

Amrinder Singh

WBWML/GP/LAB-310

# WEST BENGAL WASTE MANAGEMENT LTD.

(A Division of RAMKY Enviro Engineers Ltd.)

J.L. No. - 103, Mouza - Purba Srikrishnapur

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**NABL**  
Accredited Laboratory  
Certificate No. : T-2033

## LABORATORY ( Recognized by WBPCB )

### TEST REPORT

Name and Address of Customer: M/s. Almega Paints Pvt. Ltd.  
Mouza- Tulsiberia, J.L. No - 1, Tulsiberia Road, P S - Uluberia, Howrah

Sample Description: Paint Sludge

Sample Collected by: WBWML

Date of Sampling: 19<sup>th</sup> January 2015

Sample Registration No. and Date: CA - 15/016, 20<sup>th</sup> January 2015

Sample Receipt Condition: Sample recd. in plastic pouch

Analysis Starting Date: 27<sup>th</sup> January 2015

Analysis Completion Date: 31<sup>st</sup> January 2015

Test Required: Comprehensive Analysis

Report No. and Date: CAR - 15/016, 31<sup>st</sup> January 2015

Sub-contracting of Analysis: None

### TEST RESULT

Sl. no.	Parameter	Unit	Method	Observation/ Result	CPCB Std. and WLT / TCLP Limit for Direct Landfill
1	Physical State	-	Visual observation	Wet Solid	-
2	Color	-	Visual observation	Multi Color	-
3	Texture	-	Visual observation	Lumps	-
4	Bulk Density	gm/cc	ASTM Std. : D-5057 - 10	1.40	-
5	Paint Filter Liquid Test	-	SW-846 : 9095A	Pass	Pass
6	pH (at 20 °C)	-	SW-846 : 9040B, 9045C	8.75	4.0-12.0
7	Calorific Value	kJ/kg	IS : 1350 (Part II) - 1975 (RA 2010)	3167	< 2500.0
8	Flash Point	°C	SW-846 : 1020A	> 60.0	> 60.0
9	Loss on Drying at 103-105 °C	% (w/w)	IS : 10158 - 1982 (RA 2009)	23.77	-
10	Loss on Ignition at 550 °C (Dry Basis)	% (w/w)	IS : 10158 - 1982 (RA 2009)	89.35	< 20.0 (non-biodegradables) < 5.0 (biodegradables)
11	Reactive Cyanide	mg/kg	SW-846 : Ch. 7 (7.3.3), 9014	< 1.00	-
12	Reactive Sulfide	mg/kg	SW-846 : Ch. 7 (7.3.4), 9034	< 5.00	-
13	Water Soluble Compounds Except Salts - in WLT Extract	% (w/w)	DIN 38414 Part 4 (S4) Std. Methods : 2540 B, G	0.02	< 10.0
14	Oil and Grease (As n-Hexane Extractable)	% (w/w)	USEPA 1998, SW-846 : 3540C	4.39	< 4.0
15	Cyanide - Total	mg/kg	SW-846 : 9010B, 9014	< 1.00	-
16	Cyanide - WLT	mg/L	DIN : 38414 Part 4 (S4) Std. Methods : 4500-CN <sup>+</sup> C SW-846 : 9014	< 0.05	< 2.0
17	Fluoride - Total	mg/kg	Std. Methods : 4500-F <sup>-</sup> B, D	< 1.00	-

