

**M/S. ALMEGA PAINTS PRIVATE LTD.
VILL & P.O- TULSIBERIA,P.S- ULUBERIA
DIST. : HOHRAH, PIN – 711 401
WEST BENGAL**

FORM – V

**ENVIRONMENTAL STATEMENT REPORT FOR THE FINANCIAL YEAR
ENDING THE 31ST MARCH, 2021.**

PART – A

- | | |
|---|--|
| I) Name and address of the owner/occupier of the industry, operation or process | M/S. ALMEGA PAINTS PRIVATE LTD.
VILL & P.O- TULSIBERIA,P.S- ULUBERIA
DIST. : HOHRAH, PIN – 711 401
WEST BENGAL |
| II) Industry Category
Primary (SIC Code)
Secondary (SIC Code) | PAINTS & VARNISHES (MIXING AND BLENDING). |
| Production Capacity Units | (a) RESIN(SOLIDS) – 460 MT / Month (Max)
(b) PAINTS(WATER BASED
& SOLVENT BASED - 3960 MT/ Month (Max)
(c) REPROCESSED PAINT - 600 MT / Month (Max) |
| IV) Year of Establishment | March,2010 |
| V) Date of the Last Environmental Statement Submitted | 28 th September,2020. |

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PART – B

WATER AND RAW MATERIAL CONSUMPTION

I) <u>WATER CONSUMPTION</u>	<u>M³ / Day</u>
Process	12.0
Industrial Cooling	60.0
Domestic	15.0

<i>Name of Products</i>	<i>Process Water Consumption per product of out put</i>	
	<i>During the Previous financial year (Apr '19 – Mar '20)</i>	<i>During the Current financial year (Apr '20– Mar '21)</i>
1.RESIN (SOLIDS)		
2.PAINTS(WATER BASED & SOLVENT BASED)	219.95 Kg/KL	213.43 Kg/KL
3.REPROCESSED PAINT		

II) RAW MATERIALS CONSUMPTION

<i>Name of Products</i>	<i>Name of Raw Materials</i>	<i>Consumption of Raw Materials per unit of out put</i>	
		<i>During the Previous financial year (Apr '19– Mar '20)</i>	<i>During the Current financial year (Apr '20– Mar '21)</i>
1.RESIN (SOLIDS)			
2.PAINTS(WATER BASED & SOLVENT BASED)			
3.REPROCESSED PAINT			

**(PLEASE REFER ANNEXURE –I)
FOR DETAILS**

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PART – C

(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutant discharged (Mass/day)	Concentration of Pollutants in discharges (Mass/Volume)	Prescribed Standard or Limit (mg/l)	*Percentage of variation from prescribe standards with reason
<u>A. WATER</u>				
pH	--	7.3	6.0 – 8.5	--
T.S.S.	1.488 Kg/ day	64.0 mg/ l	100.0 mg/l	(+) 36.0 %
C.O.D.	5.022 Kg/ day	216.0 mg/ l	250.0 mg/l	(+) 13.6 %
B.O.D	0.558 Kg/ day	24.0 mg/ l	50.0 mg/l	(+) 52.0 %
O & G	0.046 Kg/ day	2.0 mg/ l	10.0 mg/ l	(+) 80.0 %
C ₆ H ₅ OH	0.012 Kg/ day	0.5mg/ l	1.0 mg/l	(+) 50.0 %
Cr ⁺⁶	--	<0.05 mg/l	0.1 mg/ l	--
Pb	--	<0.05 mg/l	0.1 mg/ l	--
Cr	0.014 Kg/ day	0.6 mg/ l	2.0 mg/ l	(+) 70.0 %
Cu	0.009 Kg/ day	0.4 mg/ l	2.0 mg/ l	(+) 80.0 %
Zn	0.028 Kg/ day	1.2 mg/ l	5.0 mg/ l	(+) 76.0 %
Ni	0.005 Kg/ day	0.2 mg/ l	2.0 mg/ l	(+) 90.0 %

02. AIR

A. SO₂ (Sulphur-di-Oxide)	0.855 Kg/day	12.0 mg/NM ³ (For Thermic Fluid Heater No-1)	--	--
	1.015 Kg/day	14.0 mg/NM ³ (For Thermic Fluid Heater No-2)	--	--
	0.001 Kg/day	7.0 mg/NM ³ (For 160 KVA D.G. Set No-1)	--	--
	0.001 Kg/day	6.0 mg/NM ³ (For 160 KVA D.G. Set No-2)	--	--
	0.003 Kg/day	11.0 mg/NM ³ (For 400 KVA D.G. Set)	--	--
	1.331 Kg/day	17.0 mg/NM ³ (Combined of TFH 1&2)	--	--
	Total SO₂ = 3.206 Kg/day			

