.67		0.660	0.590		0.625
9.000	1.0	0.797	0.01	7.59	7.71		0.620	0.550		0.585
10.000	1.0	0.797	0.01	7.59	7.71		0.620	0.550		0.585
11.000	7.9	5.652	0.08	7.57	7.70		0.640	0.560		0.600
12.000	15.8	11.304	0.16	7.55	7.67		0.660	0.590		0.625
13.000	24.7	17.663	0.25	7.52	7.64		0.690	0.620		0.655
14.000	32.6	23.315	0.33	7.49	7.62		0.720	0.640		0.680
15.000	41.5	29.673	0.42	7.44	7.56		0.770	0.700		0.735

		t	AS	Se
0.7 σ_1	0.35	0.3880	0.18938	0.2
0.3 σ_1	0.15	0.1994		
0.7 σ_2	0.35	0.6922	0.07712	0.2
0.3 σ_2	0.15	0.615		
D (mm)	300			
E_{v1}	227.42			
E_{v2}	562.75			
Area (Sq.m)	0.07065			

E_{v2}/E_{v1}	2.45		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :



Contractor Consultant

Contractor

Client

Plate Load Test Results

Layer:
Station:
Date:

PREPARED SUBGRADE 2	0.50+
515+180	TO 515+300
20-09-23	

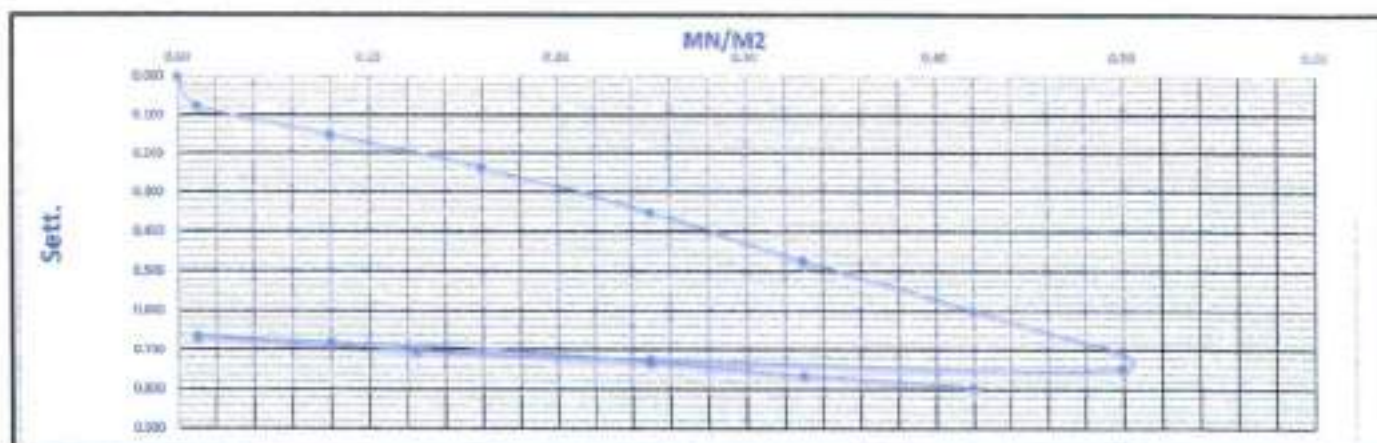
COMPANY	YOUSEF NEGIDA 1
Location	515+260

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.90	8.10		0.000	0.000		0.000
1.000	1.0	0.797	0.01	7.83	8.02		0.070	0.080		0.075
2.000	7.9	5.652	0.08	7.76	7.94		0.140	0.160		0.150
0.080	15.8	11.304	0.16	7.67	7.86		0.230	0.240		0.235
4.000	24.7	17.663	0.28	7.55	7.75		0.350	0.350		0.350
5.000	32.6	23.315	0.33	7.42	7.63		0.400	0.470		0.475
6.000	41.5	29.673	0.42	7.28	7.52		0.620	0.580		0.600
7.000	49.4	35.325	0.50	7.14	7.37		0.760	0.730		0.745
8.000	24.7	17.663	0.25	7.16	7.39		0.740	0.710		0.725
9.000	12.4	8.831	0.12	7.18	7.41		0.720	0.690		0.705
9.000	1.0	0.797	0.01	7.22	7.45		0.680	0.650		0.665
10.000	1.0	0.797	0.01	7.22	7.45		0.680	0.650		0.665
11.000	7.9	5.652	0.08	7.20	7.44		0.700	0.660		0.680
12.000	15.8	11.304	0.16	7.18	7.42		0.720	0.680		0.700
13.000	24.7	17.663	0.25	7.15	7.39		0.750	0.710		0.730
14.000	32.6	23.315	0.33	7.12	7.35		0.780	0.750		0.765
15.000	41.5	29.673	0.42	7.09	7.32		0.810	0.780		0.795

		s	AS	Δs
0.7 σ ₁	0.35	0.4731	0.24875	0.2
0.3 σ ₁	0.15	0.2244		
0.7 σ ₂	0.35	0.7717	0.07667	0.2
0.3 σ ₂	0.15	0.695		
D (mm)	300			
E _{v1}	100.80			
E _{v2}	500.73			
Area (Sq.m)	0.07965			

E _{v2} /E _{v1}	3.24		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :

Sign =



Contractor Consultant

Contractor

District

Plate Load Test Results

Layer:
Station:
Date:

PREPARED SUBGRADE 2	0.50+
515+180	TO
515+300	
20-09-23	

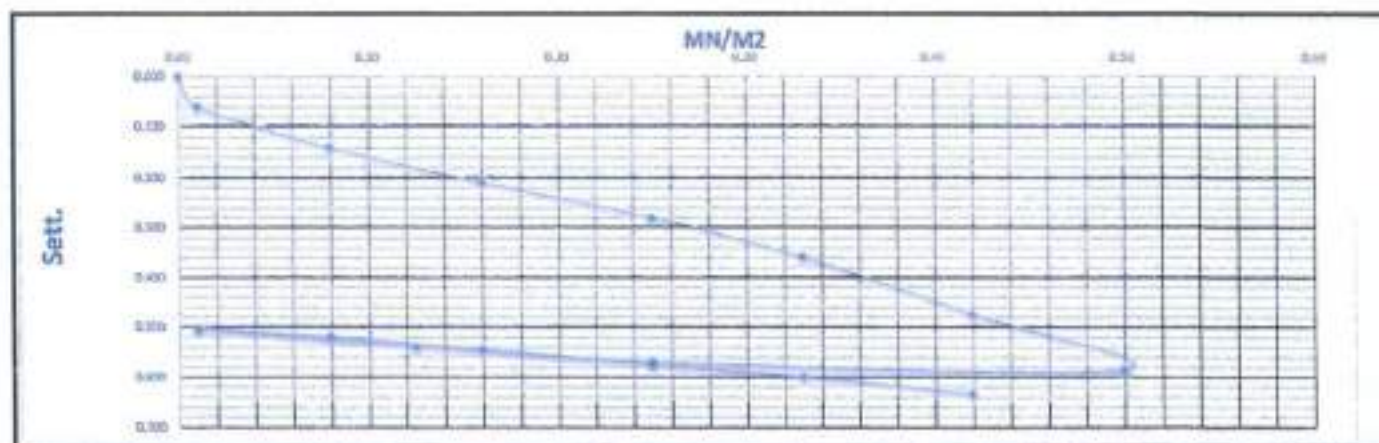
COMPANY	YOUSEF NEGIDA 1
Location	515+215

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	NO/MM2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	8.19	8.60		0.000	0.000		0.000
1.000	1.0	0.707	0.01	8.13	8.54		0.060	0.060		0.060
2.000	7.9	5.652	0.08	8.05	8.46		0.140	0.140		0.140
0.080	15.8	11.304	0.16	7.97	8.40		0.220	0.200		0.210
4.000	24.7	17.463	0.25	7.87	8.36		0.320	0.240		0.280
5.000	32.6	23.315	0.33	7.76	8.31		0.430	0.290		0.360
6.000	41.5	29.673	0.42	7.64	8.20		0.550	0.400		0.475
7.000	49.4	35.325	0.50	7.52	8.10		0.670	0.500		0.585
8.000	24.7	17.463	0.25	7.54	8.11		0.650	0.490		0.570
9.000	12.4	8.831	0.12	7.57	8.14		0.620	0.460		0.540
9.000	1.0	0.707	0.01	7.61	8.17		0.580	0.430		0.505
10.000	1.0	0.707	0.01	7.61	8.17		0.580	0.430		0.505
11.000	7.9	5.652	0.08	7.60	8.15		0.590	0.450		0.520
12.000	15.8	11.304	0.16	7.58	8.12		0.610	0.480		0.545
13.000	24.7	17.463	0.25	7.58	8.09		0.640	0.510		0.575
14.000	32.6	23.315	0.33	7.53	8.06		0.660	0.540		0.600
15.000	41.5	29.673	0.42	7.50	8.01		0.690	0.580		0.635

		s	AS	Ar
0.7 σ_1	0.35	0.3788	6.1775	0.2
0.3 σ_1	0.15	0.2012		
0.7 σ_2	0.35	0.6078	0.07278	0.2
0.3 σ_2	0.15	0.535		
D (mm)	300			
E_{v1}	383.53			
E_{v2}	615.33			
Area (Sq.m)	0.07065			

E_{v2}/E_{v1}	1.60		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :



Contractor Consultant

Contractor

Contractor

Plate Load Test Results

Layer:
Station:
Date:

PREPARED SUBGRADE 2	0.50+
515+180	TO 515+300
20-09-23	

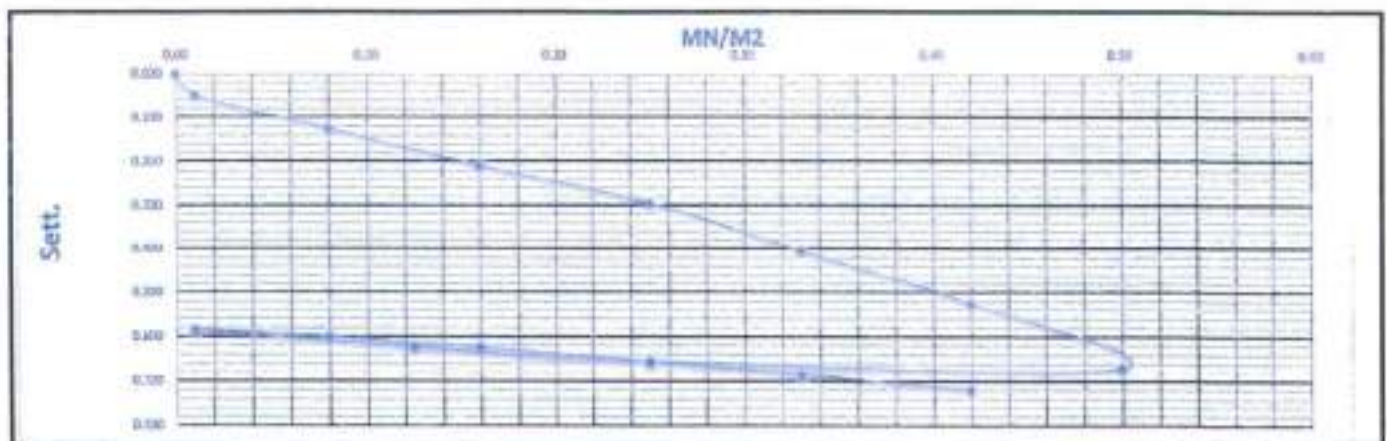
COMPANY	YOUSEF NEGIDA I
Location	515+190

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Arg. Sett.
Stage No.	Bar	KN	MM/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	8.11	8.36		0.000	0.000		0.000
1.000	1.0	0.707	0.01	8.06	8.31		0.050	0.050		0.050
2.000	7.9	5.652	0.08	7.99	8.23		0.120	0.130		0.125
0.080	15.8	11.304	0.16	7.90	8.15		0.210	0.210		0.210
4.000	24.7	17.663	0.25	7.79	8.09		0.320	0.270		0.295
5.000	32.6	23.315	0.33	7.68	7.98		0.430	0.380		0.405
6.000	41.5	29.673	0.42	7.55	7.87		0.560	0.490		0.525
7.000	49.4	35.325	0.50	7.39	7.74		0.720	0.620		0.670
8.000	24.7	17.663	0.25	7.41	7.75		0.700	0.610		0.655
9.000	12.4	8.831	0.12	7.45	7.77		0.660	0.590		0.625
9.000	1.0	0.707	0.01	7.49	7.81		0.620	0.550		0.585
10.000	1.0	0.707	0.01	7.49	7.81		0.620	0.550		0.585
11.000	7.9	5.652	0.08	7.47	7.80		0.640	0.560		0.600
12.000	15.8	11.304	0.16	7.45	7.77		0.660	0.590		0.625
13.000	24.7	17.663	0.25	7.42	7.74		0.690	0.620		0.655
14.000	32.6	23.315	0.33	7.39	7.71		0.720	0.650		0.685
15.000	41.5	29.673	0.42	7.36	7.67		0.750	0.690		0.720

		s	AS	AS
0.7 σ_1	0.35	0.3981	0.19875	0.2
0.3 σ_1	0.15	0.1994		
0.7 σ_1	0.35	0.6928	0.07778	0.2
0.3 σ_1	0.15	0.615		
D (mm)	300			
E_{v1}	236.42			
E_{v2}	278.56			
Area (Sq.m)	0.07065			

E_{v2}/E_{v1}	1.56		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :

Handwritten signature and stamp of the Lab. Engineer, including the text "مختبر الطرق" (Roads Laboratory) and "مطابق" (According to).

