

# COMPREHENSIVE ANALYSIS REPORT

Date	21.06.2023
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Name of Client	M/s. Mumbai Waste Management Ltd.
Contact Details	Plot No P-32,MIDC Taloja, Dist.Raigad.Maharashtra.410208
Waste Generation	- BMW Plant

Sample Reference Number 01
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Name of Sample / Hazardous Waste:	BMW Ash Sample		
Description of Sample When Received:	Solid Sample, Black Color		
Sample Received Date	16.06.2022	Sample Drawn By:	Customer
Waste Category	Schedule – 1	Schedule – 2	Schedule – 5 (A/B)

Confirmation Date:	16.06.2022	Confirmation By :	INC Department
Testing Period:	05 Days		

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		

Note                      Y = Yes                      N= No

Prepared By

Verified By

Laboratory Manager  
(Authorized Signatory)

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## TEST REPORT

Parameter	Unit	Method	Result	Std. for Secure Landfill Disposal
Specific Gravity/ Bulk Density	g/cm <sup>3</sup>	ASTM D 5057-2010	0.92	Not Specified
pH (At Room Temperature)	-	USEPA 1998, SW-846 9045 C	9.42	> 4 To < 12
Flash Point	°C	USEPA 1998, SW-846; 1020 A	>65.0	>65.0
LOD @ 105 <sup>0</sup> C	%	US EPA 1998, SW -846; 1684	1.20	Not Specified
LOI @ 550 <sup>0</sup> C	%	US EPA 1998, SW -846; 1684	4.21	< 20 % No Biodegradable <=5% Biodegradable
Calorific Value	cal/g	IS 1350:Part2-1975 (Reff:2010)	<50.0	<2500 cal/g
Water Soluble Inorganics (WSI)	%	APHA 2540 E	<1.0	<20% w/W
Organic Halogens	mg/kg	SW 846 5050 & 9253	BDL	Not Specified
Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/kg	APHA 23 <sup>rd</sup> Edition, June 2017; 4500 SO <sub>4</sub> <sup>2-</sup> E	212.52	Not Specified
Total Chlorides as Cl <sup>-</sup>	mg/kg	APHA 23 <sup>rd</sup> Edition, June 2017; 4500 Cl <sup>-</sup> B	241.0	Not Specified
(TCLP) Toxicity Characteristics Leaching Procedure	-	USEPA 1998 , SW 846 1311	-	-
Cyanide	mg/L	USEPA 1998, SW-846	<1.0	<2.0
Ammonia as N (WLT)	mg/L	APHA 23 <sup>rd</sup> Edition, June 2017; 4500 NH <sub>3</sub> B, C	20.56	<1000.0
Arsenic as As (TCLP)	mg/L	USEPA , SW 846 Method 1311, 1330	0.074	<5.0
Arsenic as As (WLT)	mg/L	USEPA 1998, SW 846; 3010 A	0.064	<1.0
Lead as Pb (TCLP)	mg/L	USEPA , SW 846 Method 1311, 1330	2.45	<5.0
Lead as Pb (WLT)	mg/L	USEPA 1998, SW-846; 3010 A	0.52	<2.0

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Cadmium as Cd ( TCLP)	mg/L	USEPA , SW 846 Method 1311, 1330	0.074	<1.0
Cadmium as Cd (WLT)	mg/L	USEPA 1998, SW-846; 3010 A	0.019	<0.2
Total Chromium as Cr (TCLP)	mg/L	USEPA , SW 846 Method 1311, 1330	0.64	<5.0
Chromium as Cr <sup>6+</sup> (WLT)	mg/L	USEPA 1998, SW -846; 7196 A	0.70	<0.5
Copper as Cu (WLT)	mg/L	USEPA 1998, SW-846; 3010 A	1.87	<10.0
Nickel as Ni (WLT)	mg/L	USEPA 1998, SW-846; 3010 A	0.18	<3.0
Zinc as Zn (WLT)	mg/L	USEPA 1998, SW-846;3010 A	0.96	<10.0
Cobalt as Co (TCLP)	mg/L	USEPA , SW 846 Method 1311, 1330	BDL	Not Specified *
Iron as Fe (TCLP)	mg/L	USEPA 1998, SW -846; 3010 A	2.40	<3.0
Manganese as Mn (TCLP)	mg/L	USEPA , SW 846 Method 1311, 1330	2.98	Not Specified *

Safety Instructions for Handling of Hazardous Waste (if any)	Use of proper PPE's is must while handling hazardous waste.
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\*:Inland Surface Discharge Water Standards Applicable

ND: Not Detected

BDL: Below Detectable Limit

- Note
- : This certificate refers only to the sample submitted for testing.
  - : This certificate may not be reproduced in part, without the permission of this laboratory
  - : Any correction invalidates this certificate.
  - : **This Test report is valid for 03 years from the date of issue of report, if there is no change in processes, raw materials etc.**

Disposal Pathway / Opinions / Interpretations :	<b>DIRECT LANDFILL</b>
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**END OF REPORT**

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(Authorized Signatory)