

**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, 2020.**

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 | 24 th September,2019. |

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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'18 – Mar'19)</i>	<i>During the Current financial year (Apr'19– Mar'20)</i>
1.RESIN (SOLIDS)		
2.PAINTS(WATER BASED & SOLVENT BASED)	228.43 Kg/KL 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'18 – Mar'19)</i>	<i>During the Current financial year (Apr'19– Mar'20)</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
A. WATER				
pH	--	7.3	6.0 – 8.5	--
T.S.S.	1.186 Kg/ day	51.0 mg/l	100.0 mg/l	(+) 49.0 %
C.O.D.	4.348 Kg/ day	187.0 mg/l	250.0 mg/l	(+) 25.2 %
B.O.D	0.395 Kg/ day	17.0 mg/l	50.0 mg/l	(+) 66.0 %
O & G	0.116 Kg/ day	5.0 mg/l	10.0 mg/l	(+) 50.0 %
C ₆ H ₅ OH	0.007 Kg/ day	0.3 mg/l	1.0 mg/l	(+) 70.0 %
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	0.025 Kg/ day	1.1 mg/l	2.0 mg/l	(+) 45.0 %
Zn	0.042 Kg/ day	1.8 mg/l	5.0 mg/l	(+) 64.0 %
Ni	0.005 Kg/ day	0.2 mg/l	2.0 mg/l	(+) 90.0 %

02. AIR

A. SO₂ (Sulphur-di-Oxide)

1.150 Kg/day	17.0 mg/NM ³ (For Thermic Fluid Heater No-1)	--	--
1.465 Kg/day	22.0 mg/NM ³ (For Thermic Fluid Heater No-2)	--	--
0.003 Kg/day	13.0 mg/NM ³ (For 160 KVA D.G. Set No-1)	--	--
0.010 Kg/day	9.0 mg/NM ³ (For 160 KVA D.G. Set No-2)	--	--
0.003 Kg/day	16.0 mg/NM ³ (For 400 KVA D.G. Set)	--	--
1.594 Kg/day	16.0 mg/NM ³ (Combined of TFH 1&2)	--	--

**Total SO₂ =
4.225 Kg/day**

B. PM (Particulate Matter)	4.194 Kg/day	62.0 mg/NM ³ (For Thermic Fluid Heater No-1)	150mg/NM ³	(+) 58.67 %
	3.595 Kg/day	54.0 mg/NM ³ (For Thermic Fluid Heater No-2)	150mg/NM ³	(+) 64.0 %
	0.001 Kg/day	49.0 mg/NM ³ (For 160 KVA D.G. Set No-1)	150mg/NM ³	(+) 67.33 %
	0.003 Kg/day	30.0 mg/NM ³ (For 160 KVA D.G. Set No-2)	150mg/NM ³	(+) 80.0 %
	0.019 Kg/day	87.0 mg/NM ³ (For 400 KVA D.G. Set)	150mg/NM ³	(+) 34.0 %
	8.451 Kg/day	106.0 mg/NM ³ (Combined of TFH 1&2)	150mg/NM ³	(+) 34.0 %
Total PM = 16.263 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 **2019-2020** and on the basis of effluent water sample carried out by **M/s. Envirotech East Pvt. Limited** on **31.01.2020**.
- ii) Air Pollution load has been calculated on the basis of stack emission report for the year **2019-2020** and on the basis of Stack Emission sample carried out by **M/s. Envirotech East Pvt. Limited** on **30 & 31.01.2020**

BASIS

A. WATER

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

B. AIR

- a) Thermic Fluid Heater no-1 running 16.2 hrs/day.
- b) Thermic Fluid Heater no-2 running 16.1 hrs/day.
- c) 160 KVA Standby D.G.(No-1) Set is running 0.45 hr./day (approx)
- d) 160 KVA Standby D.G.(No-2) Set is running 0.20 hr./day (approx.).
- e) 400 KVA Standby D.G Set is running 0.44 hr./day (approx.)
during **April' 2019- March'2020**.

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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	1.186 Kg/ day	0.0088 Kg/ unit of output
COD	4.348 Kg/ day	0.0321 Kg/ unit of output
BOD	0.395 Kg/ day	0.0029 Kg/ unit of output
O & G	0.116 Kg/ day	0.0008 Kg/ unit of output
Cr ⁺⁶	--	--
Pb	--	--
Total Cr	0.014 Kg/ day	0.0001 Kg/ unit of output
Cu	0.025 Kg/ day	0.0002 Kg/ unit of output
Zn	0.042 Kg/ day	0.0003 Kg/ unit of output
C ₆ H ₅ OH	0.007 Kg/ day	0.0001 Kg/ unit of output
Ni	0.005 Kg/ day	0.00003 Kg/ unit of output
B) <u>AIR</u>		
SO ₂	4.225 Kg/day	0.0312 Kg/ unit of output
PM	16.263 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

