

LABORATORY COMPREHENSIVE ANALYSIS TEST REPORT
MUMBAI WASTE MANAGEMENT LTD


| | |
|------|------------|
| Date | 05.11.2024 |
|------|------------|

| | |
|----------------------------------|--|
| Name of Client | M/s. Mumbai Waste Management Ltd. |
| Address: | Plot No P-32 MIDC Taloja, Dist. Raigad Maharashtra |
| Sample Reference Number | 01 |
| Name of Sample / Hazardous Waste | BMW Ash Sample |
| Description of Sample | SOLID SAMPLE, BLACK COLOR |
| Sample Received Date | 01.11.2024 |
| Sample Received Quantity | 1 Kg |
| Sample Drawn By | -- |
| Confirmation Date | 01.11.2024 |
| Testing Period | 01.11.2024 to 05.11.2024 |
| Confirmation By | INC Dept. |

| Sr. No. | Particulars | Observation | | Remarks (If any) |
|---------|---|---------------------------------------|---------------------------------------|------------------|
| 1. | Does the waste have Odor? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | |
| 2. | Does the waste give fumes exposed to the atmosphere? | <input type="checkbox"/> Y | <input checked="" type="checkbox"/> N | |
| 3. | Does the waste react with water? | <input type="checkbox"/> Y | <input checked="" type="checkbox"/> N | |
| 4. | Does the waste is incompatible with any material? If so specify | <input type="checkbox"/> Y | <input checked="" type="checkbox"/> N | |
| 5. | Physical State | Solid | | |
| 6. | Colour | Black | | |
| 7. | Texture | Dry | | |

Y: Yes, N: No.


Reviewed by


Authorised By

LABORATORY COMPREHENSIVE ANALYSIS TEST REPORT
MUMBAI WASTE MANAGEMENT LTD

| | |
|------|------------|
| Date | 05.11.2024 |
|------|------------|

TEST RESULTS

| S.No | Parameter | Method | Result | Unit | Std. for Secure Landfill Disposal |
|-------|--|---|--------|-------------------|--|
| 1 | Bulk Density | ASTM D 5057-2017 | 0.80 | g/cm ³ | Not Specified |
| 2 | pH (At Room Temperature) | USEPA SW-846: 9045 C:1996 | 9.38 | - | > 4 To < 12 |
| 3 | Flash Point | USEPA SW-846: 1020 C:1998 | >60 | °C | >60.0 |
| 4 | Loss on Drying @ 105°C | USEPA SW -846: 1684:2001 | 1.23 | % | Not Specified |
| 5 | Loss of Ignition @ 550°C | USEPA SW -846: 1684:2001 | 3.45 | % | < 20 % Non-Biodegradable & <5% Biodegradable |
| 6 | Gross Calorific Value | IS 1350:Part2-2022 | <50.0 | cal/g | <2500 cal/g |
| 7 | Sulphide | USEPA SW-846: 9030 B & 9034:1996 | 10.50 | mg/kg | -- |
| 8 | Carbon in % | Lab SOP No. 027, Revision Date:12.09.2023 | BQL | % | Not Specified |
| 9 | Hydrogen in % | Lab SOP No. 027, Revision Date:12.09.2023 | BQL | % | Not Specified |
| 10 | Nitrogen in % | Lab SOP No. 027, Revision Date:12.09.2023 | BQL | % | Not Specified |
| 11 | Sulphur in % | Lab SOP No. 027, Revision Date:12.09.2023 | BQL | % | Not Specified |
| 12 | Cyanide | USEPA SW-846; 9010 C & 9014:2014 | <1.0 | mg/kg | Not Specified |
| 13 | Ammonical Nitrogen | MWML LAB SOP 04, Revision Date:12.09.2023 | 56.0 | mg/kg | <1000 |
| 14 | Total Chlorides as Cl ⁻ | USEPA SW-846: 5050,9253:1994 | 185.0 | mg/kg | Not Specified |
| S. No | Parameter | Method | Result | Unit | Std. for Secure Landfill Disposal |
| 15 | Sulphate as SO ₄ ⁻ | USEPA SW-846, 9038:1986 | 140.0 | mg/kg | Not Specified |

bsw
Reviewed by

[Signature]
Authorised By

LABORATORY COMPREHENSIVE ANALYSIS TEST REPORT
MUMBAI WASTE MANAGEMENT LTD

Report Date: **05.11.2024**

| | | | | | |
|----|--------------------------------|--|-------|-------|-------------------|
| 16 | Iron as Fe | Lab SOP No. 130, Revision Date:12.09.2023 | 1.20 | mg/L | -- |
| 17 | Manganese as Mn | Lab SOP No. 130, Revision Date:12.09.2023 | 0.36 | mg/L | <10 |
| 18 | Nitrate Nitrogen as N | Lab SOP No. 96, Revision Date:12.09.2023 | 2.3 | mg/kg | <30 |
| 19 | Mercury as Hg | Lab SOP No. 130, Revision Date:12.09.2023 | <0.1 | mg/L | < 0.1 |
| 20 | Lead as Pb | Lab SOP No. 130, Revision Date:12.09.2023 | <0.05 | mg/L | < 2.0 |
| 21 | Cadmium as Cd | Lab SOP No. 130, Revision Date:12.09.2023 | <0.05 | mg/L | < 0.2 |
| 22 | Chromium as Cr ⁶⁺ | USEPA 1998, SW-846;7196A | <0.5 | mg/L | < 0.5 |
| 23 | Copper as Cu | Lab SOP No. 130, Revision Date:12.09.2023 | 0.85 | mg/L | < 10 |
| 24 | Nickel as Ni | Lab SOP No. 130, Revision Date:12.09.2023 | 0.21 | mg/L | < 3 |
| 25 | Zinc as Zn | Lab SOP No. 130, Revision Date:12.09.2023 | 1.02 | mg/L | < 10 |
| 26 | Cobalt as Co | Lab SOP No. 130, Revision Date:12.09.2023 | <0.1 | mg/L | <80 |
| 27 | Arsenic as As | USEPA SW-846: 1311, 3010A, 6010B: 1996 | <0.02 | mg/L | <1.0 |
| 28 | Water Soluble Inorganics (WSI) | Lab SOP No. 104, Revision Date:12.09.2023 | <10.0 | % | <10% Except Salts |
| 29 | Organic Halogens | USEPA SW 846: 5050, 9253:1994 | BQL | mg/kg | Not Specified |

BQL: Below Quantification Limit

| | |
|-------------------------|------------------------|
| Disposal Pathway | Direct Landfill |
|-------------------------|------------------------|

END OF REPORT

Gosli
Reviewed by

[Signature]
Authorised By