Handwritten signature and stamp of the Consultant Engineer, including the text "Hassan" and "2023".

Sign :

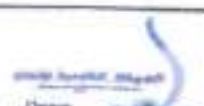


Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2		0.90+
514+600	TO	514+700
23-10-23		

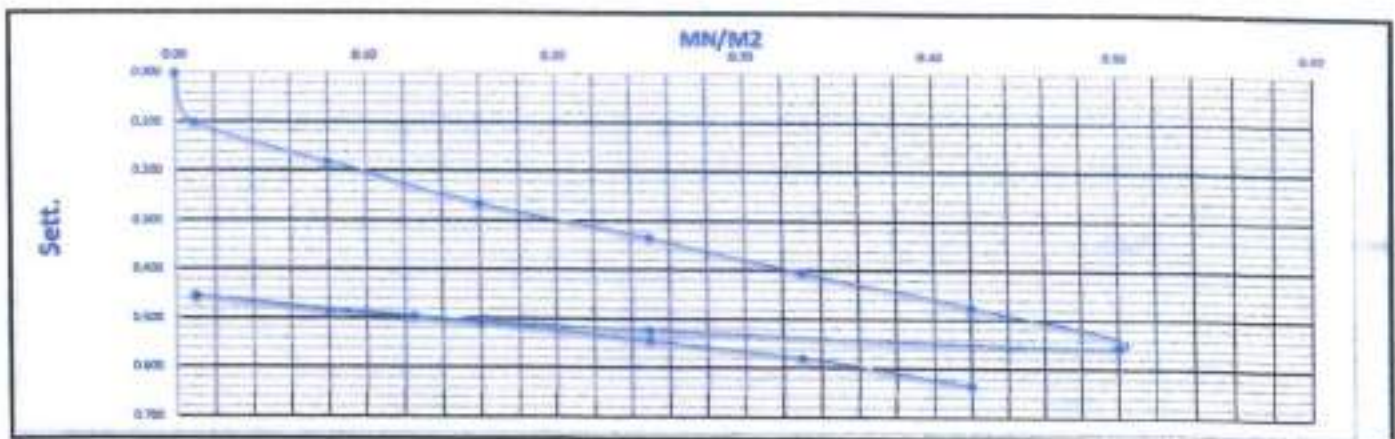
COMPANY	YOUSEF NEGIDA I
Location	514+635

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	NN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	6.10	9.11		0.000	0.000		0.000
1.000	1.0	0.707	0.01	5.99	9.02		0.110	0.090		0.100
2.000	7.9	5.652	0.08	5.93	8.92		0.170	0.190		0.180
0.080	15.8	11.304	0.16	5.82	8.86		0.280	0.250		0.265
4.000	24.7	17.663	0.25	5.77	8.77		0.330	0.340		0.335
5.000	32.6	23.315	0.33	5.70	8.70		0.400	0.410		0.405
6.000	41.5	29.673	0.42	5.63	8.63		0.470	0.480		0.475
7.000	49.4	35.325	0.50	5.55	8.55		0.550	0.560		0.555
8.000	24.7	17.663	0.25	5.58	8.58		0.520	0.530		0.525
9.000	12.4	8.831	0.12	5.62	8.60		0.480	0.510		0.495
9.000	1.0	0.707	0.01	5.67	8.63		0.430	0.480		0.455
10.000	1.0	0.707	0.01	5.67	8.63		0.430	0.480		0.455
11.000	7.9	5.652	0.08	5.64	8.60		0.460	0.510		0.485
12.000	15.8	11.304	0.16	5.61	8.58		0.490	0.530		0.510
13.000	24.7	17.663	0.25	5.57	8.55		0.530	0.560		0.545
14.000	32.6	23.315	0.33	5.53	8.52		0.570	0.590		0.580
15.000	41.5	29.673	0.42	5.49	8.45		0.610	0.660		0.635

0.7 σ_1	0.35	0.495	0.15062	0.2
0.3 σ_1	0.15	0.25438		
0.7 σ_2	0.35	0.59222	0.07722	0.2
0.3 σ_2	0.15	0.515		
D (mm)	300			
E_{avg}	200.76			
E_{v1}	582.76			
Area (Sq.m)	0.07065			

E_{avg}/E_{v1}	1.95		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :
Sign :

Lab. Engineer

Name : *Mohamed Elmaghrabi*
Sign : *Mohamed Elmaghrabi*
شركة القطار السريع / فوكة - مصر

Consultant Engineer

Name : *Mohamed Elmaghrabi*
Sign : *Mohamed Elmaghrabi*



Contractor Consultant

Contractor



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2	0.90+
514+600	TO
514+700	
23-10-23	

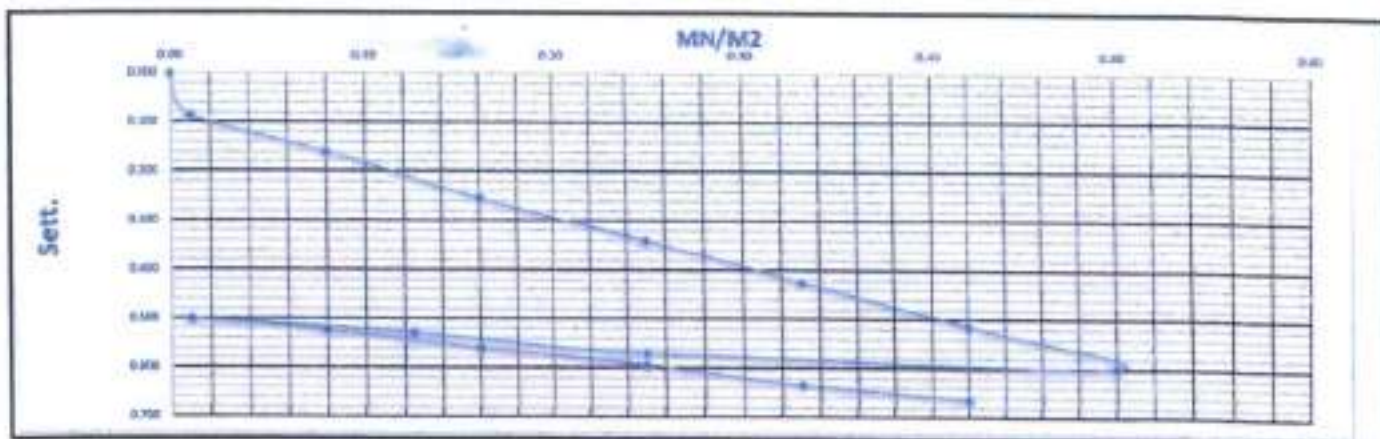
COMPANY	YOUSSEF NEGIDA I
Location	514+600

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MM/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.77	8.93		0.000	0.060		0.060
1.000	1.0	0.707	0.01	7.68	8.85		0.090	0.080		0.085
2.000	7.9	5.652	0.09	7.60	8.78		0.170	0.150		0.160
0.080	15.8	11.304	0.16	7.49	8.70		0.280	0.230		0.255
4.000	24.7	17.663	0.25	7.40	8.62		0.370	0.310		0.340
5.000	32.6	23.315	0.33	7.32	8.53		0.450	0.400		0.425
6.000	41.5	29.673	0.42	7.22	8.45		0.550	0.480		0.515
7.000	49.4	35.325	0.50	7.13	8.37		0.640	0.560		0.600
8.000	24.7	17.663	0.25	7.16	8.40		0.610	0.530		0.570
9.000	12.4	8.831	0.12	7.20	8.44		0.570	0.490		0.530
9.000	1.0	0.707	0.01	7.23	8.47		0.540	0.460		0.500
10.000	1.0	0.707	0.01	7.23	8.47		0.540	0.460		0.500
11.000	7.9	5.652	0.08	7.20	8.45		0.570	0.480		0.525
12.000	15.8	11.304	0.16	7.17	8.41		0.600	0.520		0.560
13.000	24.7	17.663	0.25	7.13	8.38		0.640	0.550		0.595
14.000	32.6	23.315	0.33	7.09	8.34		0.680	0.590		0.635
15.000	41.5	29.673	0.42	7.06	8.31		0.710	0.620		0.665

		σ	ΔS	$\Delta \sigma$
0.7 σ_1	0.35	0.44063	0.1975	0.2
0.3 σ_1	0.15	0.24313		
0.7 σ_2	0.35	0.64167	0.09166	0.2
0.3 σ_2	0.15	0.55		
D (mm)	300			
E_v	227.85			
E_v	190.92			
Area (Sq.m)	0.07065			

E_v/E_v	2.15		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :



Sign :



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2		0.90+
514+700	TO	514+800
23-10-23		

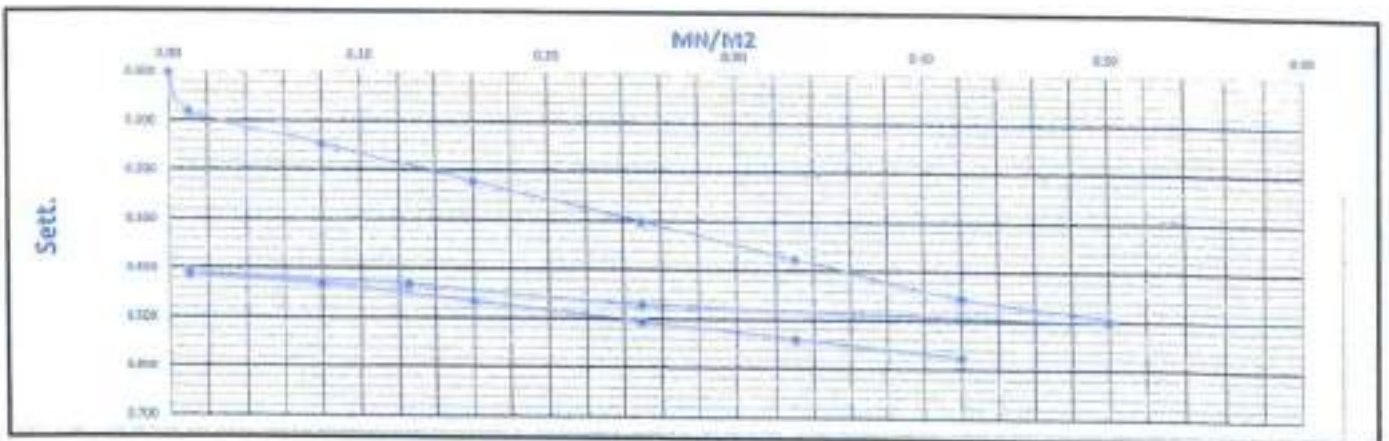
COMPANY	YOUSUF NEGIDA 1
Location	514+110

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Sett.
Stage No.	Bar	kN	KN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	6.20	8.24		0.000	0.000		0.000
1.000	1.0	0.707	0.01	6.09	8.19		0.110	0.050		0.080
2.000	7.9	5.652	0.08	6.02	8.13		0.180	0.110		0.145
0.080	15.8	11.304	0.16	5.92	8.08		0.280	0.160		0.220
4.000	24.7	17.663	0.25	5.84	8.00		0.360	0.240		0.300
5.000	32.6	23.315	0.33	5.77	7.92		0.430	0.320		0.375
6.000	41.5	29.673	0.42	5.70	7.83		0.500	0.410		0.455
7.000	49.4	35.325	0.50	5.63	7.81		0.570	0.430		0.500
8.000	24.7	17.663	0.25	5.66	7.84		0.540	0.400		0.470
9.000	12.4	8.831	0.12	5.70	7.88		0.500	0.360		0.430
9.000	1.0	0.707	0.01	5.72	7.90		0.480	0.340		0.410
10.000	1.0	0.707	0.01	5.72	7.90		0.480	0.340		0.410
11.000	7.9	5.652	0.08	5.70	7.88		0.500	0.360		0.430
12.000	15.8	11.304	0.16	5.66	7.85		0.540	0.390		0.465
13.000	24.7	17.663	0.25	5.62	7.81		0.580	0.430		0.505
14.000	32.6	23.315	0.33	5.59	7.77		0.610	0.470		0.540
15.000	41.5	29.673	0.42	5.55	7.74		0.650	0.500		0.575

	s	ΔS	Δe
0.7 σ_1	0.35	0.41563	0.105
0.3 σ_1	0.15	0.21063	
0.7 σ_2	0.35	0.54778	0.09778
0.3 σ_2	0.15	0.45	
D (mm)	300		
E_{v1}	219.51		
E_{v2}	460.24		
Area (Square)	0.07065		

