

Minutes of 1st Committee Meeting (2022-23), for By-Products and Hazardous waste categorization

Date : 12/08/2022

Venue : MPCB, 4th Floor, Conference Hall, Sion Circle, Sion (E), Mumbai.

Committee Members present for the meeting:

1.	Shri Ashok Shingare, Member Secretary	Chairman
2.	Dr. V. M. Motghare, Joint Director (APC)	Member
3.	Dr. Y.B. Sontakke, Joint Director (WPC)	Member
4.	Shri. N. N. Gurav, RO(BMW)	Member
5.	Dr. R. Naidu, Ex Zonal Officer, CPCB	Member
6.	Dr. M. P. Patil, Chief Scientist & Head, CHWMD NEERI, Nagpur	Member
7.	Dr. V. M. Motghare, Assistant Secretary (Tech), MPCB	Member convener

Assistant Secretary (Tech.), MPCB, Member convener of the Committee, welcomed all the members of the Committee and requested Member Secretary, MPCB, Chairman of the committee to permit proceedings of the meeting to start.

Assistant Secretary (Tech.), MPCB, Member Convener of the Committee introduced the members of committee formed vide dtd 06/05/2022 & briefed about the, guidelines issued by CPCB in May 2019 for Identification of Materials Generated from Industrial Processes as Wastes or By-products [Hazardous and Other Wastes (Management and Transboundry Movement) Rules, 2016].

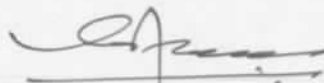
Definitions of Waste and by-products as per MoEF notification dated 04th April, 2016 which is a supersession of the Hazardous Wastes (Management, Handling and Transboundry Movement) Rules, 2008.

"Waste" means materials that are not products or by-products, for which the generator has no further use for the purposes of production, transformation, or consumption. This excludes residuals recycled or reused at the place of generation.

"By-products" means a material that is not intended to be produced but gets produced in the production process of intended product and is used as such.

Policy of MPCB about items/chemicals to be considered as By-product or Hazardous Waste is as mentioned below.

- (i) If the by-products and Hazardous Waste are mentioned in Environmental Clearance under the individual heads issued on or after 2018, then they are to be considered accordingly without any further justification.
- (ii) In CCA, if any item is mentioned as hazardous waste but can be justified as by-product as per the definitions above then can be considered as by-product based on stoichiometry and its use as such.



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On the basis of request made by the industries, the members thereafter deliberated on the agenda items placed before the committee and following decisions were taken.

Agenda Item No.	1
Proposal No.	MPCB-BY_PRODUCT-0000000002
Project Details	M/s. FUSION GENETICS PVT.LTD., MILKAT NO 949, ISPAT ROAD, SANSWADI, TAL: SHIRUR, DIST -PUNE.
Environmental Clearance details	NA
Consent details	Industry has obtained C to O for the manufacturing of Organic Fertilizers- Fusion Earth-30 KL/A, Organic Chemical-Dollor - 5 KL/A & Micronutrients - 5 Kg/A in Orange category which was valid up to 31/03/2020.

Introduction:

- 1) It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization.

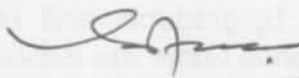
Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry.


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Agenda Item No.	2
Proposal No.	MPCB-BY_PRODUCT-0000000004
Project Details	M/s Godavari Biorefineries Ltd. 158-165,167-178, 180/1,180/2, 181/1, 181/2,187/1,187/2,188, 189, 199, 511, 139/2, PO-Sakarwadi, Tal- Kopargaon, Dist. Ahmednagar.
Environmental Clearance details	No. F. No. IA-J-11011/154/2019-IAII(I) dated 06/8/2021.
Consent details	No. Format1.0/CAC/UAN No.0000134753/CO/2206000679, 15/06/2022, which is valid upto 31/08/2024

Introduction:

Industry has obtained Environmental Clearance No. F. No. IA-J-11011/154/2019-IAII(I) dated 06/8/2021.

Industry's submission:

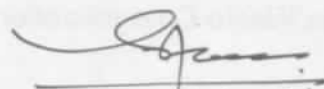
The application was discussed in 2nd Committee Meeting for By-Products & Hazardous Waste categorization held on 16/12/2020 & it was decided to defer the case for next meeting, meanwhile industry shall submit the following documents

- 1) Purity of the by-product with indicating its usability.
- 2) End use of the by-product followed by the manufacturing process involves thereof.
- 3) Last month invoices for by product indicating being sold to end consumer with commercial value.
- 4) Last month's statement of sale of by product to end user.

Committee Decision:

Committee noted that the industry has not submitted the required documents as per minutes of 2nd Committee meeting for By-Products & Hazardous Waste Categorization.

After due deliberations, it was decided to reject the application for By-Products & Hazardous Waste Categorization due to non-submission of requisite documents.


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Agenda Item No.	3
Proposal No.	MPCB-BY_PRODUCT-0000000006
Project Details	M/s VINATI ORGANICS LIMITED. MIDC Mahad B-12, B-13/1, B-4, B-5, B-6, Taluka Mahad District Raigad.
Environmental Clearance details	No. SEAC-2016/CR-123/TC-2 dtd. 27/09/2016
Consent details	No:- Format1.0/CAC/UAN No.0000108586/CR-2107000886, 15/07/2021, which is valid upto 31/03/2026.

Introduction:

Industry has obtained Environmental Clearance No. SEAC-2016/CR-123/TC-2 dtd. 27/09/2016.

Industry's submission:

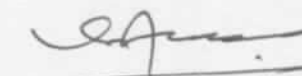
The application was discussed in 2nd Committee Meeting for By-Products & Hazardous Waste categorization held on 16/12/2020 & it was decided to defer the case for next meeting, meanwhile industry shall submit the following documents

- 1) Purity of the by-product with indicating its usability.
- 2) End use of the by-product followed by the manufacturing process involves thereof.
- 3) Last month invoices for by product indicating being sold to end consumer with commercial value.
- 4) Last month's statement of sale of by product to end user.

Committee Decision:

Committee noted that the industry has not submitted the required documents as per minutes of 2nd Committee meeting for By-Products & Hazardous Waste Categorization.

After due deliberations, it was decided to reject the application for By-Products & Hazardous Waste Categorization due to non-submission of requisite documents.


