TEST DATASHEET

FIELD DENSITY TEST OF SUB-GRADE / GSB / WMM / BC / BM / SHOULDER

Name of Work: Up-gradation of galu Bhoda to Shivnagar road km 0/00 to 12/025

Date of Testing:

Maximum Dry Density as per Lab (gram/cc):   **2.319**

Type of Material   BC

	Callibration of Sand	CH.	CH.	CH.
1	Mean Weight of Sand in Cone(of pouring cyclinder) W2 in gram	314	314	314
2	Volume of Callibrating Cyclinder (V) Cm3	1177.5	1177.5	1177.5
3	Weight of Sand + Cyclinder before pouring into callibrating Container (W1) in gm	6000	6000	6000
4	Mean Weight of Sand = Cyclinder after pouring into calibrating container (W3) in gm	4010	4010	4010
5	Weight of sand to fill calibrating cylinder. (Wa = W1 - W2 - W3) in gm.	1676	1676	1676
6	Bulk density of sand Ys = (Wa /V) gm/cm3	1.423	1.423	1.423
	Determination of Density			
7	Determination number			
8	Weight of wet material from hole (Ww)	556	532	548
9	Weight of sand (+ cylinder) before pouring into hole (W1) in gm.	6000	6000	6000
10	Weight of sand (+ cylinder) after pouring into hole and cone (W4) in gm.	5347	5362	5352
11	Weight of sand in hole, in gm Wb = (W1 - W4- W2)	339	324	334
12	Bulk density Yb = (Ww /Wb) x Ys gm/cm3	2.334	2.337	2.335
	Moisture Content (BY RMM)			
13	Moisture Content % (m)			
14	Percentage of Moisture Content % (w) (m/100-m)*100			
15	Weight of dry soil from the hole in gm (Wd) = (Ww/100+w)*100			
16	Dry density Yd = (Wd/ Wb) x Ys gm/cm3			
17	Degree of compaction in percentage	100.65	100.78	100.69
18	Whether confirms to the prescribed limit:			

Cont/Engg.   JE   AE

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1	Mean Weight of Sand in Cone(of pouring cyclinder) W2 in gram	314	314	314
2	Volume of Callibrating Cyclinder (V) Cm3	1177.5	1177.5	1177.5
3	Weight of Sand + Cyclinder before pouring into callibrating Container (W1) in gm	6000	6000	6000
4	Mean Weight of Sand = Cyclinder after pouring into calibrating container (W3) in gm	4010	4010	4010
5	Weight of sand to fill calibrating cylinder. (Wa = W1 - W2 - W3) in gm.	1676	1676	1676
6	Bulk density of sand Ys = (Wa /V) gm/cm3	1.423	1.423	1.423
	Determination of Density			
7	Determination number			
8	Weight of wet material from hole (Ww)	521	534	561
9	Weight of sand (+ cylinder) before pouring into hole (W1) in gm.	6021	6128	6259
10	Weight of sand (+ cylinder) after pouring into hole and cone (W4) in gm.	5389	5487	5602
11	Weight of sand in hole, in gm Wb = (W1 - W4- W2)	318	327	343
12	Bulk density Yb = (Ww /Wb) x Ys gm/cm3	2.331	2.324	2.327
	Moisture Content (BY RMM)			
13	Moisture Content % (m)			
14	Percentage of Moisture Content % (w) (m/100-m)*100			
15	Weight of dry soil from the hole in gm (Wd) = (Ww/100+w)*100			
16	Dry density Yd = (Wd/ Wb) x Ys gm/cm3			
17	Degree of compaction in percentage	100.52	100.22	100.34
18	Whether confirms to the prescribed limit:			

Cont/Engg.   JE   AE

TEST DATASHEET

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Type of Material BC

	Callibration of Sand	CH.	CH.	CH.
1	Mean Weight of Sand in Cone(of pouring cyclinder) W2 in gram	314	314	314
2	Volume of Callibrating Cyclinder (V) Cm3	1177.5	1177.5	1177.5
3	Weight of Sand + Cyclinder before pouring into callibrating Container (W1) in gm	6000	6000	6000
4	Mean Weight of Sand = Cyclinder after pouring into calibrating container (W3) in gm	4010	4010	4010
5	Weight of sand to fill calibrating cylinder. (Wa = W1 - W2 - W3) in gm.	1676	1676	1676
6	Bulk density of sand Ys = (Wa /V) gm/cm3	1.423	1.423	1.423
	Determination of Density			
7	Determination number			
8	Weight of wet material from hole (Ww)	558	519	547
9	Weight of sand (+ cylinder) before pouring into hole (W1) in gm.	6012	6110	6029
10	Weight of sand (+ cylinder) after pouring into hole and cone (W4) in gm.	5358	5479	5380
11	Weight of sand in hole, in gm Wb = (W1 - W4- W2)	340	317	335
12	Bulk density Yb = (Ww /Wb) x Ys gm/cm3	2.335	2.330	2.324
	Moisture Content (BY RMM)			
13	Moisture Content % (m)			
14	Percentage of Moisture Content % (w) (m/100-m)*100			
15	Weight of dry soil from the hole in gm (Wd) = (Ww/100+w)*100			
16	Dry density Yd = (Wd/ Wb) x Ys gm/cm3			
17	Degree of compaction in percentage	100.69	100.47	100.22
18	Whether confirms to the prescribed limit:			