E_{v2}/E_{v1}	2.10		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :
Sign :

Lab. Engineer

Name :
Sign :
المهندس محمد بن عبد الله
المهندس محمد بن عبد الله
مشرف القطار السريع / فوكدة - مطروح

Consultant Engineer

Name :
Sign :



Contractor Consultant

Contractor



Design

Design



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2		0.90+
514+700	TO	514+800
23-10-23		

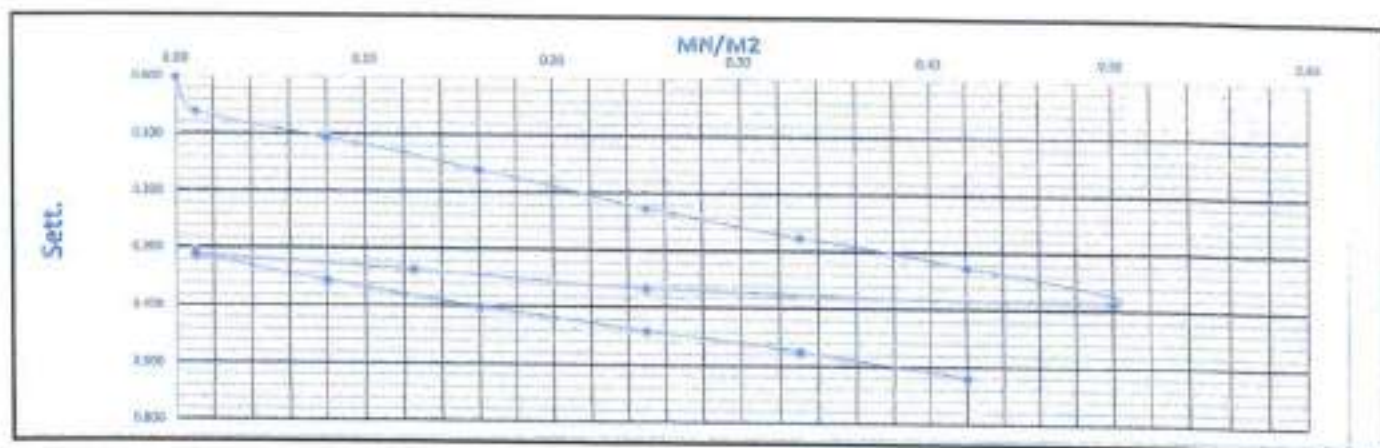
COMPANY	VOUSEF NEGIDA I
Location	#14+735

Load/Stage No.	Load Bar	Load KN	Stress MN/M2	Dial 1 mm	Dial 2 mm	Dial 3 mm	Sett. 1 mm	Sett. 2 mm	Sett. 3 mm	Avg. Sett. mm
0.000	0.0	0.000	0.00	5.53	5.97		0.000	0.000		0.000
1.000	1.0	0.707	0.01	5.48	5.90		0.050	0.070		0.060
2.000	7.9	5.652	0.08	5.44	5.85		0.090	0.120		0.105
3.000	15.8	11.304	0.16	5.39	5.79		0.140	0.180		0.160
4.000	24.7	17.663	0.25	5.33	5.72		0.200	0.250		0.225
5.000	32.6	23.315	0.33	5.27	5.68		0.260	0.290		0.275
6.000	41.5	29.673	0.42	5.22	5.63		0.310	0.340		0.325
7.000	49.4	35.325	0.50	5.18	5.55		0.350	0.420		0.385
8.000	24.7	17.663	0.25	5.20	5.57		0.330	0.400		0.365
9.000	12.4	8.831	0.12	5.23	5.60		0.300	0.370		0.335
9.000	1.0	0.707	0.01	5.25	5.63		0.280	0.340		0.310
10.000	1.0	0.707	0.01	5.25	5.63		0.280	0.340		0.310
11.000	7.9	5.652	0.08	5.20	5.59		0.330	0.380		0.355
12.000	15.8	11.304	0.16	5.15	5.55		0.380	0.420		0.400
13.000	24.7	17.663	0.25	5.11	5.51		0.420	0.460		0.440
14.000	32.6	23.315	0.33	5.08	5.47		0.450	0.500		0.475
15.000	41.5	29.673	0.42	5.03	5.43		0.500	0.540		0.520

		σ	ΔS	S_p
0.7 σ_1	0.35	0.2725	0.11938	0.2
0.3 σ_1	0.15	0.15313		
0.7 σ_2	0.35	0.485	0.085	0.2
0.3 σ_2	0.15	0.4		
D (mm)	300			
E_{s1}	176.85			
E_{s2}	129.44			
Area (Sq.m)	0.07065			

E_{v2}/E_{v1}	1.48		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Signature: *[Signature]*
Name: *[Name]*
Sign: *[Signature]*
شروع المقطار السريع / فوكة - مطروح

Consultant Engineer

Name :

Sign :



Contractor



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2		0.90+
514+700	TO	514+800
23-10-23		

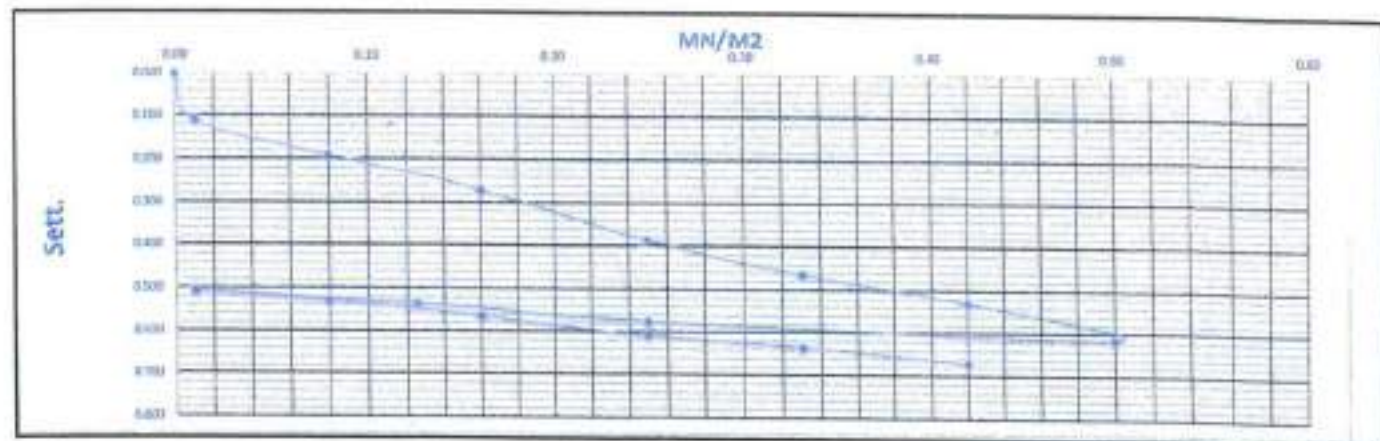
COMPANY	VOUSEF NEGIDA I
Location	514+700

Loadkg	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	kN	MPa	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	6.70	8.13		0.000	0.000		0.000
1.000	1.0	0.707	0.01	6.56	8.05		0.140	0.080		0.110
2.000	7.9	5.652	0.08	6.47	7.98		0.230	0.150		0.190
3.000	15.8	11.304	0.16	6.40	7.89		0.300	0.240		0.270
4.000	24.7	17.663	0.25	6.33	7.73		0.370	0.400		0.385
5.000	32.6	23.315	0.33	6.26	7.64		0.440	0.490		0.465
6.000	41.5	29.673	0.42	6.22	7.55		0.480	0.530		0.530
7.000	49.4	35.325	0.50	6.14	7.46		0.560	0.670		0.615
8.000	24.7	17.663	0.25	6.17	7.51		0.530	0.620		0.575
9.000	12.4	8.831	0.12	6.20	7.56		0.500	0.570		0.535
9.000	1.0	0.707	0.01	6.22	7.60		0.480	0.530		0.505
10.000	1.0	0.707	0.01	6.22	7.60		0.480	0.530		0.505
11.000	7.9	5.652	0.08	6.20	7.57		0.500	0.560		0.530
12.000	15.8	11.304	0.16	6.17	7.53		0.530	0.600		0.565
13.000	24.7	17.663	0.25	6.12	7.49		0.580	0.640		0.610
14.000	32.6	23.315	0.33	6.10	7.46		0.600	0.670		0.635
15.000	41.5	29.673	0.42	6.07	7.42		0.630	0.710		0.670

		I	AS	AS
0.7 σ_1	0.35	0.45563	0.19563	0.2
0.3 σ_1	0.15	0.26		
0.7 σ_2	0.35	0.64278	0.08778	0.2
0.3 σ_2	0.15	0.555		
D (mm)	300			
E_{s1}	230.03			
E_{s2}	512.67			
Area (Sq.m)	0.07065			

E=20x1	1.23		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :
Sign :

Lab. Engineer

Name : *Eng. Hani Al-Murad*
Sign : *[Signature]*
شؤون القياس / فوكة - مطروح

Consultant Engineer

Name : *[Signature]*
Sign : *[Signature]*



Contractor

Contractor



Contractor



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2	0.90+
514+700	TO 514+800
23-10-23	

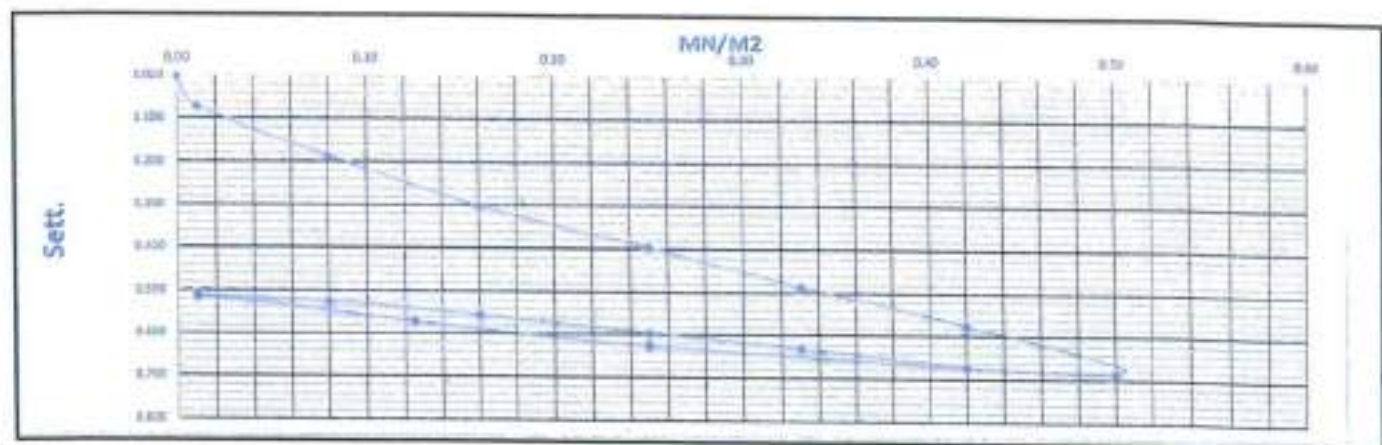
COMPANY	VOUSEF NEGIDA 1
Location	514+785

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	KN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	6.20	9.05		0.000	0.000		0.000
1.000	1.0	0.707	0.01	6.13	8.98		0.070	0.070		0.070
2.000	7.9	5.652	0.08	6.03	8.85		0.170	0.200		0.185
3.000	15.8	11.304	0.16	5.91	8.74		0.290	0.310		0.300
4.000	24.7	17.663	0.25	5.81	8.65		0.390	0.400		0.395
5.000	32.6	23.315	0.33	5.73	8.55		0.470	0.500		0.485
6.000	41.5	29.673	0.42	5.64	8.46		0.560	0.590		0.575
7.000	49.4	35.325	0.50	5.53	8.35		0.670	0.700		0.685
8.000	24.7	17.663	0.25	5.59	8.41		0.610	0.640		0.625
9.000	12.4	8.831	0.12	5.64	8.47		0.560	0.580		0.570
9.000	1.0	0.707	0.01	5.69	8.54		0.510	0.510		0.510
10.000	1.0	0.707	0.01	5.69	8.54		0.510	0.510		0.510
11.000	7.9	5.652	0.08	5.68	8.52		0.520	0.530		0.525
12.000	15.8	11.304	0.16	5.66	8.48		0.540	0.570		0.555
13.000	24.7	17.663	0.25	5.64	8.42		0.560	0.630		0.595
14.000	32.6	23.315	0.33	5.60	8.39		0.600	0.660		0.630
15.000	41.5	29.673	0.42	5.54	8.37		0.660	0.680		0.670