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Agenda Item No.	4
Proposal No.	MPCB-BY_PRODUCT-0000000007
Project Details	M/s VINATI ORGANICS LIMITED. A 20 D 30/2 MIDC AREA LOTE PARSHURAM, TAL KHED DIST. RATNAGIRI. 415722.
Environmental Clearance details	SEIAA-EC-0000000208 dtd. 12/03/2018
Consent details	No: - Format1.0/CAC/UAN No.00001075484/CO-2107001035, 15/07/2021, which is valid upto 31/03/2026.

Introduction:

Industry has obtained Environmental Clearance No. SEIAA-EC-0000000208 dtd. 12/03/2018.

Industry's submission:

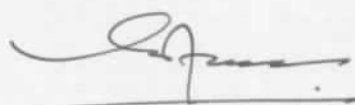
The application was discussed in 2nd Committee Meeting for By-Products & Hazardous Waste categorization held on 16/12/2020 & it was decided to defer the case for next meeting, meanwhile industry shall submit the following documents

- 1) Purity of the by-product with indicating its usability.
- 2) End use of the by-product followed by the manufacturing process involves thereof.
- 3) Last month invoices for by product indicating being sold to end consumer with commercial value.
- 4) Last month's statement of sale of by product to end user.

Committee Decision:

Committee noted that the industry has not submitted the required documents as per minutes of 2nd Committee meeting for By-Products & Hazardous Waste Categorization, also industry has made fresh application vide No. MPCB-BY_PRODUCT-0000000032

After due deliberations, it was decided to reject the application for By-Products & Hazardous Waste Categorization due to non-submission of requisite documents.


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Agenda Item No.	5
Proposal No.	MPCB-BY_PRODUCT-0000000008
Project Details	M/s. DANISH SCRAP TRADERS., PLOT NO 26 WANJARI LAYOUT PILLI NADI INDUSTRIAL AREA KAMPTÉE ROAD NAGPUR.
Environmental Clearance details	NA
Consent details	Details not available

Introduction:

Details of industry not available.

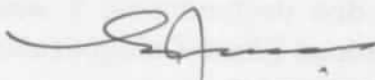
Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry. It was also decided that RO/SRO shall verify whether they are carrying out any unauthorized activity.


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Agenda Item No.	6
Proposal No.	MPCB-BY_PRODUCT-0000000009
Project Details	M/s ANSHUL SPECIALITY MOLECULES PVT. LTD. PLOT NO 108, 109, 110, MIDC DHATAV, VILLAGE ROTH(B) TAL-ROHA, DIST-RAIGAD.
Environmental Clearance details	NA
Consent details	No: - Format1.0/CAC/UAN No.00001075484/CO-2107001035, 15/07/2021, which is valid upto 31/03/2026.

Introduction:

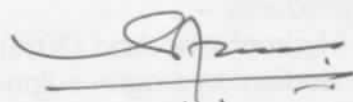
The application was discussed in 2nd Committee Meeting for By-Products & Hazardous Waste categorization held on 16/12/2020 & it was decided to defer the case for next meeting, meanwhile industry shall submit the following documents

- 1) Purity of the by-product with indicating its usability.
- 2) End use of the by-product followed by the manufacturing process involves thereof.
- 3) Last month invoices for by product indicating being sold to end consumer with commercial value.
- 4) Last month's statement of sale of by product to end user.

Committee Decision:

Committee noted that the industry has not submitted the required documents as per minutes of 2nd Committee meeting for By-Products & Hazardous Waste Categorization, also industry has made fresh application vide No. MPCB-BY_PRODUCT-0000000017.

After due deliberations, it was decided to reject the application for By-Products & Hazardous Waste Categorization due to non-submission of requisite documents.


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Agenda Item No.	7
Proposal No.	MPCB-BY_PRODUCT-0000000010
Project Details	M/s LUBRIZOL INDIA PRIVATE LIMITED. PLOT NO. C- 9/3, TURBHE, THANE BELAPUR ROAD, NAVI MUMBAI, DIST THANE.
Environmental Clearance details	NA
Consent details	No: - Format 1.0/CAC/UAN No. 00000361/CO-2110000148, 05/10/2021, which is valid upto 31/01/2025.

Introduction:

The application was discussed in 2nd Committee Meeting for By-Products & Hazardous Waste categorization held on 16/12/2020 & it was decided to consider the case for incorporation of the by-products into the existing consent to operate, as the material is not intended to be produced but gets produced in the production process. Also, industry has sale the material to the industries neither to the traders, nor to the industries which involving the hazardous waste processor or recyclers. Accordingly, they have submitted the list of industries along with these materials along with their manufacturing process. The details of the products and by-products are as under.

Products: -

Chemical additives inclusive of Metal Working Oil Additives, Antioxidants, Corrosion Inhibitors, Detergent Additives, Dispersant additives, Extreme Pressure additives, Viscosity Index Improvers, Pour Point Depressants and Flow Improvers—5000 MT/M Nitrogen—1500 MT/M

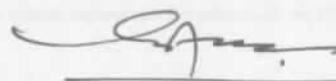
By-products: -

- 1) Hydrochloric Acid (30%)— 770 MT/M
- 2) Sodium hydrogen sulphide solution (Up to 35%) – 400 MT/M.

Committee Decision:

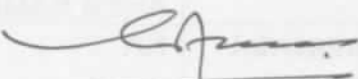
Committee noted that Sodium hydrogen sulphide solution falls under category 28.1 of the Schedule-I of Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2016 & also same is generated from scrubbing activity.

After due deliberations, it was decided to review of the decision of 2nd committee meeting held on 16/12/2020 to consider for incorporation of the by-products into the existing consent to operate i.e., By-products 1) Hydrochloric Acid (30%)— 770 MT/M & 2) Sodium hydrogen sulphide solution (Up to 35%) – 400 MT/M shall be considered as



Hazardous waste & disposed to the Actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.

Regional Officer, Navi Mumbai shall issue directions to the industry, accordingly, also ensure the disposal of HW as per Rule 9 of the HW Rules, 2016 & obtain & submit proposal from the industry for amendment in consent to respective granting authority as per delegation of powers for consent management of the Board.


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Agenda Item No.	8
Proposal No.	MPCB-BY_PRODUCT-0000000010
Project Details	M/s. DANISH SCRAP TRADERS., PLOT NO 26 WANJARI LAYOUT PILLI NADI INDUSTRIAL AREA KAMPTEE ROAD NAGPUR.
Environmental Clearance details	NA
Consent details	Details not available

Introduction:

Details of industry not available.


Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry. It was also decided that RO/SRO shall verify whether they are carrying out any unauthorized activity.


(9/9/2022)

Agenda Item No.	9
Proposal No.	MPCB-BY_PRODUCT-0000000012
Project Details	M/s. Sai Datta Rolling Shutters And Fabricators. 594 Sankeshwar Road, Gadhinglaj.
Environmental Clearance details	NA
Consent details	Details not available.

Introduction:

It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization.

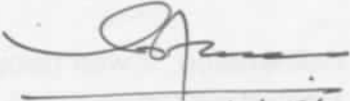
Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry.


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Agenda Item No.	10
Proposal No.	MPCB-BY_PRODUCT-0000000012
Project Details	M/s. NETRAVATI RECYCLE. 543, SHOP NO. 1, PALKHED PHATA, NEAR MUMBAI AGRA HIGHWAY, AP PACHORE VANI, TAL NIPHAD DIST NASHIK.
Environmental Clearance details	NA
Consent details	Details not available.

Introduction:

It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization.


Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry.


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Agenda Item No.	11
Proposal No.	MPCB-BY_PRODUCT-0000000015
Project Details	M/s ANSHUL SPECIALITY MOLECULES PVT. LTD. PLOT NO 108, 109, 110, MIDC DHATAV, VILLAGE ROTH(B) TAL-ROHA, DIST-RAIGAD.
Environmental Clearance details	NA
Consent details	No: - Format1.0/CC/UAN No 0000092292/CO-2007001314 Valid till 31/10/2023.

Introduction:

The application was discussed in 2nd Committee Meeting for By-Products & Hazardous Waste categorization held on 16/12/2020 & it was decided to defer the case for next meeting, meanwhile industry shall submit the following documents

- 1) Purity of the by-product with indicating its usability.
- 2) End use of the by-product followed by the manufacturing process involves thereof.
- 3) Last month invoices for by product indicating being sold to end consumer with commercial value.
- 4) Last month's statement of sale of by product to end user.

Industry's submission:


Industry has applied for the Inclusion of By-Product Sodium Hypochlorite (NaOCl) & Hydrochloric Acid (HCL). The company has given presentation and submitted the HCL & Sodium Hypochlorite analysis results of MoEFF & CC and NABL approved lab.

The industry was established in 1979 before the EIA notification 2006. As the old products are continued EC is not applicable as per EIA Notification. The unit has a valid consent to operate vide No Format1.0/CC/UAN No 0000092292/CO-2007001314 Valid till 31/10/2023.

Company has submitted the PFR from a NABET accredited consulting organization, Dr Subbarao Env. Centre.

Committee Decision:


Committee noted that the Methyl Chloroformate (MCF) reacted with Chlorine gas gives Chloromethyl Chloroformate (CMCF). During this reaction HCl gas is generated which is scrubbed in water forms Hydrochloric Acid as by-product. The unreacted MCF is distilled out from Chlorinated mass and recycled. The undistilled mass is called CMCF. In next step this CMCF is reacted with Isopropyl Alcohol (IPA) which gives Chloromethyl Isopropyl Carbonates (CMIC) & HCl as by-product. The product (CMIC) is purified by distillation. Excess chlorine decomposed by caustic solution to form hypochlorite solution.


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After due deliberations, it was decided to defer the case for next meeting, meanwhile industry shall submit the following documents

- Purity of the by-product with indicating its usability.
- End use of the by-product followed by the manufacturing process involves thereof.
- Last month invoices for by product indicating being sold to end consumer with commercial value.
- Last month's statement of sale of by product to end user.
- Details analysis report from IIT/NEERI /NCL showing concentration level of organic impurities.


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Agenda Item No.	12
Proposal No.	MPCB-BY_PRODUCT-0000000018
Project Details	M/s. AYUSH PULSES. S.NO.341/2 SHIKRAPUR TAL.SHIRUR PUNE.
Environmental Clearance details	NA
Consent details	No:- SRO/PUNE-II/CONSENT/218001688, dtd 25/08/2021, upto COU under Green category.

Introduction:

It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization.

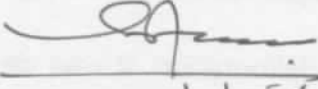
Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry.


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Agenda Item No.	13
Proposal No.	MPCB-BY_PRODUCT-0000000020
Project Details	M/s. Mayura Construction. S 385/2A Dahiwad Tal Shirpur, Dist Pune.
Environmental Clearance details	NA
Consent details	No:- RO/Nashik /CONSENT/2111000024, dtd 01/11/2021, which is valid upto 30/11/2022 under Orange category.

Introduction:

It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization.


Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry.


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Agenda Item No.	14
Proposal No.	MPCB-BY_PRODUCT-0000000021
Project Details	M/s. NEW ARM INDUSTRIES. E-8/4, Kagal Hathkangle, 5 star MIDC Kolhapur.
Environmental Clearance details	NA
Consent details	Details not available

Introduction:

It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization.

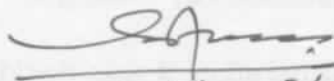
Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry.


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Agenda Item No.	15
Proposal No.	MPCB-BY_PRODUCT-0000000022
Project Details	M/s. KRANTI STONE METAL. GAT NO 186/2 AT SARUL POST VILHOLI NASHIK.
Environmental Clearance details	NA
Consent details	The consent application of the industry for Stone crushing activity is Refused at RO level vide dtd 06/01/2022.

Introduction:

It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization.


Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry.


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Agenda Item No.	16
Proposal No.	MPCB-BY_PRODUCT-0000000023
Project Details	M/s. PRANJAL MINERAL WATER. AP RUKADI, GANESH NAGAR, TAL HATKANANGALE, DIST KOLHAPUR.
Environmental Clearance details	NA
Consent details	Details not available.

Introduction:

It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization.

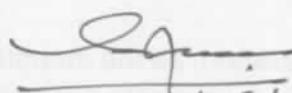
Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry.


