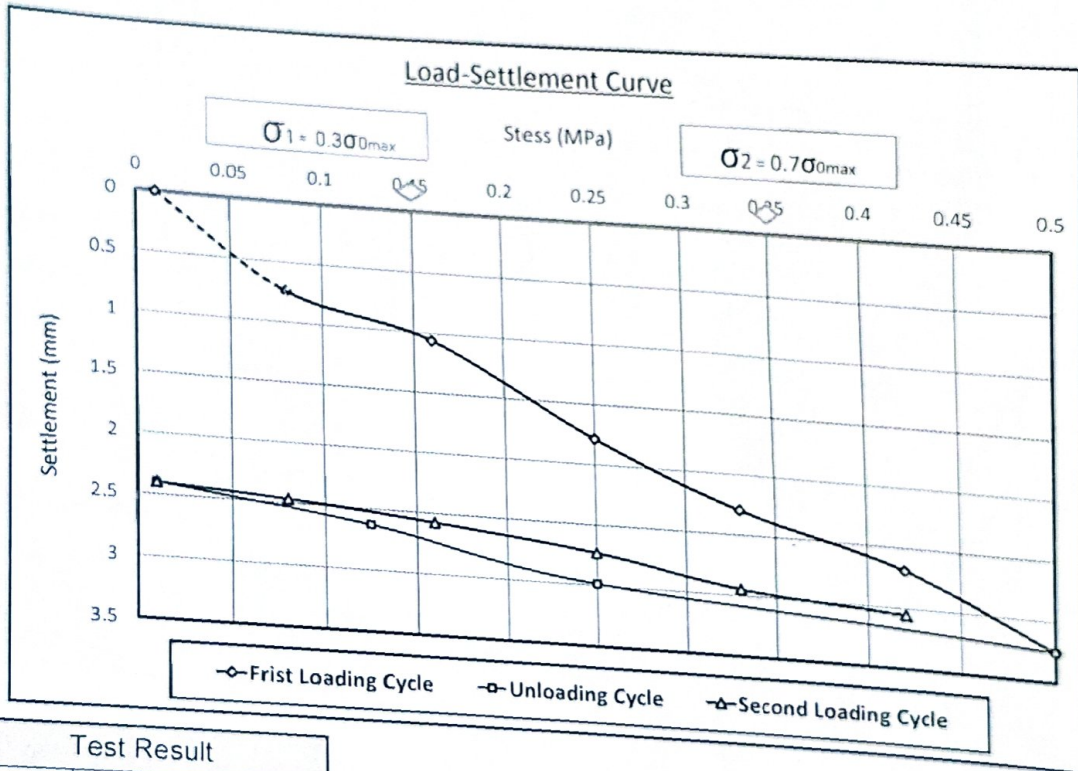


Company	From Station 528+100 To Station 528+220	Code	HU-WSN-3
حسين علي محمد		Serial	1

Determining The Deformation and Strength Characteristics of Soil
by the Plate Loading Test.

According to DIN 18134:2001

Station	Level	S.Description	Date
528+180	N.G.L	Work Start Notification (N.G)	25/12/2023



Test Result		
Ev1	=	36.9 MPA
Ev2	=	127.7 MPA
Ev2/Ev	=	3.46 MPA



Company Engineer

Consultant Engineer

[Signature]

Company	From Station 528+100 To Station 528+220	Code	HU-W5N-3
حسين علي محمد		Serial	1

**Determining The Deformation and Strength Characteristics of Soil
by the Plate Loading Test.**

According to DIN 18134:2001

Station	Level	S.Description	Date
528+180	N.G.L	Work Start Notification (N.G)	25/12/2023

Loading	Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Average Settlement
Stage No.	KN	MN/M2	mm	mm	mm	mm	mm
0	0.71	0.01	20.00	20.00	0.00	0.00	0
1	5.65	0.080	19.22	19.30	0.78	0.70	0.74
2	11.31	0.160	18.94	18.94	1.06	1.06	1.06
3	17.67	0.250	18.34	18.09	1.66	1.91	1.79
4	23.33	0.330	17.87	17.54	2.13	2.46	2.30
5	29.69	0.420	17.39	17.24	2.61	2.76	2.69
6	35.34	0.500	16.79	16.71	3.21	3.29	3.25
7	17.67	0.250	16.89	17.14	3.11	2.86	2.99
8	8.84	0.125	17.14	17.60	2.86	2.40	2.63
9	0.71	0.010	17.39	17.81	2.61	2.19	2.40
10	5.65	0.080	17.31	17.76	2.69	2.24	2.47
11	11.31	0.160	17.18	17.67	2.82	2.33	2.58
12	17.67	0.250	17.00	17.54	3.00	2.46	2.73
13	23.33	0.330	16.71	17.40	3.29	2.60	2.95
14	29.69	0.420	16.52	17.38	3.48	2.62	3.05

Notes.

- 1- Test Location were chosen and identified by consultant.
- 2- Diameter of the used plate = 300 mm.
- 3- Readings were recorded in each stage after maintaining the load for 120 seconds.