0.7 σ_1	0.35	0.47875	AS	SA
0.3 σ_1	0.15	0.28563	0.19313	0.2
0.7 σ_1	0.35	0.43889	0.09889	0.2
0.3 σ_1	0.15	0.54		
D (mm)	300			
E_{v1}	233.81			
E_{v2}	455.06			
Area (Sq.m)	0.07065			

Ex/Dx1	1.95		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign : *Abdullah Al-Humaidi*
شركة نجيدة للمقاولات
والمعمل المركزي
مشروع القطار السريع / فوكة - مطري

Consultant Engineer

Name :

Sign :



Contractor



Consultant Engineer



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2	0.90+
514+800	TO 515+000
24-10-23	

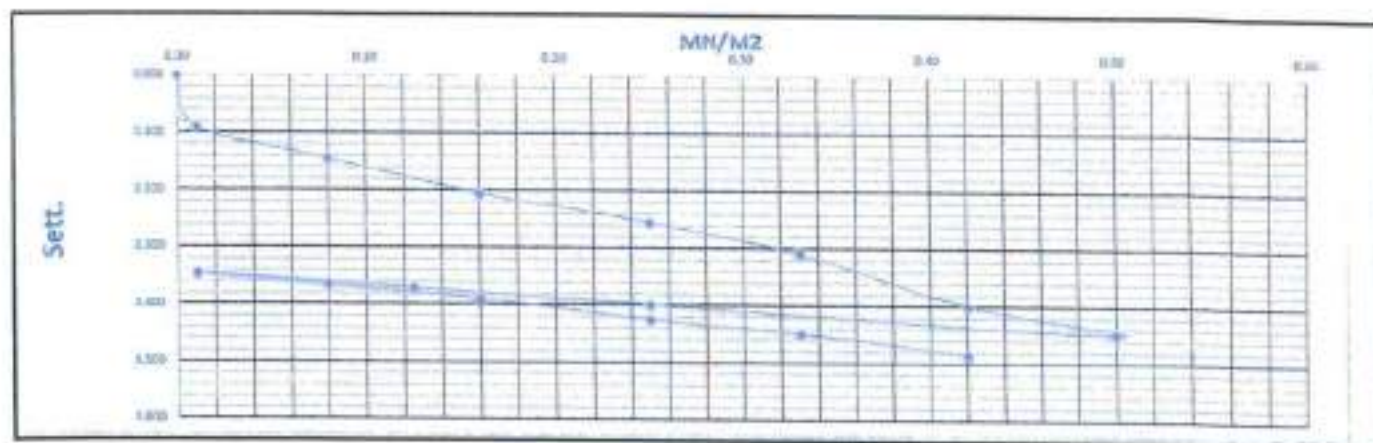
COMPANY	YOUSEF NEGIDA I
Location	514+810

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MM/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.00	7.58		0.000	0.000		0.000
1.000	1.0	0.707	0.01	6.90	7.50		0.100	0.080		0.090
2.000	7.9	5.652	0.08	6.86	7.43		0.140	0.150		0.145
0.080	15.8	11.304	0.16	6.81	7.36		0.190	0.220		0.205
4.000	24.7	17.663	0.25	6.77	7.30		0.230	0.280		0.255
5.000	32.6	23.315	0.33	6.72	7.24		0.280	0.340		0.310
6.000	41.5	29.673	0.42	6.63	7.15		0.370	0.430		0.400
7.000	49.4	35.325	0.50	6.59	7.09		0.410	0.490		0.450
8.000	24.7	17.663	0.25	6.64	7.14		0.360	0.440		0.400
9.000	12.4	8.831	0.12	6.68	7.16		0.320	0.420		0.370
9.000	1.0	0.707	0.01	6.70	7.19		0.300	0.390		0.345
10.000	1.0	0.707	0.01	6.70	7.19		0.300	0.390		0.345
11.000	7.9	5.652	0.08	6.68	7.17		0.320	0.410		0.365
12.000	15.8	11.304	0.16	6.65	7.15		0.350	0.430		0.390
13.000	24.7	17.663	0.25	6.61	7.12		0.390	0.460		0.425
14.000	32.6	23.315	0.33	6.58	7.10		0.420	0.480		0.450
15.000	41.5	29.673	0.42	6.55	7.06		0.450	0.520		0.485

		σ	ΔS	$\Delta \sigma$
$0.1 \sigma_1$	0.35	0.35825	0.15875	0.2
$0.3 \sigma_1$	0.15	0.1975		
$0.7 \sigma_2$	0.35	0.45778	0.07378	0.2
$0.3 \sigma_2$	0.15	0.385		
D (mm)	300			
E_{v1}	283.46			
E_{v2}	418.34			
Area (sq.m)	0.07065			

E_{v1}/E_{v2}	2.11		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :
Sign :

Lab. Engineer

Name :
Sign :

Consultant Engineer

Name :
Sign :



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2		0.90+
514+800	TO	515+000
24-10-23		

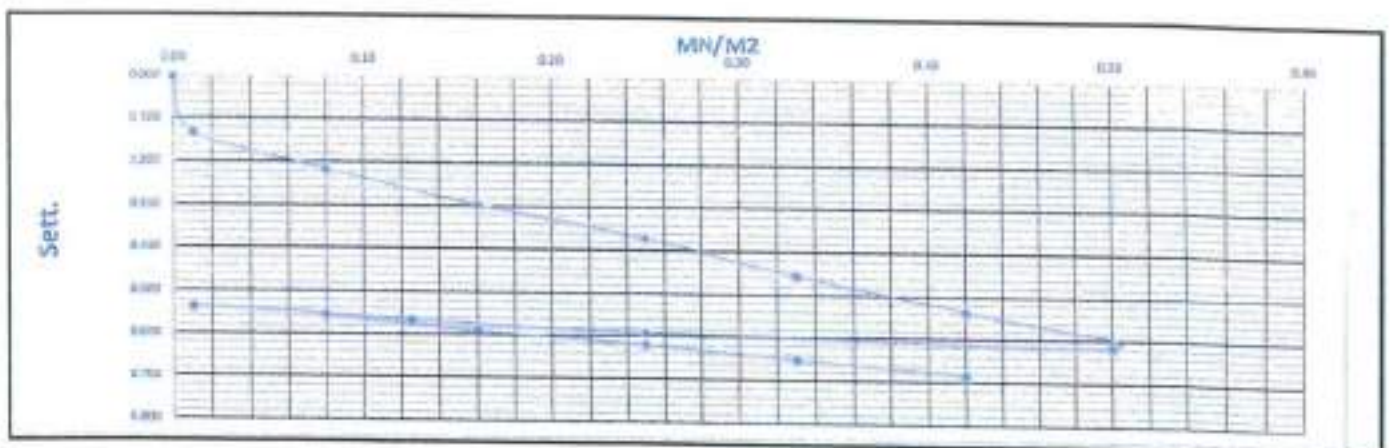
COMPANY	YOUSSEF NEGIDA I
Location	514+835

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	kN	MPa	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.99	9.00		0.000	0.000		0.000
1.000	1.0	0.707	0.01	7.82	8.91		0.170	0.090		0.130
2.000	7.9	5.652	0.08	7.73	8.83		0.260	0.170		0.215
3.000	15.8	11.304	0.16	7.64	8.76		0.350	0.240		0.295
4.000	24.7	17.663	0.25	7.55	8.70		0.440	0.300		0.370
5.000	32.6	23.315	0.33	7.46	8.62		0.530	0.380		0.455
6.000	41.5	29.673	0.42	7.38	8.54		0.610	0.460		0.535
7.000	49.4	35.325	0.50	7.30	8.46		0.690	0.540		0.615
8.000	24.7	17.663	0.25	7.32	8.49		0.670	0.510		0.590
9.000	12.4	8.831	0.12	7.35	8.51		0.640	0.490		0.565
9.000	1.0	0.707	0.01	7.38	8.54		0.610	0.460		0.535
10.000	1.0	0.707	0.01	7.38	8.54		0.610	0.460		0.535
11.000	7.9	5.652	0.08	7.36	8.52		0.630	0.480		0.555
12.000	15.8	11.304	0.16	7.33	8.48		0.660	0.520		0.590
13.000	24.7	17.663	0.25	7.30	8.45		0.690	0.550		0.620
14.000	32.6	23.315	0.33	7.26	8.43		0.730	0.570		0.650
15.000	41.5	29.673	0.42	7.22	8.40		0.770	0.600		0.685

σ_1	σ_2	σ_3	σ_4	σ_5
0.7	0.35	0.465		
0.3	0.15	0.285		
0.7	0.35	0.465778		
0.3	0.15	0.28575		
D (mm)	304			
E_{v1}	250.00			
E_{v2}	541.94			
Area (Sq.m)	0.07065			

Ex/Ev	2.17		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

Consultant Engineer

Name :

Sign :

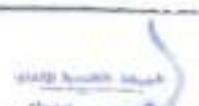


Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2		0.90+
514+800	TO	515+000
24-10-23		

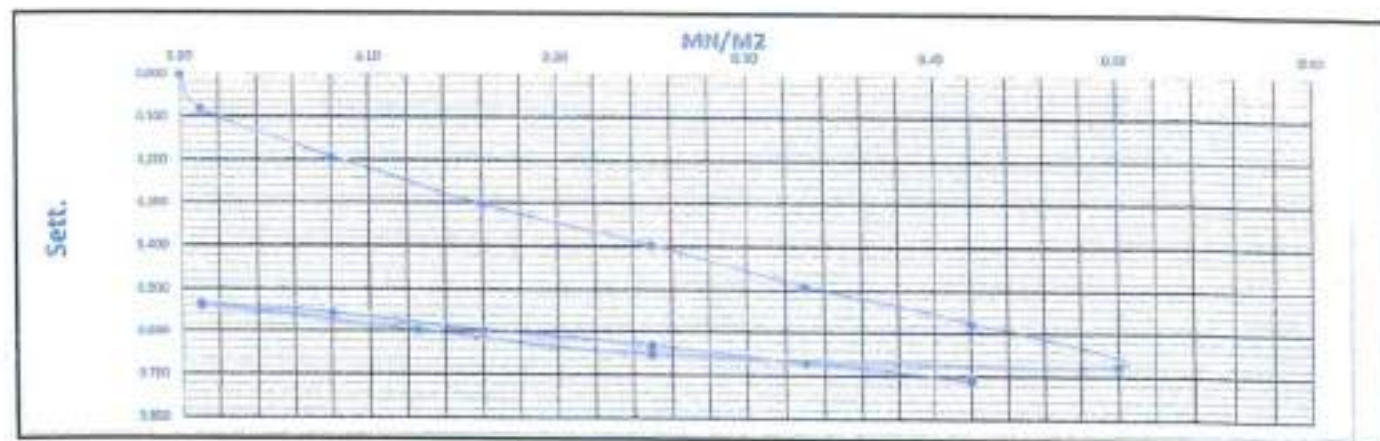
COMPANY	YOUSEF NEGIDA 1
Location	514+800

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg Sett.
Stage No.	Bar	kN	MM/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	9.61	6.16		0.000	0.000		0.000
1.000	1.0	0.707	0.01	9.53	6.08		0.080	0.080		0.080
2.000	7.9	5.652	0.08	9.43	5.96		0.180	0.200		0.190
0.080	15.8	11.304	0.16	9.32	5.85		0.290	0.310		0.300
4.000	24.7	17.663	0.25	9.24	5.74		0.370	0.420		0.395
5.000	32.6	23.315	0.33	9.12	5.67		0.490	0.490		0.490
6.000	41.5	29.673	0.42	9.04	5.58		0.570	0.580		0.575
7.000	49.4	35.325	0.50	8.95	5.47		0.660	0.690		0.675
8.000	24.7	17.663	0.25	8.98	5.49		0.630	0.670		0.650
9.000	12.4	8.831	0.13	9.04	5.54		0.570	0.620		0.595
9.000	1.0	0.707	0.01	9.10	5.60		0.510	0.560		0.535
10.000	1.0	0.707	0.01	9.10	5.60		0.510	0.560		0.535
11.000	7.9	5.652	0.08	9.09	5.57		0.520	0.590		0.555
12.000	15.8	11.304	0.16	9.04	5.54		0.570	0.620		0.595
13.000	24.7	17.663	0.25	9.01	5.50		0.600	0.660		0.630
14.000	32.6	23.315	0.33	8.97	5.46		0.640	0.700		0.670
15.000	41.5	29.673	0.42	8.92	5.43		0.690	0.730		0.710