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MAHARASHTRA POLLUTION CONTROL BOARD

Agenda Item No.	17
Proposal No.	MPCB-BY_PRODUCT-0000000024
Project Details	M/s. Rudra Engineering And Fabrication. Plot No. F-8 , M.I.D.C. Gadhinglaj.
Environmental Clearance details	NA
Consent details	No:- SRO/Kolhapur/CONSENT/2102001273/21, dtd 22/02/2021, which is valid upto COU under GREEN Category

Introduction:

It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization & also industry has already deleted the application from portal.

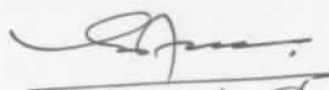
Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, as the industry has deleted the application for categorization of By-product & Hazardous waste made by the industry. The said application is considered as disposed off accordingly.


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Agenda Item No.	18
Proposal No.	MPCB-BY_PRODUCT-0000000026
Project Details	M/s RAN CHEMICALS PVT LTD. KH 45 MAUZA KHAPRI POST KALAMBI TAH KALMESHWAR - 441501 NAGPUR
Environmental Clearance details	F No. IA-J-11011/340/2016-IA-II(I), dtd., 15/02/2021
Consent details	No:- Format1.0/AS(T)/UAN No. 0000109919/CR-2108000868, dtd 17/08/2021, which is valid upto 31/03/2024

Introduction:

Industry has obtained Environmental Clearance vide dtd 28/02/2017 for manufacturing of synthetic organic chemicals;

By Products

- 1) Spent Methanol & Glycol- 2 MT/D

Industry has now applied to consider 01 no. of products as by-products that is mentioned as Hazardous waste in consent granted by the Board;

- 1) Spent Solvent (Methanol)- 30 MT/M


Industry's submission:

- 1) The product mentioned in the application for consideration of by-product is listed in the EC accorded as by-product clearly. There is 1 nos. of by-products mentioned in EC which is mentioned as Hazardous Waste in existing CTO. Industry has applied for 1 no. of product in the application under consideration as by-product.
- 2) Industry has uploaded the source of this by-products i.e. from which product manufacturing, the particular by-product is generated. Particular product flow diagrams are uploaded showing point of generation.
- 3) Industry has uploaded the analysis reports about the purity of by-products.
- 4) Industry has uploaded some of the names of the direct end users for the said by-product.

Committee Decision:

Committee noted that the product for which industry has applied to be considered as by-product is mentioned as by product in Environmental Clearance granted to the project vide dtd., 15/02/2021. Also, the By-product Methanol is produced in the Esterification process of making polyester resin.

The said by-products are also not listed in the schedule-I of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Its further treatment at CHWTSDF will be unnecessarily increasing the burden on environment when it can be used directly as raw materials and not containing any other pollutants.

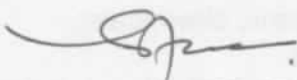

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Methanol has purity of 97% & is widely used for industrial use. Industry has submitted Safety Data Sheets for the By-Products

As the product is clearly mentioned as by-product in Environmental Clearance accorded to the project & also the product being not listed in schedule-I of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, it was decided to consider below mentioned product as by-product and amend the consent accordingly.

1. Methanol


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Agenda Item No.	19
Proposal No.	MPCB-BY_PRODUCT-0000000029
Project Details	M/s Grasim Industries Limited (Unit - Century Rayon), 45,53,56,57,58,59,76,77,78,201,202,207,55(P),51(A) Murbad Road, Shahad, Ulhasnagar, Thane- 421103
Environmental Clearance details	No. F-NO. J-11011/415/2014-IA-II (I) dated. 31/10/2016.
Consent details	No:-Format1.0/CAC/UAN.No.MPCBConsent- 0000118943/CR/2204001628, dtd., 24/04/2022 valid upto 30/09/2026.

Introduction:

Industry has obtained consent to operate vide No. Format1.0/CAC/UAN No. MPCB-Consent-0000118943/CR/2204001628 dtd. 24/04/2022 which is valid up to 30/09/2026.

Industry has obtained Environmental Clearance vide No. F-NO. J-11011/415/2014-IA-II (I) dated. 31/10/2016.

The case was approved in the CAC meeting dtd. 09/03/2022.

In Environmental Clearance there is 1 nos of by-product mentioned i.e., Anhydrous Sodium Sulphate. This by products is mentioned in existing CTO as hazardous waste.

Industry has applied for 2 products to be considered as a by-product in this application.

- 1) Anhydrous Sodium Sulphate
- 2) Sodium Sulphide

Industry's submission:


Viscose Manufacturing Process involves reaction of viscose and spin bath on spinning machine. Spin bath is basically solution of H_2SO_4 and $ZnSO_4$, Na_2SO_4 and certain additives. Viscose and spin bath reaction on the spinning machine where alkaline viscose is neutralized by spin bath or dilute H_2SO_4 to form sodium sulphate and regeneration of cellulose in the form of yarn. This sodium sulphate recovered from the spin bath is generated as a by product. The removal of sodium sulphate from the system involves series of chemical operation like evaporation, crystallization etc. The sodium sulphate is recovered in form of Glauber salt ($Na_2SO_4 \cdot 10H_2O$). The salt is dried in air dryer and converted into anhydrous sodium sulphate.

Industry has uploaded analysis report for purity of by-product,

Industry has mentioned end user of the product as below.

Application & Usage of Na_2SO_4 :

- 1) In Textile industry, used as a "levelling" agent which helps to decrease the negative charges on fibres. Its major role is as a filler in powder products, such as detergents.
- 2) Used as a binding and adhesive agent.
- 3) The adsorbents help to fix the molecules to the surface.
- 4) Farming and raising of crops.
- 5) Can be used in regulating the dyes
- 6) In Manufacturing glass, craft paper, and textile fabrics.


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7) Used to produce medicines

Application & Usage of Na₂S:

1) Textile/Rubber/Leather/Pharma/Dyes and Detergent industries

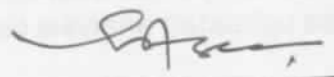
Committee Decision:

Committee noted that Sodium Sulphide (Na₂S) is generated from the process of scrubbing of gas and hence falls under category 28.1 of the Schedule-I of Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2016. Anhydrous Sodium Sulphate (Na₂SO₄) is generated from process of spinning through Evaporation & crystallization process. It has 99% purity & can be used as filler as detergent & dye in textile units.

