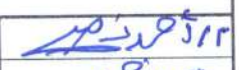


Testing Date :	3/1/2024		Company :		الأمانة			
Material :	Upper Embankment		Code:		AMN-UM-16			
Location :	From Station 564+960 To Station 565+160		length:		200 M			
Layer Thickness :	0.25M		Level layer:		Fill Layer Upper Embankment -0.75			
Station	564+965	564+990	565+015	565+040	565+065	565+090	565+115	565+140
Hole No	1	2	3	4	5	6	7	8
Bulk density specifid sand (gm/cm3)	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
wt .of sand befor test	7645	7525	7463	7354	7785	7849	7845	7888
WT .of sand after test	4123	3952	3916	3815	4252	4333	4320	4315
WT . Of sand fill cone	1440	1440	1440	1440	1440	1440	1440	1440
WT . Of sand in hole	2082	2133	2107	2099	2093	2076	2085	2133
Volume of hole	1426	1461	1443	1438	1434	1422	1428	1461
WT . Of sample from hole (gm)	3220	3330	3299	3255	3262	3265	3240	3310
Bulk density of soil (gm/cm3)	2.26	2.28	2.29	2.26	2.28	2.30	2.27	2.27
Average water content %	5.8	6	6	5.9	6	6	5.9	5.8
Dry density (gm/cm3)	2.13	2.15	2.16	2.14	2.15	2.17	2.14	2.14
Max dry density (gm/cm3)	2.230	2.230	2.230	2.230	2.230	2.230	2.230	2.230
Compaction ratio %	95.7	96.4	96.7	95.9	96.3	97.1	96.1	96.0
Observations								
Lab Engineer :					Consultant Eng. :			
Sign :					Sign :			

Testing Date :	14/01/2024	COMPANY :		الأمانة
Material :	Upper Embankment		Code	AMN-UM-18
Location :	From Station 565+160 To Station 565+260		length	100 M
Layer Thickness :	0.25 M	Level layer		Upper Embankment -75
Station	565+165	565+190	565+215	565+240
Hole No .	1	2	3	4
Bulk density specifid sand (gm/cm3)	1.47	1.47	1.47	1.47
wt .of sand befor test	8663	7865	8542	7947
WT .of sand after test	5236	4245	5125	4343
WT . Of sand fill cone	1460	1460	1460	1460
WT . Of sand in hole	1967	2160	1957	2144
Volume of hole	1338	1469	1331	1459
WT . Of sample from hole (gm)	3063	3335	3050	3323
Bulk density of soil (gm/cm3)	2.29	2.27	2.29	2.28
Average water content %	6	5.8	6	6
Dry density (gm/cm3)	2.16	2.15	2.16	2.15
Max dry density (gm/cm3)	2.230	2.230	2.230	2.230
Compaction ratio %	96.8	96.2	96.9	96.4
Observations				
Lab Engineer :			Consultant Eng. :	
Sign :			Sign :	

Testing Date :	14/1/2024	Company :	الأمانة
Material :	Upper Embankment	Code:	AMN-UM-19
Location :	From Station 565+260 To Station 565+420	length :	160 M
Layer Thickness :	0.25M	Level layer:	Fill Layer Upper Embankment -0.75

Station	565+265	565+290	565+315	565+340	565+365	565+390	565+415
Hole No .	1	2	3	4	5	6	7
Bulk density specifid sand (gm/cm3)	1.46	1.46	1.46	1.46	1.46	1.46	1.46
wt .of sand befor test	7584	7648	7423	7352	7816	7795	7812
WT .of sand after test	4052	4056	3846	3858	4262	4213	4202
WT . Of sand fill cone	1440	1440	1440	1440	1440	1440	1440
WT . Of sand in hole	2092	2152	2137	2054	2114	2142	2170
Volume of hole	1433	1474	1464	1407	1448	1467	1486
WT . Of sample from hole (gm)	3280	3357	3322	3231	3275	3358	3372
Bulk density of soil (gm/cm3)	2.29	2.28	2.27	2.30	2.26	2.29	2.27

Average water content %	5.8	5.7	5.7	5.8	5.7	5.8	5.7
Dry density (gm/cm3)	2.16	2.15	2.15	2.17	2.14	2.16	2.15
Max dry density (gm/cm3)	2.240	2.240	2.240	2.240	2.240	2.240	2.240
Compaction ratio %	96.6	96.2	95.9	96.9	95.5	96.6	95.8

Observations						
Lab Engineer :	مكتب مقاسم الاستشارات الهندسية شروعات مودنا و قنا 249-237 بومستقر صبيح قنديل				Consultant Eng. :	ir
Sign :					Sign :	ir

Testing Date :	15/01/2024	Company :	الأمانة
Material :	Upper Embankment	Code:	AMN-UM-20
Location :	From Station 565+420 To Station 565+600	length:	180 M
Layer Thickness :	0.25 M	Level layer:	Fill Layer Upper Embankment -0.75