Cont/Engg.   JE   AE

TEST DATASHEET

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Type of Material   BC

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1	Mean Weight of Sand in Cone(of pouring cyclinder) W2 in gram	314	314	314
2	Volume of Callibrating Cyclinder (V) Cm3	1177.5	1177.5	1177.5
3	Weight of Sand + Cyclinder before pouring into callibrating Container (W1) in gm	6000	6000	6000
4	Mean Weight of Sand = Cyclinder after pouring into calibrating container (W3) in gm	4010	4010	4010
5	Weight of sand to fill calibrating cylinder. (Wa = W1 - W2 - W3) in gm.	1676	1676	1676
6	Bulk density of sand Ys = (Wa /V) gm/cm3	1.423	1.423	1.423
	Determination of Density			
7	Determination number			
8	Weight of wet material from hole (Ww)	553	589	542
9	Weight of sand (+ cylinder) before pouring into hole (W1) in gm.	6000	6000	6000
10	Weight of sand (+ cylinder) after pouring into hole and cone (W4) in gm.	5347	5328	5354
11	Weight of sand in hole, in gm Wb = (W1 - W4- W2)	339	358	332
12	Bulk density Yb = (Ww /Wb) x Ys gm/cm3	2.321	2.341	2.323
	Moisture Content (BY RMM)			
13	Moisture Content % (m)			
14	Percentage of Moisture Content % (w) (m/100-m)*100			
15	Weight of dry soil from the hole in gm (Wd) = (Ww/100+w)*100			
16	Dry density Yd = (Wd/ Wb) x Ys gm/cm3			
17	Degree of compaction in percentage	100.09	100.95	100.17
18	Whether confirms to the prescribed limit:			

Cont/Engg.   JE   AE

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Type of Material BC

	Callibration of Sand	CH.	CH.	CH.
1	Mean Weight of Sand in Cone(of pouring cyclinder) W2 in gram	314	314	314
2	Volume of Callibrating Cyclinder (V) Cm3	1177.5	1177.5	1177.5
3	Weight of Sand + Cyclinder before pouring into callibrating Container (W1) in gm	6000	6000	6000
4	Mean Weight of Sand = Cyclinder after pouring into calibrating container (W3) in gm	4010	4010	4010
5	Weight of sand to fill calibrating cylinder. (Wa = W1 - W2 - W3) in gm.	1676	1676	1676
6	Bulk density of sand Ys = (Wa /V) gm/cm3	1.423	1.423	1.423
	Determination of Density			
7	Determination number			
8	Weight of wet material from hole (Ww)	569	551	528
9	Weight of sand (+ cylinder) before pouring into hole (W1) in gm.	6118	6238	6224
10	Weight of sand (+ cylinder) after pouring into hole and cone (W4) in gm.	5456	5588	5588
11	Weight of sand in hole, in gm Wb = (W1 - W4- W2)	348	336	322
12	Bulk density Yb = (Ww /Wb) x Ys gm/cm3	2.327	2.334	2.333
	Moisture Content (BY RMM)			
13	Moisture Content % (m)			
14	Percentage of Moisture Content % (w) (m/100-m)*100			
15	Weight of dry soil from the hole in gm (Wd) = (Ww/100+w)*100			
16	Dry density Yd = (Wd/ Wb) x Ys gm/cm3			
17	Degree of compaction in percentage	100.34	100.65	100.60
18	Whether confirms to the prescribed limit:			

Cont/Engg.   JE   AE

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Type of Material   BC

	Callibration of Sand	CH.	CH.	CH.
1	Mean Weight of Sand in Cone(of pouring cyclinder) W2 in gram	314	314	314
2	Volume of Callibrating Cyclinder (V) Cm3	1177.5	1177.5	1177.5
3	Weight of Sand + Cyclinder before pouring into callibrating Container (W1) in gm	6000	6000	6000
4	Mean Weight of Sand = Cyclinder after pouring into calibrating container (W3) in gm	4010	4010	4010
5	Weight of sand to fill calibrating cylinder. (Wa = W1 - W2 - W3) in gm.	1676	1676	1676
6	Bulk density of sand Ys = (Wa /V) gm/cm3	1.423	1.423	1.423
	Determination of Density			
7	Determination number			
8	Weight of wet material from hole (Ww)	519	567	558
9	Weight of sand (+ cylinder) before pouring into hole (W1) in gm.	6128	6123	6025
10	Weight of sand (+ cylinder) after pouring into hole and cone (W4) in gm.	5498	5463	5370
11	Weight of sand in hole, in gm Wb = (W1 - W4- W2)	316	346	341
12	Bulk density Yb = (Ww /Wb) x Ys gm/cm3	2.337	2.332	2.329
	Moisture Content (BY RMM)			
13	Moisture Content % (m)			
14	Percentage of Moisture Content % (w) (m/100-m)*100			
15	Weight of dry soil from the hole in gm (Wd) = (Ww/100+w)*100			
16	Dry density Yd = (Wd/ Wb) x Ys gm/cm3			
17	Degree of compaction in percentage	100.78	100.56	100.43
18	Whether confirms to the prescribed limit:			