After due deliberations, it was decided, that Sodium Sulphide (Na₂S) shall not be considered as By Product and same shall be disposed by sale to Authorized Party having permission under Rule 9 of H&OW Rules & Sodium Sulphate (Na₂SO₄) can be considered as by-products as it is clearly mentioned as By-Product in Environmental Clearance granted to the project vide dtd., 31/10/2016.

The said by-product is also not listed in the schedule-I of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Its further treatment at CHWTSDf will be unnecessarily increasing the burden on environment due to unrequired use of neutralizing/treating chemicals when it can be used directly as raw materials and not containing any other pollutants.

The said by-product is used directly in Textile industry as a "levelling" agent which helps to decrease the negative charges on fibres, it can also be used as binding and adhesive agent. Industry shall obtain amendment in consent accordingly.


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Agenda Item No.	20
Proposal No.	MPCB-BY_PRODUCT-0000000030
Project Details	M/s Dow Chemical International Private Limited. Plot No, T-22/PT, MIDC, Taloja, Taluka- Panvel, District- Raigad, 410208, Maharashtra
Environmental Clearance details	NA
Consent details	No:- Format1.0/CAC/UAN No. 0000103323/CR-21031539, dtd 24/03/2021, which is valid upto 31/01/2026

Introduction:

Personal Hearing was extended by the Board to the industry on 19/07/2021 due to complaint received against the industry regarding illegal disposal of HW.

In the hearing it was decided as below;

- 1) RO Navi Mumbai/SRO Taloja shall verify the disposal path mentioned for disposal of HW.
- 2) The industry shall submit application to By-product committee within 15 days to examine whether the by-product (Latex Polymer cake) as per the granted consent is HW or by-product & accordingly disposal path can be decided by the committee.
- 3) RO Navi Mumbai shall verify whether M/s. Sai Enterprises is authorized to receive Latex Polymer cake as per the consent & whether it is utilized as raw material at M/s. Sai Enterprises for mfg. their product.
- 4) RO Navi Mumbai to check whether product manufactured by industry requires EC
- 5) RO Navi Mumbai shall submit report on the above points within 20 days . After submission of report decision will be taken accordingly.

Accordingly, Industry has applied for 1 products to be considered as a by-products in this application which is already mentioned By Product in the existing consent.

- 1) Latex Polymer Cake;

Industry's submission:

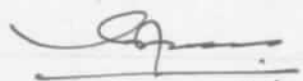
Industry has presented the manufacturing process of water based latex polymers. The by product Latex Polymer cake is produced from left out product collection which is passed through filter press to produce Latex Polymer cake.

Industry has mentioned end user of the product along with copy of letter of M/s. AS Bricks, Gujrat stating that they are purchasing Latex Polymer Cake from M/s. Sai Enterprises & they use it to produce all types of Bricks.

Industry also stated that they have carried out analysis from ICT & as per the analysis report the said product is Non Hazardous.

Committee Decision:

Committee noted that if the By-product is used for burning in brick manufacturing, the product has contents of latex & Brick mfg. being unorganized sector which do not have any Air Pollution control systems which may lead disposal in the environment in unsound

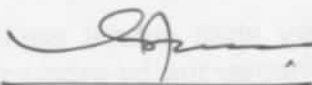

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manner. It was also discussed to examine the possibility whether the By-product can be used in cement manufacturing activity, used as adhesive of binding reagent.

After due deliberation, it was decided to defer the case for next meeting, meanwhile industry shall submit the following documents

- Purity of the by-product with indicating its usability.
- End use of the by-product followed by the manufacturing process involves thereof.
- Last month invoices for by product indicating being sold to end consumer with commercial value.
- Last month's statement of sale of by product to end user.
- Industry to identify the best use of By-product.
- Details analysis report from IIT/NEERI /NCL showing concentration level of organic impurities


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Agenda Item No.	21
Proposal No.	MPCB-BY_PRODUCT-0000000031
Project Details	M/s STERLITE TECHNOLOGIES LIMITED, PLOT NO. E-1,E-2,E-3, & GUT NO- 14, MIDC WALUJ, TAL- GANGAPUR, DIST- AURANGABAD
Environmental Clearance details	NA
Consent details	No. Format 1.0/CAC/UAN No.MPCB-CONSENT-0000126514/CR-2205001542 dtd 26.05.2022 valid up to 28.02.2027

Introduction:

Industry is for manufacturing inorganic products only hence; EC is not applicable to the unit as per EIA notification 2006. Industry has obtained Consent to operate: (Consent no.- No. Format 1.0/CAC/UAN No.0000104457/CO-2107001331 dtd 27.07.2021) which is valid up to 28.02.2027 for the manufacturing of:

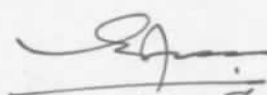
Sr. No.	Product name	Quantity
1	Optical Fibre	18 Lf Km/M
2	Glass preforms	75 MT/M
3	SiCl ₄	500 MT/M
4	Power Generation	13.88 MW
5	Hydrogen	869000 m ³ /M
6	Oxygen	472000 m ³ /M

Industry has now applied to consider three nos of by-products mentioned as Hazardous waste in CTO granted by the Board namely.

Sr. No.	By-Product name	Quantity
1	Dil. Hydrochloric Acid	3150 KI/M
2	Sodium hypochlorite (NaOCl)	360 KL/M
3	Silicon Dioxide (SiO ₂)	138MT/M

Industry's submission:

- 1) Industry during presentation has submitted that all the products mentioned in the application for consideration of by-products are listed in the valid consent. In earlier consent dated 29/03/2019 (Valid up to 31/01/2022) all the by-products i.e. Silicon Dioxide (SiO₂): 138 MT/M, Sodium hypochlorite (NaOCl): 360 KL/M & Dil. Hydrochloric Acid (3150 KL/M) listed under by-product list. Industry applied for inclusion of Silicon Dioxide (SiO₂): 138 MT/M, Sodium hypochlorite (NaOCl): 360 KL/M & Dil. Hydrochloric Acid (3150 KL/M) in product list which are shifted to hazardous waste while renewal of consent. As per current CTO these by-products are to be disposed by sale to end user using it as a raw material under Rule 9.
- 2) Industry has uploaded the source of these by-products i.e. from which product manufacturing, the particular by-product is generated. Particular product flow diagrams are uploaded showing point of generation.