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B. PM (Particulate Matter)	4.490 Kg/day	63.0 mg/NM ³ (For Thermic Fluid Heater No-1)	150mg/NM ³	(+) 58.0 %
	5.150 Kg/day	71.0 mg/NM ³ (For Thermic Fluid Heater No-2)	150mg/NM ³	(+) 52.67 %
	0.008 Kg/day	59.0 mg/NM ³ (For 160 KVA D.G. Set No-1)	150mg/NM ³	(+) 60.67 %
	0.004 Kg/day	43.0 mg/NM ³ (For 160 KVA D.G. Set No-2)	150mg/NM ³	(+) 71.33 %
	0.020 Kg/day	86.0 mg/NM ³ (For 400 KVA D.G. Set)	150mg/NM ³	(+) 42.67 %
	9.634 Kg/day	123.0 mg/NM ³ (Combined of TFH 1&2)	150mg/NM ³	(+) 18.0 %
Total PM =				
19.306 Kg/day				

$$\text{* Percentage (\%) of Variation} = \frac{\text{Standard} - \text{Actual}}{\text{Standard}} \times 100$$

(+) Means lower than standard

(-) Means higher than standard

NOTE :

- i) Water Pollution load has been calculated on the basis of Effluent water quantity as given in the Combined Consent Application Form for the year **2020-2021** and on the basis of effluent water sample carried out by **M/s. Envirotech East Pvt. Limited** on **18.03.2021**.
- ii) Air Pollution load has been calculated on the basis of stack emission report for the year **2020-2021** and on the basis of Stack Emission sample carried out by **M/s. Envirotech East Pvt. Limited** on **17 & 18.03.2021**

BASIS

A. WATER

Effluent (Industrial + Domestic) water Discharged = **23.25 M³/day**

B. AIR

- a) Thermic Fluid Heater no-1 running 16.3 hrs/day.
- b) Thermic Fluid Heater no-2 running 16.3hrs/day.
- c) 160 KVA Standby D.G.(No-1) Set is running 0.37 hr./day (approx)
- d) 160 KVA Standby D.G.(No-2) Set is running 0.21 hr./day (approx.).
- e) 400 KVA Standby D.G Set is running 0.53 hr./day (approx.)
during **April' 2020- March'2021**.

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POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT

POLLUTANT	Quantity Discharged (Kg/day)	Quantity Discharged per Unit of Output (Kg/KL)
A) <u>WATER</u>		
TSS	1.488 Kg/ day	0.0099 Kg/ unit of output
COD	5.022 Kg/ day	0.0337 Kg/ unit of output
BOD	0.558 Kg/ day	0.0037 Kg/ unit of output
O & G	0.046 Kg/ day	0.0003 Kg/ unit of output
Cr ⁺⁶	--	--
Pb	--	--
Total Cr	0.014 Kg/ day	0.0001 Kg/ unit of output
Cu	0.009 Kg/ day	0.0001 Kg/ unit of output
Zn	0.028 Kg/ day	0.0001 Kg/ unit of output
C ₆ H ₅ OH	0.012 Kg/ day	0.00001 Kg/ unit of output
Ni	0.005 Kg/ day	0.00003 Kg/ unit of output
B) <u>AIR</u>		
SO ₂	3.206 Kg/day	0.0215 Kg/ unit of output
PM	19.306 Kg/day	0.1202 Kg/ unit of output

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PART - D

HAZARDOUS WASTES

As Specified under Hazardous Wastes (Management and Handling) Rules, 1989

<i>HAZARDOUS WASTES</i>	<u>TOTAL QUANTITY</u>			
	<i>During the Previous financial year (Apr '19--Mar '20)</i>		<i>During the Current financial Year (Apr '20--Mar '21)</i>	
a) From Process	Resin Waste	0.246 MT	Resin Waste	0.300 MT
	Paint Waste	1285.0 MT	Paint Waste	1620.0 MT
	Empty Hazardous Container (MS & - PVC) -	30.50 MT	Empty Coloured Bags -	0.510 MT
	Empty Coloured Bags -	0.355 MT	Waste Solvent -	0.925 MT
	Waste Solvent -	0.745 MT		
b) From Pollution Control facility	ETP Sludge -	0.670 MT	ETP Sludge -	0.720 MT

