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|-------------------------------|--|--------------------|-------------------|
| <b>Laboratory</b>             | <b>CQAFE (CHEMICAL LABORATORY), CQAFE, Aundh Camp, Pune, Maharashtra</b> |                    |                   |
| <b>Accreditation Standard</b> | <b>ISO/IEC 17025: 2005</b>   |                    |                   |
| <b>Discipline</b>             | <b>Chemical Testing</b>  | <b>Issue Date</b>  | <b>08.12.2014</b> |
| <b>Certificate Number</b>     | <b>T-2246</b>  | <b>Valid Until</b> | <b>07.12.2016</b> |
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| <b>S.No.</b> | <b>Product / Material of Test</b>       | <b>Specific Test Performed</b> | <b>Test Method Specification against which tests are performed</b> | <b>Range of Testing / Limits of Detection</b>              |
|--------------|---|--------------------------------|--|--|
| <b>I.</b>    | <b>INDUSTRIAL AND FINE CHEMICALS</b>    |                                |  |  |
| <b>1.</b>    | <b>Fire Fighting Chemicals</b>          |                                |  |  |
| <b>a)</b>    | <b>Dry Chemical Powder</b>              | Apparent Density               | IS 4308: 2003 Cl.4.2   | 0.001 g/ml to 2.0 g/ml                                     |
|              |   | Moisture Content               | IS 4308: 2003 Cl.4.8   | 0.01 % to 3.0 %  |
|              |   | Water Repellency               | IS 4308: 2003 Cl.4.7   | 0.0001 % to 5.0 %  |
|              |   | Hygroscopicity                 | IS 4308: 2003 Cl.4.5   | 0.0001 % to 3.00 %   |
|              |   | Particle Size Distribution     | IS 4308: 2003 Cl.4.4   | 0.00 to 99.999 %   |
|              |   | Heat Resistant Test            | IS 4308: 2003 Cl.4.9   | Qualitative (visual)                                       |
|              |   | Free Flow Test                 | IS 4308: 2003 Cl.4.10  | Qualitative (Free Flow Should be Observed OR 10 to 90 g/s) |
|              | Caking Test                             | IS 4308: 2003 Cl.4.6           | Qualitative (visual)   |  |
| <b>b)</b>    | <b>Aqueous film forming foam (AFFF)</b> | Specific Gravity               | IS 4989: 2006 Annex B  | 0.1 to 4.0   |
|              |   | Miscibility                    | IS 4989: 2006 Annex C  | Qualitative (visual)                                       |
|              |   | pH                             | IS 4989: 2006 Annex A  | 1.00 to 14.00  |
|              |   | Spreading Co-efficient         | IS 4989: 2006 Annex F  | 0.01 to 6.5  |
|              |   | Sludge Content                 | IS 4989: 2006 Annex E  | 0.0001 % to 2.0 %  |
|              |   | Pour Point                     | IS 4989: 2006 Annex D  | Qualitative (Visual)                                       |
|              |   | Freezing Point                 | IND/CQAFE/PROV/019<br>6 (a) Cl.12.8 (a) 2007                       | Qualitative (Visual)                                       |

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| S.No. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-------|----------------------------|-------------------------|---|--|
| c)    | <b>Protein Foam</b>        | Specific Gravity        | IS 4989: 2006 Annex B                                       | 1.0 to 4.0                             |
|       |                            | Miscibility             | IS 4989: 2006 Annex C                                       | Qualitative (Visual)                   |
|       |                            | pH                      | IS 4989: 2006 Annex A                                       | 1.00 to 14.00                          |
|       |                            | Sludge Content          | IS 4989: 2006 Annex E                                       | 0.0001 % to 2.0 %                      |
|       |                            | Pour Point              | IS 4989: 2006 Annex D                                       | Qualitative (Visual)                   |

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