Minutes of 4th meeting of Technical Committee (2024-25) for assessment of application of under change in product-mix

Date : **25/10/2024**

Venue : **4th Floor, Conference Hall, Kalpataru Point, Sion, Mumbai & Microsoft Team Video Conference.**

Technical Committee Members present for the meeting in person/through Video Conference:

1) Shri. Dr. V. M. Motghare, Assistant Secretary (Technical), MPCB	Chairman
2) Shri. A.M. Pimparkar, Scientist-1, Environment Department	Member
3) Shri. Partik Bharne, Regional Director, CPCB	Member
4) Shri. Dr. V. M. Motghare, Joint Director (APC)	Member
5) Shri. S.L Waghmare, I/c Joint Director (WPC)	Member
6) Dr. B.R. Naidu, Ex. Regional Director, CPCB	Member
7) Shir. Sujit Dholam, Regional Officer (BMW), MPCB	Member Convener

At the outset, the request was received from the members (1) Shri. M.P. Patil, Representative of NEERI (2) Shri. S.V. Patil, Vasantdada Sugar Institute (3) Shri. Anurag Garg, Chair Professor, IIT Bombay & (4) Shri. Dr. Ravindar Kontham, Principal Scientist, NCL Pune for leave of absence from attending the meeting was placed before the Committee meeting. The Committee considered the same.

Shri. Dr. V. M. Motghare, Assistant Secretary (Technical), MPCB & Chairman of the Committee welcomed all the Committee members. The committee deliberated on the agenda items placed and the following decision were taken.

10/12/2024

MAHARASHTRA POLLUTION CONTROL BOARD

Agenda item No	**No. 1**
Proposal No.	**MPCB-CONSENT-0000203320**
Project Details	**M/s. Privilege Industries Ltd.** Plot No. B 1 MIDC Lonand, Khandala
NIPL Certificate	NIPL Certificate issued by MITCON Consultancy & Engineering Services Ltd.,

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000203320 along with the copies of documents seeking consent to operate for enhancement of the existing 100 KLPD grain-based alcohol production by modifications in production parameters i.e, changing raw material from maize to rice under the provisions of EIA Notification 2006 amended on 23/11/2016 & amended on 02/3/2021. Accordingly, PIL has obtained Consent to Operate for 100 KLPD Grains based distillery unit.

Existing Clearances:

1. The Environmental Clearance was obtained for existing grain-based distillery unit of 100 KLPD (RS/ENA), with CPP (4.0 MW) plot no Plot No. B-1, M.I.D.C. Lonand, Khandala Mandal, Satara District, Maharashtra by M/s. Privilege Industries Limited vide No. J-11011/381/2007-IA II (I) dated 24.01.2011.
2. The unit has obtained consent to operate from Board vide consent No. Format 1.0/ CAC/ UAN No. MPCB- CONSENT - 0000172716/CR/2311001982 dated 08.11.2023 which is valid up to 31.08.2024. Industry has applied for renewal of Consent to Operate vide MPCB-CONSENT-0000214014 dated 26.06.2024.

Project Details:

Privilege Industries Limited (PIL), a grain-based distillery situated at Plot No. B-1, M.I.D.C. Lonand in Khandala Mandal, Satara District, Maharashtra, has proposed an enhancement of its existing distillery capacity. The proposed expansion is for increasing production from 100 KLPD to 130 KLPD through modifications in production parameters. This capacity increase is driven by a shift in raw materials, moving from maize to rice, which allows for a 30% boost in production potential. Consequently, the expansion plans would elevate the current capacity from 100 KLPD to 130 KLPD.

A. Product Details:

Sr. No.	Products	Existing Production	Proposed change in production under NIPL	Total
1	ENA & Rectified Spirit (one at a time or in combination)	100 KLD	+30 KLD	130 KLPD
2	Captive power plant	4 MW	-	4MW
3	IMFL Cases	205000 Cases/M	-	205000 Cases/M
4	Country Liquor Cases	205000 Cases/M	-	205000 Cases/M
5	CO2	50 MT/D	-	50 MT/D

- **CO_2 Gas is sent to Bottling Plant of capacity 50 MT/D.**
- **After NIPL, total alcohol production will be 130 KLPD.**

B. Pollution load Details:

(i) Process Water Consumption & Wastewater Aspect:

	Description	Quantities granted in CTO	Existing Operations (100 KLPD Grain Distillery)	After NIPL (130 KLPD Grain Distillery)	Remarks
1	Water Consumption in Manufacturing Process	1917 CMD (Fresh 1177 + Recycle 740)	1917 CMD (Fresh 1177 + Recycle 740)	1882 CMD (Fresh 1036 + Recycle 846)	Reduction in water consumption from 1917 CMD to 1882 CMD
2	Trade Effluent Generation (m^3/ day)	360 CMD	360 CMD	360 CMD	No change
3	Domestic effluent (m^3/ day)	5.6 CMD	5.6 CMD	5.6 CMD	No change

Total Water Consumption for process & Effluent generation from process in PIL: -

Overall Total Water Consumption in PIL			Overall Effluent Generation in PIL		
Quantities granted in CTO	**Existing Operations** (100 KLPD Grain(Maize) Distillery)	**After NIPL** (130 KLPD Grain (Rice) Distillery)	**Quantities granted in CTO**	**Existing Operations** (100 KLPD Grain Distillery)	**After NIPL** (130 KLPD Grain Distillery)
1917 m^3/d	1917 m^3/d	1882 m^3/d	- Trade effluent - 360 m^3/d - Domestic effluent - 5.6 m3/d	- Trade effluent - 360 m^3/d - Domestic effluent - 5.6 m^3/d	- Trade effluent - 360 m^3/d - Domestic effluent - 5.6 m^3/d

Pollution Loads for Principle Effluent in Existing 100 KLPD & proposed 130 KLPD grain based distillery

Waste water generation

Sr. No.	Description	Existing 100 KLPD grain(Maize) based distillery effluent				Proposed 130 KLPD grain(Rice)based distillery effluent*			
		Qty. CMD	Quality (Pollution Load) kg/d			Qty. CMD	Quality (Pollution Load) kg/d		
		Effluent	COD	BOD	TDS	Effluent	COD	BOD	TDS
1.	Spent lees	**240**	1080	432	2	**240**	1080	432	2
2.	CT BD	**110**	242	97	143	**110**	242	97	143
3.	Condensate	**250**	500	200	675	**250**	500	200	675

- **No change effluent quantity and pollution load for existing & proposed scenario.**
- There is no change in the total actual generation of trade effluent under both existing and proposed operations, which remains at 360 CMD. The domestic effluent will be 5.6 CMD.

Treatment System:

a. **Trade effluent Treatment:**

The effluent is treated through ETP followed by RO & MEE to achieve ZLD.

For existing & proposed scenario, thin stillage will be concentrated in multiple-effect evaporator (MEE) to produce a syrup, which will then be mixed with DWGS (Distillers Wet Grain soluble) and sold as cattle feed.

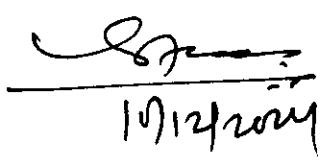
- Industry has provided two separate full-fledged ETPs for these streams as follows - Process Condensate: 250 M3/Day: Buffer tank, Up-flow Anaerobic Sludge Blanket (UASB) flocculation, settling, filtration, UF followed by Reverse Osmosis (RO).
- Treated effluent i.e. RO permeate is recycle in cooling tower makeup & RO reject sent to evaporation section. For Dilute Stream: 110 M3/Day: Buffer tank, UASB reactor, primary, Aeration tank, Secondary clarifier and Sludge drying bed.
- Further, ETP of 240 M3/day capacity, consisting of Flocculator, Lamella clarifier, Sand Filter, Activated Carbon Filter, 5 Micron Filter, Ultrafiltration, RO and achieving zero discharge

(ii) Air Emission Load:

Steam Consumption & Fuel Utilization for existing & proposed scenario of PIL

No.	Description	Fuel & Steam Consumption		
		Existing Operations (100 KLPD Grain Distillery)	**After NIPL** (130 KLPD Grain Distillery)	**As per the CTO**
1	Total Steam Consumption	435 TPD	435 TPD	435 TPD
2	Boilers	24 TPH & 8 TPH	24 TPH & 8 TPH	24 TPH & 8 TPH
3	Fuel	- 24 TPH- Coal – 90 MT/Day - 8 TPH - Coal – 40 MT/Day	- 24 TPH- Coal – 90 MT/Day - 8 TPH - Coal – 40 MT/Day	- 24 TPH- Coal – 90 MT/Day - 8 TPH - Coal – 40 MT/Day

- The steam required for distillery operations is supplied by the existing 24 TPH and 8 TPH boilers. An Electrostatic Precipitator (ESP) has been installed as Air Pollution Control (APC) equipment for these boilers, with a stack height of 50 meters.
- **There is no change in the total steam requirement & fuel requirement for existing & proposed scenario.**
- CO2 scrubbing system provided.



(iii) Solid Waste Load:

No.	Type of Waste	Qty. (MT/Day)			Disposal
		As per CTO	Actual generation	After change in product mix.	
1	DWGS (Distillers Wet Grain soluble)	265 TPD	241 TPD	202 TPD	Continuous sale as cattle feed to identified third party
2	ETP sludge	1 MTM	1 MTM	1 MTM	Gardening as manure

- **There will be reduction in DWGS generation after change in product mix..**

(iv) Hazardous Waste Load:

No.	Type of Waste	Quantity	Disposal
1	5.1 Used or Spent Oil	10 Ltr/M	Sale to authorized recycler

- **There is no change in Hazardous Waste before & after a change in product mix i.e change in raw material.**

Technical Committee Deliberations:

The project proposal was discussed based on presentation made and documents- NIPL Certificate, NIPL proforma submitted by the proponent. Product wise load calculation in terms of wastewater and Air Emissions were discussed. Existing Consent to Operate, Environmental Clearance, No Increase in Pollution Load certificate issued by M/s. MITCON Consultancy & Engineering Services Ltd. and product-mix proforma are taken on the record.

After due deliberations the Committee noticed that:

(i) Industry is proposing enhancement in Grain based Distillery Plant (ENA & Rectified Spirit) under NIPL due to change in raw material from capacity 100 KLPD (Maize based) to 130 KLPD (Rice based).
(ii) There will be overall reduction in water consumption from 1917 CMD (Fresh 1177 + Recycle 740) to 1882 CMD (Fresh 1036 + Recycle 846).
(iii) There will be no change in industrial effluent quantity and pollution load for existing & proposed scenario. The effluent is treated through ETP followed by RO & MEE to achieve ZLD.

(iv) There will be no change in the total steam requirement & fuel requirement for existing & proposed scenario. The steam required for distillery operations is supplied by the existing 24 TPH and 8 TPH boilers. An Electrostatic Precipitator (ESP) has been installed as Air Pollution Control (APC) equipment for these boilers, with a stack height of 50 meters.
(v) There will be no change in Hazardous Waste before & after change in product mix.
(vi) There will be reduction in DWGS generation (solid waste).

Technical Committee Decision:
Technical Committee decided to recommend the case for change in product mix based on "No Increase in Pollution Load" as per the provision of EIA notification 2006 with compliance of the following conditions.

1) Industry shall comply with all the conditions stipulated in Environmental Clearance and ensure display/upload of six-monthly compliance monitoring report on their official website.

2) Industry shall ensure connectivity of OCEMS data to Board server.

3) Entire CO2 generated after change in product mix should be bottled and sold.

4) The condition shall be imposed as "If any submission of misleading information including NIPL certificate is noticed, then the consent issued under MoEF & CC Product Mix Circular dtd. 02.03.2021 and amendments thereto will stand automatically cancelled."

Agenda item No	**No. 2**
Proposal No.	**MPCB-CONSENT-0000201920**
Project Details	**M/s. Balaji Formalin Pvt. Ltd.,** Plot No. N-32/1, Additional Patalganga MIDC, Tal. Panvel, Dist. Raigad.
NIPL Certificate	NIPL certificate issued by M/s SAGE (Sustainable Approach for Green Environment) LLP, No. Nill, Date: 06.08.2024

Introduction: -

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000201920 along with the copies of documents seeking the 1st time amendment for change in product – mix under the provisions of EIA Notification, 2006 amended on 23.11.2016 & on 02.03.2021. This is an existing unit engaged in manufacturing Synthetic Organic Products and allied products.

Existing Clearances: -

1. Environmental Clearance is accorded to the industry by MoEF and CC vide No SEAC-2015/CR-346/TC-2 dated 26.08.2016 for the total production capacity of 2,54,018 TPA.
2. The Consent to Operate was accorded by the Board vide No: Format 1.0 / CC / UAN No. 0000125219 /CR / 2205000711, dated 12.05.2022 valid up to 28.02.2025.

Project details: -

A. Production Details: -

Sr. No	Product Name	As per EC, TPA	Existing As per CTO, TPA	Addition(+)/ Deletion (-), TPA	After proposed change in product mix, TPA
1	Aqueous Formaldehyde (37%-55% Concentration) -(AF)	1,50,000	1,50,000	0	1,50,000
2	Hexamine	6000	6000	-5000	1000
3	Paraformaldehyde (91-96%) - (PFD)	20,000	20,000	+10,000	30,000

4	Urea Formaldehyde (UF) & Melamine Formaldehyde (MF) (Liquid Resin) [AND/OR]	15,000	15,000	-10,000	5000
	Urea Formaldehyde (UF) & Melamine Formaldehyde (MF) (Powder Resin)	7,500	7,500	-5,000	2,500
5	Phenol Formaldehyde (PF) (Liquid) [AND/OR]	5,000	5,000	-4,000	1000
	Phenol Formaldehyde (PF) (Powder)	2,500	2,500	-2,000	500
6	Silver Refining (Refined Silver Catalyst)	18	18	0	18
7	Urea Formaldehyde Concentrate (UFC)	20,000	20,000	+45,000	65,000
8	Sulphonated Napthalene Formaldehyde (SNF) (Liquid) [AND/OR]	20,000	20,000	-19,000	1000
	Sulphonated Napthalene Formaldehyde (SNF) (Powder)	7,000	7,000	-6,650	350
9	Methylal (99.5%)	18,000	18,000	-17,000	1000
	Total	**2,54,018**	**2,54,018**	**0**	**2,54,018**

- **Industry has proposed change in product mix by increasing production quantity of two products and by decreasing production quantity of eight products and No Change in two Existing Products.**
- **Industry has proposed that the total production will remain same i.e. 2,54,018 TPA, keeping the pollution load within the consent limit.**

B. Pollution load Details: -

Water & Wastewater Aspect: -

i) Water consumption aspect before & after proposed change in Product Mix: -

Particular	As Per EC, CMD	Existing as Per CTO, CMD	After change in product mix, CMD
Process + APCM	433	424	216
Boiler + Cooling	216	216	424
Total Trade	**649**	**640**	**640**
Domestic	8	17	17
Grand Total	**657**	**657**	**657**

- **After a change in product mix the Total process water consumption is proposed to be same as 657 CMD.**

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ii) **Waste Water (Trade and Domestic effluent) aspects before & after proposed change in product mix: -**

Particular	As per EC, CMD	Existing as per CTO, CMD	After change in product mix, CMD
Process + APCM	-	-	-
Boiler	-	-	-
RO Reject + Cooling	132	132	132
Total Industrial	**132**	**132**	**132**
Domestic	**8**	**15**	**15**
Grand Total	**139**	**147**	**147**

- **After a change in product mix Industry has proposed a same quantity of trade effluent, however the domestic effluent is increasing with reference to EC but equal to consent to operate.**

iii) **COD, BOD and TSS Pollution load existing and after proposed change in product mix: -**

Existing effluent characteristic: -		
Flow (CMD)	**From Process and Utilities blowdown**	
Parameter	**132**	
COD	Kg/Day	mg/L
BOD	25.28	191.52
TSS	5.20	39.4
	3.96	30
After Product Mix Effluent characteristic:-		
Flow (CMD)	**From Process and Utilities blowdown**	
Parameter	**132**	
COD	Kg/Day	mg/L
BOD	25.28	191.52
TSS	5.20	39.4
	3.96	30

- **Average COD, BOD and TSS load after change in product mix is proposed to be same.**

C) Treatment System: -

i) **Trade Effluent: -** Total trade effluent amounting to 132 CMD generated from processes and utilities are being treated in effluent treatment plant consisting of RO-MEE to achieve ZLD.

ii) **Sewage effluent: -** Domestic wastewater is sent to STP and treated sewage is taken for gardening.