PART - E
SOLID WASTES

<i>SOLID WASTES</i>	<u>TOTAL QUANTITY</u>	
	<i>During the Previous financial Year (Apr '19--Mar '20)</i>	<i>During the Current financial Year (Apr '20--Mar '21)</i>
a) From Process	Transparent Pollythene , Paper Bag ,& Damage Cartoon - 213.858 MT	Transparent Pollythene , Paper Bag ,& Damage Cartoon -- 252.476 MT
b) From Pollution control facility	Nil	Nil
c) 1) Quantity recycled or reutilized within the Unit	Nil	Nil
2) Sold	Nil	Nil
3) Disposed	Transparent Pollythene , Paper Bag ,& Damage Cartoon -- 213.858 MT	Transparent Pollythene , Paper Bag ,& Damage Cartoon - 252.476 MT

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PART - F

Please specify the characterization (in terms of composition and quantum of hazardous as well as Solid wastes) and indicate disposal practice adapted for both of these categories of wastes.

➤ **HAZARDOUS WASTES** :- The composition & quantum of Hazardous Wastes generated by the unit during April' 2020- March' 2021 are as follows :-

a) ETP Sludge –	0.720 MT
b) Resin Waste -	0.300 MT
c) Paint Waste -	1620.0 MT
d) Empty Coloured Bags	0.510 MT
e) Waste Solvent -	0.925 MT

STORAGE & DISPOSAL METHOD :- 1.**ETP Sludge (Waste Category no. 35.3)** is kept in RCC Pit within the Sludge Drying Bed in the ETP area within the plant premises & disposed through **M/s.WBWML (Ramky Division)**. Total disposal quantity of ETP Sludge is **0.565 MT** during Apr'20- Mar'21 . Stock quantity as on 31.03.2021 is **0.178 MT**. 2.**Paint Waste /Process Waste (Waste Category no. 21.1)** are kept in closed barrel under the shed & disposed through **M/s.WBWML (Ramky Division)** Total disposal quantity of Paint Waste /Process Waste is **1190.923 MT** during Apr'20- Mar'21. Stock quantity as on 31.03.2021 is **128.2474 MT** . 3.**Empty Hazardous Container (MS & PVC) (Waste Category no. 33.3)** are stacked and only after properly decontamination & the resultant effluent to be treated in the existing ETP. Cleaned & decontaminated Containers are disposed through **M/s. West Bengal Waste Management Limited.(Ramky Division)** . Total disposal quantity of **Empty Hazardous Container** is **31.880 MT** during Apr'20- Mar'21. Stock quantity as on 31.03.2021 is **2.2496 MT**. 4.**Spent Solvent/Resin Waste (Waste Category no. 20.2)** kept in Drums & finally disposed through **M/s.WBWML (Ramky Division)** Total disposal quantity of **Spent Solvent/Resin Waste** is **0.153 MT** during Apr'20- Mar'21 . Stock quantity as on 31.03.2021 is **0.098 MT**. 5. **Waste Solvent (Waste Category no.28.5)** are kept in Drums & disposed through **M/s.WBWML (Ramky Division)**. Total disposal quantity of **Waste Solvent** is **0.586 MT** during Apr'20- Mar'21. Stock quantity as on 31.03.2021 is **0.161 MT**. 6. **Empty Coloured Bags (Waste Category no- 33.1)** are kept in closed barrel under the shed & disposed through **M/s.WBWML. (Ramky Division)**. Total disposal quantity of Empty Coloured Bags is **0.293 MT** during Apr'20- Mar'21. Stock quantity as on 31.03.2021 is **0.070 MT**.

As Per **Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016**, **M/s. Almega Paints Private Ltd** applied for the renewal of Hazardous Waste authorization to WMC, WBPCB Office on **07th April, 2014**, along authorization fees of **Rs.14,300/-** deposited to UBI Uluberia branch on **04.03.2019**. & the unit have get grant of Authorization letter vide Memo no- **129/2S(HW)-2971/2014, dated 19.06.2019 & was valid up to 30.04.2024.**

➤ The unit also displayed the “**Environmental Information Board**” both in Bengali and English attached main gate outside the factory premises. The photograph of the same was submitted to WMC. WBPCB Office on every year as per order of the Hon'ble Supreme Court dated **14.10.2003. W.P.(C) No. 657 of 1995**. They also maintained “**Registered Book**” regarding stock & disposal of Hazardous Waste Authorization.