*(Signature)*

CAR-15016 Almega Paints Pvt. Ltd - Paint Sludge/WOCC



Parameter	Unit	Method	Observation / Result	CPCB Std. and WLT / TCLP Limit for Direct Landfill
18 Fluoride - WLT	mg/L	DIN : 38414 Part 4 (S4) Std. Methods : 4600F <sup>-</sup> B, D	< 1.00	< 50.0
19 Nitrate - WLT	mg/L	DIN : 38414 Part 4 (S4) Std. Methods : 4500-NO <sub>3</sub> <sup>-</sup> E	< 0.10	< 30.0
20 Ammonia - WLT	mg/L	DIN : 38414 Part 4 (S4) Std. Methods : 4500-NH <sub>3</sub> B, C	< 5.00	< 1000.0
21 Arsenic - Total	mg/kg	SW-846 : 3050B Std. Methods : 3500-As B	< 1.00	-
22 Arsenic - WLT	mg/L	DIN : 38414 Part 4 (S4) SW-846 : 3010A Std. Methods : 3500-As B	< 0.10	< 1.0
23 Cadmium - Total	mg/kg	SW-846 : 3050B, 7000 B	< 1.00	-
24 Cadmium - WLT	mg/L	DIN : 38414 Part 4 (S4) Std. Methods : 3111 B	< 0.02	< 0.20
25 Chromium - Total	mg/kg	SW-846 : 3050B, 7000 B	89.15	-
26 Chromium (VI) - WLT	mg/L	DIN : 38414 Part 4 (S4) Std. Methods : 3500-Cr B	< 0.10	< 0.50
27 Chromium - TCLP	mg/L	SW-846 : 1311 Std. Methods : 3111 B	< 0.20	< 5.0
28 Copper - Total	mg/kg	SW-846 : 3050B, 7000 B	438.68	-
29 Copper - WLT	mg/L	DIN : 38414 Part 4 (S4) Std. Methods : 3111 B	0.04	< 10.0
30 Lead - Total	mg/kg	SW-846 : 3050B, 7000 B	6.05	-
31 Lead - WLT	mg/L	DIN : 38414 Part 4 (S4) Std. Methods : 3111 B	< 0.20	< 2.0
32 Mercury - Total	mg/kg	SW-846 : 7471A Std. Methods : 3112B	NA	-
33 Mercury - WLT	mg/L	DIN : 38414 Part 4 (S4) SW-846 : 7470A Std. Methods : 3112B	NA	< 0.10
34 Nickel - Total	mg/kg	SW-846 : 3050B, 7000 B	185.39	-
35 Nickel - WLT	mg/L	DIN : 38414 Part 4 (S4) Std. Methods : 3111 B	0.08	< 3.0
36 Vanadium - Total	mg/kg	SW-846 : 3050B, 7910	NA	-
37 Vanadium - WLT	mg/L	SW-846 : 3010A, 7910	NA	< 0.20
38 Zinc - Total	mg/kg	SW-846 : 3050B, 7000 B	< 1.00	-
39 Zinc - WLT	mg/L	DIN : 38414 Part 4 (S4) Std. Methods : 3111 B	0.05	< 10.0
40 Phenol - WLT	mg/L	DIN : 38414 Part 4 (S4) SW-846 : 9005	< 1.00	< 100.0
41 Benzene	mg/L	GC-MS	ND	< 0.50
42 Carbon tetrachloride	mg/L	GC-MS	ND	< 0.50
43 Chlordane	mg/L	GC-MS	ND	< 0.03
44 Chlorobenzene	mg/L	GC-MS	ND	< 100.0
45 Chloroform	mg/L	GC-MS	ND	< 0.0
46 o-, m-, p-Cresol	mg/L	GC-MS	ND	< 200.0 each
47 Endrin	mg/L	GC-MS	ND	< 0.02
48 Ethyl Methyl Ketone	mg/L	GC-MS	ND	< 200.0
49 Heptachlor (and its epoxides)	mg/L	GC-MS	ND	< 0.008
50 Hexachlorobenzene	mg/L	GC-MS	ND	< 0.10
51 Hexachlorobutadiene	mg/L	GC-MS	ND	< 0.50



Sl. no.	Parameter	Unit	Method	Observation / Result	CPCB Std. and WLT / TCLP Limit for Direct Landfill
52	Hexachloroethane	mg/L	GC-MS	ND	< 3.0
53	Lindane	mg/L	GC-MS	ND	< 0.40
54	Methoxychlor	mg/L	GC-MS	ND	< 10.0
55	Nitrobenzene	mg/L	GC-MS	ND	< 2.0
56	Pentachlorophenol	mg/L	GC-MS	ND	< 100.0
57	Pyridine	mg/L	GC-MS	ND	< 5.0
58	Tetrachloroethylene	mg/L	GC-MS	ND	< 0.70
59	Toxaphene	mg/L	GC-MS	ND	< 0.50
60	Trichloroethylene	mg/L	GC-MS	ND	< 0.50
61	Vinyl Chloride	mg/L	GC-MS	ND	< 0.20
62	1,1-Dichloroethylene	mg/L	GC-MS	ND	< 0.70
63	1,2-Dichloroethane	mg/L	GC-MS	ND	< 0.50
64	1,4-Dichlorobenzene	mg/L	GC-MS	ND	< 7.50
65	2,4-D	mg/L	GC-MS	ND	< 10.0
66	2,4-Dinitrotoluene	mg/L	GC-MS	ND	< 0.13
67	2,4,5-TF (Silvex)	mg/L	GC-MS	ND	< 1.0
68	2,4,5-Trichlorophenol	mg/L	GC-MS	ND	< 400.0
69	2,4,6-Trichlorophenol	mg/L	GC-MS	ND	< 2.0
70	Carbon	%	CHNS - CI Analyzer	15.40	-
71	Hydrogen	%	CHNS - CI Analyzer	1.21	-
72	Nitrogen	%	CHNS - CI Analyzer	0.49	-
73	Sulphur	%	CHNS - CI Analyzer	0.64	-

Enclosed GC-MS Chromatogram Data GC-MS Analysis - Solvent DCM Data File Single processing CAR-15.018 Almega Paints Pvt. Ltd. - Paint Sludge. Qgu

Note

Parameters Sl. no. 4-10, 14, 22-31, 34-35 and 38-39 are under NABL scope of Recognition.

Parameters Sl. no. 1-3, 11-12, 14-16 and 40-73 are not covered under WBPCB scope of Recognition.

CPCB - Central Pollution Control Board

WLT - Water Leaching Test

TCLP - Toxicity Characteristics Leaching Procedure

ASTM - American Society for Testing and Materials

IS - Indian Standard

SW 846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA, May 1997

Std. Methods - Standard Methods for the Examination of Water & Wastewater, 22<sup>nd</sup> Edition, APHA/AWWA/WEF, 2012

DIN 38414 Part 4 (S4) - German Standard Procedure for Water, Wastewater, and Sediment Testing-Group S (Sludge and Sediment), Determination of Leachability (S4), 1984

\* - CPCB General Environmental Standard for Discharge of Effluent in Inland Surface Water Applies

NA - Not Analyzed, ND - Not Detected

The comprehensive analysis report refers only to the 'as received' sample of waste.

The relevance vis-a-vis applicability of the report solely relates to the category no. as per the latest Hazardous Waste Rules as or as would be assigned by the concerned statutory authority.

The report cannot be produced in part or in full without the permission of West Bengal Waste Management Limited.

Checked by  
(Chemist - Lab.)

Authorized Signatory  
(In charge - Lab.)