D) Air Emission Aspect: -

i) Flue Gas Emissions: -

Sr. No.	Stack No.	Stack Attached to	As per EC	Existing as per CTO	Fuel Consumption after Change in Product Mix	APC system	Stack Height, (m)
1	S-1	DG Set 1 (2x1000 KVA)	Diesel	Diesel	No Change	Stack	9
2	S-2	Boiler	F.O.	Not Mentioned	Heat Recovery, No Change	Stack	-

- **Industry is not using FO as fuel in boiler and industry is operating boiler using heat recovery from the process. The Boiler is not mentioned in consent to operate.**

ii) Process emissions and control systems: -

Sr. No.	Stack attached to	APC system	Stack Height, m
1	Formaldehyde Plant Process Vent	Catalytic Converter	11
2	Paraformaldehyde Plant Process	Scrubber	11

- **Industry has submitted there are no changes in the process emissions.**

E) Hazardous Waste Aspect: -

Sr. No	Type of Waste	Cat. No.	As per EC, TPA	Existing as per CTO	After Change in Product Mix Qty.	Disposal
1.	Used or spent oil	5.1	'-	100 Lit/ day	100 Lit /day	Sale to authorized party / CHWTSDF
2.	Wastes or residues containing oil	5.2	'-	0.5 MT/A	0.5 MT/A	CHWTSDF
3.	Spent catalysts	29.5	'-	10 KL/A	10 KL/A	Sale to authorized party / CHWTSDF
4.	ETP Sludge	29.5	'-	300 MT/A	300 MT/A	CHWTSDF
5.	Calcium Sulphate	28.1	'-	8900 MT/A	2 MT/A	Sale to authorized party / CHWTSDF
6.	MEE Residue	37.3	'-	10 MT/A	10 MT/A	CHWTSDF

- **After a change in product mix the total hazardous waste is proposed to remain same except Calcium Sulphate.**
- **The hazardous waste Calcium Sulphate (28.1) is decreasing from 8900 MT/A to 2 MT/A.**
- **The total hazardous waste is proposed to reduce by 8898 MT/A.**

Technical Committee Deliberation: -

The project proposal was discussed based on revised presentation made and documents- revised NIPL Certificate, NIPL proforma and Power Point presentation submitted by the proponent. Product wise load calculation in terms of wastewater, Air Emissions & Hazardous Waste generations were discussed. Existing Consent to Operate, Environmental Clearance, No Increase in Pollution Load certificate issued by M/s. SAGE (Sustainable Approach for Green Environment) LLP, No.- Nil, Date. - 06.08.2024 and product-mix proforma are taken on the record.

Committee after due deliberation noticed that:-

1) Industry has proposed 1st time Change in product mix.
2) Industry has proposed change in product mix by increasing production quantity of two products and by decreasing production quantity of eight products and No Change in two Existing Products.

3) Industry has proposed that the total production will remain same i.e. 2,54,018 TPA, keeping the pollution load within the consent limit.
4) After a change in product mix the Total process water consumption is proposed to be remain same.
5) After a change in product mix, Industry has proposed no change in the quantity of trade effluent.
6) The average COD, BOD and TSS load after change in product mix is proposed to be remaining same.
7) Industry has submitted there are no changes in the process emissions.
8) Industry has proposed a boiler which is being operated by Heat Recovery, but the same is not reflected in the consent to operate.
9) Industry has proposed that there is no emission of Acid Mist and there is no change in emission of TPM and SO_2.
10) The hazardous waste Calcium Sulphate (28.1) is decreasing from 8900 MT/A to 2 MT/A.
11) After a change in product mix the total hazardous waste is propose to reduce by 8898 TPA.

The application was discussed before 3rd meeting of Technical Committee (20024-205) held on 16/08/2024 & Technical Committee decided to defer the application and industry shall resubmit the details of Heat Recovery Boiler with stack height and emissions if any and comparison of the pollution load with respect to Air Pollution aspects as per the Environmental Clearance and consent to operate.

Accordingly, industry has submitted that there is no proposal for boiler by the industry. As can be seen from Formaldehyde/UFC flow-sheet, there is a waste heat (temp 500oC) recovery system based on heat exchange principle (without use of any external fuel).

The clean hot gases emerging from the emission control system (ECS, i.e. catalytic converter) are passed through heat exchanger (Heat Recovery System) to produce steam. The cold gases will be vented through 11 m height stack.

In the EC, boiler based on the Furnace Oil (FO) fuel has been mentioned. Since, the industry does not have boiler based on any fuel to generate the steam, in the CTO, there was no remark about the boiler or fuel or heat recovery system.

Technical Committee Decision: -

Technical Committee decided to recommend the case for change in product mix based on "No Increase in Pollution Load" as per the provision of EIA notification 2006 with compliance of the following conditions;

1) Industry shall comply with all the conditions stipulated in Environmental Clearance and ensure display/upload of six-monthly compliance monitoring report on their official website.
2) Industry shall ensure connectivity of OCEMS data to Board server.
3) Industry has obtained consent to Establish for 12 TPH Waste Heat Recovery Boiler & 8 TPH Hydrogen Lean Gas fired Boiler (standby) vide dated 01/02/2024. Industry shall separately obtain consent to 1st Operate for the same.
4) The condition shall be imposed as "If any submission of misleading information including NIPL certificate is noticed, then the consent issued under MoEF & CC Product Mix Circular dtd. 02.03.2021 and amendments thereto will stand automatically cancelled."

MAHARASHTRA POLLUTION CONTROL BOARD

Agenda item No	**Agenda No. 3**
Proposal No.	MPCB-CONSENT-0000206522
Project Details	**M/s. Viyash Life Sciences Pvt. Ltd.,** Plot No. 1-A/2 & 1-A/3, MIDC Taloja, Navi Mumbai, Tal.- Panvel, Dist. – Raigad.
NIPL Certificate	NIPL certificate issued by M/s. Envirosphere Consultant and Engineers LLP. Date 27.03.2024

Introduction: -

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000206522 along with the copies of documents seeking Renewal of Consent to Operate along with the amendment for change in product – mix under the provisions of EIA Notification, 2006 amended on 23.11.2016 & on 02.03.2021. This is an existing unit engaged in manufacturing API /Drug and Intermediates.

Technical Committee noted that the proposal was discussed before 3rd meeting of Technical Committee (2024-25) & it was decided to recommend the case for change in product mix based on "No Increase in Pollution Load" as per the provision of EIA notification 2006. However, due to typographical error the process stack MB 01 Pilot Plant & Hazardous Waste categories Spent Solvents & Empty barrels/containers/liners contaminated with hazardous chemicals/wastes as per existing consent were not reflected in the minutes of 3rd Technical Committee meeting dated 16/08/2024 & the industry accordingly requested to consider the same. The proposal was therefore resubmitted before this meeting.

Exiting Clearances: -

1. Environmental clearance was accorded by SEIAA Government of Maharashtra, vide No SEAC-2013/CR-249/TC-2 dt. 01.12.2014 for manufacturing of API / Drug Substances and their intermediate 49.990 MT/A and the EC letter was transferred from M/s. Mylan Laboratories Limited to M/s. Viyash Life Sciences Private Limited vide No. SIA/MH/IND2/12560/2021 dt. 09.12.2021.
2. The consent to operate was accorded to M/s. Mylan Laboratories Limited by the Board under change in product mix vide No: - Format 1.0/CC/ UAN No.0000081249/ CO 2008000997 dt. 26.08.2020 which was valid upto 30.04.2021.
3. Later the Board has accorded Renewal of the Consent to Operate in name of M/s. Viyash Life Sciences Private Limited vide consent no Format 1.0 / AS(T)/UAN No.0000136726/CR / 2210001018, Date.13.10.2022 which was valid upto 30.04.2024.

Project details: -

A. Production Details: -

Sr. No.	Name of Product	Existing as per CTO, MT/A	Proposed (+) addition/ (-) Deletion, MT/A	Proposed after change in product mix, MT/A	Remark (*)
1	Bosentan- (BOM IV & BST IV)	2	0	2	No Change
2	Rasagiline mesylate- (RAG) /(RAS)III	0.025	(+) 0.025	0.05	Increased
3	Vorinostat	0.02	(-) 0.02	0	Deleted
4	Clopidogrel hydrogen bromide	10.745	(-) 10.745	0	Deleted
5	Lenalidomide	0.2	(+) 0.6	0.8	Increased
6	Sunitinib maleate	0.01	(-) 0.01	0	Deleted
7	Zofenopril	5.1	(-) 3.6	1.5	Decreased
8	Formoterol Fumarate dihydrate	0.02	(-) 0.01	0.01	Decreased
9	Salmeterol Xinafoate (BFA) XII/ (FFD) VIII/ (MPA) XII	0.03	(-) 0.03	0	Deleted
10	Rivastigmine Hyd.Tartrate (RHT) XII/(RVH) II	2	0	2	No Change
11	Osteoporosis / Residronate Sodium	0.01	(-) 0.01	0	Deleted
12	Erlotinib Hydrochloride	0.05	(-) 0.05	0	Deleted
13	Letrozole	0.5	(-) 0.48	0.02	Decreased
14	Proguanil HCL (PRO) I	4	(+) 1	5	Increased
15	Pregablin	2	(-) 2	0	Deleted
16	Febuxostat IB	5	(-) 2	3	Decreased
17	Capecitabine 6000	6	(-) 5.9	0.1	Decreased
18	Roflumilast	0.05	0	0.05	No Change
19	Imatinib Mesylate	0.1	(-) 0.1	0	Deleted
20	Atropine	0.1	(-) 0.1	0	Deleted
21	Olopatadine Hydrochloride	0.01	(-) 0.01	0	Deleted
22	Tizanidine HCL	0.1	(-) 0.05	0.05	Decreased
23	Pramipexole HCL/(PMB) / (PRA) IV /(PRJ) III	0.1	0	0.1	No Change
24	Frovatriptan	0.05	0	0.05	No Change
25	Adefovir Dipivoxil	0.1	(-) 0.1	0	Deleted
26	Rotogotin	0.6	(-) 0.1	0.5	Decreased
27	Tolvaptan (TLV) V / (TOL) I	0.05	(-) 0.05	0	Deleted

28	Diphenoxylate	1.8	(-) 1.8	0	Deleted
29	Fluticasone Propionate	1.8	(-) 1.8	0	Deleted
30	Dimethyl Fumarate	5	(+) 12.6	17.6	Increased
31	Other Validation products	0.5	(+) 4.54	5.04	Increased
32	Prasugreal Hydrochloride / (PSH) III/ (PRS) IV/(PRJ)IV	1	(+) 1	2	Increased
33	Saxagliptin	0.05	(+) 0.05	0.1	Increased
34	Palbociclib	0.2	0	0.2	No Change
35	Fingolimod	0.02	(+) 0.08	0.1	Increased
36	Epinephrine (EPI)IV/ Bitartrate (EPB) /ENA) IV	0.1	(+) 0.4	0.5	Increased
37	Thiotepa	0.05	(-) 0.04	0.01	Decreased
38	Ticagrelor	0.1	(+) 2.4	2.5	Increased
39	HAMDHCL	0.1	(-) 0.1	0	Deleted
40	Macitendan	0.05	(+) 0.05	0.1	Increased
41	Pomalidomide (POM)	0.2	0	0.2	No Change
42	Premetrexed Disodium 2.5 H2O (PED V	0.05	(-) 0.025	0.025	Decreased
43	Selexipag	0	(+) 0.1	0.1	New Product
44	Vilazodone	0	(+) 1.2	1.2	New Product
45	Glycopyrrolyte	0	(+) 0.115	0.115	New Product
46	Apixaban	0	(+) 2.5	2.5	New Product
47	Linagliptin	0	(+) 0.5	0.5	New Product
48	Ivacaftor	0	(+) 1	1	New Product
49	Viloxazine	0	(+) 0.42	0.42	New Product
50	DDM	0	(+) 0.05	0.05	New Product
51	Levormeloxifene Fumarate	0	(+) 0.5	0.5	New Product
Total Production Capacity		**49.990 MT/A**	**0.00**	**49.990 MT/A**	Total production quantity will remain same

- **Industry has proposed a change in the product mix by deletion of 15 Nos. of existing products, decreasing the production capacity of 24 Nos. of existing products and increase in capacity of 3 Nos. of existing products and addition of 9 Nos. of new products in the same API/ Bulk Drugs and Intermediate Category.**
- **Industry has proposed the total production quantity after change in production quantity will remain same i.e 49.990 MT/A.**

B. Pollution load Details:
Water & Wastewater Aspect: -

i) Water consumption aspect before & after proposed change in Product Mix-

Propose	As Per EC in CMD	As Per CTO in CMD	Proposed reduction after CIPM in CMD	After change in product mix, CMD
Processing whereby water gets polluted & pollutants are easily biodegradable	24	24	0.07	23.93
Industrial Cooling, spraying in mine pits or boiler feed	72.5	72.5	0	72.5
Total Industrial Consumption	96.5	96.5	0.07	96.43
Domestic	10	10	0	10
Gardening	8	8	0	8
Grand Total	**114.5**	**114.5**	**0.07**	**114.43**

- **After a change in product mix industry has proposed reduction in process water consumption by 0.07 CMD.**

ii) Waste Water (Trade and Domestic effluent) aspects before & after proposed change in product mix: -

Purpose	Existing Effluent Generation (KLD)	Effluent Generation Breakup after change in product mix (KLD)	Proposed Change
Process	8.07956	8.00528	Reduced
Scrubber	2.5	2.5	No Change
Reactor Wash	14	14	No Change
Boiler	1	1	No Change
Cooling Tower	10	10	No Change
Domestic	10	10	No Change

- **After a change in product mix industry has proposed a reduction in Process effluent generation by 0.07428 KLD.**

iii) COD, BOD and TDS Pollution load existing and after proposed change in product mix: -

Existing Effluent COD, BOD and TDS Pollution load : -		
Parameter	**Kg/Day**	**Mg/L**
COD	276.99	34,282.80
BOD	125.90	15,583.09
TDS	611.71	75,710.80
After Product Mix Effluent COD, BOD and TDS Pollution load: -		
Parameter	**Kg/Day**	**Mg/L**
COD	264.12	32,993.22
BOD	120.05	14,996.92
TDS	581.30	72,614.57

- **Average COD, BOD and TDS load after change in product mix is proposed to reduce by about 4.65%, 4.65% and 4.97% respectively.**

C) Treatment System: -

Trade Effluent: -

i) **Strong COD/TDS stream of 8 CMD** - Treatment system comprising of Primary (Collection tank, Neutralization tank, Equalization tank, Flash mixer, Primary Clarifier/Primary Settling Tank), Stripper, Multi effect evaporator (3 stage) of 10 CMD and ATFD.

ii) **Weak COD/TDS stream of 38.4 CMD** - Treatment system comprising of Primary (Collection tank, Neutralization tank, Equalization tank, Flash mixer, Primary Clarifier/Primary Settling Tank), Secondary (Activated sludge process), Tertiary (Pressure sand filter, Activated carbon filter), Advance treatment (Reverse osmosis).

iii) Sewage effluent: After primary treatment the sewage is connected to Effluent treatment Plant for further treatment & disposal.

iv) Total treated trade and domestic effluent is recycled back in utilities to achieve 100% Zero Liquid Discharge (ZLD).