➤ The unit also submitted Annual Return of Hazardous Waste in prescribed **Form - 4** for the period **Apr'2020 - Mar'2021** to WMC, WBPCB office on **24th June, 2021**. **On line Form-4 return submitted to WMC, WBPCB office vide Return no 755139 ,UID no WB0088664718 on 27.06.2021.**

B. SOLID WASTES : The Composition and quantum of Solid Wastes generated during April' 2020– March' 2021 is follows :- .

a) Transparent Polythene , Paper Bag ,& Damage Cartoon – **252.476 MT**

DISPOSAL METHOD : The Plastic, Paper Bag & Damage Cartoon are disposed to outside authorized agency.

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PART – G

Impact of Pollution Control measures taken on conservation of natural resources and on the cost of production.

- **M/s. Almega Paints Private Ltd** have 2 Nos. Thermic Fluid Heater (Capacity-6,00,000 Kcal/hr), with 2 separate stack , 2 Nos. 160 KVA standby D.G. Set & 1No.400 KVA standby D.G. Set for an interrupted power supply having permanent stack provided with suitable ladder, platform & sampling porthole as per the **Emission Regulations Part-III of CPCB**.
- The Unit has applied for renewal of "**Consent to Operate**" application form along with annexure ,documents, test report etc. & a consent fess of **Rs. 4,22,500.00** (Rupees Four Lacs twenty two thousand five hundred only) on line RTGS payment vide transduction Ref No - LUBI5921879367 , Date - 29.12.2017 and finally along with deposited 3rd copy of bank challan & other documents (on-line **CFO application no co0000000190358**) submitted at W.B. Pollution Control Board , Howrah Regional office on **29.12.2017**. The unit have got "**Consent Letter**" under section 25 &26 of the Water (Prevention and Control of Pollution) Act,1974 and Section 21 of the Air (Prevention and Control of Pollution) Act,1981 vide Consent letter no- **CO113427**,Memo no-**C037/01-PCB/HOW/132-2010, Dated 30.01.2018**. The said consent will **valid up to 31.12.2022**, as the unit falls under **Red Category**.
- As per Hazardous Waste generating unit vide Order No. - **2083/6C-1/ 2007**, dated. **24 August, 2010**, effective from financial year **2010 - 2011**, vide Code No. - **2104784** under the provision of Sub-Section (2) of Section (1) of the **Water (Prevention and Control of Pollution) Cess (Amendment) Act, 2003** the unit pay Water Cess (revised rate) of **Rs. 6,000/- (Rupees Six Thousand Only)** to SBI Specialized Industrial Banking Branch on **17th April, 2015**. for the period from **01.04.2015 to 31.03.2018**.vide **WBPCB ,Howrah Regional Office letter , Memo no- 017/4-PCB/How/132-2010(Part File) Date- 07.04.2015** .The deposited 3rd copy of bank challan submitted to **W.B. Pollution Control Board ,Howrah Regional Office on 21st April,2015**.
- **M/s. Almega Paints Private Ltd** celebrates **World Environment Day (5th June)** every year. In this connection, last year the function started with World Environment Day pledge being administered by General Manager to all officers & staff of plant. Tree plantation, environment related quiz programme, sit and draw competition and display of environment related banners at the prominent places within factory premises is also held to observe the day.

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PART - H

Additional investment proposal for environmental protection including abatement of pollution

- The mill has Bring down about **33% of the open land area available** under the green coverage/ plant
- As per the **National Ambient Air Quality emission standard issued by MoEF, GoI vide G.S.R. no. 826 (E) dated 16th November,2009** , the unit monitored the Ambient Air quality standard in and around the factory premises on quarterly basis. The unit also monitored **gaseous emission level /Fugitive Emission** at different places inside the factory premises as per guideline of **MoEF, GOI**. The report of Ambient Air quality, Fugitive Emission, Drinking water & stack emission report submitted at MOEF , Eastern Regional office at Bhubaneswar.
- Higher capacity motor & Air Blowers was installed (2 no) to decrease the aeration time & better reaction in Aeration tank
- The unit also followed standards/ guidelines for control of Noise from D.G.Sets prescribed under the notification of **MoEF, GOI vide G.S.R. no. 371 (E),[17/5/2002]** and its amendment made thereafter. **dated 16th November,2004. (The details report shown iv Annexure-II).**
- Regular monitored of **ETP (Effluent Treatment Plant)** carried out by the unit with WBPCB recognized laboratory & strictly followed the WBPCB standard of waste water as per consent letter issued by WBPCB.