HAZARDOUS WASTES	<u>TOTAL QUANTITY</u>			
	<i>During the Previous financial year (Apr'18--Mar'19)</i>		<i>During the Current financial Year (Apr'19--Mar'20)</i>	
a) From Process	Resin Waste	0.216 MT	Resin Waste	0.246 MT
	Paint Waste	1104.0 MT	Paint Waste	1285.0 MT
	Empty Hazardous Container (MS & - PVC)	19.70 MT	Empty Hazardous Container (MS & - PVC) -	30.50 MT
	Empty Coloured Bag	0.310 MT	Empty Coloured Bags -	0.355 MT
	Waste Solvent -	0.612 MT	Waste Solvent -	0.745 MT
b) From Pollution Control facility	ETP Sludge	0.720 MT	ETP Sludge -	0.670 MT

PART - E
SOLID WASTES

SOLID WASTES	<u>TOTAL QUANTITY</u>	
	<i>During the Previous financial Year (Apr'18--Mar'19)</i>	<i>During the Current financial Year (Apr'19--Mar'20)</i>
a) From Process	Transparent Pollythene , Paper Bag ,& Damage Cartoon - 223.0 MT	Transparent Pollythene , Paper Bag ,& Damage Cartoon -- 168.0 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 -- 223.0 MT	Transparent Pollythene , Paper Bag ,& Damage Cartoon - 168.0 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 March' 2019- April' 2020 are as follows :-

a) ETP Sludge –	0.670 MT
b) Resin Waste -	0.246 MT
c) Paint Waste -	1285.0 MT
d) Empty Hazardous Container (MS & - PVC)	30.50 MT
e) Empty Coloured Bags	0.355 MT
f) Waste Solvent -	0.745 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'19- Mar'20 . Stock quantity as on 31.03.2020 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'19- Mar'20. Stock quantity as on 31.03.2020 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'19- Mar'20. Stock quantity as on 31.03.2020 is **2.2496 MT**.4.**Spent Solvent/Resin Waste (Waste Category no. 20.2)** kept in Drums & finally disposed through **M M/s.WBWML (Ramky Division)** Total disposal quantity of **Spent Solvent/Resin Waste** is **0.153 MT** during Apr'19- Mar'20 . Stock quantity as on 31.03.2020 is **0.098 MT**. 5. **Waste Solvent (Waste Category no28.5)** are kept in Drums & disposed through **M/s.WBWML (Ramky Division)**. Total disposal quantity of **Waste Solvent** is **0.586 MT** during Apr'19- Mar'20. Stock quantity as on 31.03.2020 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'19- Mar'20. Stock quantity as on 31.03.2020 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'2019 - Mar'2020** to WMC, WBPCB office on **24th June, 2020**.

B. SOLID WASTES : The Composition and quantum of Solid Wastes generated during April' 2019– March' 2020 is follows :- .

a) Transparent Polythene , Paper Bag ,& Damage Cartoon – **168.0 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 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.
- The following additional measures has been taken in the present ETP to increase the effectiveness of the plant
 1. The resin effluent was collected in 200L barrel in the Resin Plant and brought to ETP through underground pipeline by gravity. A 5 kl concrete storage tank is built near the ETP and the effluent is collected from Resin Dept. in to the tank directly by Pipeline.
 2. Second aeration tank with a clarifier is built to increase the effectiveness of the plant further.
 3. A mixing tank is created where all the streams of effluents are mixed proportionately to control the initial COD .Total investment is Rs 6 lacks.
 4. Replace/ up gradation of new pump in the ETP area with a cost of Rs, 2.5 lacs approx.
- 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.

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.

ANNEXURE-II
SUMMARY OF STACK SAMPLING ANALYSIS REPORT

**(Report Ref. No.:- 2019-20/EEPL/MON/1404,1405,1410-1412 &1417 ,Dated 25.02.2020,
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	4176.0	17.0	62.0
(ii) Thermic Fluid Heater No-2	4135.0	22.0	54.0
(iii) Combined of TFH 1&2	4983.0	20.0	106.0
(iv) 160 KVA D.G.SET No-1	451.0	13.0	49.0
(v) 160 KVA D.G.SET No-2	485.0	9.0	30.0
(vi) 400 KVA D.G.SET	489.0	16.0	87.0

SUMMARY OF EFFLUENT WATER ANALYSIS REPORT

**(Report Ref. No.:-2019-20/EEPL/MON/1408 , Dated 31.01.2020, carried out by M/s.
Envirotech East Pvt. Limited)**

<u>Parameters</u>	<u>Value</u>	<u>Unit</u>
pH	7.3	--
Total Suspended Solids (TSS)	51.0	mg/l
Chemical Oxygen Demand (COD)	187.0	mg/l
Bio – Chemical Oxygen Demand (BOD) (For 3 days at 27 ⁰ C)	17.0	mg/l
Oil & Grease (O & G)	5.0	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)	1.1	mg/l
Zinc(Zn)	1.8	mg/l
Phenolic Compound(C ₆ H ₅ OH)	0.3	mg/l

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ANNEXURE-II

SUMMARY OF NOISE LEVEL MEASUREMENT REPORT

(Report Ref. No.:-2019-20/EEPL/MON/1406 , Dated 25.02.2020, 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	53-56	75 dB(A)
2. Resin Plant	59-63	-DO-
3. Solvent Plant	63-65	-DO-
4. BSR Area	61-65	-DO-
5. Near D.G.Set.	72-76	-DO-