10/12/2024

D) Air Emission Aspect: -

i) Flue Gas Emissions: -

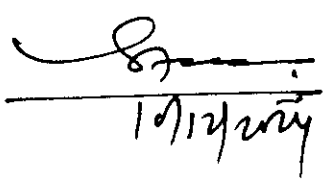
Stack No.	Stack Attached to	Fuel Consumption as per EC	Existing fuel Consumption	Proposed Fuel Consumption after CIPM	APC system	Stack Height, m
S-1	Boiler 2 nos. (1 Operational & 1 Standby)	LDO- 51.66 kg/Hr.	LDO- 51.66 kg/Hr. [OR] Natural Gas- 1000 SCM/Day.	Natural Gas- 1000 SCM/Day.	Stack	30
S-2	DG Set (1500 kVA)	HSD- 200 Ltr/Hr.	HSD- 200 Ltr/Hr.	HSD- 200 Ltr/Hr.	Stack	9

- **Industry has not proposed any change in existing utilities.**
- **Industry has proposed to stop the LDO as fuel and now completely shifted to cleaner fuel i.e. Natural gas.**

ii) Process Emissions and control Systems: -

No.	Stack No	Stack Attached to	APC system	Stack height	Scrubbing Media	Parameters
1	S-3	MB 01 Pilot Plant	Scrubber	13.00	Alkaline	Acid Mist, Ammonia, HCL, H_2S, HI, HF
2	S-4	MB-01 Intermediate Block	Scrubber	16.00	Alkaline	
3	S-5	MB-01 Process Plant	Scrubber	13.00	Alkaline	
4	S-6	MB-01 Isolated scrubber plant	Scrubber	13.00	Alkaline	
5	S-7	MB-02 HVAC-I	Scrubber	13.00	Alkaline	
6	S-8	HVAC -II emergency	Scrubber	13.00	Alkaline	
7	S-9	QC Isolator	Scrubber	13.00	Alkaline	

- **The process emission control system i.e. scrubbers are installed. There is no additional process emissions and scrubber requirement after proposed change in product mix.**



E) Hazardous Waste Aspect: -

Sr. No.	Type of Waste	Category (As per Schedule)	Generation		Remark	Mode of Treatment & Disposal
			Existing	After Change in Product Mix		
1.	Used or spent oil	5.1	7000 Lit/A	7000 Lit/A	No Change	Sale to authorised party / CHWTSDF
2.	Off specification Products	28.4	74 MT/A	74 MT/A	No Change	Sale to authorised party / CHWTSDF
3.	Process Residue and wastes	28.1	225 MT/A	223.5 MT/A	Reduce by 1.5 MT/A	Sale to authorised party / CHWTSDF
4.	Chemical sludge from wastewater treatment	35.3	40 MT/A	40 MT/A	No Change	CHWTSDF
5.	Spent ion exchange resin containing toxic metals	35.2	5 MT/A	5 MT/A	No Change	CHWTSDF
6.	Off specification products	28.4	2 MT/A	2 MT/A	No Change	Sale to authorised party / CHWTSDF
7.	Concentration or evaporation residues	37.3	238 MT/A	236 MT/A	Reduce by 2 MT/A	Sale to authorised party / CHWTSDF
8.	Exhaust Air or Gas cleaning residue	35.1	2 MT/A	2 MT/A	No Change	Sale to authorised party / CHWTSDF
9.	E-Waste	-	25 MT/A	25 MT/A	No Change	CHWTSDF / Recycler
10.	Spent Solvents	28.6	10000 KL/A	10000 KL/A	No Change	Sale to authorised party / CHWTSDF
11	Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	33.1	22000 Nos/Y	22000 Nos/Y	No Change	Sale to authorised party / CHWTSDF

- **After a change in proposed mix the Hazardous waste categories 28.1 Process Residue and Waste is reduced by 1.5 MT/A and 37.3 Concentration or evaporation residue reduced by 2 MT/A.**

Technical Committee Deliberation:

The project proposal was discussed based on presentation made and documents- NIPL Certificate, NIPL proforma and Power Point presentation submitted by the proponent. Product wise load calculation in terms of wastewater, Air Emissions & Hazardous Waste generations were discussed. Existing Consent to Operate, Environmental Clearance, No Increase in Pollution Load certificate issued by M/s. Envirosphere Consultant & Engineers LLP., No. Nil, Date. 27.03.2024 and product-mix proforma are taken on the record.

Committee after due deliberation noticed that:

1) The industry is existing and engaged in manufacturing of API/Bulk Drugs and Intermediates.
2) Industry has proposed a change in the product mix by deletion of 15 Nos. of existing products, decreasing the production capacity of 24 Nos. of existing products and increase in capacity of 3 Nos. of existing products and addition of 9 Nos. of new products.
3) The industry has proposed the total production quantity of the API and its intermediate will remain same i.e. 49.990 MT/A as per EC and CTO.
4) After a change in product mix industry has proposed reduction in Process effluent generation by 0.07428 KLD. Total treated trade and domestic effluent is recycled to achieve 100% Zero Liquid Discharge (ZLD).
5) After a change in product mix industry has proposed reduction in average COD, BOD and TDS load by about 4.65%, 4.65% and 4.97% respectively.
6) Industry has not proposed any change in existing utilities. Industry has proposed to stop the LDO as fuel and now completely shifted to cleaner fuel i.e. Natural gas.
7) The process emission control system i.e. scrubbers are installed. There is no additional process emissions and scrubber requirement after the proposed change in product mix.
8) After a change in the proposed mix the Hazardous waste categories 28.1 Process Residue and Waste is reduced by 1.5 MT/A and 37.3 Concentration or evaporation residue reduced by 2 MT/A. Industry has proposed reduction in total Hazardous Waste by 3.5 MT/A.

Technical Committee Decision: -

Technical Committee decided to recommend the case for change in product mix based on "No Increase in Pollution Load" as per the provision of EIA notification 2006 by incorporating process stack MB 01 Pilot Plant & Hazardous Waste categories Spent Solvents & Empty barrels/containers/liners contaminated with hazardous chemicals/wastes with compliance of the following conditions;

1) Industry shall comply with all the conditions stipulated in Environmental Clearance and ensure display/upload of six-monthly compliance monitoring report on their official website.
2) Industry shall ensure connectivity of OCEMS data to Board server.
3) Industry shall comply with mechanism for Environmental management prepared by Central Pollution Control Board for CEPI listed areas, as industry falls under Severely Polluted Area (SPA) of CEPI.

4) Industry shall achieve TPM-50 mg/NM3 being the unit is in CEPI area as per MPC Board policy and accordingly consent shall be amended for the stringent standards.
5) Industry shall ensure disposal of Hazardous Waste to the actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.
6) The condition shall be imposed as "If any submission of misleading information including NIPL certificate is noticed, then the consent issued under MoEF & CC Product Mix Circular dtd. 02.03.2021 and amendments thereto will stand automatically cancelled."

Agenda item No	**No. 4**
Proposal No.	**MPCB-CONSENT-0000208827**
Project Details	**M/s. Honour Lab Limited.,** Unit 3A, Plot no. D - 10, MIDC Kurkumbh, Taluka - Daund, District - Pune
NIPL Certificate	NIPL certificate issued by M/s. SGM (Enviro) Pvt. Ltd., No. Nill, Date: 18.06.2024

Introduction: -

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000208827 along with the copies of documents seeking Renewal of Consent to Operate along with the amendment under change in product – mix under the provisions of EIA Notification, 2006 amended on 23.11.2016 & on 02.03.2021. This is an existing unit engaged in manufacturing Bulk Drug Intermediates and Active Pharmaceutical Ingredients (API).

Technical Committee noted that the proposal was discussed before 3rd meeting of Technical Committee (2024-25) & it was decided to defer the case and asked PP to reassess their pollution load, along with the NIPL certificate and was advised the PP to furnish above details in comparison with the Environmental Clerance, Consent to Operate and proposed changes under product mix, before the committee.

Existing Clearances: -

1. Environmental Clearance is accorded to the industry by SEIAA vide No No. SEAC-2015/CR-716/TC-2, Dated: 23.08.2016.
2. The Consent to Operate was accorded by the Board vide No: Format1.0 / CC / UAN No.0000109773 / CR /2206000215 dated 04.06.2022 valid up to 31.05.2024.

Project details: -

A. Production Details: -

Sr. No.	Product Name	UOM	Consented	Proposed Reduction	Proposed Addition	Production after change in product mix.	Remarks
1	Amino butyramide	MT/M	30	-16.5	0	13.5	Decreased
2	Amino chloro trifluroacetophenone	MT/M	50	-27.5	0	22.5	Decreased

3	Amino purine	MT/M	50	-27.5	0	22.5	Decreased
4	Amino pyrimidinone	MT/M	50	-27.5	0	22.5	Decreased
5	5 (Aminofluorooxopyrimidinyl)-oxathiolane carboxylic acid methyl ester	MT/M	20	-11	0	9	Decreased
6	Bicyclo nonane	MT/M	40	-22	0	18	Decreased
7	Aminodydroxy butyloxy diphenyl hexane (BDH)	MT/M	24	-13.2	0	10.8	Decreased
8	Butyl diazaspirononenone	MT/M	10	-5.5	0	4.5	Decreased
9	Carbonyl diimidazole	MT/M	70	-38.5	0	31.5	Decreased
10	Chloro methyl isopropyl carbonate	MT/M	30	-16.5	0	13.5	Decreased
11	Cycloprppyl amine	MT/M	30	-16.5	0	13.5	Decreased
12	Dibenxothiazepinone	MT/M	10	-5.5	0	4.5	Decreased
13	Dichlorophenyl dihydro-N-methyl naphthalenimine	MT/M	25	-13.75	0	11.25	Decreased
14	Ethynyl cyclopropane	MT/M	50	-27.5	0	22.5	Decreased
15	Ethyltoluenesulfonyl methylophosphate	MT/M	30	-16.5	0	13.5	Decreased
16	Hylopyridine carboxylic acid	MT/M	50	-27.5	0	22.5	Decreased
17	Magnesium tert Butoxide	MT/M	71	-39.05	0	31.95	Decreased
18	5-Methyl uridine	MT/M	60	-33	0	27	Decreased
19	Phthalimido Amlodipine	MT/M	20	-11	0	9	Decreased
20	1-(3-Dimethyl amino propyl)-3-ethyl carbodimide Hydrochloride	MT/M	0	0	10	10	New product
21	Moxifloxacin Hydrochloride	MT/M	0	0	10	10	New product

22	Eplerenone	MT/M	0	0	2	2	New product
23	Telmisartan	MT/M	0	0	20	20	New product
24	Rupatadine Fumarate	MT/M	0	0	4	4	New product
25	4,5-Dimethyl-l,3-Dioxol-2-One	MT/M	0	0	10	10	New product
26	Teneligliptin Hydrobromide Hydrate	MT/M	0	0	2	2	New product
27	Bempedoic Acid	MT/M	0	0	2	2	New product
28	7-Chloro-1-cyclopropyl-6fluoro-4-oxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid	MT/M	0	0	6.666667	6.666667	New product
29	Bis(4-Nitrophenyl)carbonate	MT/M	0	0	20	20	New product
30	Montelukast Sodium	MT/M	0	0	10	10	New product
31	Olmesartan Medoxomil	MT/M	0	0	5	5	New product
32	Deflazcort	MT/M	0	0	4	4	New product
33	(2S,3S,5S)-2-(2,6-Dimethyl Phenoxyacetyl) Amino-3-Hydroxy-5-Amino-1, 6-Diphenyl hexane (NAMPALLY)	MT/M	0	0	6.666667	6.666667	New product
34	Sodium Salt of R(+) Tetrahydro-2-thiofuroic acid (SWAPNA)	MT/M	0	0	10	10	New product
35	6-Fluoro-3-Oxo-3,4-Dihydro Pyrazine-2- Carbonitrile Compound With Dicyclohexyl Amine (1:1) / PCO	MT/M	0	0	10	10	New product
36	Favipiravir	MT/M	0	0	10	10	New product
37	Nitazoxanide	MT/M	0	0	10	10	New product
38	Dabigatran etexilate mesylate	MT/M	0	0	2	2	New product

39	1,1-[carbonylbis(oxy)] bis 2,5-pyrrolidinedione	MT/M	0	0	2	2	New product
40	Ticagrelor	MT/M	0	0	2	2	New product
41	4,6-DICHLORO-2-(PROPYLTHIO) PYRIMIDIN-5-AMINE	MT/M	0	0	10	10	New product
42	1-Oxo-1,3-Dihydroisobenzofuran-5-Carbonitrile	MT/M	0	0	10	10	New product
	Final Total product	**MT/M**	**720**	**- 396**	**178**	**502**	Total production quantity as per EC is 720 MT/M

- **Industry has proposed change in product mix by decreasing production capacity of 19 existing products & introducing 23 new products under the same category.**
- **Industry proposes to decrease the production quantity of existing product from 720 MT/M to 324 MT/M and proposed new product under No increase pollution load with quantity 178 MT/M. The total production quantity will be 502 MT/M after NIPL, which is within the EC and consent limit.**

B. Pollution load Details: -

Water & Wastewater Aspect: -

i) Water consumption aspect before & after proposed change in Product Mix: -

Propose	As per the EC	Existing Water Consumption	Water Consumption Break up after change in product mix
INDUSTRIAL			
Process + APCM		150	122
Boiler		100	100
Cooling		250	250

Washing	Fresh Water consumption 532 CMD and Recycled water 174 CMD.	0	0
Gardening		27	27
Other		0	0
Total Industrial		**527**	**499**
DOMESTIC		**20**	**20**

- **After a change in product mix the Total process water consumption is proposed to be reduced by 28 CMD.**

ii) Waste Water (Trade and Domestic effluent) aspects before & after proposed change in product mix: -

Propose	Existing Effluent Generation	Effluent Generation after proposed change in Product mix.
INDUSTRIAL		
Process + APCM	149	147
Boiler	5	5
Cooling	5	5
Washing	0	0
Other	0	0
Total Industrial	**159**	**157**
DOMESTIC	15	15

- **After a change in product mix Industry has proposed a decrease in trade effluent by 2.0 CMD.**

iii) COD, BOD and TDS Pollution load existing and after proposed change in product mix: -

Existing effluent characteristic: -		
	From Process and Utilities blowdown	
Flow (CMD)	**149**	
Parameter	Kg/Day	mg/L
COD	6028	40513
BOD	32.6	448
TDS	7638	51333

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After Product Mix Effluent characteristic:-		
Flow (CMD)	From Process and Utilities blowdown	
Parameter	147	
COD	Kg/Day	mg/L
BOD	5303	36153
TDS	28.8	396
	4635	48900

- **Average COD, BOD and TDS load after change in product mix is proposed to reduce by about 725 Kg/Day, 3.8 Kg/Day and 3003 Kg/Day respectively.**

C) Treatment System: -

i) **Trade Effluent: -** Total trade effluent amounting to 157 CMD generated from process and utilities is being transferred to another unit of Honour at plot no. A-88 through closed pipeline for treatment and disposal. Industry has provided combine ETP for plot no. D-10 and A-88 with design capacity 280 CMD consisting of primary, secondary and tertiary treatment with RO and MEE to achieve Zero Liquid Discharge.

ii) **Sewage effluent: -** Provided and shared common sewage treatment system of capacity 50 CMD at Plot No. A-88. The treated wastewater is recycled and reused for gardening in non-monsoon season & is used for flushing and utility purpose (after disinfection) in monsoon season.

D) Air Emission Aspect: -

i) Flue Gas Emissions: -

Sr. No.	Stack Attached to	Fuel	Existing Fuel Consumption	Proposed Fuel Consumption	Stack Height
1	Boiler 1 & Boiler 2	Boiler 1: LDO	150 Lit/Hr	No any additional fuel required	30 m
		Boiler 2: Coal or Briquette	600 kg/Hr		
2	DG set-600 KVA	In CTO: Diesel	75 Lit/day	0	5 m
3	DG set-750 KVA (Standby)	HSD	0	162 lit/hr.	5 m

- **Industry has not proposed any changes in the steam requirements and Boiler configuration.**
- **The fuel consumption of the boiler for the changed production profile is proposed to remain the same.**
- **Industry has proposed new D.G Set (Standby) under change in product mix.**

ii) Process emissions and control systems: -

Sr. No.	Stack attached to	Pollution Control Systems	Stack Height, m
1	Existing Process vent scrubber 1	Adequate stack height, Exhaust fan and wet/dry scrubber	5*
2	Proposed Process vent scrubber 2	Adequate stack height, Exhaust fan and wet/dry scrubber	5*
3	Proposed Process vent scrubber 3	Adequate stack height, Exhaust fan and wet/dry scrubber	5*
4	Proposed Process vent scrubber 4	Adequate stack height, Exhaust fan and wet/dry scrubber	5*

***above roof**

- **Industry proposes to install three new process vent double stage scrubbers in three separate production blocks for each manufacturing product.**
- **The industry has submitted comparison of the Air Pollution Load with respect to the additional parameters for process emissions in comparison to the existing pollution load. Industry has stated that existing 1 No. of double stage scrubber is already installed and for proposed production, three Nos. of double stage scrubbers will be installed to scrub the gaseous emission form manufacturing process i.e., Bromine 3 ppm & Acid mist 35 Mg/NM3.**

E) Hazardous Waste Aspect: -

Sr. No	Name of waste	Quantity As per EC in MT/M	Quantity As per CTO	Calculated Quantities which should have been in the EC/CTO based on the existing capacity of 720 MT/M.	Proposed Quantity of waste for production 502 MT/M	Disposal
1	ETP Sludge	Quantity not mentioned in EC	1244 MT/A	1244 MT/A	1244 MT/A	CHWTSDF
2	Forced Evaporation Salts	Quantity not mentioned in EC	Quantity not mentioned in CTO	2749.68 MT/A	778 MT/A	CHWTSDF
3	Spent carbon	Quantity not mentioned in EC	30 MT/A	931.32 MT/A	510 MT/A	CHWTSDF
4	Process Residue & Waste	Quantity not mentioned in EC	30 MT/A	3295.08 MT/A	950 MT/A	CHWTSDF
5	Spent solvents	Quantity not mentioned in EC	300 KL/A	3384.36 MT/A	1083 MT/A	Sale to authorized party / CHWTSDF
6	Empty barrels/containers/Liners contaminated with hazardous chemicals/wastes	Quantity not mentioned in EC	3600 Nos/Y	3600 Nos/Y	3600 Nos/Y	Sale to authorized party / CHWTSDF
7	Used/Spent Oil	Quantity not mentioned in EC	0.4 MT/A	0.4 MT/A	0.4 MT/A	Sale to authorized party / CHWTSDF

Technical Committee Deliberation: -

The project proposal was discussed based on presentation made and documents- revised NIPL Certificate, NIPL proforma and Power Point presentation submitted by the proponent. Product wise load calculation in terms of wastewater, Air Emissions & Hazardous Waste generations were discussed. Existing Consent to Operate, Environmental Clearance, No Increase in Pollution Load certificate issued by M/s. SGM (Enviro) Pvt. Ltd., No. Nill, Date: 18.06.2024 and product-mix proforma are taken on the record.