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- 3) Industry has uploaded the analysis reports about the purity of by-products which is 99.87 % for SiO₂. For dilute Hydrochloric Acid although percent of solution is mentioned but purity is not mentioned. However, industry claims that it is over 99.5 % pure.
- 4) Industry has uploaded some of the names of the direct end users for each by-product.

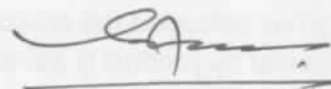
Sr. No.	Name of By-Product	Quantity	Generated from Product /source	Remarks
1	Dil. Hydrochloric Acid	3150 KI/M	Glass Preforms	The claimed byproducts are as pure as fresh product and generated from unit operations of manufacturing process and not from pollution control equipment. As claimed byproducts does not contain any contamination/impurity there will not be any generation of other waste due to use of the claimed byproducts. Hence, no negative impact on the quality where this byproduct will be used directly
2	Sodium hypochlorite (NaOCl)	360 KL/M	Glass Preforms	
3	Silicon Dioxide (SiO ₂)	138 MT/M	Glass Preforms	

Committee Decision:

Committee noted that although the products for which industry has applied to be considered as By-products as mentioned as by-products in previous consent granted to the project vide dtd 29/03/2019. Committee has considered only two products i.e. Dilute Hydrochloric Acid & Silicon dioxide subject to joint collection of samples by one of the institutions from ICT, NCL OR NEERI and certification from them. Others i.e. Sodium Hypochlorite generated from MEE, is not considered as committee is of the opinion that this is generated from pollution control equipment.

After due deliberation, it was decided that as industry is manufacturing inorganic products hence, EC is not applicable to the unit as per EIA & also the By-products not listed in the Schedule-I of Hazardous and other wastes (Management & Transboundary Movement) Rule, 2016, it was decided that the By-products Dilute Hydrochloric Acid, Silicon Dioxide i.e. (SiO₂) can be considered as by-products and subject to joint collection of samples by one of the institutions from IIT, NCL OR NEERI and certification from them within 30 days period.

It was therefore decided to defer the application for the next meeting. In the meantime, industry to jointly collect samples along with MPCB & one of the institutions viz., IIT, NCL OR NEERI and submit certification within 30 days period.


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Agenda Item No.	22
Proposal No.	MPCB-BY_PRODUCT-0000000032
Project Details	M/s VINATI ORGANICS LIMITED. A 20 D 30/2 MIDC AREA LOTE PARSHURAM, TAL KHED DIST. RATNAGIRI. 415722
Environmental Clearance details	NA
Consent details	No:- Format1.0/CAC/UAN No.00001075484/CO-2107001035, 15/07/2021, which is valid upto 31/03/2026

Introduction:

The application was discussed in 2nd Committee Meeting for By-Products & Hazardous Waste categorization held on 16/12/2020 & it was decided to defer the case for next meeting, meanwhile industry shall submit the following documents

- 1) Purity of the by-product with indicating its usability.
- 2) End use of the by-product followed by the manufacturing process involves thereof.
- 3) Last month invoices for by product indicating being sold to end consumer with commercial value.
- 4) Last month's statement of sale of by product to end user.

Industry's submission:

Industry has applied for 3 products to be considered as a by-products in this application which is mentioned in HW in the existing consent.

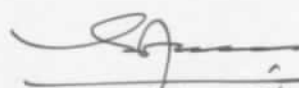
- 1) Methanol
- 2) N tertiary Butyl Acrylamide (TBA)
- 3) Tertiary Butyl Amine

VINATI Lote unit manufactures Isobutylene 48000MTA by thermally cracking of MIBK (methyl isobutyl ketone).

- The reaction products generated are isobutylene and methanol.
- Methanol is listed by MPCB in the hazardous waste in CTO under sr no 20 Stoichiometrically, 1 mole of MIBK generates 1 mole of Isobutylene and 1 mole of methanol.
- Thus, while producing 48000MTA Isobutylene, theoretically 27000 MTA of methanol is produced.

VINATI Lote unit manufactures AAMPS OR ATBS 33000MTA by reacting acrylonitrile & isobutylene

- The reaction products generated are AAMPS, TBA and TB amine
- TBA is listed as hazardous waste in CTO under sr no 14
- TB Amine is listed as hazardous waste in CTO under sr. no.15
- Along with AAMPS both TBA and TB Amine are formed simultaneously in the reaction.
- Thus, while producing 33000 MTA AAMPS, 2112 MTA TBA & 1608 MTA TB AMINE are formed

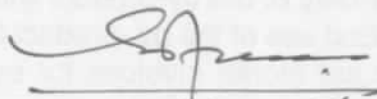

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Committee Decision:

After due deliberations, it was decided to defer the case for next meeting, meanwhile industry shall submit the following documents

- Purity of the by-product with indicating its usability.
- End use of the by-product followed by the manufacturing process involves thereof.
- Last month invoices for by product indicating being sold to end consumer with commercial value.
- Last month's statement of sale of by product to end user.
- Details analysis report from IIT/NEERI /NCL showing concentration level of organic impurities.


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Agenda Item No.	23
Proposal No.	MPCB-BY_PRODUCT-0000000033
Project Details	M/s. Spring vineyards. 342/2 Nandurdi, Tal Niphad, Nashik.
Environmental Clearance details	NA
Consent details	Details not available.

Introduction:

It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization.

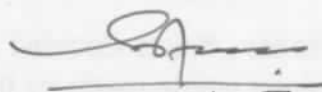
Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry.


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Agenda Item No.	24
Proposal No.	MPCB-BY_PRODUCT-0000000033
Project Details	M/s. Spring vineyards. 342/2 Nandurdi, Tal Niphad, Nashik.
Environmental Clearance details	NA
Consent details	Details not available.

Introduction:

It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization.

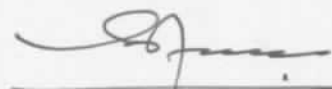
Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry.


