



SANGHI INDUSTRIES LIMITED
QUALITY CONTROL LABORATORY

Sanghipuram - 370 511.

Turning Dreams into Concrete Reality Tal. : Abdasa, Dist. : Kutch, State : Gujarat



CM/L 7431062

(NABL ACCREDITED LABORATORY)

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Certificate No. : CMD/OPC/19/09/16
Lot Create Date : 20.09.2016
Material : CEMENT OPC 53GR
Lab Code : 263/CM/19
Sample Received From : Packing Plant
Address : SIL-Sanghipuram
Reference : Day Average Com.Despatch
During of testing Period : 20.09.2016 To 18.10.2016
Tested as per : IS 4031 & IS 4032
Date of Sample : 19.09.2016
Month : 09
Week : 38

NABL/TP/F30

Issue No.6, Amnd.No.: 02, Eff. Dt. : 02.02.2016

TEST CERTIFICATE

| PARAMETERS TESTED | REQUIREMENTS AS PER IS 12269 : 2013 | RESULTS OBTAINED |
|-------------------------------|-------------------------------------|------------------|
| 1.Chemical Testing | | |
| Loss on Ignition | LESS THAN 4.00% | 2.46 |
| Insoluble Residue | LESS THAN 4.00% | 1.96 |
| SO ₃ | LESS THAN 3.50% | 2.57 |
| MgO | LESS THAN 6.00% | 2.33 |
| Chloride | LESS THAN 0.10% | 0.066 |
| LSF | 0.80% To 1.02% | 0.90 |
| AM | MORE THAN 0.66% | 1.37 |
| C3A | - | 7.69 |
| 2.Mechanical Testing | | |
| Specific Surface | MORE THAN 225.00m ² /kg | 305 |
| Normal Consistency | | 28.5 |
| Setting Time - Initial | MORE THAN 30.00min | 155 |
| Setting Time - Final | LESS THAN 600.00min | 220 |
| Soundness Lechatelier | LESS THAN 10.00MM | 1.00 |
| Soundness Autoclave | LESS THAN 0.80% | 0.08 |
| Comp. Strength - 24 Hrs. * | MORE THAN 20.00MPa | 24.5 |
| Comp. Strength - 72 ± 1 Hrs. | MORE THAN 27.00MPa | 40.5 |
| Comp. Strength - 168 ± 2 Hrs. | MORE THAN 37.00MPa | 51.0 |
| Comp. Strength - 672 ± 4 Hrs. | MORE THAN 53.00MPa | 66.0 |

Conditions :

- The test results pertain to the sample received only.
- This report is being issued with a specific understanding that SIL QC LAB will not in any way be involved in action following the interpretation of above results.
- This report shall not be re-produced except in full without written approval from SIL QC LAB.

* 1 Day testing is out of NABL scope.

Authorised Signatory

Quality Manager

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