Committee after due deliberation noticed that:

1) Industry has proposed change in product mix by decreasing production capacity of 19 existing products & introducing 23 new products under the same category.
2) Industry proposes to decrease the production quantity of existing product from 720 MT/M to 324 MT/M and proposed new product under No increase pollution load with quantity 178 MT/M. The total production quantity will be 502 MT/M after NIPL, which is within the EC and consent limit.
3) After a change in product mix the Total process water consumption is proposed to be reduced by 28 CMD.
4) After a change in product mix Industry has proposed a decrease in the trade effluent by 2.0 CMD.
5) Average COD, BOD and TDS load after change in product mix is proposed to reduce by about 725 Kg/Day, 3.8 Kg/Day and 3003 Kg/Day respectively.
6) Industry has not proposed any changes in the steam requirements and Boiler configuration. The fuel consumption of the boiler for the changed production profile is proposed to remain the same. Industry has proposed new D.G Set (Standby) under change in product mix.
7) Industry proposes to install three new process vents double stage scrubbers in three separate production blocks for each manufacturing product. The industry has submitted comparison of the Air Pollution Load with respect to the additional parameters for process emissions in comparison to the existing pollution load. Industry has stated that existing 1 No. of double stage scrubber is already installed and for proposed production, three Nos. of double stage scrubbers will be installed to scrub the gaseous emission form manufacturing process i.e., Bromine 3 ppm & Acid mist 35 Mg/NM3.

Technical Committee Decision:

Technical Committee decided to recommend the case for change in product mix based on "No Increase in Pollution Load" as per the provision of EIA notification 2006 with compliance of the following conditions;

1) Industry shall comply with all the conditions stipulated in Environmental Clearance and ensure display/upload of six-monthly compliance monitoring report on their official website.
2) Industry shall ensure connectivity of OCEMS data to Board server.
3) Industry shall ensure disposal of Hazardous Waste to the actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.
4) The condition shall be imposed as "If any submission of misleading information including NIPL certificate is noticed, then the consent issued under MoEF & CC Product Mix Circular dtd. 02.03.2021 and amendments thereto will stand

MAHARASHTRA POLLUTION CONTROL BOARD

Agenda item No	**No. 05**
Proposal No.	**MPCB-CONSENT-0000194926**
Project Details	**M/s Monomer chemical industries Ltd.** Plot No. 32, Chemical Zone Ambernath, MIDC Ambernath, Taluka - Ambernath, District - Thane
NIPL Certificate	NIPL certificate issued by M/s Sadekar Enviro Engineers Private Limited.,

Introduction: -

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000194926 along with the copies of documents seeking the amendment for change in product – mix under the provisions of EIA Notification, 2006 amended on 23.11.2016 & on 02.03.2021. This is an existing unit engaged in manufacturing Synthetic Dye.

Existing Clearances: -

1. Environmental Clearance is accorded to the industry by MoEF and CC vide No F. No. J-11011/64/2004-IA-II(I) dated 5th January 2005 dated 05.01.2021.
2. The Consent to Operate was accorded by the Board vide No: Format1.0/CAC/UAN No. 0000092802/CR-2009000402, dated 08.09.2020.

Project details: -

C. Production Details: -

Sr. No.	Product Name	As per EC (TPD)	As per CTO (TPD)	After CIPM (TPD)	Remark
1	Reactive Dyes such as Yellow H8G, Yellow H4G, Yellow FG, Yellow PNR etc.	3.0	1.61	0.3	Reduced
2	Vat Dyes such as Black 25, Yellow 2 etc.		1.39	0.55	Reduced
3	Pigments & Pigment Emulsions	0	0	0.5	New Product
4	Acrylic Polymers	0	0	1.65	New Product
	TOTAL	**3.0**	**3.0**	**3.0**	

Non-EC Products					
5	Isoflow/Nikaflow	N.A.	870 TPA	870 TPA	Mixing Blending Products
6	Isofix/Nikafix		40 TPA	40 TPA	
7	Isocreat/Nikacreat		130 TPA	130 TPA	
8	Isofloor/Nikafloor		1330 TPA	1330 TPA	
9	Isoproof/Nikaproof		770 TPA	770 TPA	
10	Isoseal/Nikaseal		450 TPA	450 TPA	

- **Industry has proposed change in product mix by decreasing the capacity of 02 Nos. of products, introducing 02 Nos. of new products under the same category.**
- **After change in product mix production quantity will remain same i.e. 3.0 TPD for manufacturing of synthetic Dye.**

D. Pollution load Details: -

Water & Wastewater Aspect: -

iv) Water consumption aspect before & after proposed change in Product Mix: -

Particular	As Per EC, CMD	Existing as Per CTO, CMD	After change in product mix, CMD
Process	61.50	40	29
Washing and other Activities			
Cooling Tower & Boiler (Utility)		1.5	1.5
Total Trade		**41.5**	**30.5**
Gardening		2.5	2.5
Domestic purpose		2.5	2.5 + 2*
Grand Total	**61.50**	**46.5**	**37.5**

- **After a change in product mix the, total process water consumption is proposed to be reduced by 11 CMD. *2 CMD water for domestic purpose will be required from proposed non-EC activity (Industry having CTE for mixing blending plant)**
- **After a change in product mix total water requirement will be reduced by 9 CMD.**

v) **Waste Water (Trade and Domestic effluent) aspects before & after proposed change in product mix: -**

Particular	As Per EC, CMD	Existing as Per CTO, CMD	After change in product mix, CMD
Process	50	22	21.77
Cooling Tower & Boiler (Utility)		1	1
Total Industrial		**23**	**22.77**
Domestic purpose		1.2	2.8*
Grand Total	**50**	**24.2**	**25.57**

- **After a change in product mix, Industry has proposed a decrease in the trade effluent by 0.23 CMD.**
- ***1.6 CMD domestic sewage will be generated from proposed non-EC activity (Industry having CTE for mixing blending plant)**

vi) **COD, BOD and TDS Pollution load existing and after proposed change in product mix: -**

Existing effluent characteristic: -

	From Process	From Utilities blowdown & washing
Flow (CMD)	**12 CMD**	**11 CMD**
Parameter	Kg/Day	Kg/Day
COD	1497.30	5.34
BOD	449.19	1.6
TDS	3059	8.47

After Product Mix Effluent characteristic:-

	From Process	From Utilities blowdown & washing
Flow (CMD)	**11.77 CMD**	**11 CMD**
Parameter	Kg/Day	Kg/Day
COD	682.30	5.34
BOD	204.69	1.6
TDS	1582.18	8.47

- **Average COD, BOD and TDS load after change in product mix is proposed to reduce by about 815 Kg/Day, 244.5 Kg/Day and 1476.82 Kg/Day respectively.**

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C) Treatment System: -

i) **Trade Effluent:** - Effluent Treatment Plant (ETP) of designed capacity of 30.00 CMD consisting of Primary (Collection tank, Neutraliazation tank, Flash mixer, Primary Clarifier/Primary Settling Tank), Secondary (Activated sludge process), Tertiary (Pressure sand filter, Activated carbon filter), Advanced treatment (Stripper, Multi effective evaporator followed by ATFD).

ii) **Sewage effluent:** - For Sewage Treatment provided Septic Tank followed by soak pit.

D) Air Emission Aspect: -

i) **Flue and process Gas Emissions: -**

Stack No.	Stack attached to	Stack height in meter	APCM	Before Change in product mix		After change in product mix	
				Parameter	Permissible limit	Parameter	Permissible limit
S -1	Boiler	18	Stack	TPM	50 mg/Nm3	TPM	50 mg/Nm3
				SO2	25.9 Kg/Day	SO2	25.9 Kg/Day
S-2	Spray Dryer	17	Dust Collector	TPM	50 mg/Nm3	TPM	50 mg/Nm3
				SO2	43.2 Kg/Day	SO2	43.2 Kg/Day
S - 3	D G Set	2.5	Acoustic enclosure	SO2	0.8 Kg/Day	SO2	0.8 Kg/Day
S-4	Process Reactor	15	Scrubber	HCl	< 35 Mg/Nm3	HCl	< 35 Mg/Nm3
S-5	Process Reactor	15	Scrubber	Ammonia	< 15 Mg/Nm3	Acid Mist	< 15 Mg/Nm3

- **Industry has not proposed any changes in the steam requirements. The fuel consumption of the boiler will remain the same.**

E) Hazardous Waste Aspect: -

Sr. No.	Type of Hazardous Waste	Category No. (As per Schedule)	Before Product Mix	After Product mix	Unit	Mode of treatment & Disposal
1	Chemical Sludge from Waste Water Treatment Plant.	35.3	10	10	Kg/D	CHWTSDF
2	Process waste sludge/residues containing acid, toxic metals, organic compound	26.1	10	0	Kg/D	CHWTSDF
3	Concentration or evaporation residue	37.3	0	10	Kg/D	CHWTSDF

After change in product mix hazardous waste quantity will not exceed.

Technical Committee Deliberation: -

The project proposal was discussed based on presentation made and documents - NIPL Certificate, NIPL proforma and Power Point presentation submitted by the proponent. Product wise load calculation in terms of wastewater, Air Emissions & Hazardous Waste generations were discussed. Existing Consent to Operate, Environmental Clearance, No Increase in Pollution Load certificate issued by M/s Sadekar Enviro Engineers Private Limited and product-mix proforma are taken on the record.

Committee after due deliberation noticed that: -

1) Industry has proposed change in product mix by decreasing the capacity of existing 2 Nos. of products & introducing 02 Nos. of new products under the same category.
2) After Change in product mix total production quantity will remain same i.e. 3 TPD for manufacturing of synthetic Dye.
3) After a change in product mix the Total process water consumption is proposed to be reduced by 09 CMD.
4) After a change in product mix Industry has proposed a decrease in the trade effluent by 0.23 CMD after change in product mix.
5) Average COD, BOD and TDS load after change in product mix is proposed to reduce by about 815 Kg/Day, 244.5 Kg/Day and 1476.82 Kg/Day respectively.
6) Industry has not proposed any changes in the steam requirements. The fuel consumption of the boiler will remain the same.
7) After change in product mix hazardous waste quantity will not exceed.

Technical Committee Decision: -

Technical Committee decided to recommend the case for change in product mix based on "No Increase in Pollution Load" as per the provision of EIA notification 2006 with compliance of the following conditions;

1) Industry shall comply with all the conditions stipulated in Environmental Clearance and ensure display/upload of six-monthly compliance monitoring report on their official website.
2) Industry shall ensure connectivity of OCEMS data to Board server.
3) Industry shall ensure disposal of Hazardous Waste to the actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.
4) The condition shall be imposed as "If any submission of misleading information including NIPL certificate is noticed, then the consent issued under MoEF & CC Product Mix Circular dtd. 02.03.2021 and amendments thereto will stand

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MAHARASHTRA POLLUTION CONTROL BOARD

Agenda item No	**No. 6**
Proposal No.	**MPCB-CONSENT-0000209928**
Project Details	M/s. Lupin Limited, Tarapur Survey No- 30/10 to 30/13 &64/7 T-142 MIDC Tarapur Palgha
NIPL Certificate	NIPL certificate issued by

This case was wrongly listed for this NIPL meeting. It was earlier discussed in the 2nd Technical Committee meeting of 2024-2025 held on 19/04/2024. Hence this entry is duplicate.

Agenda item No	**Item No. 7**
Proposal No.	**MPCB-CONSENT-0000211279 dated – 30.05.2024**
Project Details	**M/s. Anshul Innovative Chemistry Private Limited. Plot No. 21/2, MIDC Roha Industrial Area, Tal-Roha, Dist. – Raigad. 402116.**
NIPL Certificate	**NIPL certificate dated 31.07.2024 issued by Environmental Auditor Institute of Chemical Technology,**

Introduction:

This has reference to the online proposal submitted vide No.MPCB-CONSENT-0000211279, Dated 30-May-2024 along with copies of documents seeking amendment in CTO with Change in Product Mix under the provisions of EIA Notification 2006, 14 September 2006, further amended Gazette no. S.O. 3518(E) dated 23 November 2016, S.O. 980 (E) 2nd March 2021, MOEF& CC office memorandum vide F.No. IA3-22/10/2022-IA.III (E 177258) dated 11th April 2022.

Industry has obtained consent to operate on 21.03.2023. Industry has requested for amendment in consent to operate under change in product mix. Accordingly, NABET Accredited Environmental Auditor Institute of Chemical Technology presented the case in the 4th Technical Committee meeting dt 25th October 24.

Existing Clearances:

1. Environmental Clearance is accorded to the industry vide no. EC22A017MH156930 on 28th Nov 2022 & File No. J-1101/353/2016-IA.II(I) covering production of Chemical & Agro Chemical Intermediates Manufacturing is 33966 MT/A.
2. The consent to operate from the Board for the production of 33966 MTA from MPCB consent No. Format 1.0/AS(T)/UAN No.0000158920/CO/2303001536 dated 21.03.2023, valid up to 31.12.2026 for manufacture of Chemical & Agro Chemical Intermediates.
3. M/s. Anshul Innovative Chemistry Private Limited applied for amendment of CTO vide application No. MPCB-CONSENT-0000211279 dated – 30.05.2024 with change in product mix by reducing the overall capacity from 33966 MTA to 33965 MTA.