Cont/Engg.   JE   AE

TEST DATASHEET

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3	Weight of Sand + Cyclinder before pouring into callibrating Container (W1) in gm	6000	6000	6000
4	Mean Weight of Sand = Cyclinder after pouring into calibrating container (W3) in gm	4010	4010	4010
5	Weight of sand to fill calibrating cylinder. (Wa = W1 - W2 - W3) in gm.	1676	1676	1676
6	Bulk density of sand Ys = (Wa /V) gm/cm3	1.423	1.423	1.423
	Determination of Density			
7	Determination number			
8	Weight of wet material from hole (Ww)	554	538	571
9	Weight of sand (+ cylinder) before pouring into hole (W1) in gm.	6000	6000	6000
10	Weight of sand (+ cylinder) after pouring into hole and cone (W4) in gm.	5347	5358	5337
11	Weight of sand in hole, in gm Wb = (W1 - W4- W2)	339	328	349
12	Bulk density Yb = (Ww /Wb) x Ys gm/cm3	2.325	2.334	2.328
	Moisture Content (BY RMM)			
13	Moisture Content % (m)			
14	Percentage of Moisture Content % (w) (m/100-m)*100			
15	Weight of dry soil from the hole in gm (Wd) = (Ww/100+w)*100			
16	Dry density Yd = (Wd/ Wb) x Ys gm/cm3			
17	Degree of compaction in percentage	100.26	100.65	100.39
18	Whether confirms to the prescribed limit:			

Cont/Engg.   JE   AE

TEST DATASHEET

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4	Mean Weight of Sand = Cyclinder after pouring into calibrating container (W3) in gm	4010	4010	4010
5	Weight of sand to fill calibrating cylinder. (Wa = W1 - W2 - W3) in gm.	1676	1676	1676
6	Bulk density of sand Ys = (Wa /V) gm/cm3	1.423	1.423	1.423
	Determination of Density			
7	Determination number			
8	Weight of wet material from hole (Ww)	574	543	559
9	Weight of sand (+ cylinder) before pouring into hole (W1) in gm.	6289	6021	6122
10	Weight of sand (+ cylinder) after pouring into hole and cone (W4) in gm.	5625	5375	5467
11	Weight of sand in hole, in gm Wb = (W1 - W4- W2)	350	332	341
12	Bulk density Yb = (Ww /Wb) x Ys gm/cm3	2.334	2.327	2.333
	Moisture Content (BY RMM)			
13	Moisture Content % (m)			
14	Percentage of Moisture Content % (w) (m/100-m)*100			
15	Weight of dry soil from the hole in gm (Wd) = (Ww/100+w)*100			
16	Dry density Yd = (Wd/ Wb) x Ys gm/cm3			
17	Degree of compaction in percentage	100.65	100.34	100.60
18	Whether confirms to the prescribed limit:			

Cont/Engg.   JE   AE

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4	Mean Weight of Sand = Cyclinder after pouring into calibrating container (W3) in gm	4010	4010	4010
5	Weight of sand to fill calibrating cylinder. (Wa = W1 - W2 - W3) in gm.	1676	1676	1676
6	Bulk density of sand Ys = (Wa /V) gm/cm3	1.423	1.423	1.423
	Determination of Density			
7	Determination number			
8	Weight of wet material from hole (Ww)	522	557	524
9	Weight of sand (+ cylinder) before pouring into hole (W1) in gm.	6000	6000	6000
10	Weight of sand (+ cylinder) after pouring into hole and cone (W4) in gm.	5367	5347	5366
11	Weight of sand in hole, in gm Wb = (W1 - W4- W2)	319	339	320
12	Bulk density Yb = (Ww /Wb) x Ys gm/cm3	2.329	2.338	2.330
	Moisture Content (BY RMM)			
13	Moisture Content % (m)			
14	Percentage of Moisture Content % (w) (m/100-m)*100			
15	Weight of dry soil from the hole in gm (Wd) = (Ww/100+w)*100			
16	Dry density Yd = (Wd/ Wb) x Ys gm/cm3			
17	Degree of compaction in percentage	100.43	100.82	100.47
18	Whether confirms to the prescribed limit:			

Cont/Engg. JE AE