		σ	ΔS	S_e
0.1 σ_1	0.35	0.4875	0.20125	0.2
0.3 σ_1	0.15	0.28625		
0.7 σ_2	0.35	0.67889	0.10389	0.2
0.3 σ_2	0.15	0.575		
D (mm)	300			
E_{v1}	223.40			
E_{v2}	433.16			
Area (sqm)	0.07065			

E_{v1}/E_{v2}	1.94		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name: *Abdullah H. Hamdi*
Sign: *Abdullah H. Hamdi*
مهندس المختبر / مهندس مختبر - مطروح

Consultant Engineer

Name :

Sign :

Abdullah



Contractor Consultant

Contractor



Contractor



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2		0.90+
514+800	TO	515+000
24-10-23		

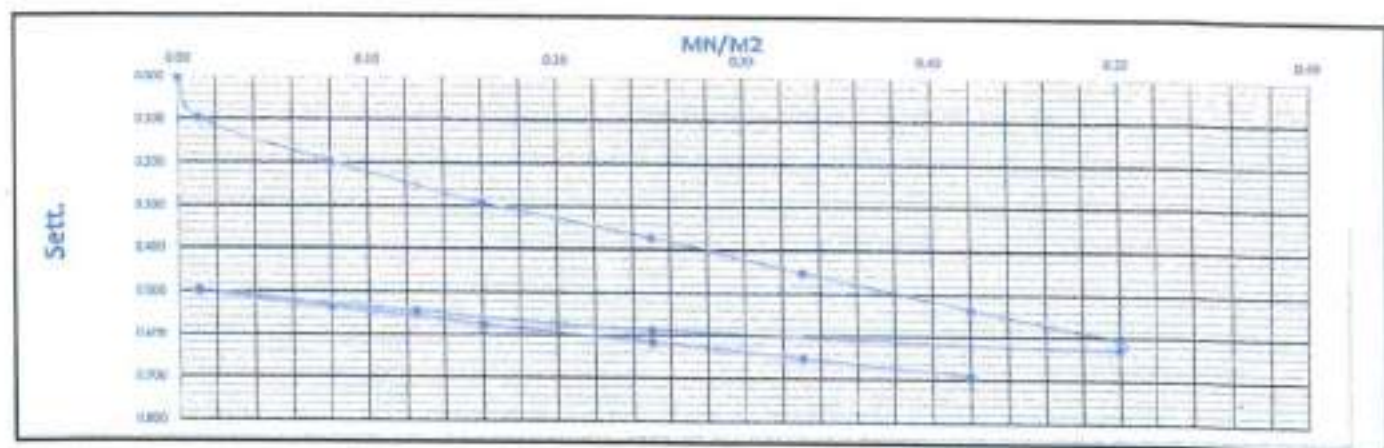
COMPANY	VOUSEF NEGIDA 1
Location	514+885

Load/Step	Load	Load	Stress	Dist 1	Dist 2	Dist 3	Sett. 1	Sett. 2	Sett. 3	ΔSE, Sett.
Stage No.	Bar	kN	MPa	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	8.28	7.50		0.000	0.000		0.000
1.000	1.0	0.707	0.01	8.17	7.42		0.110	0.080		0.095
2.000	7.9	5.652	0.08	8.08	7.31		0.200	0.190		0.195
3.000	15.8	11.304	0.16	7.98	7.22		0.300	0.280		0.290
4.000	24.7	17.663	0.25	7.90	7.14		0.380	0.360		0.370
5.000	32.6	23.315	0.33	7.82	7.06		0.460	0.440		0.450
6.000	41.5	29.673	0.42	7.76	6.95		0.520	0.550		0.535
7.000	49.4	35.325	0.50	7.67	6.86		0.610	0.640		0.625
8.000	24.7	17.663	0.25	7.71	6.90		0.570	0.600		0.585
9.000	12.4	8.831	0.12	7.75	6.94		0.530	0.560		0.545
9.000	1.0	0.707	0.01	7.80	6.99		0.480	0.510		0.495
10.000	1.0	0.707	0.01	7.80	6.99		0.480	0.510		0.495
11.000	7.9	5.652	0.08	7.75	6.96		0.530	0.540		0.535
12.000	15.8	11.304	0.16	7.71	6.92		0.570	0.580		0.575
13.000	24.7	17.663	0.25	7.68	6.87		0.600	0.630		0.615
14.000	32.6	23.315	0.33	7.64	6.84		0.640	0.660		0.650
15.000	41.5	29.673	0.42	7.60	6.80		0.680	0.700		0.690

		σ	ΔS	S_e
0.7 σ_1	0.35	0.45615	0.17813	0.2
0.3 σ_1	0.15	0.27813		
0.7 σ_2	0.35	0.65889	0.08388	0.2
0.3 σ_2	0.15	0.575		
D (mm)	300			
E_{s1}	102.63			
E_{s2}	136.45			
Area (sq.m)	0.07065			

E_{s1}/E_{s2}	2.12		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :
Sign :

Lab. Engineer

Name : *شیرین محمدی*
Sign : *شیرین محمدی*
شماره: ۱۴۰۳/۱۰/۲۴ - مهره: ۱۴۰۳/۱۰/۲۴

Consultant Engineer

Name :
Sign : *شیرین محمدی*



Contractor Consultant

Contractor



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2	0.90+
514+800	TO 515+000
24-10-23	

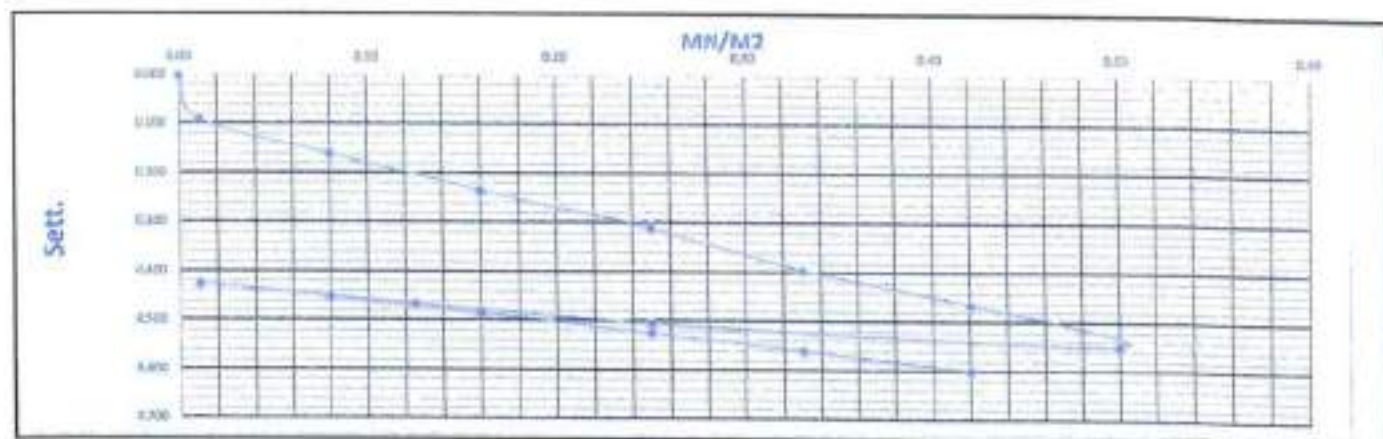
COMPANY	YOUSEF NEGIDA I
Location	514+910

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MPa	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	6.66	7.49		0.000	0.000		0.000
1.000	1.0	0.707	0.01	6.57	7.40		0.090	0.090		0.090
2.000	7.9	5.652	0.08	6.50	7.33		0.160	0.160		0.160
0.080	15.8	11.304	0.16	6.42	7.26		0.240	0.230		0.235
4.000	24.7	17.663	0.25	6.33	7.20		0.330	0.290		0.310
5.000	32.6	23.315	0.33	6.24	7.12		0.420	0.370		0.395
6.000	41.5	29.673	0.42	6.17	7.05		0.490	0.440		0.465
7.000	49.4	35.325	0.50	6.10	6.95		0.560	0.540		0.550
8.000	24.7	17.663	0.25	6.14	7.00		0.520	0.490		0.505
9.000	12.4	8.831	0.12	6.18	7.04		0.480	0.450		0.465
9.000	1.0	0.707	0.01	6.22	7.08		0.440	0.410		0.425
10.000	1.0	0.707	0.01	6.22	7.08		0.440	0.410		0.425
11.000	7.9	5.652	0.08	6.20	7.05		0.460	0.440		0.450
12.000	15.8	11.304	0.16	6.16	7.02		0.500	0.470		0.485
13.000	24.7	17.663	0.25	6.13	6.97		0.530	0.520		0.525
14.000	32.6	23.315	0.33	6.10	6.93		0.560	0.560		0.560
15.000	41.5	29.673	0.42	6.05	6.90		0.610	0.590		0.600

		s	SS	Set
0.7 σ_1	0.35	0.39963	0.115	0.2
0.3 σ_1	0.15	0.21563		
0.7 σ_2	0.35	0.56889	0.09189	0.2
0.3 σ_2	0.15	0.475		
D (mm)	300			
E_{v1}	172.73			
E_{v2}	179.30			
Area (Sq.m)	0.07065			

End Box	1.76		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :
Sign :

Lab. Engineer

Name : *Eng. Hisham H. Hisham*
Sign : *Eng. Hisham H. Hisham*
مشروع التطوير السريع / فوكس - مطروح

Consultant Engineer

Name : *Eng. Hisham H. Hisham*
Sign : *Eng. Hisham H. Hisham*



Contractor



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2	0.90+
514+800	TO 515+000
24-10-23	

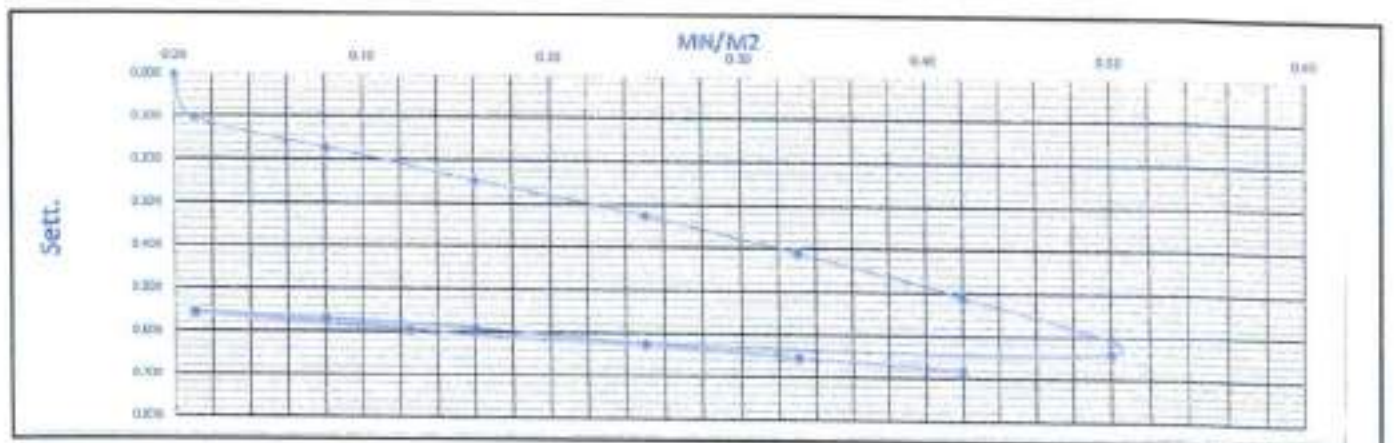
COMPANY	VOUSEF NEGIDA 1
Location	514+815

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	ASL Sett.
Stage No.	Bar	KN	KN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	8.70	7.90		0.000	0.000		0.000
1.000	1.0	0.707	0.01	8.59	7.81		0.110	0.090		0.100
2.000	7.9	5.652	0.08	8.54	7.72		0.160	0.180		0.170
0.080	15.8	11.304	0.16	8.49	7.62		0.210	0.280		0.245
4.000	24.7	17.663	0.25	8.40	7.55		0.300	0.350		0.325
5.000	32.6	23.315	0.33	8.31	7.47		0.390	0.430		0.410
6.000	41.5	29.673	0.42	8.21	7.37		0.490	0.530		0.510
7.000	49.4	35.325	0.50	8.07	7.25		0.630	0.650		0.640
8.000	24.7	17.663	0.25	8.08	7.27		0.620	0.630		0.625
9.000	12.4	8.831	0.12	8.10	7.31		0.600	0.590		0.595
9.000	1.0	0.707	0.01	8.13	7.36		0.570	0.540		0.555
10.000	1.0	0.707	0.01	8.13	7.36		0.570	0.540		0.555
11.000	7.9	5.652	0.08	8.12	7.34		0.580	0.560		0.570
12.000	15.8	11.304	0.16	8.10	7.32		0.600	0.580		0.590
13.000	24.7	17.663	0.25	8.06	7.29		0.640	0.610		0.625
14.000	32.6	23.315	0.33	8.03	7.26		0.670	0.640		0.655
15.000	41.5	29.673	0.42	8.00	7.24		0.700	0.660		0.680