Project Details:
Production Details:-

Sr.No.	Products	Quantity as per EC in MTA	Quantity as per existing CTO in MTA	Proposed quantity as per CIPM in MTA	Remarks as per EC
1	2-Cyanoaniline	60	60	60	No Change
2	Isatoic Anhydride	3005	3005	2205	Reduction
3	Anthranilic Acid	400	400	400	No Change
4	Methyl Anthranilate	2000	2000	1200	Reduction
5	Dimethyl Anthranilate	200	200	200	No Change
6	Butyl Anthranilate	100	100	100	No Change
7	HCl (32%)	20486	20486	19763	Reduction
8	Anthranilamide	240	240	240	No Change
9	Dibromoester	80	80	80	No Change
10	Oxalyl Chloride	2400	2400	1800	Reduction
11	Chloromethyl Isopropyl Carbonate	1200	1200	600	Reduction
12	Methyl Oxalyl Chloride	300	300	300	No Change
13	Hypochlorite	354	354	2427	Increase
14	2-Chloro Acetamide(2CAA)	300	300	300	No Change
15	2-[N-(2-Aminobenzoyl)]-Amino Benzoic Acid	72	72	72	No Change
16	Tri-Chloro Acetamide(TCA)	72	72	72	No Change
17	Hexabromobenzene	120	120	120	No Change
18	2[2-(Hydroxy Benzoyl)Amino Benzoic Acid(HBAB)	60	60	60	No Change
19	Naphthalene 2-Sulfonyl Chloride	72	72	72	No Change
20	3,5-Xylenol	1200	1200	500	Reduction
21	P-Chloro Meta Xylenol	600	600	400	Reduction
22	Tetra Methyl Bis-Phenol-F(TMBP-F)	600	600	600	No Change
23	Dimethyl Oxalate	45	45	45	No Change
24	1-Chloroethyl chloroformate (CECF)	0	0	60	Added
25	1-Chloroethyl isopropyl carbonate (CEIC)	0	0	120	Added
26	1-Chloroethyl methyl carbonate (CEMC)	0	0	120	Added
27	Chloroethyl cyclohexyl carbonate (CECC)	0	0	60	Added

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28	Ditertary butyl dicarbonate (DIBOC)	0	0	60	Added
29	Chloromethyl methyl carbonate (CMMC)	0	0	60	Added
30	4-Fluoro benzoyl chloride (4-FBC)	0	0	120	Added
31	Cis-3-Hexynyl methyl carbonate (HMC)	0	0	60	Added
32	Tri chloro acetyl chloride (TCAC)	0	0	200	Added
33	2-Hydroxy cinchoninic acid (HCCA)	0	0	12	Added
34	4-Chloro benzoyl chloride(4-CBC)	0	0	100	Added
35	(Chloro methyl) Trimethyl silane (CMTMS)	0	0	120	Added
36	2,4-Dichloro benzoyl chloride(2,4-DCBC)	0	0	120	Added
37	Ortho chloro benzo nitrile (OCBN)	0	0	120	Added
38	Para chloro benzo nitrile (PCBN)	0	0	113	Added
39	4-Chloro benzo phenone(4-CBP)	0	0	180	Added
40	Glyeine ethyl ester hydrochloride (GEEHCl)	0	0	63	Added
41	Lithuium difluoro phosphate (LDFP)	0	0	61	Added
42	Dimethyl Sulfomoyl Chloride (DMSC)	0	0	240	Added
43	4-Chlorophthalic anhydride (4-CPA)	0	0	60	Added
44	Phthalimide	0	0	300	Added
	Total	33966	33966	33965	

- **Industry has proposed a change in the product mix in its existing facility by increase in production capacity of 1 no. of product, reduction in production quantity of 7 nos. of products and introducing 21 nos. of new products and no change in existing 15 nos of products. Thus, there is change in overall production quantity from 33966 MTA to 33965 MTA.**

Water Pollution Load Details:

i) **Water Aspects**:

Sr. No.	Water Consumption	As per EC in (CMD)	As CTO in (CMD)	After change in product mix in CMD
1	Process	228	228	227.0
2	Scrubber	64	64	64
3	Washing	16	16	16
4	Garden	33	33	33
5	Cooling	199	199	199
6	Boiler	140	140	140
7	Ejector	10	10	10

8	Domestic	10	10	10
	Total	**700**	**700**	**699**

- **Water consumption in the process is proposed to be reduced by 1.0 CMD after proposed change in product mix.**

Wastewater Aspects :

Effluent Generation	As per EC (CMD)	Existing as per CTO (CMD)	After proposed change in product mix (CMD)
Industrial			
Process + APCM	327	327	326
Boiler			
Cooling			
Gardening	0	0	0
Other	0	0	0
Total Industrial	**327**	**327**	**326**
Domestic	7	7	7
Total	**334**	**334**	**333**

- **Trade effluent generation is proposed to reduce by 1.0 CMD compared to EC after a change in the proposed product mix.**

ii) Pollution Load with respect to the changes proposed:

Sr. No	Description		As per EC	Existing as per CTO	After NIPL
1	Process Effluent (COD & TDS)	Hydraulic Load	327	327	326
		COD Load	Not Mentioned in EC	1739.86 Kg/Day	1738.68 Kg/Day
		TDS	Not Mentioned in EC	12639.96 Kg/Day	12040.43 Kg/Day

- **COD load will reduce by 1.18 Kg/Day & TDS load will reduced by 599.53 Kg/Day after change in product mix.**

iii) Effluent Treatment System :

Trade Effluent :

a) **Strong COD/TDS stream** - Treatment system comprising of Primary (Collection tank, Neutralization tank, Equalization tank, Primary Clarifier/Primary Settling Tank), Multi effect evaporator with design capacity of 200 CMD. The strong stream generated from process is 74 CMD and the reject from RO system is 110.2 CMD. Thus overall strong stream is 184.2 CMD.

b) **Weak COD/TDS stream** - Treatment system comprising of Primary (Collection tank, Neutralization tank, Equalization tank, Primary Clarifier/Primary Settling Tank), Secondary (Activated sludge process), Tertiary (Pressure sand filter, activated carbon filter), Advance treatment (Reverse osmosis-290 CMD), the RO permit shall be recycled into the process. The weak stream is 259 CMD and after sending to RO system the quantity is 141.8 CMD. RO reject send to the MEE to achieve the Zero Liquid Discharge).

c) **Domestic Effluent :** The domestic effluent is treated along with the trade effluent in ETP.

iv) Air Emission Aspect:-

Sr.No.	Description	As per EC	Existing as per CTO	After NIPL	Remarks
Fuel Consumption Details.					
1	Boiler-I (5.0 TPH)	Briquettes	21.40	21.40	No Change.
		OR Coal	13.35	13.35	
	Boiler-2 (3.0 TPH) & Boiler-3 (3.0 TPH) [Standby]	Briquettes	12.82	12.82	
		OR Coal	7.80	7.80	
2	Thermic Fluid Heater	Coal	3.00	3.00	No Change.
3	OC Plant	--	---	---	No Change.
4	MPP-1/MOC Plant caustic scrubber	--	--	--	No Change.
5	Emergency Scrubber	----	---	---	No Change.
6	Chlorine EME system	--	--	--	No Change.

7	D.G. Set (500KVA)	HSD	90 (Lit/Day)	90 (Lit/Day)	No Change.
8	D.G. Set (500KVA)	HSD	160 (Lit/Day)	160 (Lit/Day)	No Change.

Process Emission Aspects:

Stack No.	Stack attached to	Stack height (m)	APCM	Before Change in product Mix			After change in product mix		
				Parameter	Permissible limit		Parameter	Permissible limit	
S-1	Boiler-I (5.0 TPH)	31.0	Pulse Jet Bag Filter along with Multi Cyclone Dust Collector	TPM	50	Mg/Nm3	TPM	50	Mg/Nm3
				SO2	25.68	Kg/Day	SO2	25.68	Kg/Day
	Boiler-2 (3.0 TPH) & Boiler-3 (3.0 TPH) [Standby]		Pulse Jet Bag Filter along with Multi Cyclone Dust Collector	TPM	50	Mg/Nm3	TPM	50	Mg/Nm3
				SO2	133.5	Kg/Day	SO2	133.5	Kg/Day
				TPM	50	Mg/Nm3	TPM	50	Mg/Nm3
				SO2	15.384	Kg/Day	SO2	15.384	Kg/Day
				TPM	50	Mg/Nm3	TPM	50	Mg/Nm3
				SO2	78	Kg/Day	SO2	78	Kg/Day
S-2	OC Plant	9.0	Scrubber	HCl	30	Mg/Nm3	HCl	30	Mg/Nm3
				Cl2	3	PPM	Cl2	3	PPM
				NH3	30	Mg/Nm3	NH3	30	Mg/Nm3
S-3	MPP-1/MOC Plant caustic scrubber	3.0	Scrubber	HCl	30	Mg/Nm3	HCl	30	Mg/Nm3
				Cl2	3	PPM	Cl2	3	PPM
				NH3	30	Mg/Nm3	NH3	30	Mg/Nm3
				NOx	50	PPM	NOx	50	PPM
S-4	Emergency Scrubber	25.0	Ventury Scrubber with blower	HCl	30	Mg/Nm3	HCl	30	Mg/Nm3
				Cl2	3	PPM	Cl2	3	PPM
				NH3	30	Mg/Nm3	NH3	30	Mg/Nm3
				NOx	50	PPM	NOx	50	PPM

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S-5	Chlorine EME system	20.0	Ventury Scrubber with blower	HCl	30	Mg/Nm3	HCl	30	Mg/Nm3
				Cl2	3	PPM	Cl2	3	PPM
				NH3	30	Mg/Nm3	NH3	30	Mg/Nm3
				NOx	50	PPM	NOx	50	PPM
S-6	D.G. Set (500KVA)	8.0	Acoustic Enclosure	TPM	50	Mg/Nm3	TPM	50	Mg/Nm3
				SO2	0.6	Kg/Day	SO2	0.6	Kg/Day
S-7	D.G. Set (500KVA)	7.0	Acoustic Enclosure	TPM	50	Mg/Nm3	TPM	50	Mg/Nm3
				SO2	1.08	Kg/Day	SO2	1.08	Kg/Day
S-8	Thermic Fluid Heater	19.0	Multi Cyclone Dust Collector	TPM	50	Mg/Nm3	TPM	50	Mg/Nm3
				SO2	30	Kg/Day	SO2	30	Kg/Day

- **Industry has not proposed any changed in Boiler configuration**

v) Hazardous Waste Load :-

Sr. No.	Category	Hazardous waste Description	As per E.C (TPA)	Existing CTO (TPA)	As per CIPM (TPA)	Disposal	Remarks
1	20.3	Distillation Residue	997	997	992.8	Sent to Co-processing through authorised Pre-processor/CHWTSDF	Reduction by 4.2 TPA
2	37.3	Concentration or evaporation Residue	4614	4614	4394.6	Sale to authorised party / CHWTSDF	Reduction by 219.4 TPA
3	20.2	Spent Solvent	105	105	97.455	CHWTSDF	Reduction by 7.545 TPA
4	28.1	Process Residue & wastes	111	111	111	Sent to Co-processing through authorised Pre-processor/CHWTSDF	No Change
5	35.3	Chemical Sludge from waste water treatment	351	351	351	Sent to Co-processing through authorised	No Change

						Pre-processor/CHWTSDF	
6	33.1	Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	30000 Nos./Y	30000 Nos./Y	30000 Nos./Y	Sale to authorised party / CHWTSDF	No Change
7	33.2	Contaminated cotton rags or other cleaning materials	5	5	5	CHWTSDF	No Change
8	5.1	Used or Spent oil	5	5	5	Sale to authorised party / CHWTSDF	No Change

- **After a change in proposed mix the Hazardous waste categories 20.3 Distillation Residue is Reduction by 4.2 TPA, 37.3 Concentration or evaporation Residue is Reduction by 219.4 TPA and 20.2 Spent Solvent is Reduction by 7.545 TPA.**
-

Technical Committee Deliberations:

- The proposed project was discuss based on documents – NIPL Certificate and presentation made by the industry. Product-wise load calculation in terms of waste water, Air Emissions & Hazardous waste generation were discussed. Existing consent to operate, Environment Clearance, NIPL Certificate issued by Institute of Chemical Technology NABET accredited Environmental Auditor.

After Deliberations, Committee noticed that:

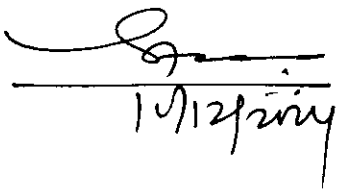
- Industry has proposed a change in the product mix in its existing facility by increase in production capacity of 1 nos. of products, reduction in production quantity of 7 nos. of products and introducing 21 nos. of new products. Thus, there is change in overall production from 33966 MTA to 33965 MTA.
- Water consumption in the process is proposed to be reduced by 1.0 CMD after proposed change in product mix. Trade effluent generation is proposed to reduce by 1.0 CMD after a change in the proposed product mix.
- The industry has segregated high TDS / high COD streams of effluent The strong stream generated from process is 74 CMD and the reject from RO system is 110.2 CMD. Thus overall strong stream is 184.2 CMD. The weak stream is 259 CMD and after sending to RO system the quantity is 141.8 CMD. RO reject send to the MEE to achieve the Zero Liquid Discharge.
- Industry has effluent treatment plant for treatment of low COD/low TDS effluent comprising of Primary, Secondary & Tertiary treatment of design capacity 375 CMD. The primary treated sewage is connected to ETP for further treatment.
- After the proposed change in product mix COD load will reduce
- by 1.18 Kg/Day & TDS load will reduced by 599.53 Kg/Day after change in product mix.

- After a change in proposed mix the Hazardous waste categories 20.3 Distillation Residue is Reduction by 4.2 TPA, 37.3 Concentration or evaporation Residue is Reduction by 219.4 TPA and 20.2 Spent Solvent is Reduction by 7.545 TPA.

The Technical Committee Decision:

- The technical committee decided to recommend the case for change in product mix with the compliance of the following conditions:

1. Industry shall comply with all the conditions stipulated in Environmental Clearance and ensure display/upload of six-monthly compliance monitoring report on their official website.
2. Industry shall ensure connectivity of OCEMS data to Board server.
3. Industry shall comply with mechanism for Environmental management prepared by Central Pollution Control Board for CEPI listed areas, as industry falls under Severely Polluted Area (SPA) of CEPI.
4. Industry shall achieve TPM-50 mg/NM3 being the unit is in CEPI area as per MPC Board policy and accordingly consent shall be amended for the stringent standards.
5. Industry shall ensure disposal of Hazardous Waste to the actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.
6. The condition shall be imposed as "If any submission of misleading information including NIPL certificate is noticed, then the consent issued under MoEF & CC Product Mix Circular dtd. 02.03.2021 and amendments thereto will stand automatically cancelled."
7. Industry shall not manufacture other products for which permission is not granted by the MPCB.



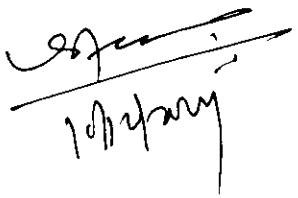
Agenda Item No.	**8**
Proposal No.	**MPCB-CONSENT-0000213780**
Project Details	**Twentyone Sugars Limited** Gat No: 75,76,77,78,79,88,90,99 & 102, Malwati Kasarkheda Road, Village Malwati, Tehsil Latur, District Latur, State Maharashtra.
NIPL Certificate	NIPL Certificate issued By Element Consultancy Services

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000213780 along with the copies of documents seeking consent to renewal along with enhancement in existing RS/ENA production from 100 KLD to 150 KLD or AA/Ethanol from 200 KLD to 250 KLD (Increase by 50 KLD) by changing raw material from C molasses to Syrup/Cane Juice and B- Heavy Molasses under the provisions of EIA Notification 2006 amended on 23/11/2016 & amended on 02/3/2021. The industry is having presently dedicated manufacturing lines for manufacture of alcohol (RS/ENA) by using C- Molasses. Accordingly, Twentyone Sugars Limited obtained the consent to operate for distillery unit for 200 KLPD capacity vide consent no::- Format1.0/CAC/UAN No. MPCBCONSENT-0000164026/CO/2311000961 dated 10.11.2023

Existing Clearances:

1. Company has obtained the Environmental Clearance for expansion of their sugar unit from 4500 TCD to 7500 TCD and Co-generation plant from 14.5 MW to 40 MW; along with Establishment of New C molasses based distillery of 100 KLPD Capacity vide no: SIA/MH/IND2/54869/2017 dated 30.04.2021.
2. Subsequently in year 2022, company went for expansion for their distillery unit from 100 KLD to 200 KLD and Sugar unit expansion from 7500 TCD to 10000 TCD and Cogeneration expansion from 40 MW to 50 MW under EBP Program (Vide EC no: EC22A022MH182156 dated 11.09.2022).
3. The unit has obtained consent to operate for distillery unit for 200 KLPD capacity vide consent no::- Format1.0/CAC/UAN No. MPCBCONSENT- 0000164026/CO/2311000961 dated 10.11.2023



Project Details:

The industry is having presently distillery units for manufacture of alcohol (RS/ENA/AA/Ethanol) by using C-Molasses as raw materials. Accordingly, industry has obtained combined Consent to Operate for RS/ENA production of 100 KLD or AA/Ethanol of 200 KLD C-Molasses based distillery unit.

Now the unit has proposed to enhance their production of RS/ENA from 100 KLD to 150 KLD or AA/Ethanol from 200 KLD to 250 KLD by changing raw material from C- molasses to Syrup/Cane Juice and B- Heavy Molasses in their existing molasses base distillery plant. The existing permission for RS/ENA production of 100 KLD or AA/Ethanol of 200 KLD based on C-Molasses based distillery unit will be retained.