Station	565+425	565+450	565+475	565+500	565+525	565+550	565+570	565+595
Hole No	1	2	3	4	5	6	7	8
Bulk density specifid sand (gm/cm3)	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
wt .of sand befor test	8420	8302	8275	8361	8475	8363	8000	6210
WT .of sand after test	4910	4820	4760	4900	4958	4874	4500	2700
WT . Of sand fill cone	1410	1410	1410	1410	1410	1410	1410	1410
WT . Of sand in hole	2100	2072	2105	2051	2107	2079	2090	2100
Volume of hole	1438	1419	1442	1405	1443	1424	1432	1438
WT . Of sample from hole (gm)	3275	3250	3299	3190	3292	3271	3254	3296
Bulk density of soil (gm/cm3)	2.28	2.29	2.29	2.27	2.28	2.30	2.27	2.29

Average water content %	5.7	5.8	5.8	5.6	5.7	5.8	5.6	5.8
Dry density (gm/cm3)	2.15	2.16	2.16	2.15	2.16	2.17	2.15	2.17
Max dry density (gm/cm3)	2.240	2.240	2.240	2.240	2.240	2.240	2.240	2.240
Compaction ratio %	96.2	96.6	96.5	96.0	96.3	96.9	96.1	96.7

Observations	
Lab Engineer :	Consultant Eng. :
Sign :	Sign :

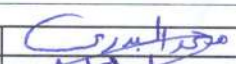


Testing Date :	17/01/2024	Company :	الأمانة
Material :	Upper Embankment	Code:	AMN-UE-21
Location :	From Station 565+600 To Station 565+800	length:	200 M
Layer Thickness :	0.25 M	Level layer:	Fill Layer Upper Embankment -0.75

Station	565+605	565+630	565+655	565+680	565+705	565+730	565+755	565+780
Hole No	1	2	3	4	5	6	7	8
Bulk density specfid sand (gm/cm3)	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
wt .of sand befor test	8430	8298	8215	8388	8463	8365	8021	6212
WT .of sand after test	4898	4789	4750	4893	4914	4845	4514	2707
WT . Of sand fill cone	1410	1410	1410	1410	1410	1410	1410	1410
WT . Of sand in hole	2122	2099	2055	2085	2139	2110	2097	2095
Volume of hole	1453	1438	1408	1428	1465	1445	1436	1435
WT . Of sample from hole (gm)	3332	3308	3235	3252	3345	3329	3268	3295
Bulk density of soil (gm/cm3)	2.29	2.30	2.30	2.28	2.28	2.30	2.28	2.30

Average water content %	5.7	5.8	5.8	5.6	5.7	5.8	5.6	5.8
Dry density (gm/cm3)	2.17	2.17	2.17	2.16	2.16	2.18	2.15	2.17
Max dry density (gm/cm3)	2.240	2.240	2.240	2.240	2.240	2.240	2.240	2.240
Compaction ratio %	96.8	97.1	97.0	96.3	96.4	97.2	96.2	96.9
Observations								

Lab Engineer :	CEL	Consultant Eng. :	أ.د. خالد شندول
Sign :	مكتب مقامل الاستشارات الهندسية مشروعات (سكك حديد وقنا) رقم الترخيص: 991-537 الرجوع اليه: شارع النيل - نزهة - القاهرة	Sign :	أ.د. خالد شندول

Testing Date :	21/1/2024		Company :	الأمانة
Material :	Upper Embankment		Code	AMN-UE-22-02
Location :	From Station 565+800 To Station 565+900		length	100 M
Layer Thickness :	0.25 M		Level layer	استبدال (-0.75) Fill Layer Upper Embankment
Station	565+810	565+835	565+860	565+885
Hole No .	1	2	3	4
Bulk density specifid sand (gm/cm3)	1.46	1.46	1.46	1.46
wt .of sand befor test	8164	8789	9088	9207
WT .of sand after test	4544	5274	5579	5689
WT . Of sand fill cone	1440	1440	1440	1440
WT . Of sand in hole	2180	2075	2069	2078
Volume of hole	1493	1421	1417	1423
WT . Of sample from hole (gm)	3398	3219	3217	3250
Bulk density of soil (gm/cm3)	2.28	2.26	2.27	2.28
Average water content %	5.8	5.8	5.8	5.8
Dry density (gm/cm3)	2.15	2.14	2.15	2.16
Max dry density (gm/cm3)	2.240	2.240	2.240	2.240
Compaction ratio %	96.0	95.6	95.8	96.4
Observations				
Lab Engineer :			Lab Engineer :	
Sign :			Sign :	

Testing Date :

20/01/2024

Company:

الإمانة

Material :

Upper Embankment

Code

AMN-UE-23

Location :

from station 565+940 to station 565+960

length

20 M

Layer Thickness :

0.25 M

level layer

استعمال 1 - Fill layer Upper Embankment

Station

565+950

Hole No .

1

Bulk density specifid sand (gm/cm3)

1.46

wt .of sand befor test

8670

WT .of sand after test

5109

WT . Of sand fill cone

1440

WT . Of sand in hole

2121

Volume of hole

1453

WT . Of sample from hole
(gm)

3329

Bulk density of soil (gm/cm3)

2.29

Average water content %

5.8

Dry density (gm/cm3)

2.17

Max dry density (gm/cm3)

2.240

Compaction ratio %

96.7

Observations

Lab Engineer :

Sign :

Consultant Eng. :

Sign :



محمّد البدر
محمّد البدر