Minutes of 5th meeting of Technical Committee (2024-25) for assessment of application of under change in product-mix

Date : 30/12/2024

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. Anurag Garg, Chair Professor, IIT Bombay & (3) 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.

Agenda Item No.	**01**
Proposal No.	MPCB-CONSENT-0000190713
Project Details	**M/s. POSCO Maharashtra Steel Pvt Ltd.,** Plot No. C-1 & C-1 Part, Vile-Bhagad MIDC, Tal-Mangaon, Dist. - Raigad.
NIPL Certificate	NIPL Certificate issued by M/s. Ultra-Tech Environmental Consultancy & Laboratory No. Nil. Date. Nil.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000190713 along with the copies of documents seeking Amendment in consent under change in product mix under the provisions of EIA Notification 2006 amended on 23/11/2016 & amended on 02/3/2021.

Exiting Clearances: -

1) Environmental Clearance is accorded to the industry vide letter No. SEAC-2010/CR-639/TC-2 dtd. 08/06/2011.
2) The Consent to Operate granted by the Board vide No: - Format1.0/CAC/UAN No.0000128520/CR/2204000648, dtd. 12.04.2022 valid up to 28.02.2027.

1) **Project details: -**

Production Details: -

Sr. No.	Products	Quantity as per E.C. in TPA	Quantity as per Existing CTO in TPA	Proposed Quantity after CIPM in TPA	Remarks as per EC
1	Galvanizing Coils (GA/GI) (MT/Year)	4,50,000	4,50,000	5,00,000	**Increase**
	TOTAL	4,50,000	4,50000	5,00,000	**Increase in total production quantity by 11% (50,000 MT/year)**

- Industry has proposed a change in the product mix in its existing facility by increase in production capacity of Galvanizing Coils by 50,000 Tonnes/Year by increase in raw materials Full hard coil by 11% & zinc by 1.7% while reduction of raw materials NaOH, Cr & Cr free solution. Thus, there is net increase in production by 11%, thereby total production will increase from 4,50,000 TPA to 5,00,000 TPA.

2) **Water Pollution Load Details:**

i) **Water Aspect: -**

Water Consumption	As per EC in (CMD)	As per C to O in (CMD)	After change in product mix in CMD
Industrial			
Process +APCM	880	880	880
Boiler	750	750	750
Cooling			
Gardening	449	449 (recycle water)	449 (recycle water)
Other	0	0	0
Total Industrial	**1650**	**1650**	**1650**
Domestic	253	253	253
Total	**2332**	**2332**	**2332**

- The overall Water consumption is proposed to remain same after proposed change in product mix.

Wastewater Aspect : -

Effluent generation	As per EC (CMD)	Existing as per CTO (CMD)	After proposed change in product mix (CMD)
Industrial			
Process +APCM	962	962	962
Boiler			
Cooling			
Gardening	0	0	0
Other	0	0	0

Total Trade Effluent	**962**	**962**	**962**
Domestic Effluent	**160**	**160**	**160**
Total	**1122**	**1122**	**1122**

- pTrade effluent generation is proposed to remain same after a change in the proposed product mix.

iii) Effluent Treatment System: -

Trade Effluent:

Existing Integrated ETP of 1200 CMD capacity is used for combined treatment of industrial effluent & domestic waste water. Total effluent treated in ETP is 1122 CMD (962 CMD industrial effluent + 160 CMD Domestic effluent). Domestic waste water is mixed with pre-treated industrial effluent in biological treatment unit (aerobic suspended growth process, MBR Technology). The 60% (i.e. 629 CMD) of the treated effluent is recycled for secondary purposes like cooling and remaining effluent (449 CMD) is used for gardening within the industrial premises.

i) Air Emission Aspect: -

Sr No	Description	As per E.C.	As per CTO	After NIPL	Remarks
1	Furnace	Natural Gas 24,88,800 Nm³/Month	Natural Gas 60,91,897 Nm³/Month	Natural Gas 12,24,852 Nm³/Month	Decrease
2	Boiler				
3	DG Set (2000 kVA)	Not mentioned in EC	High Speed diesel 300 Liter/day	High Speed diesel 300 Liter/day	No change

- Industry has not proposed any change in Boiler configuration.

Process emission Aspect: -

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
1	Furnace	42	Exhaust fan, damper, Low NOx Burners	TPM, NOx	150 mg/Nm^3 100 ppm	TPM, NOx	150mg/Nm^3 100 ppm
2	Boiler	30	Catch Pot, Packed column with water spray	TPM, NOx	150 mg/Nm^3 100 ppm	TPM, NOx	150mg/Nm^3 100ppm
3	No.1 Cleaning	27.11	Exhaust fan, damper, water spray type fume extraction system (wet scrubbers)	Alkali Mist	35 mg/Nm^3	Alkali Mist	35 mg/Nm^3
4	Nano Coating	47		Acid Mist	35 mg/Nm^3	Acid Mist	35 mg/Nm^3
5	Post Treatment	44.50		Acid Mist	35 mg/Nm^3	Acid Mist	35 mg/Nm^3
6	Pot Roll Cleaning Room	12		Acid Mist	35 mg/Nm^3	Acid Mist	35 mg/Nm^3
7	DG Set (2000 KVA)	30	Exhaust fan, damper, Acoustic enclosure	SO_2, TPM, NOx	144 KG/Day 150 mg/Nm^3 100 ppm	SO_2, TPM, NOx	144 KG/Day 150mg/Nm^3 100 ppm

- Industry has not proposed any change in Furnace & Boiler configuration. Industry has claimed that Currently, Process Emissions are being controlled through Exhaust Fans & Damper, Low NOx Burner, Water spray type fume extraction system (the wet scrubber). With no increase in fuel requirement and requirement well within consent limit, No Additional Process Emission is envisaged after proposed product mix.

