

Laboratory Technocrat Engineering Services & Lab, "Aditi", A-3 & A-4, Tilak Park Society, Harni Road, Vadodara, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6343

Page 1 of 2

Validity 27.09.2017 to 26.09.2019

Last Amended on --

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---|--|
|-----|----------------------------|-------------------------|---|--|

MECHANICAL TESTING

| | | | | |
|------------|---------------------------|---|-----------------------------|---|
| I. | SOIL & ROCK | | | |
| 1. | Soil | Grain size | IS 2720 (Part-4) | 0.01 % to 100.00 % (4.75 mm to 75 micron) |
| | | Liquid Limit | IS 2720 (Part-5) | 5 % to 100 % |
| | | Plastic Limit | | 5 % to 50 % |
| | | Light Compaction MDD OMC | IS 2720 (Part-7) | 1.0 g/cm ³ to 2.5 g/cm ³ 0.1 % to 30.0 % |
| | | Heavy Compaction MDD OMC | IS 2720 (Part-8) | 1.0 g/cm ³ to 3.0 g/cm ³ 0.1 % to 30.0 % |
| | | Specific gravity | IS 2720 (Part-3, Sec-1) | 1.5 to 3.0 |
| | | Moisture content | IS 2720 (Part-2) | 0.1 % to 90.0 % |
| | | Free Swell Index | IS 2720 (Part-40) | 5 % to 70 % |
| II. | BUILDING MATERIALS | | | |
| 1. | Fine Aggregate | Sieve Analysis | IS 2386 (Part-1) | 0.01 % to 100.0 % (10 mm to 75 micron) |
| | | Specific gravity | IS 2386 (Part-3) | 1.0 to 4.00 |
| | | Water absorption | IS 2386 (Part-3) Cl. No. 02 | 0.1% to 45 % |
| | | Bulk Density | IS 2386 (Part-3) | 1.0 kg/L to 4.0 kg/L |
| 2. | Coarse Aggregate | Sieve analysis / gradation of aggregate | IS 2386 (Part-1) | 0.01 % to 100.00 % (63 mm to 10 mm) |
| | | Specific gravity | IS 2386 (Part-3) | 1.0 to 4.0 |
| | | Water absorption | IS 2386 (Part-3) Cl. no. 02 | 0.1 % to 45 % |
| | | Bulk Density | IS 2386 (Part-3) | 1.0 kg/L to 4.0 kg/L |
| | | Flakiness Index | IS 2386 (Part-1) Cl. 04 | 1.0 % to 70 % |
| | | Elongation Index | IS 2386 (Part-1) Cl. 05 | 1.0 % to 70 % |
| | | Impact value | IS 2386 (Part-4) | 1 % to 50 % |
| | | Crushing Value | IS 2386 (Part-4) | 1 % to 50 % |

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| | | Abrasion value (by Los angeles Method) | IS 2386 (Part-4) | 1.0 % to 70 % |
| 3. | Burnt Clay Bricks | Dimension | IS 1077 | |
| | | Length | | 4520 mm to 4680 mm |
| | | Width | | 2160 mm to 2240 mm |
| | | Height | | 1360 mm to 1440 mm |
| | | Water absorption | IS 3495 (Part-2) | 1.0 % to 50.0 % |
| | | Compressive strength | IS 3495 (Part-1) | 1 kg/cm ² to 70 kg/cm ² |
| | | Efflorescence test | IS 3495 (Part-3) | Qualitative |
| 4. | Hardened Concrete | Compressive Strength | IS 516:1959 | 5 N/mm ² to 85 N/mm ² |
| 5. | Paver block | Compressive strength | IS 15658 | 5 N/mm ² to 85 N/mm ² |
| | | Water absorption | IS 15658 | 0.1 % to 10.0 % |