# INDUSTRIAL TECHNOLOGY INSTITUTE (ITI)

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ISO/IEC 17025
TL 004 - 01

## TEST REPORT

**Report No. SS 2200299**

**Report to:**

**Tex Products (Pvt) Ltd.**
**No. 536/A, Thalangama North**
**Battaramulla.**

**Issued by:**

**Chemical & Microbiological Laboratory**
**Industrial Technology Institute**

**2022/02/07**



2022/02/07.

organic (2)

... Continuation Sheet

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**TESTREPORT**

**Report No. SS 2200299**

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|---|---|
| **Customer:**<br>Tex Products (Pvt) Ltd.<br>No. 536/A, Thalangama North<br>Battaramulla. | **Test Item: Organic Solid Fertilizer**<br>**Service Requested:**<br>Parameters requested by the customer's letter dated 2022/01/05 |
| **Description:**<br>Approximately 01 kg X 3 of solid fertilizer sample contained in sealed polythene bags | **Identification of Test Item:**<br>**Label: "Sample 02"**<br>**Date of Receipt of Test Item :** 2022/01/05 |
| **Test Dates:** 2022/01/11 - 2022/02/07 | |

**Test Results:**

| Test/Unit | Method | Results | L.O.D. | E.U.% (k=2) |
|---|---|---|---|---|
| # Moisture, percent by mass | SLS 645 Part 2 :1984 | 21.4 | - 25 max | - |
| # Total Nitrogen (as N) on dry basis, percent by mass | CML/MM/03/03/005 | 1.8 | - 1 min | - |
| Total Phosphorous (as $P_2O_5$) on dry basis, percent by mass | SLS 645 Part 5 : 1985 | 2.2 | - 0.5 min | 8.0 |
| Total Potassium (as $K_2O$) on dry basis percent by mass | SLS 645 Part 4: 1989 | 1.3 | - 1.0 min | 6.0 |
| # Magnesium (as MgO) on dry basis, percent by mass | SLS 645 Part 6 : 1990 | Not detected | 0.1 0.5 min | - |
| # Calcium (as CaO) on dry basis, percent by mass | | 2.8 | - min 0.7 | - |
| # Particle size Percent Retained on 4 mm sieve | SLS 1635 : 2019 Appendix G | 4.3 | - 2 | - |
| # pH at 22.0 °C (1 :5) | ISO 10390: 2005 | 8.7 | - 6.5 - 8.5 | - |
| # Conductivity at 25 °C (1 :5), dS/m | SLS 1635:2019 Appendix B | 21.4 | - 4.0 | - |



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| Test/Unit | Method | Results | Limit of detection |
|---|---|---|---|
| # Foreign matter, percent by mass | SLS 1635 : 2019 Appendix H | Not detected | free |
| # Organic carbon (on dry basis), percent by mass | SLS 1635 : 2019 Appendix C | 23.9 | 20-min |
| # Sand content (on dry basis), percent by mass | SLS 1635 : 2019 Appendix E | 35.9 * | 2.0 |
| Presumptive *E.coli* count, per g (MPN) | SLS 516-12:2013 ISO 7251:2005 | Not detected | Free |
| *Salmonella*, per 25 g | SLS 516-5:2017 (ISO 6579-1:2017) | Absent | free |
| # Chromium (as Cr), mg/kg | Microwave digestion / ICP – MS | 20.5 | - 150 |
| # Nickel (as Ni), mg/kg | | 19.3 | - 50 |
| # Arsenic (as As), mg/kg | | 4.1 | - 5 |
| # Cadmium (as Cd), mg/kg | | 0.1 | - 3 |
| # Mercury (as Hg), mg/kg | | Not detected | 0.1 2 |
| # Lead (as Pb), mg/kg | | 3.7 | - 150 |

**# SLAB Non -Accredited test** **E. U. – Expanded Uncertainty** **L.O.D. Limit of Determination**

Analysis was carried out by Ms. J. A. H. Abeyrathna, Ms. H.K.W. Sandamali, Mr. M.S Thiwanka and Mr. W.A.A Peiris – Assistant Research Technologist.

Analysis of heavy metals was subcontracted to the Residue Analysis Laboratory of ITI.

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**Authorized Signatory**

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2022/02/07
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