			AS	So
0.7 σ_1	0.35	0.39625	0.16962	0.2
0.3 σ_1	0.15	0.23563		
0.7 σ_2	0.35	0.60956	0.07353	0.2
0.3 σ_2	0.15	0.585		
D (mm)	300			
E_{p1}	280,10			
E_{p2}	595,60			
Area (Sq.m)	0.07065			

Ev/Ev1	2.33		
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LOAD
UN LOAD
RE. LOAD



Lab. Specialist

Name :
Sign :

Lab. Engineer

Name :
Sign :
مهندس المختار السري / فؤدة - مطروح

Consultant Engineer

Name :
Sign : *Mohamed*



Contractor



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2		0.90+
514+800	TO	515+000
24-10-23		

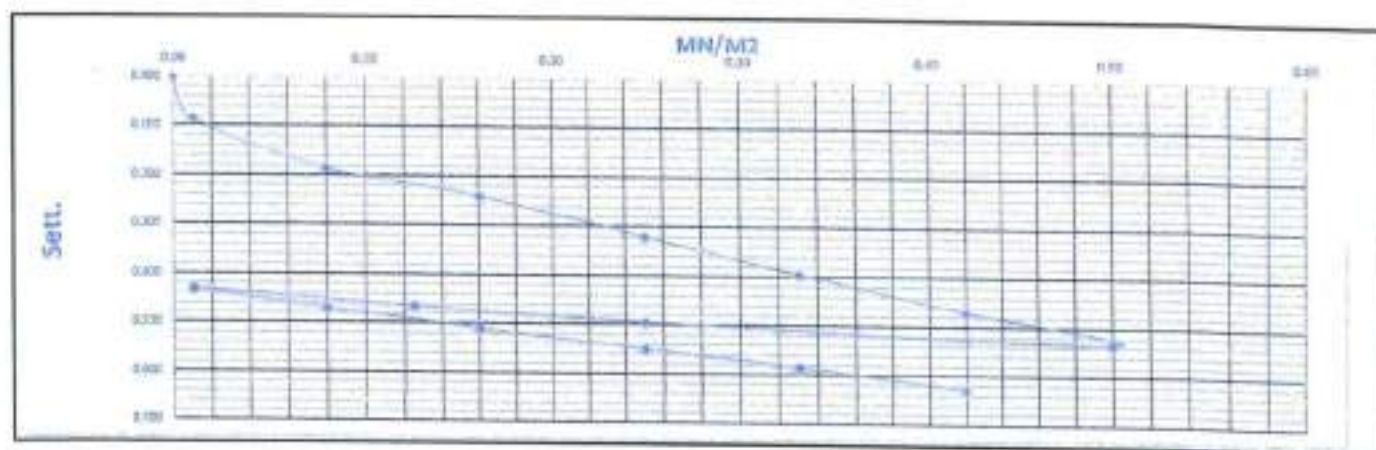
COMPANY	YOUSSEF NEGIDA 1
Location	514+950

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	kN	kN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.11	8.42		0.000	0.000		0.000
1.000	1.0	0.707	0.01	7.03	8.33		0.080	0.090		0.085
2.000	7.9	5.652	0.08	6.92	8.24		0.190	0.180		0.185
0.080	15.8	11.304	0.16	6.90	8.15		0.210	0.270		0.240
4.000	24.7	17.663	0.25	6.83	8.06		0.280	0.360		0.320
5.000	32.6	23.315	0.33	6.74	8.00		0.370	0.420		0.395
6.000	41.5	29.673	0.42	6.66	7.93		0.450	0.490		0.470
7.000	49.4	35.325	0.50	6.60	7.86		0.510	0.560		0.535
8.000	24.7	17.663	0.25	6.64	7.90		0.470	0.520		0.495
9.000	12.4	8.831	0.12	6.67	7.93		0.440	0.490		0.465
9.000	1.0	0.707	0.01	6.71	7.96		0.400	0.460		0.430
10.000	1.0	0.707	0.01	6.71	7.96		0.400	0.440		0.430
11.000	7.9	5.652	0.08	6.67	7.92		0.440	0.500		0.470
12.000	15.8	11.304	0.16	6.63	7.88		0.480	0.540		0.510
13.000	24.7	17.663	0.25	6.60	7.83		0.510	0.590		0.550
14.000	32.6	23.315	0.33	6.56	7.80		0.550	0.620		0.585
15.000	41.5	29.673	0.42	6.52	7.75		0.590	0.670		0.630

		1	AS	IS
0.7 σ_1	0.35	0.41313	0.18	0.2
0.3 σ_1	0.15	0.23313		
0.7 σ_2	0.35	0.595	0.015	0.2
0.3 σ_2	0.15	0.51		
D (mm)	300			
E_{v1}	250.00			
E_{v2}	529.44			
Area (Sq.m)	0.07065			

E_{v1}/E_{v2}	2.11		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :
Sign :

Lab. Engineer

Name: *Mustafa Hameed*
Sign: *[Signature]*
[Stamp]

Consultant Engineer

Name :
Sign: *[Signature]*



Contractor



Client



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST 2	0.90+
514+800	TO
515+000	
24-10-23	

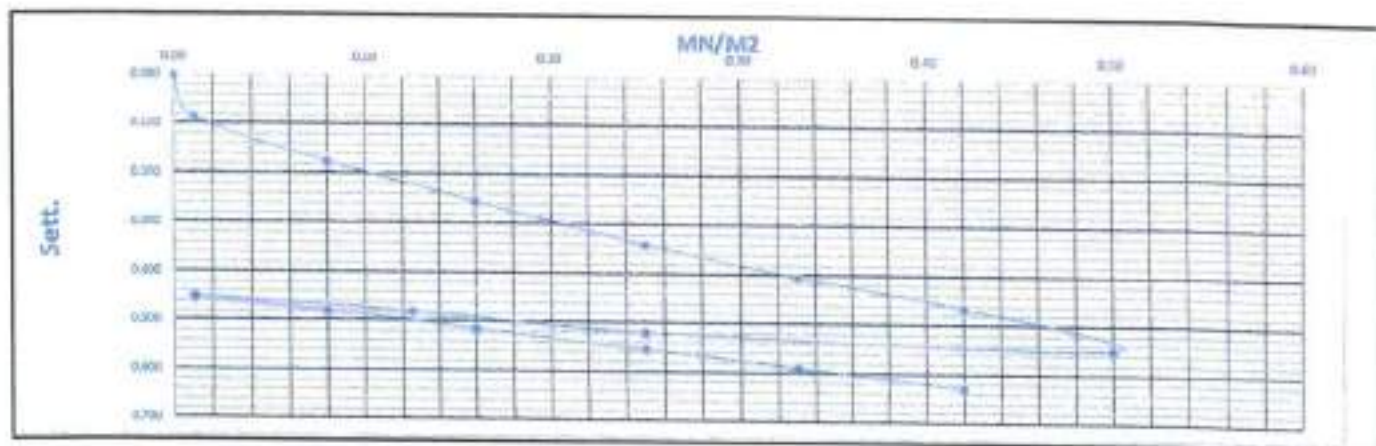
COMPANY	VOUSEF NEGIDA 1
Location	514+985

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	kN	MPa/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.19	8.57		0.000	0.000		0.000
1.000	1.0	0.707	0.01	7.09	8.50		0.100	0.070		0.085
2.000	7.9	5.652	0.08	7.00	8.41		0.190	0.160		0.175
0.080	15.8	11.304	0.16	6.92	8.33		0.270	0.240		0.255
4.000	24.7	17.663	0.25	6.84	8.24		0.350	0.330		0.340
5.000	32.6	23.315	0.33	6.79	8.16		0.400	0.410		0.405
6.000	41.5	29.673	0.42	6.71	8.12		0.480	0.450		0.465
7.000	49.4	35.325	0.50	6.63	8.03		0.560	0.540		0.550
8.000	24.7	17.663	0.25	6.66	8.06		0.530	0.510		0.520
9.000	12.4	8.831	0.12	6.70	8.10		0.490	0.470		0.480
9.000	1.0	0.707	0.01	6.73	8.13		0.460	0.440		0.450
10.000	1.0	0.707	0.01	6.73	8.13		0.460	0.440		0.450
11.000	7.9	5.652	0.08	6.70	8.10		0.490	0.470		0.480
12.000	15.8	11.304	0.16	6.68	8.05		0.510	0.520		0.515
13.000	24.7	17.663	0.25	6.64	8.01		0.550	0.560		0.555
14.000	32.6	23.315	0.33	6.60	7.98		0.590	0.590		0.590
15.000	41.5	29.673	0.42	6.55	7.95		0.640	0.620		0.630

		i	AS	Ar
0.7 σ_1	0.35	0.39063	0.14563	0.2
0.3 σ_1	0.15	0.245		
0.7 σ_2	0.35	0.59889	0.08889	0.2
0.3 σ_2	0.15	0.51		
D (mm)	300			
E ₁	300.81			
E ₂	506.27			
Area (Sq.m)	0.07065			

E=2E ₁	1.44		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :
Sign :

Lab. Engineer

Name : *Shahid Hossain*
Sign : *Shahid Hossain*
مهندس شهاب حسين
مهندس الاختبار والادماج - مطروح

Consultant Engineer

Name :
Sign : *Shahid Hossain*



Contractor



Plate Load Test Results

Layer: SUB-BALLAST 0.90+
 Station: 517+020 TO 517+100
 Date: 05-11-23

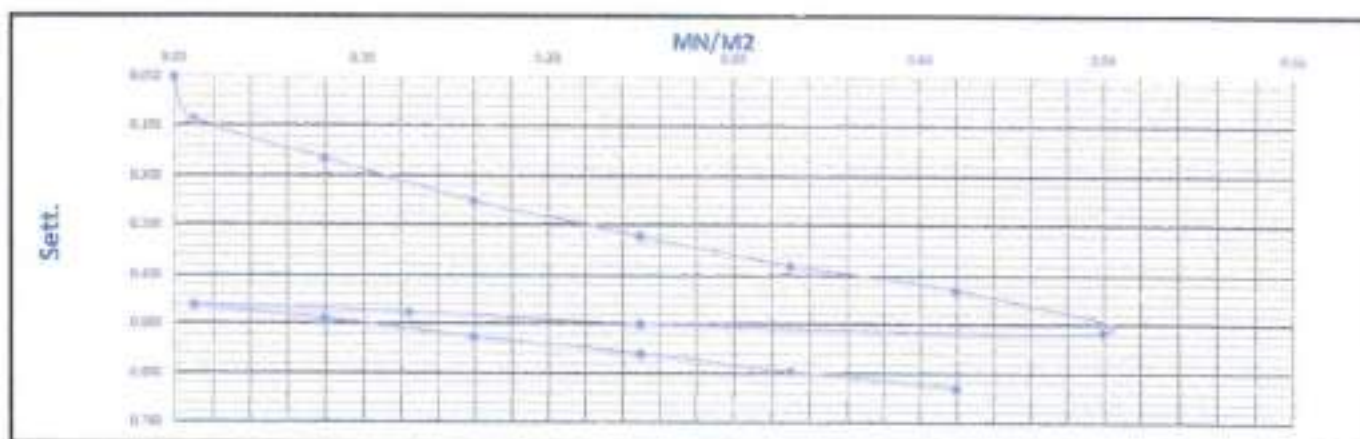
COMPANY	Y-USEF NEGIDA 1
Location	517+025