C. Product Details:

Sr. No	List of products/by-products permitted under EC and CTO	Quantity permitted under EC	Unit	List of products/by-products proposed	Quantity proposed	Unit	Remark
1	Rectified Spirit/ Extra Neutral Alcohol	100 (Using C Molasses)	KLD	Rectified Spirit/ Extra Neutral Alcohol	150 (Using B Molasses or Syrup/cane juice)	KLD	Increased by 50 KLD
				Or			
				Rectified Spirit/ Extra Neutral Alcohol	100 (Using C Molasses)	KLD	Remain unchanged
Or							
1	AA/ Ethanol	200 (Using C Molasses)	KLD	AA/Ethanol	250 (Using B Molasses or Syrup/cane juice)	KLD	Increased by 50 KLD
				Or			
				AA/ Ethanol	200 (Using C Molasses)	KLD	Remain unchanged

2	CO2	70	TPD	CO2	87.5	TPD	Increase by 17.5 TPD
3	Fusel Oil	0.5	KLD	Fusel Oil	0.75	KLD	Increased by 0.25 KLD
4	Potash Rich Powder from Incineration Boiler	55.49	TPD	Potash Rich Powder from Incineration Boiler	34.67 (During B Molasses based production) 17.21 (During Syrup based production)	TPD	Reduced by 24.24 TPD due to change in feedstock resulting in lesser spent wash generation

- **CO_2 Gas is sent to Bottling Plant of capacity 87.5 MT/D.**
- **After NIPL, total alcohol production will be 250 KLD (Max)**
- **Existing consented permission will be retained**

D. Pollution load Details:

(v) Details of Water Consumption

Purpose	Existing water Consumption in CMD (C Molasses Based Production: 200 KLD)	Proposed water Consumption in CMD (B Molasses Based Production: 250 KLD)	Proposed water Consumption in CMD (Syrup Based Production: 250 KLD)	Proposed Additional Water Consumption	Remark
Manufacturing Process	1051.14	858.87	490	No additional water required	Treated water will be used in Plant and The boiler condensate will be recycled
CO2 Bottling plant	202.86	202.86	202.86		
Boiler	898	898	898		
Cooling	552	552	552		
Greenbelt	10	10	10		
Other	0	0	0		

Total Industrial	**2714**	**2521.73**	**2152.86**		
Domestic	50	50	50		
Total	**2764**	**2571.73**	**2202.86**		

- **Industrial Water consumption is proposed to be reduced by 192.27 CMD for B Molasses Based Production and by 561.14 CMD for Syrup Based Production after proposed change in product mix.**

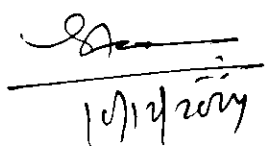
After recycling the water the net fresh water requirement will be as below:

S. No	Particular	Quantity in CMD		
		C Molasses Based Production (200 KLD)	**B Molasses Based Production (250 KLD)**	**Syrup Based Production (250 KLD)**
A	Total water consumption (Distillery+ Domestic)	2764	2571.73	2202.86
B	Treated water recycled from CPU	1220.8	1179.4	1155.3
C	Treated water recycled from STP	43	43	43
D	Boiler condensate	826.16	826.16	826.16
E	**Net Fresh water requirement E= A-(B+C+D)**	**674.04 (3.37 KL/KL)**	**523.17 (2.09 KL/KL)**	**178.4 (0.713 KL/KL)**

Details of Effluent Generation: -

Propose	Existing Effluent Generation in CMD (C Molasses Based Production: 200 KLD)	Effluent Generation after Proposed change in product mix in CMD (B Molasses Based Production: 250 KLD)	Effluent Generation after Proposed change in product mix in CMD (Syrup Based Production: 250 KLD)	Remark
Spent wash	1144.35	918.2	794	To MEE followed by Incineration Boiler. The condensate from MEE will be treated in CPU
Spent Lees	264.05	327.2	325.4	To CPU
Boiler	17.96	17.96	17.96	To CPU
Cooling tower	91	91	91	To CPU
Total Industrial	**1517.36**	**1354.36**	**1228.36**	-
Domestic	**43.2**	**43.2**	**43.2**	To STP

- **Industrial effluent generation will be reduced by 163 CMD for B Molasses Based Production and by 289 CMD for Syrup Based Production after proposed change in product mix**



Pollution Loads for Principle Effluent (Spent wash) in Existing 200 KLPD Molasses Distillery & 250 KLPD Syrup/Cane Juice and B-Heavy Molasses based Distillery after Change in Raw Material

Sr. No	Parameter	For 200 KLD Distillery on C Molasses (EC/CTO Permission)			For 250 KLD Distillery on B Molasses			% Reduction	For 250 KLD Distillery on Syrup			% Reduction
		Conc. mg/L	Generation rate in KLD	Load in Kg/Day	Conc. mg/L	Generation rate in KLD	Load in Kg/Day		Conc. mg/L	Generation rate in KLD	Load in Kg/Day	
1	COD	120000	1144.35	137322	80000	918.20	73456	46.51	45000	794	35730	73.98
2	BOD	60000		68661	40000		36728	46.51	22000		17468	74.56
3	TDS	120000		137322	90000		82638	39.82	43000		34142	75.14
4	SS	30000		34330.5	20000		18364	46.51	7000		5558	83.81
5	TS	150000		171652.5	110000		101002	41.16	50000		39700	76.87

- **COD load of Spent wash will be reduced by 46.51% for B Molasses Based Production and by 73.98% for Syrup Based Production after proposed change in product mix.**

Pollution Loads for MEE Condensate, Spent Lees and Blowdown Effluent in Existing 200 KLPD Molasses Distillery & 250 KLPD Syrup/Cane Juice and B-Heavy Molasses based Distillery after Change in Raw Material

Sr. No	Parameter	For 200 KLD Distillery on C Molasses (EC/CTO Permission)			For 250 KLD Distillery on B Molasses			% Reduction	For 250 KLD Distillery on Syrup			% Reduction
		Conc. mg/L	Generation rate in KLD	Load in Kg/Day	Conc. mg/L	Generation rate in KLD	Load in Kg/Day		Conc. mg/L	Generation rate in KLD	Load in Kg/Day	

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1	COD	2085.62	1347.19	2809.73	2096.81	1298.30	2722.29	3.11	2097.45	1271.30	2666.49	5.10
2	BOD	631.77		851.11	588.60		764.18	10.21	584.95		743.64	12.63
3	TDS	1182.04		1592.44	1204.79		1564.18	1.77	1221.74		1553.20	2.46
4	SS	156.39		210.69	160.96		208.97	0.82	163.53		207.89	1.33
5	TS	1229.96		1656.99	1240.93		1611.10	2.77	1260.91		1603.00	3.26

- **COD load of MEE Condensate, Spent Lees and Blowdown Effluent will be reduced by 3.11% for B Molasses Based Production and by 5.1% for Syrup Based Production after proposed change in product mix.**
- Total actual spent wash generation under existing operations is- 1144.35 CMD (C- Molasses based distillery) . After a change in raw material under NIPL the total spent wash generation will reduce to- 794 CMD during Syrup/Cane Juice based production and 918.20 CMD during B-heavy molasses based production.

Treatment System:

b. Trade effluent Treatment:

a. HCOD/HTDS: The spent wash from analyzer column will be partially recycled back in the process and the remaining will be treated in MEE and concentrated up to 60% W/V, the vapor from the MEE will be condensed and will be sent to the CPU unit of 1350 CMD capacity

b. LCOD/LTDS: Effluent from Boiler cooling tower blowdown, MEE condensate, Spent Lees is being treated in CPU of 1350 CMD capacity, the entire treated effluent is being used in Process and Cooling tower to achieve ZLD.

c. STP of 50 CMD Capacity is provided for the treatment of sewage effluent

(vi) Air Emission Load:

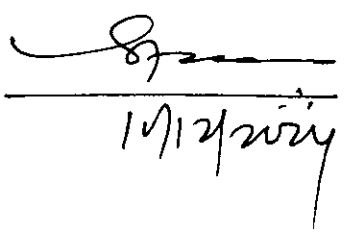
a) Fuel consumption details

Sr. No.	Stack Attached to	Fuel	During C Molasses based Production	During B Molasses based Production	During Syrup based Production	Stack Height
1.	50 TPH Incineration Boiler	Concentrated Spent Wash	297 KL/D (341.55 TPD)	175.35 KLD (201.65 TPD)	73.28 KLD (84.272 TPD)	70 meter
		Bagasse	4.82 TPD	130.02 TPD	236.14 TPD	

b) Air Pollution load

Parameters :		During C Molasses based Production	During B Molasses based Production	During Syrup based Production	Remark
Concentrated Spent Wash Burning Rate	297 KL/D (341.55 TPD)	175.35 KLD (201.65 TPD)	73.28 KLD (84.272 TPD)	Concentrated Spent Wash Burning Rate	Consented Load for SO2 is 1267 Kg/Day
Sulfur Content	0.2%	0.2%	0.2%	Sulfur Content	
SO2 Generation Rate (A)	**1188 Kg/Day**	**806.61 Kg/Day**	**337.09 Kg/Day**	**SO2 Generation Rate (A)**	
AND					
Bagasse Burning Rate	4.82 TPD	130.02 TPD	236.14 TPD	Bagasse Burning Rate	
Sulfur Content	0.02%	0.02%	0.02%	Sulfur Content	
SO2 Generation Rate (B)	**1.929 Kg/Day**	**52.0069 Kg/Day**	**94.4572 Kg/Day**	**SO2 Generation Rate (B)**	
Total SO2 Generation (A+B)	**1189.92 Kg/Day**	**858.61 Kg/Day**	**431.54 Kg/Day**	**Total SO2 Generation (A+B)**	

- Existing Incineration boiler will be used for proposed activity.
- Industry has proposed to stop use of Coal as fuel to the Boiler.
- CO2 Bottling plant will be provided.
- **SO2 emission load will be reduced by 77.08 Kg/Day for C Molasses Based Production, 408.39 Kg/Day for B Molasses Based Production and by 835.46 for Syrup Based Production after proposed change in product mix.**



(vii) Solid Waste Load:

Sr. No.	Description	During C Molasses based Production	During B Molasses based Production	During Syrup based Production	Remark
1	Ash from 50 TPH Incineration Boiler	55.49 TPD	34.67 TPD	17.21 TPD	Sold to farmers or fertilizer industry as potash rich manure
2	STP/CPU Sludge	0.25 TPD	0.25 TPD	0.25 TPD	Used as Manure

- **Total Solid Waste load under existing operations 55.49 MT/D will get reduced after raw material to 17.21 MT/D during syrup based production and 34.67 TPD during B-heavy molasses based production.**

Technical Committee Deliberations:

The project proposal was discussed based on presentation made and documents- NIPL Certificate, NIPL proforma submitted by the proponent. Product wise load calculation in terms of wastewater and Air Emissions were discussed. Existing Consent to Operate, Environmental Clearance, No Increase in Pollution Load certificate issued by Element Consultancy Services and product-mix proforma are taken on the record.

After due deliberations Committee noticed that:

(i) Industry has proposed to enhance their production of RS/ENA from 100 KLD to 150 KLD or AA/Ethanol from 200 KLD to 250 KLD by changing raw material from C- molasses to Syrup/Cane Juice and B- Heavy Molasses in their existing molasses base distillery plant. The existing permission for RS/ENA production of 100 KLD or AA/Ethanol of 200 KLD based on C-Molasses based distillery unit will be retained

(ii) Industrial Water consumption is proposed to be reduced by 192.27 CMD for B Molasses Based Production and by 561.14 CMD for Syrup Based Production after proposed change in product mix.

(iii) Industrial effluent generation will be reduced by 163 CMD for B Molasses Based Production and by 289 CMD for Syrup Based Production after proposed change in product mix

(iv) SO2 emission load will be reduced by 77.08 Kg/Day for C Molasses Based Production, 408.39 Kg/Day for B Molasses Based Production and by 835.46 for Syrup Based Production after proposed change in product mix.

(v)

Technical Committee Decision:

- The technical committee decided to recommend the case for change in product mix with the compliance of the following conditions:

1. Industry shall comply with the conditions stipulated in Environmental Clearance & ensured display / upload of six-monthly compliance monitoring report on their official website.
2. Industry shall not manufacture other products for which permission is not granted by the MPCB.
3. Industry shall ensure the connectivity of the OCEMS data to the Board servers.
4. Industry shall comply with all the conditions stipulated in Environmental Clearance and ensure display/upload of six-monthly compliance monitoring report on their official website.
5. The condition shall be imposed as "If any submission of misleading information including NIPL certificate is noticed, then the consent issued under MoEF & CC Product Mix Circular dtd. 02.03.2021 and amendments thereto will stand automatically cancelled."

Agenda item No	**No. 9**
Proposal No.	CTO Application, UAN No.: MPCB-CONSENT-0000215826 Dated 16-July-2024
Project Details	**M/s. Sumitomo Chemical India Ltd,** T-113,137,138 & 251 MIDC Tarapur Area Boisar, Dist. Palghar Maharashtra
NIPL Certificate	NIPL Certificate issued by M/s. Aditya Environmental Services Private Limited vide letter ref AESPL/NIPL/24-25/03 dated 18.07.24

Introduction:

This has reference to the online proposal submitted vide No. CTO Application, UAN No.: MPCB-CONSENT-0000215826 along with the various annexures, seeking amendment in existing Consent to operate for change in product-mix (without expansion) as per the provisions of EIA Notification 2006 amended on 23-Nov-16 and 02.03.2021.

Existing Environment Clearances (EC):

1. File no J-11011/160/2011-IA -II (I) (Pt) dated 31st January2017 in the name of SC Enviro Agro India Pvt. Ltd. wherein total technical grade pesticide manufacturing capacity permitted is 4128 MTPA
2. File no J-11011/160/2011-IA -II (I) (Pt) dated 14th December2017 – EC transfer letter (amalgamation of SC Enviro Agro India Pvt. Ltd. with Sumitomo Chemical India Pvt. Ltd)
3. File no J-11011/160/2011-IA -II (I) (Pt) dated 12th October 2018 correction/Amendment letter, wherein total Technical grade pesticide manufacturing capacity is 4128 MTPA
4. File no J-11011/160/2011-IA -II (I) (Pt) dated 8th January2021 transfer of EC in the name of Sumitomo Chemical India Ltd (change from Private Limited Company to Public Limited Company)
5. MPCB granted Consent to Operate to M/s. Sumitomo Chemical India Ltd, T-113,137, 138 & 251 MIDC Tarapur Area Boisar, Dist. Palghar, Maharashtra vide CONSENT NO - UAN No Format1.0/CC/UAN No.0000165899/CO/2311000700 dated 08/11/2023 valid up to 31/05/2028 for manufacture of various Pesticides totaling 4128 MTPA as listed below.

Project Details:

SCIL proposes to add Chlorantraniliprole Technical (120 MTPA) as new product & reduction of Esbiothrin Technical by 120 MTPA, keeping all other existing products & their tonnage unchanged. Thus, post proposal the total products tonnage will remain the same (4128 MTPA)- The new product will be manufactured in the existing manufacturing facility & no additional capital investment is proposed.

