

Laboratory **Shree Civil Engg. Pvt. Ltd., 18, Purshotam Nagar, Nadiad, Gujarat**
 Accreditation Standard **ISO/IEC 17025: 2005**
 Certificate Number **TC-6181** Page 2 of 4
 Validity **30.08.2017 to 29.08.2019** Last Amended on 19.11.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
B.	Bituminous Mix	Marshal Stability	ASTM D 6927-05	1 kN to 25 kN
		Flow Value	ASTM D 6927-05	1 mm to 6 mm
		Binder Content	ASTM D 2172:2011	1 % to 10 %
		Density	ASTM D 2014:2011	1.5 g/cc to 3.0 g/cc
5.	Aggregates			
A.	Coarse Aggregates	Sieve Analysis	IS 2386-1963,(Part 1), (RA 2016)	1% to 100 % (4.75 mm to 80 mm)
		Specific Gravity	IS 2386-1963,(Part 3), (RA 2016)	1.5.0 to 3.5
		Water absorption	IS 2386-1963,(Part 3), (RA 2016)	0.1 % to 10 %
		Flakiness Index	IS 2386-1963,(Part 1), (RA 2016)	2 % to 40 %
		Elongation Index	IS 2386-1963,(Part 1), (RA 2016)	2 % to 40 %
		Impact Value	IS 2386-1963,(Part 4), (RA 2016)	1 % to 50 %
		Crushing Value	IS 2386:1963 (Part 4) (RA 2016)	1 % to 60 %
		Bulk Density	IS:2386-1963 (Part-3) (RA 2016)	1.2 gm/cc to 2.5 gm/cc
B.	Fine Aggregates	Sieve Analysis	IS 2386-1963,(Part-1), (RA 2016)	1 % to 100 % (75 Micron to 4.75 mm)
		Specific Gravity	IS 2386-1963 (Part-3), (RA 2016)	1.5 to 3.5
		Water absorption	IS 2386-1963,(Part-3), (RA 2016)	0.1 % to 10 %
		Bulk Density	IS:2386-1963(Part-3) (RA 2016)	1.2 gm/cc to 2.5 gm/cc
6.	Cement (OPC/PPC)	Consistency	IS 4031-1988,(Part-4) (RA 2016)	10 % to 40 %
		Initial Setting Time	IS 4031-1988,(Part-5) (RA 2014)	30 minute to 300minute
		Final Setting time	IS 4031-1988,(Part-5) (RA 2014)	30 minute to 600 minute

Laboratory **Shree Civil Engg. Pvt. Ltd., 18, Purshotam Nagar, Nadiad, Gujarat**
 Accreditation Standard **ISO/IEC 17025: 2005**
 Certificate Number **TC-6181** Page 3 of 4
 Validity **30.08.2017 to 29.08.2019** Last Amended on 19.11.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Compressive strength	IS 4031-1988,(Part-6) (RA 2014)	10 N/mm ² to 80 N/mm ²
		Soundness with Le-Chattalier method	IS 4031-1988,(Part-3), (RA 2014)	0.5 mm to 10 mm
		Blain air Permeability	IS 4031-1999 (Part 2), (RA 2013)	100 m ² /kg to 600 m ² /kg
II.	MECHANICAL PROPERTIES OF METAL			
1.	Steel (Reinforcing and Structural Steel)	Yield Strength	IS 1608 (Part 1)-2018	20kN to 1000kN Load 100 N/mm ² to 800 N/mm ²
		UltimateStrength	IS 1608 (Part 1)-2018	
		Elongation	IS 1608 (Part 1)-2018	5 % to 80 %
		Nominal Mass	IS 1786-2008	0.1kg/m to 10 Kg/m
		Bend Test	IS 1786-2008 IS 1599-2012	8mm to 20 mm (Mandrel-16, 20, 24, 30, 32, 36, 40, 48, 50 56, 60, 64, 75, 80, 96, 100, 125, 128, 150, 160, 192) Qualitative
		Re Bend Test	IS 1786-2008	8 mm to 20 mm (Mandrel-32, 40, 48, 50, 56, 60, 72, 84, 96, 112, 120, 140, 150, 160) Qualitative
III.	SOIL & ROCK			
1.	Soil	Grain Size analysis	IS 2720 (P 04)-1985 (RA 2015)	75micron to 4.75mm
		Liquid limit	IS 2720 (P-5)-1985, (RA 2015)	25 % to 300 %
		Plastic Limit	IS 2720 (P-5)-1985, (RA 2015)	NP to 80 %
		Specific Gravity	IS 2720 (P-3)-1980, (RA 2011)	2.0 to 3.0