CEL
CEL LAB
مكتب معمار الاستشارات الهندسية
مشروعات (إسكان وقصا)
رقم الترخيص 219-991-537
توقيع رئيس قسم المراسلة - القاهرة

Company Engineer

Consultant Engineer

[Signature]

Testing Date :	25/12/2023	Company:	حسين علي محمد
Material :	N.G	Code	HU-WSN-3
Location :	from station 528+100 to station 528+220	length	120 M
Layer Thickness :	N.G	level layer	Work Start Notification N.G.L
Station	528+140	528+190	528+210
Hole No .	1	2	3
Bulk density specifid sand (gm/cm3)	1.46	1.46	1.46
wt.of sand befor test	8022	8259	8369
WT .of sand after test	4488	4696	4752
WT . Of sand fill cone	1440	1440	1440
WT . Of sand in hole	2094	2123	2177
Volume of hole	1434	1454	1491
WT . Of sample from hole (gm)	2770	2799	2896
Bulk density of soil (gm/cm3)	1.93	1.92	1.94
Average water content %	6.8	6.7	6.8
Dry density (gm/cm3)	1.81	1.80	1.82
Max dry density (gm/cm3)	1.890	1.890	1.890
Compaction ratio %	95.7	95.5	96.2
Observations			
Lab Engineer:	 مكتب معامل الاستشارات الهندسية مشروعات سواج و قنا رقم الترخيص المصري 537 - 219 - 99 الوكيل الرسمي لقنا لاند انفرستاتش		Consultant Eng. : م/ بولا اسعد
Sign :			Sign :



Testing date : 24/1/2024
 Company Name : حسين علي محمد
 Project : Electric Express Train – HSR From Sohag to Qena
 S. Description : مشون 4
 Station : ST: 528+380
 Direction : Right
 Code : HU-S-7
 Sieve Analysis:

Sieve size (IN)	Passing %
2	95.4
1.5	86.6
1	79.2
¾	74.7
½	63.0
3/8	58.9
4	49.4
10	39.8
40	28.5
200	11.6

Test	Results	
Soil Classification	A-1-a	
Modified Proctor	Max Dry Density	2.245
	O.M.C	6.4 %
L. L	16.3	
P. I	3	
CBR	37 %	

Notes:.....

Lab (CEL)

Lab. Engineer

Signature



Consultant (K.K.)

Engineer / ...

Signature / ...



Testing date : 19/02/2024
 Company Name : حسين على محمد
 Project : Electric Express Train – HSR From Sohag to Qena
 Station : ST: 528+370 Zone from 528+320 to 528+420
 Level : Ferma
 S. Description : Confirm the Validity of Ferma Layer after cutting (Original Earth)
 Code : 7
 Sieve Analysis:

Sieve size (IN)	Passing %
2	94.2
1.5	92.8
1	90.2
¾	88.0
½	84.0
3/8	82.5
4	79.1
10	74.5
40	57.6
200	3.2

Test	Results	
Soil Classification	A-3	
Modified Proctor	Max Dry Density	1.910
	O.M.C	7.5 %
L. L	NP	
P. I	NP	
CBR	9 %	

Notes:-.....

Lab (CEL)

Lab. Engineer / مكيتم مومني

Signature / رقم التسجيل 537 219.991.0

Consultant (K.K.)

Engineer / لبراهيم

Signature / ا ب



Testing date : 12/02/2024

Company Name : حسين على محمد

Project : Electric Express Train – HSR From Sohag to Qena

Station : ST: 529+160 Zone from 529+140 to 529+180

Level : Ferma

S. Description : Confirm the Validity of Ferma Layer after cutting (Original Earth)

Code : 5

Sieve Analysis:

Sieve size (IN)	Passing %
2	100.0
1.5	100.0
1	100.0
¾	99.5
½	98.2
3/8	95.5
4	91.5
10	87.3
40	61.2
200	8.2

Test	Results	
Soil Classification	A-3	
Modified Proctor	Max Dry Density	2.052
	O.M.C	7.5 %
L. L	NP	
P. I	NP	
CBR	9.5 %	

Notes:-.....

Lab. (CEL) CEL
 مكتبة معامل الاستشارات الهندسية
 Lab. Engineer /
 رقم الترخيص 219 - 994 - 537
 Signature /
 رقم الترخيص 219 - 994 - 537

Consultant (K.K.)

Engineer /
 Signature /
 ابراهيم



Testing date : 12/02/2024
Company Name : حسين علي محمد
Project : Electric Express Train – HSR From Sohag to Qena
Station : ST: 529+130 Zone from 529+120 to 529+140
Level : Ferma
S. Description : Confirm the Validity of Ferma Layer after cutting (Original Earth)
Code : 4
Sieve Analysis:

Sieve size (IN)	Passing %
2	100.0
1.5	100.0
1	100.0
¾	100.0
½	100.0
3/8	100.0
4	98.8
10	93.5
40	65.2
200	7.9

Test	Results	
Soil Classification	A-3	
Modified Proctor	Max Dry Density	1.811
	O.M.C	7.8
L. L	NP	
P. I	NP	
CBR	8.7 %	

Notes:-.....

Lab (CEL)
Lab. Engineer /
Signature /
997.53

Consultant (K.K.)

Engineer /
Signature /
1