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Agenda Item No.	25
Proposal No.	MPCB-BY_PRODUCT-0000000035
Project Details	M/s STERLITE TECHNOLOGIES LIMITED, A-1/7, MIDC, SHENDRA AURANGABAD
Environmental Clearance details	NA
Consent details	No. Format 1.0/CAC/UAN No.0000104457/CO-2107001331 dtd 27.07.2021 valid up to 28.02.2024

Introduction:

Industry is manufacturing inorganic products only. Hence, EC is not applicable to the unit as per EIA notification, 2006. Industry has obtained Consent to operate: (Consent no.- Format 1.0/CAC/UAN No. 0000104457/CO-2107001331 dated 27.07.2021) which is valid up to 28.02.2024 for the manufacturing of:

Sr. No.	Product name	Quantity
1	SiCl ₄	500 MT/M,
2	Glass preforms	60 MT/M

Along with three nos of by-products to the tune of 730 MT/M

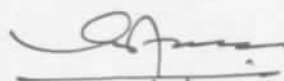
Sr. No.	By-Product name	Quantity
1	Sodium Hypochlorite	60 MT/M,
2	SiO ₂	70 MT/M
3	Salt	600 MT/M

Industry has now applied to consider three nos of by-products mentioned as Hazardous waste in CTO granted by the Board namely.

Sr. No.	By-Product name	Quantity
1	Sodium Hypochlorite	60 MT/M,
2	SiO ₂	70 MT/M
3	Salt	600 MT/M

Industry's submission:

- 1) Industry during presentation has submitted that all the products mentioned in the application for consideration of by-products are listed in the valid consent. In earlier CTO dated 25/03/2019, dilute Hydrochloric Acid (1750 MT/M) was mentioned under hazardous waste list. But, in issued current valid CTO, dilute Hydrochloric Acid (1750 MT/M) was not mentioned under hazardous waste list. However, while uploading of application of RCTO dilute Hydrochloric Acid (1750 MT/M) was mentioned under hazardous waste, but missed to incorporate it in hazardous waste list.
- 2) Industry has uploaded the source of these by-products i.e. from which product manufacturing, the particular by-product is generated. Particular product flow diagrams are uploaded showing point of generation.


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- 3) Industry has uploaded the analysis reports about the purity of by-products which is 99.87 % for SiO₂. For dilute Hydrochloric Acid although percent of solution is mentioned but purity is not mentioned. However, industry claims that it is over 99.5 % pure.
- 4) Industry has uploaded some of the names of the direct end users for each by-product.

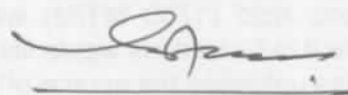
Sr. No.	Name of By-Product	Quantity	Generated from Product /source	Remarks
1	Sodium Hypochlorite	60 MT/M,	Glass Preforms	The claimed byproducts are as pure as fresh product and generated from unit operations of manufacturing process and not from pollution control equipment. As claimed byproducts does not contain any contamination/impurity there will not be any generation of other waste due to use of the claimed byproducts. Hence, no negative impact on the quality where this byproduct will be used directly.
2	SiO ₂	70 MT/M	Glass Preforms	
3	Salt	600 MT/M	Glass Preforms	
4	dilute Hydrochloric Acid	1750 MT/M	Glass Preforms	

Committee Decision:

Committee noted that although the products for which industry has applied to be considered as By-products as mentioned as by- products in previous consent granted to the project vide dtd 29/03/2019. Committee has considered only two products i.e. Dilute Hydrochloric Acid & Silicon dioxide subject to joint collection of samples by one of the institutions from IGT, IIT, NCL OR NEERI and certification from them. Others i.e. Sodium Hypochlorite generated from MEE, is not considered as committee is of the opinion that this is generated from pollution control equipment.

After due deliberation, it was decided that as industry is manufacturing inorganic products hence, EC is not applicable to the unit as per EIA & also the By-products not listed in the Schedule-I of Hazardous and other wastes (Management & Transboundary Movement) Rule, 2016, it was decided that the By-products Dilute Hydrochloric Acid, Silicon Dioxide i.e. (SiO₂) can be considered as by-products and subject to joint collection of samples by one of the institutions from IGT, IIT, NCL OR NEERI and certification from them within 30 days period.

It was therefore decided to defer the application for the next meeting. In the meantime, industry to jointly collect samples along with MPCB & one of the institutions viz., IIT, NCL OR NEERI and submit certification within 30 days period.


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Agenda Item No.	26
Proposal No.	MPCB-BY_PRODUCT-0000000036
Project Details	M/s Riverside Industries Ltd., Plot No. B-6, MIDC, Lote-Parshuram, Mumbai-Goa Highway, Taluka : Khed, Dist. : Ratnagiri-415722
Environmental Clearance details	06/11/2018
Consent details	No:- Format1.0/AS(T)/UAN No. 0000093405/CO-211000059 dtd. 01/10/2021 which is valid up to 31/03/2026

Introduction:

- 1) In consent there are 3 nos of by-products mentioned as Hazardous waste i.e., 1) Poly Aluminum Chloride: 200 MT/M. 2) HCl 30%: 35 MT/M & 3) Hypo Chlorite: 15 MT/M.
- 2) Industry has applied for 4 nos. products to be considered as a by-product in this application.
 - a) Poly Aluminum Chloride: 200 MT/M
 - b) Aluminum Sulphate
 - c) HCl 30%: 35 MT/M
 - d) Hypo Chlorite: 15 MT/M

Industry's submission:

- 1) Poly Aluminum Chloride

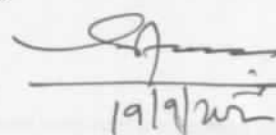
In the manufacturing process of Pigment Green-7, Aluminum Chloride and Cupric Chloride are used as catalysts & reaction carriers. However, they do not take part in the reaction stoichiometry, and are passed out in unreacted form to the drowing tank where they get dissolved in water to form a solution of Poly-Aluminum-Chloride (PAC) & 'Cupric-Chloride'. This solution is filtered out through filter-press, as mother-liquor.

- 2) Ammonium Sulphate:

Ammonium Sulphate is produced when CPC-Blue-Crude (300 MT/M) and Alpha-Blue (50 MT/M) are produced, together. During scrubbing of Ammonia gas in water, it gets converted to Ammonium Hydroxide. NH_4OH is made to react with 25% H_2SO_4 and produce Ammonium Sulphate.

