

Laboratory Catalysts Biotechnologies R & D Centre, 3/1/4, Site IV, Industrial Area, Sahibabad, Ghaziabad, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7012

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Validity 12.03.2018 to 11.03.2020

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 |
|----------------------------------|---------------------------------------|---|---|--|
| <b><u>BIOLOGICAL TESTING</u></b> |                                       |   |   |  |
| I.                               | <b>WATER</b>                          |   |   |  |
| 1.                               | Ground/ surface Water                 | Total Bacterial count (Pour plate method) | IS 5402   | ≥10 cfu/ml                             |
| II.                              | <b>ENVIRONMENT &amp; POLLUTION</b>    |   |   |  |
| 1.                               | Waste water(Effluents)                | Total Bacterial count (Pour plate method) | IS 5402   | ≥10 cfu/ml                             |
| 2.                               | Spent lees                            | Total Bacterial count (Pour plate method) | IS 5402   | ≥10 cfu/ g                             |
| III.                             | <b>FOOD AND AGRICULTURAL PRODUCTS</b> |   |   |  |
| 1.                               | Sugar and Sugar Products              | Total Yeast &Mould count                  | IS 5403   | ≥10 cfu/ g                             |
| 2.                               | Molasses                              | Lactic acid bacteria (colony count)       | IS 16068  | ≥10 cfu/ g                             |

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| <b><u>CHEMICAL TESTING</u></b> |  |   |  |  |
| <b>I.</b>                      | <b>WATER</b>   |   |  |  |
| 1                              | Ground water/<br>Tank water/ River<br>Water/ surface<br>Water) | pH<br>Electrical conductivity<br>Total alkalinity<br>Total Hardness | IS 3025 (Part 11)<br>IS 3025 (Part 14)<br>IS 3025 (Part 23)<br>IS 3025 (Part 21) | 0.01 to 14<br>0.05µS to 500 mS<br>0.5 to 500 mg/litre<br>01 to 1000 mg/litre |
| <b>II.</b>                     | <b>POLLUTION &amp; ENVIRONMENT</b>                             |   |  |  |
| 1.                             | Waste<br>Water-(Effluents)                                     | pH<br>Electrical conductivity                                       | IS 3025 (Part 11)<br>IS 3025 (Part 14)   | 0.01 to 14<br>0.05 µS to 500 mS  |
| 2.                             | Spent Lees   | Total alkalinity  | IS 3025 (Part 23)  | 0.5 to 500 mg/litre  |
| <b>III.</b>                    | <b>FOOD AND AGRICULTURAL PRODUCTS</b>                          |   |  |  |
| 1.                             | Molasses   | Total Hardness<br>Sulphated Ash<br>Brix                             | IS 3025 (Part 21)<br>IS 1162<br>IS 1162  | 01 to 1000 mg/litre<br>8 to 17.5%<br>75 to 95 Bx                             |