A. Products with change in product mix as below:

S. No	Existing products/by products	Production Quantity MTPA			Remarks
		#Existing as per CTO	Proposed change	After Change in Product Mix	
1	d Phenothrin Technical	600	0	600	No change
2	Cyphenothrin Technical	528	0	528	No change
3	Bioallethrin Technical	180	0	180	No change
4	Esbiothrin Technical	480	-120	360	Reduction of tonnage
5	S-Bioallethrin Technical	180	0	180	No change
6	Cypermethrin Technical	50.4	0	50.4	No change
7	Fenvalerate Technical	50.4	0	50.4	No change
8	Prallethrin Technical	129.6	0	129.6	No change
9	Fenpropathrin Technical	1669.2	0	1669.2	No Change
10	Pyriproxyfen Technical	200.4	0	200.4	No change
11	Dimefluthrin Technical	60	0	60	No change
12	Chlorantraniliprole Technical	0	+120	120	New Product
	TOTAL	**4128**	**0**	**4128**	**No change in total tonnage**

- **Industry has proposed a change in the product mix in its existing facility by reduction in production quantity of 1 nos. of products and introducing 1 nos. of new products and no change in existing 10 nos of products. Thus, there is no change in overall production quantity of 4128 MT/A.**

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B. Pollution load Details:

(i) Water & Wastewater Aspect:

a. Before Product Mix

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD (Strong)		COD (Weak)		TDS (Strong)		TDS (Weak)	
			Strong	Weak	mg/l	Kg/ day	mg/l	Kg/ day	mg/l	Kg/ day	mg/l	Kg/day
1	Water Consumption	275	Not applicable									
2	**Trade Effluent Generation**											
A	Process Activity	78	40	43	91554	338.7	2500	115	141843	5248.2	1500	69
B	Cooling Tower & Boiler + Cogen	5										
C (A+B)	**Total**	**83**										
3	Domestic Effluent Generation, CMD	**14**										

b. After Product Mix:

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD (Strong)		COD (Weak)		TDS (Strong)		TDS (Weak)	
			Strong	Weak	mg/l	Kg/ day	mg/l	Kg/ day	mg/l	Kg/ day	mg/l	Kg/ day
1	Water Consumption	275	Not applicable									
2	**Trade Effluent Generation**											
A	Process Activity	78	40	43	87648	324.3	2500	115	141716	5243.5	1500	69
B	Cooling Tower & Boiler	5										
C	**Total**	**83**										

(A+B)													
3	Domestic Effluent Generation, CMD	14											

a. Waste water Treatment & mode of disposal System

a) Trade Effluent: The company has well designed & well-equipped Effluent treatment plant of 100 cmd capacity comprising of Primary, Secondary & Tertiary Treatment, MEE-ATFD (2no.) of 30 CMD each capacity for high COD streams & 24CMD of the treated effluent is discharged to CETP Tarapur & balance (59 cmd) treated effluent is recycled within the plant.

b) The working of COD & TDS load from process, existing and post proposal is given below & uploaded as No Increase in Pollution Load Certificate as given by AESPL

		Existing	Post proposed CIPM	
1	Quantity of process effluent	78 cmd	78 cmd	No change
2	COD load of MEE & ETP	453.75 kg/d	439.33 kg/d	Reduction of 14.42 kg/d
3	TDS load on MEE+ETP	5317.19 kg/d	5312.52 kg/d	Reduction of 4.6kg/d
4	Average COD of effluent to ETP (primary-secondary-tertiary)	2500-3000 mg/lit	2500-3000 mg/lit	No Change

- **COD load will be reduced from 453.75 kg/day to 439.33 kg/day i.e. by 14.42 kg/day after proposed change in product mix.**

c) **Domestic Effluent:** Domestic Effluent is treated in separate STP & treated sewage used for gardening

(ii) Process / Air Emission Load:

There is no proposal for installation of any new utility unit. There is a proposal to dismantle two boilers of 1.5 TPH attached to stack no S5 & thus, the existing stack SO2emissions as given in CTO will be reduced from 408.6 kg/d to 358.2 kg/d. There is no new addition of any process stack.

EXISTING & PROPOSED STACKS EMISSION

SR NO	STACK NO *	Connected to	APC system provided	Stack height (m)	Type of fuel (kg/hr)	Sulphur (%)	Pollutant	Standard	REMARKS
1	S1	IBR Boiler (Standby) 5TPH	Fabric Bag Filter	30	LDO-9 KL/D	1.8	SO_2	272 Kg/d	No change
					Natural gas 11000 m^3/d		TPM	50 mg/Nm^3	
							NOx	50 PPM	
2	S1	IBR Boiler 5TPH	Bag Filter Multi Cyclone	30	Briquette 25 MT/D	0.06	SO_2	30 kg/d	No change
							TPM	50 mg/Nm^3	
3	S2	DG Set (1 Nos.)	Acoustic Enclosure	4	HSD 4 KL/D	1	SO_2	26.6 kg/d	No change
							TPM	50 mg/Nm^3	
4	S3	Process Vent	Scrubber	11	----	----	Acid Mist	35 mg/Nm^3	No change
							SO_2 (process)	50 PPM	
5	S4	Process Vent	Scrubber	11	----	----	Acid Mist	35 mg/Nm^3	No change
							SO_2 (process)	50 PPM	
6	S5	IBR Boiler 1.5 TPH	Fabric Bag Filter	30.0	Briquette 4 MT/D	0.06	TPM	50 mg/Nm^3	Both these boilers are to be dismantled
7	S5	IBR Boiler (Standby) 1.5 TPH	Fabric Bag Filter	30.0	LDO 1.6 KL/D	1.8	TPM	50 mg/Nm^3	
							SO_2	50.4 Kg/D	
8	S6	Process Vent	Scrubber	15.0	----	---	Acid Mist	35 mg/Nm^3	No change
							SO_2 (process)	50 PPM	
9	S7	Process Vent		15.0	---	----	Acid Mist	50 mg/Nm^3	

			Scrubber				SO_2 (process)	50 ppm	No change
10	S-8	DG Set	Acoustic Enclosure	4.0	HSD 110 Ltr/Hr	1.0	TPM	50 mg/Nm^3	No change
							SO2	14.8 kg/d	
11	S9	DG set	Acoustic Enclosure	4.0	HSD 110 Lit/Hr	1.0	TPM	50 mg/Nm^3	No change
							SO2	14.8 kg/d	
	Total SO2 emission kg/day				**Existing ------- 408.6kg/day Post proposal (after removal of 2 X 1.5 TPH Boilers) ---358.2 kg/day**				

Fuel Used Existing and Proposed

Fuel use pattern in existing and proposed scenario will be as below:

S. No.	Parameter	As per CTO	Proposed additional	Total Proposed post Proposal	Remark
1	**LDO**	**10.6 KLPD**	**-1.6 KLPD**	**9**	**Propose to dismantle standby boiler 1.5 TPH LDO fired**
2	Natural gas	11000 m^3/d	0	11000 m^3/d	No Change
3	**Briquettes**	**29 MTPD**	**- 4 MTPD**	**25 MTPD**	**Proposal to remove standby boiler 1.5 TPH Briquettes fired**
4	HSD	9.28 KLPD	0	9.28 KLPD	Used in DG sets

(iii) Hazardous Waste Load:

The proposed change of product mix involve reduction of Esbiothrin Technical from 480 MTPA to 360 MTPA and addition of 120 MTPA of new product Chlorantraniliprole Technical. Rest all other 10 nos. of products and their processes are unchanged. Thus, there is no change in hazardous waste generation. The generation of hazardous waste from process, based on mass balances is uploaded in No Increase in Pollution Load Certificate as given by AESPL.

The existing & proposed hazardous waste generation is tabulated below:

Sr No	Category No./ Type	Quantity		UoM	Treatment	Disposal	Remark
		Existing CTO*	Post proposal				
1	35.2 Spent ion exchange resincontaining toxic metals	0.5	0.5	MT/A	Incineration	CHWTSDF	No Change
2	5.2 Wastes or residues containing oil	1.0	1.0	MT/A	Incineration	CHWTSDF	No Change
3	29.5 Spent catalysts	0.5	0.5	MT/A	Recycle	Sale to authorizedparty / CHWTSDF	No Change
4	20.2 Spent solvents	2.0	2.0	MT/A	Recycle	Sale to authorizedparty / CHWTSDF	No Change
5	35.3 Chemical sludge from ETP	360	360	MT/A	Landfill aftertreatment	CHWTSDF	No Change
6	5.1 Used or spent oil	2.0	2.0	MT/A	Recycle	Sale to authorizedparty / CHWTSDF	No Change
7	29.1 Process Waste or residues or Byproduct -HCL solution, Sodium Sulphite solution, Zirconium Solution, CRPsolution.	8791.5	8452.1	MT/A	Recycle	Sale to authorizedparty / CHWTSDF/Co processing for organic residues	Reduction in qty due to product change as seen from MB
8	36.2 Spent carbon or filter medium	2.0	2.0	MT/A	Incineration	CHWTSDF	No Change

Sr No	Category No./ Type	Quantity		UoM	Treatment	Disposal	Remark
		Existing CTO*	Post proposal				
9	Miscellaneous Wastes contaminated glass, wool, rock wool, asbestos, teflon, used gaskets, teflon impregnated /graphite rope glands, waste alumina separated from dryer, thermocol, used safety items	6	6	MT/A	Incineration	CHWTSDF	No Change
10	35.4 Oil and grease skimming	0.5	0.5	MT/A	Recycle	CHWTSDF	No Change
11	29.2 Sludge containing residual pesticides	30	29.85	MT/A	Incineration	CHWTSDF	Reduction in qty due to product change as seen from MB
12	29.3 Date-expired & off-specification pesticides	0.5	0.5	MT/A	Incineration	CHWTSDF	No Change
13	33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	5300	5300	Nos./Y	Recycle	Sale to authorized party / CHWTSDF	No Change
14	33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1.5	1.5	MT/A	Incineration	CHWTSDF	No Change
15	21.1 Process waste, residues and sludges	0.5	0.5	MT/A	Incineration	CHWTSDF	No Change
16	20.1 Contaminated aromatic, aliphatic or naphthenic solvents may or may not be fit for reuse.	2.0	2.0	MT/A	Incineration	CHWTSDF	No Change
17	37.3 MEE salt	1822	1822	MT/A	Landfill after treatment	CHWTSDF	No Change

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Thus, the proposed hazardous waste generation post proposal is less than existing consented quantities given in condition sr no 7 of MPCB CONSENT No. 0000165899/CO/2311000700 dated 08/11/23 valid up to 31/05/28.

Technical Committee Deliberations:

The project proposal was discussed on the basis of presentation made and documents- NIPL Certificate, NIPL proforma submitted by the proponent. Product wise pollution load calculation in terms of wastewater, Air Emissions & Hazardous Waste generations were discussed. Existing Consent to Operate, Environmental Clearance, No Increase in Pollution Load certificate issued by M/s. Aditya Environmental Services Private Limited vide letter dated 18.07.24 and product-mix proforma are taken on the record.

The committee, after due deliberations noticed that:

1) The industry is existing and engaged in manufacturing of various Technical grade Pesticides in batch process.
2) Industry has proposed amendment in consent to operate under change in the product mix by reduction in production quantity of 1 Nos. of product, addition of one new product with equivalent quantity.
3) Thus, overall, there is no change in total tonnage post proposal- which will remain at 4128 MTPA as per existing EC and CTO
4) There is no change in existing water consumption (275 cmd) post proposal
5) There is no change in existing waste water generation (97 cmd) post proposal & discharge of treated effluent to CETP (24cmd as consented) and recycle of treated effluent (59cmd) and 14 CMD treated waste water from STP.
6) COD and TDS load after change in product mix is proposed to reduce by 14.42 Kg/Day and 4.6 Kg/Day respectively.
7) Industry has segregated the strong and weak stream effluent and provided separate treatment for the same and industry is recycling the part of the treated effluent & discharging 24cmd to CETP Tarapur as per existing consent, which will remain unchanged post proposal.
8) Industry has proposed dismantling two nos boilers of 1.5 TPH using LDO and briquettes as fuel. Existing LDO use will reduce by 1.6 KLPD from 10.6 KLPD to 9 KLPD and briquette use by 4 MTPD from 29 MTPD to 25 MTPD
9) The process emission control system i.e. scrubbers are installed and there will be no process emissions and additional scrubbers in new product.
10) The existing SO_2 load will reduce from 408.6 kg/d to 358.2 kg/d after proposal
11) The proposed hazardous waste generation post proposal is less than existing consented quantities given in condition sr no 7 of MPCB CONSENT. Consented total quantity of HW category 29.1 and 29.2 is 8821 MTPA as against 8481.9 MTPA post proposal.

Technical Committee Decision:

Technical Committee decided to recommend the case for change in product mix based on "No Increase in Pollution Load" as per the provision of EIA notification 2006 with compliance of the following conditions;

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1. Industry shall comply with all the conditions stipulated in Environmental Clearance and ensure display/upload of six-monthly compliance monitoring report on their official website.
2. Industry shall ensure connectivity of OCEMS data to Board server.
3. Industry shall comply with mechanism for Environmental management prepared by Central Pollution Control Board for CEPI listed areas, as industry falls under Severely Polluted Area (SPA) of CEPI.
4. Industry shall achieve TPM-50 mg/NM3 being the unit is in CEPI area as per MPC Board policy and accordingly consent shall be amended for the stringent standards.
5. Industry shall ensure disposal of Hazardous Waste to the actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.
6. The condition shall be imposed as "If any submission of misleading information including NIPL certificate is noticed, then the consent issued under MoEF & CC Product Mix Circular dtd. 02.03.2021 and amendments thereto will stand automatically cancelled."
7. Industry shall not manufacture other products for which permission is not granted by the MPCB.

Agenda item No	**No. 10**
Proposal No.	**MPCB-CONSENT-0000212370**
Project Details	**M/s. The Sanjivani (Takli) Sahakari Sakhar Karkhana Ltd., Sahajanandnagar (At.- Sahjanandnagar, Post - Shingnapur,)**
NIPL Certificate	Not submitted by the industry.

Technical Committee Deliberations:

The Technical Committee noted that the project proponent has not followed the procedure laid down in Appendix-XIII of Notification S.O. 980(E), MoEF & CC dated.02.03.2021 and MPC Board Office Memorandum, dated. 14.07.2021. The project proponent has realized that he has not uploaded NIPL Certificate on PARIVESH portal and therefore they could not generate and submit the acknowledgement.

The Technical Committee also noted that as per the Office Memorandum, dated. 14.07.2021 MPC Board, the PP has not submitted the pollution load proforma, the NIPL Certificate issuing Environmental Auditor was not present during the course of meeting and the PP was unable to submit the empanelment certificate of the Environmental Auditor by the State Pollution Control Board or Union Territory Pollution Control Committee or Central Pollution Control Board or Ministry of Environment, Forest and Climate Change or QCI- NABET accreditation for the respective sector.

Technical Committee Decision:

The Technical Committee decided the proposal cannot be considered under NIPL, as a reasonable opportunity given to the project proponent for the submission of aforesaid information and presenting their proposal before the Technical Committee. It was therefore decided to recommend the proposal for Refusal of consent.

Agenda item No	**No. 11**
Proposal No.	**MPCB-CONSENT-0000218973**
Project Details	**M/s Astec Lifesciences Ltd.** Plot No. K-2/3/1 & K-2/2 Additional Mahad MIDC Area, Mahad , Raigad, Maharashtra
NIPL Certificate	NIPL certificate issued by M/s Sadekar Enviro Engineers Private Limited.,

Introduction: -

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000218973 along with the copies of documents seeking the amendment for change in product – mix under the provisions of EIA Notification, 2006 amended on 23.11.2016 & on 02.03.2021. This is an existing unit engaged in manufacturing Agrochemicals & Chemical Intermediates.

Existing Clearances: -

1. Environmental Clearance is accorded to the industry by MoEF and CC vide No F. No. IA-J-11011/31/2020-IA-II(I) dated 05.01.2021.
2. The Consent to Operate was accorded by the Board vide No: Format1.0/CC/UAN No.0000141078/CO/2302001651, Date. 23.02.2023 valid upto 30.06.2026.

