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|-------------------------------|--|--------------------|-------------------|
| <b>Laboratory</b>             | <b>Insight Tobaccocraft Institute (R &amp; D Department of Godfrey Phillips India Limited), Plot No. 19, MIDC, TTC Industrial Area, Rabale, Navi Mumbai, Maharashtra</b> |                    |                   |
| <b>Accreditation Standard</b> | <b>ISO/IEC 17025: 2005</b>   |                    |                   |
| <b>Discipline</b>             | <b>Mechanical Testing</b>  | <b>Issue Date</b>  | <b>11.03.2016</b> |
| <b>Certificate Number</b>     | <b>T-1773</b>  | <b>Valid Until</b> | <b>10.03.2018</b> |
| <b>Last Amended on</b>        | <b>01.04.2016</b>  | <b>Page</b>        | <b>1 of 2</b>     |

| S. No.                                      | Product / Material of Test | Specific Test Performed   | Test Method Specification against which tests are performed  | Range of Testing / Limits of Detection   |
|---|----------------------------|---|--|--|
| <b>I. MECHANICAL PROPERTIES OF MATERILS</b> |                            |   |  |  |
| 1.  | <b>Tobacco</b>             | Determination of Oven Volatiles of Tobacco                      | PMI Method 274-<br>Issue No. 1 Dated 01/2006<br>GPI/SOP/01<br>Issue No.: 7<br>Issue Date: 29.08.2013 | 9.0 % to 15.0 %  |
| 2.  | <b>Cigarette</b>           | Determination of Tobacco Weight And Density                     | PMI Method 327<br>Issue No. 1 Dated 10/93<br>GPI/SOP/02<br>Issue No.: 7<br>Issue Date: 29.08.2013    | Tobacco Weight:<br>600 to 1100 mg/ Cigarette<br>Density:<br>230 mg/cc to 300 mg/cc |
|   |                            | Determination of Nominal Diameter (Circumference) of Cigarettes | ISO 2971: 1998<br>GPI/SOP/06<br>Issue No.: 7<br>Issue Date: 29.08.2013                               | 23 mm to 26.5 mm   |
|   |                            | Determination of Pressure Drop of Cigarettes                    | ISO 6565: 2002<br>GPI/SOP/10<br>Issue No.: 7<br>Issue Date: 29.08.2013                               | 25 mm to 140 mm  |
|   |                            | Determination of Ventilation In Cigarettes                      | ISO 9512: 2002<br>GPI/SOP/11<br>Issue No.: 7<br>Issue Date: 29.08.2013                               | Upto 50 %  |
|   |                            | Determination of Number of Puffs                                | ISO 3308: 2000 (E)<br>(3.9, 4.7, 5.6)<br>GPI/SOP/08<br>Issue No.: 7<br>Issue Date: 17.12.2013        | 6 / Cigarette to<br>12/Cigarette   |