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	MM/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	6.81	8.21		0.000	0.000		0.000
1.000	1.0	0.707	0.01	6.73	8.12		0.080	0.098		0.085
2.000	1.9	5.652	0.08	6.66	8.03		0.150	0.180		0.165
3.000	15.8	11.304	0.16	6.58	7.94		0.230	0.270		0.250
4.000	24.7	17.663	0.25	6.52	7.86		0.290	0.350		0.320
5.000	32.6	23.315	0.33	6.46	7.80		0.350	0.410		0.380
6.000	41.5	29.673	0.42	6.40	7.76		0.410	0.450		0.430
7.000	49.4	35.325	0.50	6.33	7.66		0.480	0.550		0.515
8.000	24.7	17.663	0.25	6.34	7.68		0.470	0.530		0.500
9.000	12.4	8.831	0.12	6.36	7.71		0.450	0.500		0.475
9.000	1.0	0.707	0.01	6.38	7.72		0.430	0.490		0.460
10.000	1.0	0.707	0.01	6.38	7.72		0.430	0.490		0.460
11.000	7.9	5.652	0.08	6.34	7.70		0.470	0.510		0.490
12.000	15.8	11.304	0.16	6.31	7.66		0.500	0.550		0.525
13.000	24.7	17.663	0.25	6.26	7.64		0.550	0.570		0.560
14.000	32.6	23.315	0.33	6.24	7.59		0.570	0.620		0.595
15.000	41.5	29.673	0.42	6.21	7.55		0.600	0.660		0.630

		σ	ΔS	$\Delta \sigma$
0.7 σ_1	0.35	0.35563	0.11625	0.2
0.3 σ_1	0.15	0.23938		
0.7 σ_2	0.35	0.60278	0.08277	0.2
0.3 σ_2	0.15	0.52		
D (mm)	300			
E_{v1}	387.10			
E_{v2}	543.64			
Area (Square)	0.67845			

Ex2Ex1	1.00		
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LOAD
 UN LOAD
 RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Shabab Hamdi

Sign :

شركة نجدة للمقاولات
 المعمل المركزي
 مشروع القطار السريع/فوكة - مطروح

Consultant Engineer

Name :

Sign :



Contractor Consultant

Contractor

Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST

0.90+

517+020

TO

517+100

05-11-23

COMPANY

YOUSSEF NEGIDA 1

Location

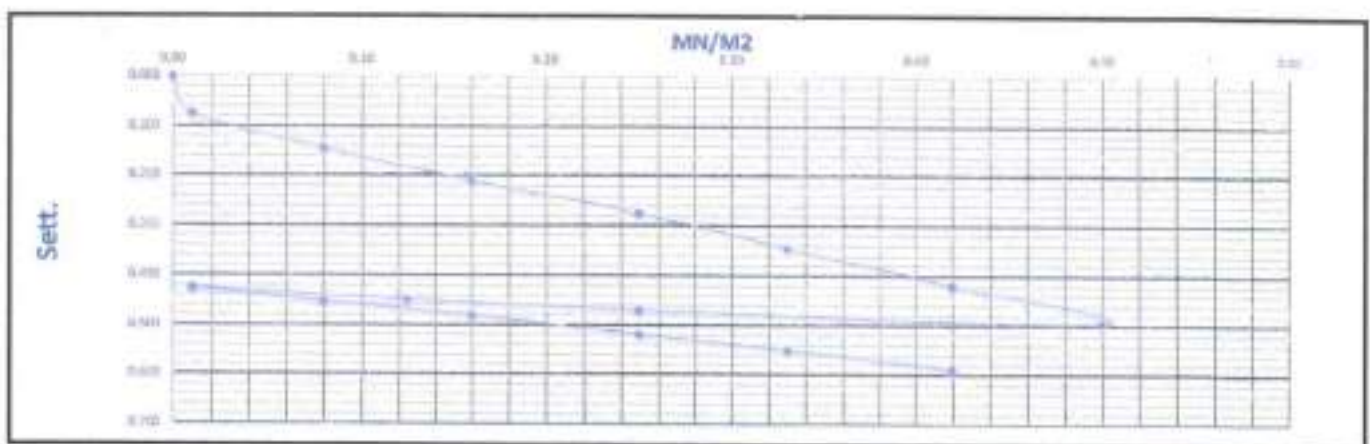
517+050

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg Sett.
Stage No.	Bar	KN	MM/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.65	8.93		0.000	0.000		0.000
1.000	1.0	0.707	0.01	7.59	8.84		0.060	0.090		0.075
2.000	7.9	5.652	0.08	7.52	8.77		0.130	0.160		0.145
3.000	15.8	11.304	0.16	7.46	8.70		0.190	0.230		0.210
4.000	24.7	17.663	0.25	7.40	8.63		0.250	0.300		0.275
5.000	32.6	23.315	0.33	7.34	8.55		0.310	0.380		0.345
6.000	41.5	29.673	0.42	7.26	8.48		0.390	0.450		0.420
7.000	49.4	35.325	0.50	7.18	8.41		0.470	0.520		0.495
8.000	24.7	17.663	0.25	7.21	8.43		0.440	0.500		0.470
9.000	12.4	8.831	0.12	7.23	8.45		0.420	0.480		0.450
9.000	1.0	0.707	0.01	7.25	8.48		0.400	0.450		0.425
10.000	1.0	0.707	0.01	7.25	8.48		0.400	0.450		0.425
11.000	7.9	5.652	0.08	7.22	8.45		0.430	0.480		0.455
12.000	15.8	11.304	0.16	7.19	8.43		0.460	0.500		0.480
13.000	24.7	17.663	0.25	7.17	8.37		0.480	0.560		0.520
14.000	32.6	23.315	0.33	7.14	8.34		0.510	0.590		0.550
15.000	41.5	29.673	0.42	7.10	8.30		0.550	0.630		0.590

		σ	US	σ_n
0.7 σ_1	0.35	0.35438	0.1525	0.2
0.3 σ_1	0.15	0.20188		
0.7 σ_2	0.35	0.55889	0.07389	0.2
0.3 σ_2	0.15	0.485		
D (mm)	300			
E_{v1}	205.80			
E_{v2}	209.45			
Area (Sq.m)	0.07065			

D ₂ /D ₁	2.06		
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LOAD
UNLOAD
RELOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Shohab Hamdi

Sign :

شركة ينجيدو للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

Consultant Engineer

Name :

Sign :

5/11/2023



Contractor Consultant

Contractor



Contractor



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST

0.90+

517+020

TO

517+100

05-11-23

COMPANY

YOUSSEF NEGIDA 1

Location

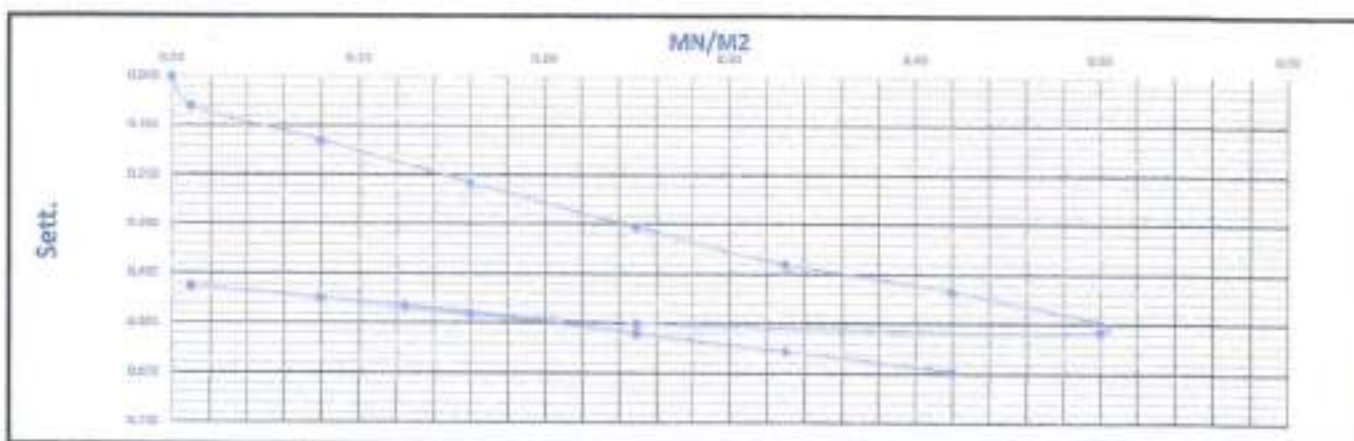
517+075

Loading	Load	Load	Stress	Dist 1	Dist 2	Dist 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	KN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	7.98	6.85		0.000	0.000		0.000
1.000	1.0	0.707	0.01	7.92	6.79		0.060	0.060		0.060
2.000	7.9	5.652	0.08	7.85	6.72		0.130	0.130		0.130
0.080	15.8	11.304	0.16	7.78	6.62		0.200	0.230		0.215
4.000	24.7	17.663	0.25	7.71	6.51		0.270	0.340		0.305
5.000	32.6	23.315	0.33	7.63	6.44		0.350	0.410		0.380
6.000	41.5	29.673	0.42	7.58	6.38		0.400	0.470		0.435
7.000	49.4	35.325	0.50	7.51	6.29		0.470	0.560		0.515
8.000	24.7	17.663	0.25	7.53	6.30		0.450	0.550		0.500
9.000	12.4	8.831	0.12	7.57	6.33		0.410	0.520		0.465
9.000	1.0	0.707	0.01	7.61	6.37		0.370	0.480		0.425
10.000	1.0	0.707	0.01	7.61	6.37		0.370	0.480		0.425
11.000	7.9	5.652	0.08	7.60	6.33		0.380	0.520		0.450
12.000	15.8	11.304	0.16	7.57	6.30		0.410	0.550		0.480
13.000	24.7	17.663	0.25	7.53	6.26		0.450	0.590		0.520
14.000	32.6	23.315	0.33	7.48	6.24		0.500	0.610		0.555
15.000	41.5	29.673	0.42	7.44	6.20		0.540	0.650		0.595

		α	IS	Av
0.7 σ_1	0.35	0.365	0.16963	0.2
0.3 σ_1	0.15	0.20438		
0.7 σ_1	0.35	0.56389	0.08885	0.2
0.3 σ_1	0.15	0.475		
D (mm)	300			
Ev ₁	200.10			
Ev ₂	506.25			
Area (Sq.m)	0.07865			

E ₂ /E ₁	1.81		
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LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Shafiq Haddad

Sign :

شركة بجيدة للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

Consultant Engineer

Name : 5/11/23

Sign :



Contractor Consultant

Contractor



Plate Load Test Results

Layer:
Station:
Date:

SUB-BALLAST

0.90+

517+020

TO

517+100

05-11-23

COMPANY

YOUSSEF NEGIDA I

Location

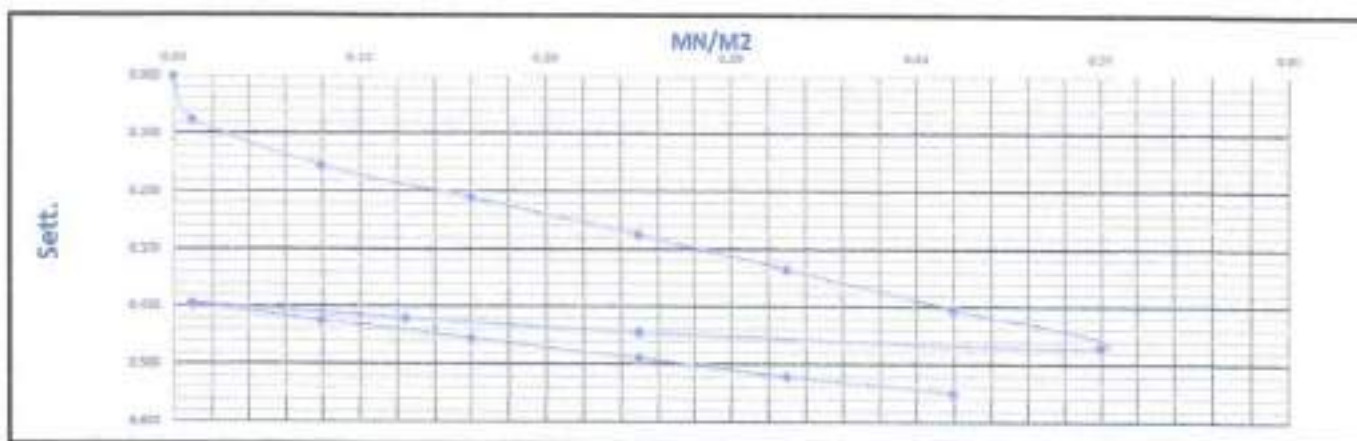
517+100

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	kN	MPa/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	6.17	7.21		0.000	0.000		0.000
1.000	1.0	0.707	0.01	6.09	7.14		0.080	0.070		0.075
2.000	7.9	5.652	0.08	6.01	7.06		0.160	0.150		0.155
0.080	15.8	11.304	0.16	5.96	7.00		0.210	0.210		0.210
4.000	34.7	17.663	0.25	5.90	6.93		0.270	0.280		0.275
5.000	32.6	23.315	0.33	5.83	6.88		0.340	0.330		0.335
6.000	41.5	29.673	0.42	5.76	6.81		0.410	0.400		0.405
7.000	49.4	35.325	0.50	5.70	6.74		0.470	0.470		0.470
8.000	24.7	17.663	0.25	5.73	6.76		0.440	0.450		0.445
9.000	12.4	8.831	0.12	5.75	6.79		0.420	0.420		0.420
9.000	1.0	0.707	0.01	5.78	6.81		0.390	0.400		0.395
10.000	1.0	0.707	0.01	5.78	6.81		0.390	0.400		0.395
11.000	7.9	5.652	0.08	5.75	6.78		0.420	0.430		0.425
12.000	15.8	11.304	0.16	5.72	6.75		0.450	0.460		0.455
13.000	24.7	17.663	0.25	5.68	6.72		0.490	0.490		0.490
14.000	32.6	23.315	0.33	5.65	6.69		0.520	0.520		0.520
15.000	41.5	29.673	0.42	5.61	6.67		0.560	0.540		0.550

		s	1/S	Av
0.7 σ_1	0.35	0.34813	0.145	0.2
0.3 σ_1	0.15	0.20313		
0.7 σ_2	0.35	0.52667	0.07166	0.2
0.3 σ_2	0.15	0.455		
D (mm)	300			
E_{v1}	319.24			
E_{v2}	621.93			
Area (Sq.m)	0.07065			