Project details: -

A. Production Details: -

Sr. No.	Product	EC Quantity (MT/A)	Existing Capacity MT/A	After CIPM Capacity MT/A	Remark
1	Pyraclostrobin	300	120	120	No change
2	Flazasulfuron (SL 160)	120	120	120	No change
3	Pyridydal	600	120	120	No change
4	Tefluthrin	600	120	120	No change
5	Paclobutrazol	480	240	240	No change
6	Metalaxyl-M	180	180	100	Reduced
7	Fluridone (FLR) (4 - Chloro Phenyl)-4, 4 Dimethyl pentanone)	60	60	60	No change
8	Azoxystrobin	900	300	300	No change

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9	Penconazole	180	120	120	No change
10	Imibenconazole (IBZ)	600	180	180	No change
11	Metribuzin	900	300	300	No change
12	Pinoxaden	300	120	120	No change
13	2,4-Dichloro-3,5-dinitrobenzotrifluoride	900	360	360	No change
14	Binfenazate	600	180	180	No change
15	Propaquizafop	600	180	180	No change
16	difluoro benzodioxolane	600	180	180	No change
17	Iodosulfuron	240	180	180	No change
18	Fentrazamide	900	180	180	No change
19	Monosulfuron	900	180	180	No change
20	Prothioconazole	1200	180	180	No change
21	Bifenthrin	600	600	600	No change
22	Cyflufenamid	480	180	180	No change
23	Carfentrazone-ethyl	240	180	50	Reduced
24	Quizalofop	240	180	180	No change
25	Pyroxasulfone	180	180	180	No change
26	Mesosulfuran	300	180	180	No change
27	Metsulfuran	300	180	180	No change
28	Nicosulfuran	300	180	180	No change
29	Flutriafol (FTR)	240	120	120	No change
30	DMBA (2,6 - Dimethoxy Benzoic Acid)	180	180	180	No change
31	DSP (4,6 Dimethoxy 2- Methyl Sulfonyl Pyrimidine)	300	240	240	No change
32	ADMP (2 Amino 4,6 Dimethoxy Pyrimidine)	240	240	100	Reduced
33	Bensulfuran	1200	240	240	No change
34	DCBP (Dichloro Butyrophenone)	1200	240	240	No change
35	PMPC (4 Methyl Phenacyl Chloride)	240	240	240	No change
36	Tribenuron	1200	120	120	No change
37	DCHP (3, 6 Dichloro - 4- Hydroxy Pyridazine)	240	240	150	Reduced
38	CDPP (Chloro Diphenyl Phophene)	240	240	75	Reduced

39	MY-170 (Sodium 4- (2, 4 - dichlorobenzoyl) - 1, 3 - dimethyl -1H -pyrazol -5-olate)	120	120	75	Reduced
40	AMMT (Amino Methoxy Methyl Triazine)	300	300	100	Reduced
41	Fenpropymorph	1200	120	120	No change
42	Imazethapyr (IMZ)	1440	360	360	No change
43	PDSH (2- Chloro - 4 - Fluoro - 5 [3-methyl -2, 6 - Dioxo - 4- (trifluoromethyl) - 1,2,3,6 - tetrahydronpyrimidin - 1 -yl] benzenethiol)	600	600	600	No change
44	CYP (6-Chloro - 3 - (2 - cyclopropyl - 6 - methylphenoxy) pyridazi n -4-yl morpholine-4-carboxylate)	360	360	360	No change
45	DFNB (2,4- Difluoronitrobenzene)	0	540	540	No change
46	MSDP (4, 6 - Dimethoxy (2- methyl sulfonyl) pyrimidine)	0	180	100	Reduced
47	ADTP (5, 7 - Dimethoxy - (1,2,4) triazolo (1,5-a) pyrimidin -2- amine)	0	180	120	Reduced
48	EPDC (5 - Ethylpyridine- 2, 3- Dicarboxyylic acid diethyl ester)	0	240	140	Reduced
49	ADBA (2 -Amino-2, 3- Dimethylbutanamide)	0	120	120	No change
50	4-ADMP (4 - Amino dimethoxy pyrimidine)	0	120	120	No change
51	Pyrithiobac	0	0	200	New
52	MCBA (2-Chloro-6-Mercapto Benzoic Acid)	0	0	200	New
53	Rimsulfuron	0	0	25	New
54	Halosulfuron	0	0	20	New
55	Azimsulfuron	0	0	5	New
56	Forumsulfuron	0	0	50	New
57	RL3	0	0	80	New

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- **Industry has proposed change in product mix by decreasing the capacity of 10 Nos. of products, introducing 07 Nos. of new products under the same category and keeping the production capacity of 40 Nos. of products same.**
- **Industry has proposed to decrease the total production quantity from 900 MT/M to 858 MT/M.**

B. Pollution load Details: -

Water & Wastewater Aspect: -

i) Water consumption aspect before & after proposed change in Product Mix: -

Particular	As Per EC, CMD	Existing as Per CTO, CMD	After change in product mix, CMD
Process	231	166	146
Washing and other Activities			
Cooling Tower & Boiler (Utility)	510	430	430
Total Trade	**741**	**596**	**576**
Gardening	37	37	37
Domestic purpose	10	10	10
Grand Total	**788**	**643**	**623**

- **After a change in product mix the, total process water consumption is proposed to be reduced by 20 CMD.**

ii) Waste Water (Trade and Domestic effluent) aspects before & after proposed change in product mix: -

Particular	As Per EC, CMD	Existing as Per CTO, CMD	After change in product mix, CMD
Process	500	380	352
Cooling Tower & Boiler (Utility)			
Total Industrial	**500**	**380**	**352**
Domestic purpose	8	8	8
Grand Total	**508**	**388**	**360**

- **After a change in product mix Industry has proposed a decrease in the trade effluent by 28 CMD.**

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iii) **COD, BOD and TDS Pollution load existing and after proposed change in product mix: -**

Existing effluent characteristic: -		
	From Process	**Utilities blowdown**
Flow (CMD)	**380 CMD**	
Parameter	Kg/Day	
COD	19393	81.6
BOD	1687	25.5
TDS	39488	408
After Product Mix Effluent characteristic:-		
	From Process and Utilities	**Utilities blowdown**
Flow (CMD)	**352 CMD**	
Parameter	Kg/Day	
COD	17206	81.6
BOD	1519	25.5
TDS	35284	408

- **Average COD, BOD and TDS load after change in product mix is proposed to reduce by about 2187 Kg/Day, 168 Kg/Day and 4240 Kg/Day respectively.**

C) Treatment System: -

i) **Trade Effluent: -** Effluent Treatment Plant (ETP) of designed capacity of 550.00 CMD consisting of Primary (Collection tank, Equalization tank, Flash mixer, Primary Clarifier/Primary Settling Tank), Secondary (Activated sludge process), Tertiary (Pressure sand filter, Activated carbon filter), Advanced treatment (In plant Evaporator, Stripper, 3 stage multi effective evaporator), Sludge treatment (Pusher centrifuge). Existing ZLD status will be maintained after change of product mix.

ii) **Sewage effluent:** - Sewage Treatment Plant of designed capacity 10 CMD for the treatment of 8 CMD of sewage provided.

D) Air Emission Aspect: -

i) Air Emission Aspect:-

Sr.No.	Description	As per EC	Existing as per CTO	After NIPL	Remarks
Fuel Consumption Details.					
S1	Boiler (20 TPH)	Not mentioned	Briquette 3200 Kg/Hr	Briquette 3200 Kg/Hr	No change
S2	TFH-1 (10Lakh Kcal./Hr)	Not mentioned	LDO 120 Ltr/Hr	LDO 120 Ltr/Hr	No change
S3	TFH-2 (4Lakh Kcal./Hr)	Not mentioned	LDO 57.6 Ltr/Hr	LDO 57.6 Ltr/Hr	No change
S4	D G Set – I (500KVA)	Not mentioned	HSD 160 Ltr/Hr	HSD 160 Ltr/Hr	No change
S5	D G Set – II (500KVA)	Not mentioned	HSD 160 Ltr/Hr	HSD 160 Ltr/Hr	No change
S6	D G Set -500KVA Standby *	Not mentioned	Not mentioned	HSD 160 Ltr/Hr	New standby DG Set
S7 to S10	Process Reactor-4 Nos.	-	-	-	-
S11	Flare Stack	-	-	-	-

Process Emission Aspects:

Stack No.	Stack attached to	Stack height (m)	APCM	Before Change in product Mix			After change in product mix		
				Parameter	Permissible limit		Parameter	Permissible limit	
S1	Boiler (20 TPH)	43	Multi Cyclone Dust Collector and Bag Filters	TPM	50	Mg/Nm3	TPM	50	Mg/Nm3
				SO2	92.16	Kg/Day	SO	92.16	Kg/Day
S-2	TFH-1 (10Lakh Kcal./Hr)	30	Stack	TPM	50	Mg/Nm3	TPM	50	Mg/Nm3
				SO2	103.68	Kg/Day	SO	103.68	Kg/Day
S-3	TFH-2 (4Lakh Kcal./Hr)	30	Stack	TPM	50	Mg/Nm3	TPM	50	Mg/Nm3
				SO2	27.5	Kg/Day	SO	27.5	Kg/Day
S-4	D G Set – I (500KVA)	10	Acoustic Enclosure Stack	SO2	20.48	Kg/Day	SO	20.48	Kg/Day
S-5	D G Set – II (500KVA)	10	Acoustic Enclosure Stack	SO2	20.48	Kg/Day	SO	20.48	Kg/Day
S-6	D G Set – III 500KVA Standby *	10	Acoustic Enclosure Stack	SO2	New standby DG Set not mentioned in existing consent & EC		SO	20.48	Kg/Day
S-7	Process Reactor-1 Nos.	12	Scrubber	Acid Mist	35	Mg/Nm3	Acid Mist	35	Mg/Nm3
				Bromine	3	PPM	Bromine	3	PPM
				Chlorine	3	PPM	Chlorine	3	PPM
				SO2(process)	50	PPM	SO2(process)	50	PPM

S-8	Process Reactor-2 Nos.	12	Scrubber	Acid Mist	35	Mg/Nm3	Acid Mist	35	Mg/Nm3
				Bromine	3	PPM	Bromine	3	PPM
				Chlorine	3	PPM	Chlorine	3	PPM
				SO2(process)	50	PPM	SO2(process)	50	PPM
S-9	Process Reactor-3 Nos.	12	Scrubber	Acid Mist	35	Mg/Nm3	Acid Mist	35	Mg/Nm3
				Bromine	3	PPM	Bromine	3	PPM
				Chlorine	3	PPM	Chlorine	3	PPM
				SO2(process)	50	PPM	SO2(process)	50	PPM
S-10	Process Reactor-4 Nos.	12	Scrubber	Acid Mist	35	Mg/Nm3	Acid Mist	35	Mg/Nm3
				Bromine	3	PPM	Bromine	3	PPM
				Chlorine	3	PPM	Chlorine	3	PPM
				SO2(process)	50	PPM	SO2(process)	50	PPM
S11	Flare Stack	20	Stack	SO2(process)	50	PPM	SO2(process)	50	PPM

- **Industry has not proposed any changes in the steam requirements. The fuel consumption of the boiler will remain the same.**

One D.G set, will be installed as a standby which will be operated during maintenance/ breakdown of existing system Hence there is no increase in fuel consumption & air emission.

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E) Hazardous Waste Aspect: -

Sr. No.	Type of Hazardous Waste	Category No. (As per Schedule)	Before Product Mix	After Product mix	Unit	Mode of treatment & Disposal
1	Used or Spent Oil	5.1	12	12	KL/A	Sale to Authorized Party/CHWTSDF
2	Contaminated Cotton Rags or other cleaning materials	33.2	62.4	62.4	MT/A	CHWTSDF
3	Chemical Sludge from Waste Water Treatment Plant	35.3	50	50	MT/A	CHWTSDF
4	Empty Barrels/Containers/ Liners contaminated with hazardous chemicals	33.1	240	240	MT/A	CHWTSDF
5	Spent Carbon or Filter medium	36.2	156	156	MT/A	CHWTSDF
6	Spent Solvent	29.4	2400	2400	KL/A	Sale to Authorized Party/CHWTSDF
7	Spent Catalyst	29.5	9.36	9.36	MT/A	CHWTSDF
8	Concentration of Evaporation residue	37.3	1560	1536	MT/A	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
9	Process Residue	29.1	6252	6252	MT/A	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
10	Ammonium Chloride	29.1	57	57	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
11	Potassium Bromide	29.1	15	15	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
12	Potassium Chloride	29.1	65	61	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
13	Sodium Bromide	29.1	10	10	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing

14	Sodium Bisulfite	29.1	43	43	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
15	Triethyl amine hydrochloride	29.1	16	4	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
16	Bromoborane	29.1	4.5	4.5	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
17	Phosphorous oxychloride	29.1	34	12	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
18	Pyridine hydrochloride	29.1	12.5	10	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
19	Methanol	29.1	10	10	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
20	Hydrochloric Acid	29.1	402	402	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
21	Aq Ammonia	29.1	8.4	8.4	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
22	Poly Aluminium Chloride	29.1	164	134	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
23	Chloroform	29.1	65.7	21.9	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
24	Phenol	29.1	4.4	4.4	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
25	N Butyl Ammonium Sulfate	29.1	2.2	1	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
26	Amidechloride	29.1	30	20	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
27	Sodium formate	29.1	14.2	14	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
28	Boric Acid	29.1	1.2	1	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing

29	Sodium Hydroxide	29.1	71	68	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
30	Potassium Carbonate	29.1	60	31	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
31	Sodium Tungstate	29.1	0.5	0.2	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
32	Ethanol	29.1	11.1	10	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
33	Sodium Methyl Sulphate	29.1	15.6	15.6	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
34	Bromosuccinamide	29.1	30	30	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
35	Sodium Sulfate	29.1	10.35	48	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
36	Magnesium Chloride	29.1	20	18	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
37	Disodium Phosphate	29.1	21	2	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
38	Thio Glutamic Acid	29.1	150	0	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
39	Sodium Chloro Acetate	29.1	1	0.04	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
40	Zincate Chloride	29.1	1	1	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
41	Sodium Sulfate of Methyl Sulfonic Acid	29.1	7	0	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
42	Sodium carbonate	29.1	2	1	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
43	Sodium Acetate	29.1	2.6	2.6	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing

44	Tetra n ammonium butyl bromide	29.1	0.8	0.16	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
45	Aq. Sulfuric Acid	29.1	6.28	6.28	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
46	Trizole	29.1	18	0	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
47	Sodium Chloride	29.1	260	240	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
48	Di Isopropyl amine hydrochloride	29.1	0.8	0.08	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
49	Phosphorous Chloride Acid	29.1	34	18	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
50	Ammonium sulfate	29.1	80	44	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
51	Urea	29.1	7.5	6	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
52	Potassium bicarbonate + Hydrochloric acid	29.1	8	0	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
53	Magnesium Bromide	29.1	0	7	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
54	Acetic Acid	29.1	0	15	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing
55	Phosphoric Acid	29.1	0	14.4	MT/M	Sale to Authorized Party/CHWTSDF/Coprocessing/Preprocessing

After change in product mix reduction in evaporation residue by 24 MT/A & reduction in process waste residue by 366.07 MT/M, remaining hazardous waste will remain unchanged.

Technical Committee Deliberation: -

The project proposal was discussed based on presentation made and documents - NIPL Certificate, NIPL proforma and Power Point presentation submitted by the proponent. Product wise load calculation in terms of wastewater, Air Emissions & Hazardous Waste generations were discussed. Existing Consent to Operate, Environmental Clearance, No Increase in Pollution Load certificate issued by M/s Sadekar Enviro Engineers Private Limited., No. Nil, dated. Nil and product-mix proforma are taken on the record.

Committee after due deliberation noticed that: -

1) Industry has proposed change in product mix by decreasing the capacity of 10 Nos. of products, introducing 07 Nos. of new products under the same category and keeping the production capacity of 40 Nos. of products same.
2) Industry has proposed to decrease the total production quantity from 900 MT/M to 858 MT/M.
3) After a change in product mix the Total process water consumption is proposed to be reduced by 20 CMD after change in product mix.
4) After a change in product mix Industry has proposed a decrease in the trade effluent by 28 CMD after change in product mix.
5) Average COD, BOD and TDS load after change in product mix is proposed to reduce by about 2187 Kg/Day,168 Kg/Day and 4240 Kg/Day respectively.
6) Industry is Zero Liquid Discharge unit and the status will be maintained after change of product mix.
7) Industry has not proposed any changes in the steam requirements. The fuel consumption of the boiler will remain the same.
8) After change in product mix reduction in evaporation residue by 24 MT/A & reduction in process waste residue by 366.07 MT/M, remaining hazardous waste will remain unchanged.

Technical Committee Decision: -

Technical Committee decided to recommend the case for change in product mix based on "No Increase in Pollution Load" as per the provision of EIA notification 2006 with compliance of the following conditions;

1. Industry shall comply with all the conditions stipulated in Environmental Clearance and ensure display/upload of six-monthly compliance monitoring report on their official website.
2. Industry shall ensure connectivity of OCEMS data to Board server.
3. Industry shall comply with mechanism for Environmental management prepared by Central Pollution Control Board for CEPI listed areas, as industry falls under Severely Polluted Area (SPA) of CEPI.
4. Industry shall achieve TPM-50 mg/NM3 being the unit is in CEPI area as per MPC Board policy and accordingly consent shall be amended for the stringent standards.
5. Industry shall ensure disposal of Hazardous Waste to the actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.
6. The condition shall be imposed as "If any submission of misleading information including NIPL certificate is noticed, then the consent issued under MoEF & CC Product Mix Circular dtd. 02.03.2021 and amendments thereto will stand automatically cancelled."
7. Industry shall not manufacture other products for which permission is not granted by the MPCB.