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|  | <b>ACCREDITATION<br/>DOCUMENT</b> | <b>F-06/02</b><br><b>Issue Date: 10/08/15</b><br><b>Rev. No: 07</b><br><b>LAB 074</b> |
|---|-----------------------------------|---|

## Accreditation No: LAB 074

Awarded to

**Global Environmental Lab (Pvt.) Ltd.**  
**2nd Floor, Aiwan-e-Sanat, ST4/2, Sector – 23,**  
**Korangi Industrial Area, Karachi, Pakistan**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **18-07-2014** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017**.

The accreditation requires regular surveillance, and is valid until **26-07-2021**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

**PAKISTAN NATIONAL ACCREDITATION COUNCIL**

**10-07-2020**  
Date

sd

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Director General

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### Testing Laboratory.

Accreditation Scope of Global Environmental Lab, 2nd Floor, Aiwan-e-Sanat, ST4/2, Sector – 23, Korangi Industrial Area, Karachi, Pakistan.

Permanent laboratory premises

| Materials/<br>Products<br>tested | Testing field (e.g.<br>environmental testing or<br>mechanical testing) | Types of test/<br>Properties measured  | Reference to standardized<br>method (e.g. ISO 14577-<br>1:2003)/ Internal method<br>reference |
|----------------------------------|--|--|---|
| Water /<br>Waste Water           | Environmental Testing  | Lead (Pb)                              | APHA 3030E / AAS (APHA<br>20TH Edition 1998)  |
|                                  | - do -   | Cadmium (Cd)                           | APHA 3030E / AAS (APHA<br>20TH Edition 1998)  |
|                                  | - do -   | Calcium (Ca)                           | APHA 3500D / Digital<br>Titrator (APHA 20th Edition<br>1998)                                  |
|                                  | - do -   | Magnesium (Mg)                         | APHA 3500E / Digital<br>Titrator (APHA 20th Edition<br>1998)                                  |
|                                  | - do -   | Total Hardness as<br>CaCO <sub>3</sub> | APHA 2340C / Digital<br>Titrator (APHA 20th Edition<br>1998)                                  |
|                                  | - do -   | Sulphate (SO <sub>4</sub> )            | HACH 8051 / DR 2400<br>Spectrophotometer. HACH<br>2002, 4th Edition                           |

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| <b>Materials/<br/>Products<br/>tested</b> | <b>Testing field (e.g.<br/>environmental testing or<br/>mechanical testing)</b> | <b>Types of test/<br/>Properties measured</b> | <b>Reference to standardized<br/>method (e.g. ISO 14577-<br/>1:2003)/ Internal method<br/>reference</b> |
|---|---|---|---|
| Water /<br>Waste Water                    | - do -  | Fluoride (F)                                  | HACH 8029 / DR 2400<br>Spectrophotometer. HACH<br>2002, 4th Edition                                     |
|   | - do -  | Copper (Cu)                                   | APHA 3030E / AAS (APHA<br>20th Edition 1998)  |
|   | - do -  | Iron (Fe)                                     | APHA 3030E / AAS (APHA<br>20th Edition 1998)  |
|   | - do -  | Nickel (Ni)                                   | APHA 3030E / AAS (APHA<br>20th Edition 1998)  |
|   | - do -  | COD High Range (0 –<br>1500 PPM)              | HACH 8000 / DR 2400<br>Spectrophotometer. HACH<br>2002, 4th Edition                                     |
|   | - do -  | COD Low Range (3 –<br>15 ppm)                 | HACH 8000 / DR 2400<br>Spectrophotometer. HACH<br>2002, 4th Edition                                     |
|   | - do -  | pH (0 – 14)                                   | pH Meter HI2211 Hanna<br>Instruments  |
| Cereals and<br>Cereal<br>Products         | Food Testing  | Moisture<br>(at 130oC)                        | AOAC Official Method<br>925.09 , 20 <sup>th</sup> Edition   |

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|--|--------|---------------------------------|---|
|  | - do - | Protein (Nx6.25)                | AOAC Official Method<br>920.87 , 20 <sup>th</sup> Edition |
|  | - do - | Fat (Ether Extract)             | AOAC Official Method<br>920.85 , 20 <sup>th</sup> Edition |
|  | - do - | Ash                             | AOAC Official Method<br>923.03, 20 <sup>th</sup> Edition  |
|  | - do - | Carbohydrate (By<br>difference) | MacCane & Widdowson<br>The Composition of Food            |
|  | - do - | Energy (By<br>Calculation)      | MacCane & Widdowson<br>The Composition of Food            |

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