

Laboratory **Shree Vinayak Test House, A-55, Shankar Vihar Vistar, Vikas Nagar,  
Dadi Ka Phatak, Muralipura, Jaipur, Rajasthan**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7485**

Page 1 of 1

Validity **29.06.2018 to 28.06.2020**

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**

|            |                           |  |                                  |   |
|------------|---------------------------|--|----------------------------------|---|
| <b>I.</b>  | <b>BUILDING MATERIALS</b> |  |                                  |   |
| <b>1.</b>  | <b>Fine Aggregate</b>     | Sieve Analysis                                     | IS 2386 (Part 1)                 | 0.01 % to 100 %<br>(0.150 mm to 4.75 mm)    |
| <b>2.</b>  | <b>Coarse Aggregate</b>   | Sieve Analysis                                     | IS 2386 (Part 1)                 | 0.01 % to 100 %<br>(4.75 mm to 125 mm)      |
|            |                           | Flakiness index                                    | IS 2386 (Part 1)                 | 1 % to 60 %                                 |
|            |                           | Elongation index                                   | IS 2386 (Part 1)                 | 1 % to 60 %                                 |
|            |                           | Specific gravity                                   | IS 2386 (Part 3)                 | 2 to 4                                      |
|            |                           | Water absorption                                   | IS 2386 (Part 1)                 | 0.01 % to 25 %                              |
|            |                           | Impact value                                       | IS 2386 (Part 4)                 | 1 % to 50 %                                 |
| <b>2.</b>  | <b>Concrete</b>           | Compressive Strength of Concrete Cubes             | IS 516                           | 1 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup> |
| <b>3.</b>  | <b>Brick</b>              | Compressive Strength                               | IS 3495 (Part 1)                 | 1 N/mm <sup>2</sup> to 50 N/mm <sup>2</sup> |
|            |                           | Water Absorption                                   | IS 3495 (Part 2)                 | 1 % to 50 %                                 |
| <b>II.</b> | <b>SOIL &amp; ROCK</b>    |  |                                  |   |
| <b>1.</b>  | <b>Soil</b>               | Specific Gravity                                   | IS 2720 (Part 3/ Sec. 1 & 2)     | 1 to 4                                      |
|            |                           | Grain Size Analysis                                | IS 2720 (Part 4)<br>(Clause 3.0) | 0.01 % to 100 %<br>(4.75 mm to 100 mm)      |
|            |                           | Atterberg's Limit<br>Liquid Limit<br>Plastic Limit | IS 2720 (Part 5)                 | 15 % to 400 %<br>5 % to 100 %               |
|            |                           | Light Compaction                                   | IS 2720 (Part 7)                 | OMC: 1 % to 50 %<br>MMD: 1 gm/cc to 4 gm/cc |
|            |                           | Heavy compaction                                   | IS 2720 (Part 8)                 | OMC: 1 % to 50 %<br>MMD: 1 gm/cc to 4 gm/cc |
|            |                           | Free Swell Index                                   | IS 2720 (Part 40)                | 1 % to 400 %                                |
|            |                           | California Bearing Ratio                           | IS 2720 (Part 16)                | 1 % to 95 %                                 |