Introduction of Green fuel

Almega Paints Private Ltd is committed to reduce its impact on environment. We strive continuously to improve our environmental performance by fostering environment & safety excellence.

- We are going to take up a major project in which our present fuel will be replaced by "**Green Fuel**"
- In our Resin Plant, diesel is used for heating the Thermic Fluid Heaters. We are proposing to replace the diesel fuel by LPG System. This will minimize the potential impact on the environment.
- LPG is an exceptional fuel that helps in mitigating the carbon footprint. Among all fossil fuels LPG is the least polluting and emits 50 % less CO₂ than solid fuels & 15-20 % less CO₂ than liquid fuel. We can reduce Green House gas emission by replacing liquid fuel with LPG.
- The project will be executed by SHV Energy Pvt. Ltd (famous for their brand" SUPERGAS" in India, a 100% subsidiary of SHV Holdings N.V., a Dutch company and authorised dealer of Thermax India Ltd.

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PART - H

Additional investment proposal for environmental protection including abatement of pollution

The salient features of the project:

1. The LPG will be supplied in 450 kg cylinders by SHV Energy Pvt. Ltd placed under a shade near the Resin plant. Gas will be brought to the Thermic Fluid Heater by pipelines
2. The gas burner and the accessories in the Thermic Fluid Heater will be installed by the authorized dealer of Thermax.
3. There will be stand by system of diesel fuel; in case of supplier failure of LPG, this system will be activated.
4. Project cost will be around Rs 3000000.
5. Advance safety system will be installed.

PART - I

Any other particulars in respect of environmental protection and abatement of pollution.

- Any constructive suggestion for improving the quality of environment from W.B. Pollution Control Board, the Company will always give priority to make them properly.

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ANNEXURE-II
SUMMARY OF STACK SAMPLING ANALYSIS REPORT

(Report Ref. No.:- 2021-22/EEPL/MON/213,217,221-223&228 ,Dated 17.03.2021,
carried out by M/s. Envirotech East Pvt. Limited)

	Avg. Flue Gas Vol. (NM ³ /hr.)	Conc. of SO ₂ (mg/NM ³)	Conc. of PM. (mg/NM ³)
(i) Thermic Fluid Heater No-1	4372.0	12.0	63.0
(ii) Thermic Fluid Heater No-2	4450.0	14.0	71.0
(iii) Combined of TFH 1&2	4805.0	17.0	123.0
(iv) 160 KVA D.G.SET No-1	374.0	7.0	59.0
(v) 160 KVA D.G.SET No-2	396.0	6.0	43.0
(vi) 400 KVA D.G.SET	445.0	11.0	86.0

SUMMARY OF EFFLUENT WATER ANALYSIS REPORT

(Report Ref. No.:- 2021-22/EEPL/MON/219, Dated 10.05.2021, carried out by M/s.
Envirotech East Pvt. Limited)

<u>Parameters</u>	<u>Value</u>	<u>Unit</u>
p ^H	7.3	--
Total Suspended Solids (TSS)	64.0	mg/l
Chemical Oxygen Demand (COD)	216.0	mg/l
Bio – Chemical Oxygen Demand (BOD) (For 3 days at 27 ⁰ C)	24.0	mg/l
Oil & Grease (O & G)	2.0	mg/l
Hexavalent Chromium (Cr ⁺⁶)	<0.05	mg/l
Lead(Pb)	<0.05	mg/l
Nickel(Ni)	0.2	mg/l
Chromium(Cr)	0.6	mg/l
Copper(Cu)	0.4	mg/l
Zinc(Zn)	1.2	mg/l
Phenolic Compound(C ₆ H ₅ OH)	0.5	mg/l

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ANNEXURE-II

SUMMARY OF NOISE LEVEL MEASUREMENT REPORT

(Report Ref. No.:- 2021-22/EEPL/MON/217, Dated 10.05.2021, carried out by M/s. Envirotech East Pvt. Limited)

<u>Parameters</u>	Equivalent Noise Intensity Level L_{eq} dB(A)	Permissible Standard
1. Near Factory Main Gate	63-69	75 dB(A)
2. Resin Plant	71-73	-DO-
3. Solvent Plant	70-74	-DO-
4. BSR Area	66-70	-DO-
5. Near D.G.Set.	73-82	-DO-