- 3) HCL & 4) Hypo Solution:

In the manufacturing process of Pigment Green-7, CPC-Blue-Crude is made to react with gas Chlorine, in the presence of Aluminum-Chloride & Cupric-Chloride used as catalysts reaction carriers. In order to accomplish the reaction fully in forward direction, an excess amount of 20% extra Chlorine gas is purged in the reactor. This excess Chlorine remains un-reacted, and HCl is generated as a reaction product. Both, Cl_2 and HCl in gaseous form are evacuated from the reactor, using induced draft. The reactor emits HCl and Cl_2 in gaseous form, which are induced to pass through a three-stage scrubber system. HCl gas is scrubbed out in the first stage column using cooled-water, to form HCl solution of $\pm 30\%$ HCl acid. Subsequently, in the second-stage scrubber column, dilute caustic solution is used form Hypo-Solution in 10% strength. Finally, in the third-stage scrubber



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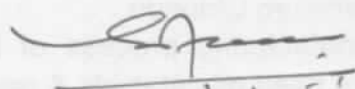
column (polishing column), very dilute caustic solution is used to that no traces of Cl_2 or HCl escapes through the stack.

The absorption of HCl gas in scrubber using cooled flowing counter currently, makes dilute HCl solution, which is purged out on attaining $\pm 30\%$ strength. Chlorine gas passing through the stage scrubbing column, counter-currently to dilute NaOH solution, generates hypo-solution.

Committee Decision:

Committee noted that CPCB has already formed SOP's for Poly Aluminium Chloride hence it shall be considered as HW & Ammonium Sulphate, HCL & Hypo Solution are generated from the process of scrubbing of gas and hence falls under category 28.1 of the Schedule-I of Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2016.

After due deliberations, it was decided, not to amend the consent for shifting of by-product to HW.


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Agenda Item No.	27
Proposal No.	MPCB-BY_PRODUCT-0000000037
Project Details	M/s Vardhaman Dyestuff Industries Pvt. Ltd., Plot No. N-33/34, MIDC Indl. Area, Tarapur (Boiser), Taluka & Dist: Palghar, PIN : 401506
Environmental Clearance details	NA Unit prior to EIA Notification-2006.
Consent details	No:- Format1.0/AS(T)/UAN No. 0000103150/CR-2112000332, dtd. 06/12/2021 which is valid up to 30/11/2025.

Introduction:

In consent there are 3 nos of by-products mentioned as Hazardous waste i.e., 1) Poly Aluminum Chloride: 200 MT/M. 2) HCl 30%: 35 MT/M & 3) Hypo Chlorite: 15 MT/M.

Industry has applied for 3 nos. products to be considered as a by-product in this application.

- Poly Aluminum Chloride: 200 MT/M
- HCl 30%: 35 MT/M
- Hypo Chlorite: 15 MT/M

Industry's submission:

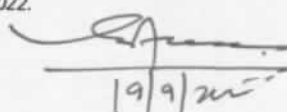
1) Poly Aluminum Chloride

In the manufacturing process of Pigment Green-7, Aluminum Chloride and Cupric Chloride are used as catalysts & reaction carriers. However, they do not take part in the reaction stoichiometry, and are passed out in unreacted form to the drowning tank where they get dissolved in water to form a solution of Poly-Aluminum-Chloride (PAC) & 'Cupric-Chloride'. This solution is filtered out through filter-press, as mother-liquor.

2) HCL & 4) Hypo Solution:

In the manufacturing process of Pigment Green-7, CPC-Blue-Crude is made to react with gas Chlorine, in the presence of Aluminum-Chloride & Cupric-Chloride used as catalysts reaction carriers. In order to accomplish the reaction fully in forward direction, an excess amount of 20% extra Chlorine gas is purged in the reactor. This excess Chlorine remains un-reacted, and HCl is generated as a reaction product. Both, Cl₂ and HCl in gaseous form are evacuated from the reactor, using induced draft. The reactor emits HCl and Cl₂ in gaseous form, which are induced to pass through a three-stage scrubber system. HCl gas is scrubbed out in the first stage column using cooled-water, to form HCl solution of $\pm 30\%$ HCl acid. Subsequently, in the second-stage scrubber column, dilute caustic solution is used form Hypo-Solution in 10% strength. Finally, in the third-stage scrubber column (polishing column), very dilute caustic solution is used to that no traces of Cl₂ or HCl escapes through the stack.

The absorption of HCl gas in scrubber using cooled flowing counter currently, makes dilute HCl solution, which is purged out on attaining $\pm 30\%$ strength. Chlorine gas passing




MAHARASHTRA POLLUTION CONTROL BOARD

through the stage scrubbing column, counter-currently to dilute NaOH solution, generates hypo-solution.

Committee Decision:

Committee noted that CPCB has already formed SOP's for Poly Aluminium Chloride hence it shall be considered as HW & HCL & Hypo Solution are generated from the process of scrubbing of gas and hence falls under category 28.1 of the Schedule-I of Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2016.

After due deliberations, it was decided, not to amend the consent for shifting of by-product to HW.


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MAHARASHTRA POLLUTION CONTROL BOARD

Agenda Item No.	28
Proposal No.	MPCB-BY_PRODUCT-0000000034
Project Details	M/s. Shri Venkatesh Sharada Alliance. S. no. 101/10, 101/9A/6, 101/9A/6/1, 101/9A/7&101/9A/8/1, Tal Haveli, Dist Pune.
Environmental Clearance details	NA
Consent details	No. Format1.0/BO/RO-HQ/CC-1705001150, dtd 31/05/2017

Introduction:

It was informed by RO/SRO that the unit has wrongly applied for By-product & Hazardous Waste Categorization.

Industry's submission:

Representative of industry did not attend the meeting, nor any submissions made by the industry.

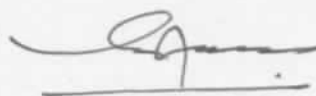
Committee Decision:

Committee noted that the industry has not submitted any documents along with the application. RO/SRO reported that the industry has applied for By-product & Hazardous waste categorization by oversight.

After due deliberation, it was decided to reject the application for categorization of By-product & Hazardous waste made by the industry.

The meeting ended with vote of thanks to Chair.

1. (Ashok Shingare, IAS), Member Secretary	Chairman
2. (Dr. V. M. Motghare), Joint Director (APC)	Member
3. (Dr. Y. B. Sontakkee), Joint Director (WPC)	Member
4. (Shri N. N. Gurav), Regional Officer (BMW)	Member
5. (Dr. B. R. Naidu), Ex. Zonal Officer, CPCB	Member
6. (Dr. M. P. Patil), Chief Scientist & Head, CHWMD, NEERI, Nagpur,	Member
7. (Dr. V. M. Motghare), Asst. Secretary (Tech.)	Member Convenor


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