E_{v2}/E_{v1}	1.95		
-----------------	------	--	--

LOAD
UNLOAD
RELOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name : Shihab Hamdi

Sign :

شركة تجيد للمقاولات
المعمل المركزي
مشروع القطار السريع / فوكة - مطروح

Consultant Engineer

Name : 5/11

Sign :

2023



قائمة الكميات الواردة بالمستخلص جاري (٢)

مشروع : القطار الكهربائي السريع (العين المسخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم ٥١٤+٠٠٠ الى الكم ٥١٨+٥٠٠ بطول ٤,٥ كيلو متر بالاتجاهين

رقم البند و بيانه : (١-٤) أعمال توريد وتشغيل طبقات التأسيس (prepared subgrade)

تنفيذ : شركة يوسف نجيدة للمقاولات

مقدار العمل السابق : ١٨٦٩٧,٦٤ م ٣

الكمية	الابعاد (متر)		الموقع الكيلومتری		بيان الاعمال بالمقايضة
	مساحة المقطع	طول	الى	من	
٤٦٩,٤٥	٢,٩١٢	١٢٠	٥١٥+٣٠٠	٥١٥+١٨٠	القطاع الأول طبقة تأسيس أولى
٤٦٥,٢٣	٢,٨٧٧	١٢٠	٥١٥+٩٦٠	٥١٥+٨٤٠	القطاع الثاني طبقة تأسيس أولى
٥٩٥,٦٥	٢,٧١٣	١٦٠	٥١٤+١٦٠	٥١٤+٠٠٠	القطاع الثالث طبقة تأسيس ثانية
٩٦٧,٩٩	٢,٧١٣	٢٦٠	٥١٥+٣٠٠	٥١٥+٠٤٠	القطاع الرابع طبقة تأسيس ثانية
٢٠٠٥,٢٧	٢,٩٣٢	٥١٠	٥١٦+٣٥٠	٥١٥+٨٤٠	القطاع الخامس طبقة تأسيس ثانية
٢٦٠٣,٨٤	٩,٢٩٩	٢٨٠	٥١٧+١٦٠	٥١٦+٨٨٠	القطاع السادس طبقة تأسيس ثانية
٧١٠٧,٤٣	اجمالي الكميات خلال فترة المستخلص الحالية (م ^٢)				
٢٥٨٠٥,٠٧	الاجمالي الكلي (م ^٢)				

مهندس الهيئة العامة
للطرق والكباري
م / إبراهيم عطوي

مهندس الاستشاري
مكتب د/خالد قنديل
م / خالد فوزي

مهندس الاستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / زيد علي

٢٠١١/١٢/٢٩



قائمة الكميات الواردة بالمستخلص جاري (٢)

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم ١٤+٠٠٠ الى الكم ١٨+٥٠٠ بطول ٤,٥ كيلو متر بالاتجاهين

رقم البند و بيانه : (١-٤) علاوة مسافة النقل ٧٢ كم لأعمال طبقات التأسيس (prepared subgrade)

تقريباً : شركة يوسف نجيدة للمقاولات

علاوة مسافة النقل

تقريباً : شركة يوسف نجيدة للمقاولات

٣م

١٨٦٩٧,٦٤

مقدار العمل السابق :

الكمية	بيان بالكميات
٧١٠٧,٤٣	الكمية طبقاً لقرائن الكميات
٧١٠٧,٤٣	اجمالي الكميات خلال فترة المستخلص الحالية (م٣)
٢٥٨٠٥,٠٧	الاجمالي الكلي (م٣)

مهندس الهيئة العامة
للطرق والكباري
م / إبراهيم الحناوي

مهندس الاستشاري
مكتب د/خالد قنديل
م / خالد فوزي

مهندس الاستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / زياد علي

٢٠٢٢-١١-٢٩

محمد خليل

زياد علي



قائمة الكميات الواردة بالمستخلص جاري (٢)

مشروع : الخطار الكهربائي السريع (العين المسخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم ٥١٤+٠٠٠ الى الكم ٥١٨+٥٠٠ بطول ٤,٥ كيلو متر بالاتجاهين

رقم البند و بيانه : (١-٤) رسوم الكارطة والموازين طبقاً للمادة (٣٦) من الشروط العامة والمواصفات طبقاً لما جاء بالقائمة الموحدة لاسعار الطرق لأعمال طبقات التأسيس (prepared subgrade)

تتفيذ : شركة يوسف نجيدة للمقاولات

الكارطات والموازين

تتفيذ : شركة يوسف نجيدة للمقاولات

م

١٨٦٩٧,٦٤

مقدار العمل السابق :

الكمية	بيان بالكميات
٧١٠٧,٤٣	الكمية طبقاً لتقوائم الكميات
٧١٠٧,٤٣	اجمالي الكميات خلال فترة المستخلص الحالية (م)
٢٥٨٠٥,٠٧	الاجمالي الكلي (م ^٢)

مهندس الهيئة العامة
للطرق والكباري
م. هادي اعظم الميناوي

مهندس الاستشاري
مكتب د/خالد فتحي
م / خالد فوزي

مهندس الاستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / زيات علي

٢٢-١١-٢٥

محمد خليل

زيات علي



قائمة الكميات الواردة بالمستخلص جاري (٢)

مشروع : القطار الكهربائي السريع (العين المسخنة - العاصمة الادارية - العظمين - مطروح) قطاع فوكة - مطروح في المسافة من الكم ٥١٤+٠٠٠ الى الكم ٥١٨+٥٠٠ بطول ٤,٥ كيلو متر بالاتجاهين

رقم البند و بيانه : (٢-٤) أعمال توريد وتشغيل طبقات الأساس (sub-ballast)

تتفيذ : شركة يوسف نجيدة للمقاولات

مقدار العمل السابق : ٠,٠ م

الكمية	الابعاد (متر)		الموقع الكيلومترى		بيان الاعمال بالمقايضة
	مساحة المقطع	طول	الى	من	
٥٠٥٧,٧٣	٢,٨٤١	١٧٨٠	٥١٥+٧٨٠	٥١٤+٠٠٠	القطاع الأول طبقة أساس أولى
٦٠٥٧,٥٩	٤,٥٨٩	١٣٢٠	٥١٧+١٦٠	٥١٥+٨٤٠	القطاع الثاني طبقة أساس أولى
٥٩٤٣,٢٠	٧,٤٢٩	٨٠٠	٥١٨+٥٠٠	٥١٧+٧٠٠	القطاع الثالث طبقة أساس أولى
٤٦٢٥,٣٦	٢,٧٢١	١٧٠٠	٥١٥+٧٠٠	٥١٤+٠٠٠	القطاع الرابع طبقة أساس ثانية
٥٨٣٨,٢٧	٤,٥٢٦	١٢٩٠	٥١٧+١٦٠	٥١٥+٨٧٠	القطاع الخامس طبقة أساس ثانية
٥٨٥٢,٠٠	٧,٣١٥	٨٠٠	٥١٨+٥٠٠	٥١٧+٧٠٠	القطاع السادس طبقة أساس ثانية
٣٣٣٧٤,١٦	اجمالي الكميات خلال فترة المستخلص الحالية (م)				
٣٣٣٧٤,١٦	الاجمالي الكلي (م)				

مهندس الهيئة العامة
للطرق والكباري
م / ايمن الحناوي

مهندس الاستشاري
مكتب د/خالد قنديل
م / خالد فوزي

مهندس الاستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / زياد طي

٥٩١١٢٠٢٠٢

محمد خليل

زياد طي



قائمة الكميات الواردة بالمستخلص جاري (٢)

مشروع : الخطار الكهربائي السريع (العين المنخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في المسافة من الكم ٥١٤+٠٠٠ الى الكم ٥١٨+٥٠٠ بطول ٤,٥ كيلو متر بالاتجاهين

رقم البلد و بيانه : (٢-٤) علاوة مسافة النقل ٢٢٢ كم لأعمال طبقات الأساس (sub-ballast)

تتميز : شركة يوسف نجيدة للمقاولات

علاوة مسافة النقل

تتميز : شركة يوسف نجيدة للمقاولات

٢م

مقدار العمل السابق :

بيان بالكميات	الكمية
الكمية طبقاً لتراكم الكميات	٣٣٣٧٤,١٦
اجمالي الكميات خلال فترة المستخلص الحالية (م٢)	٣٣٣٧٤,١٦
الاجمالي اجمالي اجمالي (م٢)	٣٣٣٧٤,١٦

مهندس الهيئة العامة
للطرق والكباري
م / ابراهيم مختاري

مهندس الاستشاري
مكتب د/خالد قنديل
م / خالد فوزي
٠٩٠١١٠٢٠٢

مهندس الاستشاري (xyz)
م / محمد خليل
محمد خليل

مهندس الشركة
م / زياد علي
زياد علي



قائمة الكميات الواردة بالمستخلص جاري (٢)

مشروع : القطار الكهربائي السريع (العين السخنة - العاصمة الإدارية - العلمين - مطروح) قطاع فوكة - مطروح في المسافة من الكم ٥١٤+٠٠٠ الى الكم ٥١٨+٥٠٠ بطول ٤,٥ كيلو متر بالاتجاهين

رقم البند و بيانه : (٢-٤) رسوم الكارطة والموازن طبقاً للمادة (٣٦) من الشروط العامة والمواصفات طبقاً لما جاء بالقائمة الموحدة لاسعار الطرق لأعمال طبقات الأساس (sub-ballast)

تــفـيـذ : شركة يوسف نجيدة للمقاولات

الكارتك والموازن

تــفـيـذ : شركة يوسف نجيدة للمقاولات

٣م

مقدار العمل السابق :

الكمية	بيان بالكميات
٣٣٣٧٤,١٦	الكمية طبقاً لقوائم الكميات
٣٣٣٧٤,١٦	اجمالي الكميات خلال فترة المستخلص الحالية (م)
٣٣٣٧٤,١٦	الاجمالي الكلي (م)

مهندس الهيئة العامة
للطرق والكباري
م / إبراهيم الحناوي

مهندس الاستشاري
مكتب د/خالد قنديل
م / خالد فوزي

مهندس الاستشاري (xyz)
م / محمد خليل

مهندس الشركة
م / زياد علي

٢٩-١١-٢٠٢٢

محمد خليل

زياد علي

السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة.. وبعد،،

بالإحالة إلى مشروع القطار السريع (العين السخنة - العاصمة الإدارية جرج العرب -

مرسى مطروح)

نتشرف بأن نرفق لسيادتكم طيه المقاييس المعدلة للقطاعات الآتية:

أولا : القطاع السابع (فوكة/مطروح) :

م	المسافة		الطول (كم)	الشركة	التكلفة (مليون)	الاتجاه
	من	الى				
1	514+000	518+500	4.5	يوسف نجيدة للمقاولات	154.761	الاتجاهين

برجاء من سيادتكم التفضل بالاحاطه والتوجيه بالازم

وتفضلوا بقبول فائق الاحترام والتقدير،،

رئيس الإدارة المركزية

المنطقة الخامسة- غرب الدلتا

عميد مهندس/

"هاني محمد محمود طه"

[illegible]

الحمد لله الذي جعل هذا الكتاب من كتب الفقه
والشريعة الإسلامية التي هي من كنوز
الدين والعلوم التي لا تحصى ولا تعد
والتي لا يمكن أن تكون إلا من عند الله
العليم الخبير

وعضو
 رئيس الإدارة المركزية
 منطقة غرب الدلتا
 الإسكندرية - مركزى مطروح
 السيد مهدي ك
 " هاني محمود محمد مده "