

Project Details:

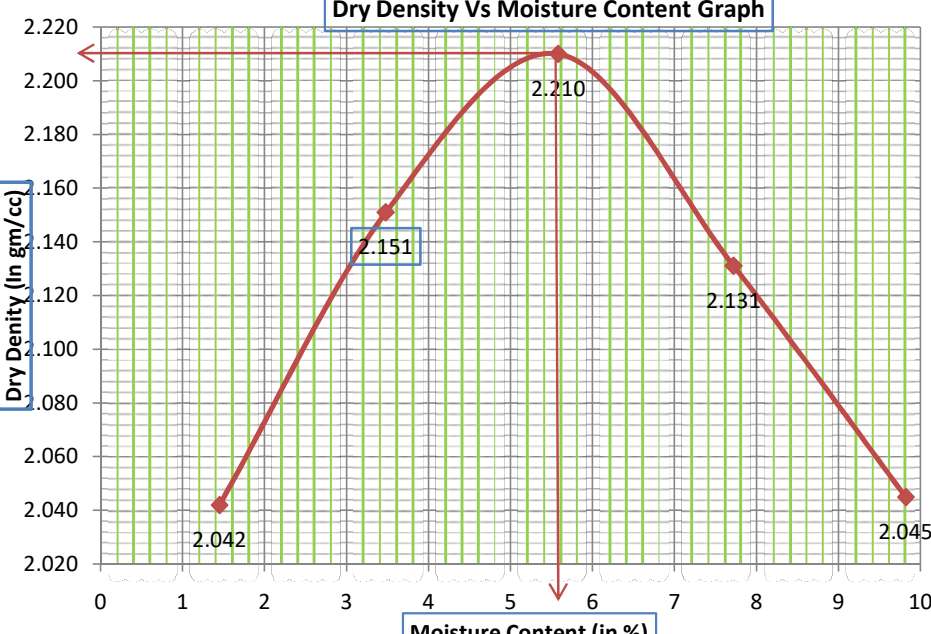
Contractor		Authority Engineer		Client	
					
				National Highway Authority of India	

MODIFIED PROCTOR DENSITY IS: 2720 (Part 8)1983					
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Source	:		Date of Sampling	:	
Location	:		Date of Testing	:	
Proposed Use	:		Type of material	:	GSB MIX
Mould No.	1		Weight of the mould, m_1 (gm):		6071
Volume of the mould, V (In cc):		2250			

Description	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6
Weight of water added in (%)	2%	4%	6%	8%	10%	
Weight of mould + Compacted material in gms (m_2)	10732	11079	11321	11236	11124	
Weight of compacted material in gms $m_3 = (m_2 - m_1)$	4661	5008	5250	5165	5053	
Wet Density in gm/cc $\gamma_b = m_3 / V$	2.072	2.226	2.333	2.296	2.246	
Container No.	T-01	T-02	T-03	T-04	T-05	
Weight of container (W_1)	244.0	251.0	244.0	253.0	260.0	
Weight of container + wet material (W_2)	1853.0	1679.0	1776.0	2039.0	1680.0	
Weight of container + dry material (W_3)	1830.0	1631.0	1695.0	1911.0	1553.0	
Weight of water ($W_2 - W_3$)	23.0	48.0	81.0	128.0	127.0	
Weight of dry material ($W_3 - W_1$)	1586.0	1380.0	1451.0	1658.0	1293.0	
Moisture Content, $W = 100 \times (W_2 - W_3) / (W_3 - W_1)$	1.45	3.48	5.58	7.72	9.82	
Dry density in gms/cc $\gamma_d = \gamma_b / (1 + W/100)$	2.042	2.151	2.210	2.131	2.045	

Dry Density Vs Moisture Content Graph



Result from Graph

MDD: 2.210 gm/cc

OMC: 5.60 %

Specified Limits

Activity	Min. MDD gm/cc
Emb. up to 3m	1.520
Emb. Ht > 3m	1.600
Subgrade/Shoulder	1.750

Remarks

EPC Contractor Representative

Authority Engineer Representative