ii) Hazardous Waste Load: -

Sr. No.	Category	Hazardous Waste Description	As per E.C (TPA)	Existing CTO (TPA)	As per CIPM (TPA)	Disposal	Remarks
1	4.2	Spent Catalyst & Molecular sieves	Not mentioned	756	0	CHWTSDF (MWML Taloja)	Decrease as compared to C to O
2	35.3	Chemical Sludge from waste water treatment	Not mentioned	70	60		
3	12.1	Acidic and Alkaline residues	4	4	2.8		

4	NA	Waste Chrome Solution	8.41	2	1.2		Decrease
5	5.1	Used or Spent oil	0.5	2	1.5	Sale to Authorized Party	Decrease as compared to C to O
6	6.3	Zinc Dross	50	200	157.92		
	33.1	Empty Barrels / Containers Nos./Month	Not Mentioned	500	254		
Non-Hazardous Waste							
1		Metal Scrap	18750	20000	16811	Sale to Recycler	Decrease

- The hazardous Waste Zinc Dross, Used or Spent Oil, Chemical Sludge from wastewater treatment are more than the EC quantities. The overall Hazardous Waste is more than the EC quantities.

Technical Committee Deliberations: -

The Technical Committee noted that the said proposal was discussed before 6th meeting of Technical Committee of 2023-2024 held on 06/03/2024 & The Technical Committee noted that there is No increase in Pollution load due to proposed change in product mix. However as per MoEF&CC draft Notification S.O 3072 (E), Dated. 06.07.2022 the said area falls under the Eco Sensitive Zone.

In view of this the Technical Committee recommended that, it will be appropriate to seek guidance from MoEF&CC/SEIAA, regarding this product mix application, wherein the category of the project will now change from Category 'B' to Category 'A' project due to the said area falls under the Eco Sensitive Zone as per draft Notification S.O 3072 (E), Dated. 06.07.2022. The Technical Committee further decided to defer the case till receipt of guidance from the MoEF&CC/SEIAA, with a liberty that PP may pursue in this regard with MOEF&CC/SEIAA.

Technical Committee Decision: -

After due deliberations The Technical Committee noted that as per minutes of 6th Technical Committee meeting of 2023-2024 held on 06/03/2024, MPC Board has already communicated MoEF&CC/SEIAA seeking guidance, regarding this product mix application, wherein the category of the project will now change from Category 'B' to Category 'A' project due to the said area falls under the Eco Sensitive Zone as per draft Notification S.O 3072 (E), Dated. 06.07.2022.
The Technical Committee further decided to re-communicate with MoEF&CC/SEIAA & defer the case till receipt of guidance from the MoEF&CC/SEIAA, with a liberty that PP may pursue in this regard with MOEF&CC/SEIAA.

Agenda item No	**02**
Proposal No.	**MPCB-CONSENT-0000219058**
Project Details	**M/s. Abhideep Chemicals Private Limited,** Plot No.-A-2, MIDC Area, Ghuggus Road, Padoli, Dist. Chandrapur.
NIPL Certificate	NIPL certificate issued by Aditya Environmental Services Private Limited dated 13/12/2024

Introduction:
This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000219058 along with the copies of documents seeking 1st Change in product mix under the provision of EIA Notification 2006 amended on 02/03/2021 and thereof.

Exiting Clearances:
1. Environmental clearance (SEIAA-EC-0000002170) was issued for the said facility for Change in product mix on 12th March 2020 with a total production capacity of 2208 TPA.
2. The unit has valid consent to operate vide No: - Format1.0/AS(T)/UAN No. 0000102160/CO-2103000457 dated 08.03.2021 valid up to 30.11.2025.

A) Project details:
- **Products with change in product mix as below:**

Sr. No.	Product	As per EC, TPA	Existing as per CTO, TPA	Addition (+)/ Deletion (-), TPA	After proposed change in product mix, TPA
1	Beta Oxy Naphthoic (Bon) Acid	1200	1200	0	1200
	Tar	96	96	0	96
	Sodium Sulphate	1441.2	1441.2	0	1441.2
2	Pamoic Acid	270	270	0	270
	Sodium Sulphate	98.76	98.76	0	98.76

Sr. No.	Product	As per EC, TPA	Existing as per CTO, TPA	Addition (+)/ Deletion (-), TPA	After proposed change in product mix, TPA
3	Disodium Pamoate	50.04	50.04	+49.96	100
	Sodium Sulphate	10.68	10.68	+10.66	21.34
4	BNSA (Pure)	399.96	399.96	250.04	650
5	1-Hyrdoxy-2-Naphthoic Acid	50.04	50.04	0	50.04
	Tar	3.96	3.96	0	3.96
	Sodium Sulphate	57.48	57.48	0	57.48
6	1-Hydroxy-2-Naphthoic Acid-Phenyl Ester	30	30	-30	0
	Sodium Sulphite	14.44	14.44	-14.44	0
7	1-Naphthalene Acetic Acid	24	24	-24	0
8	1-Naphthalene Acetamide	24	24	26	50
9	Beta Naphthol	2208	2208	0	2208
	Tar	156	156	-1.44	154.56
	Sodium Sulphate	624	624	-624	0
	Sodium Sulphite	2172	2172	-2172	0
10	2,2 Biphenol	60	60	+60	120
	Tar	3.72	3.72	+3.81	7.53
	Sodium Sulphate	23.04	23.04	+22.79	45.83
	Potassium Sulphate	59.64	59.64	59.56	119.2
11	3-Ethyl Amino 4-Methyl Phenol	60	60	-20	40
	Potassium Sulphate	69.12	69.12	-23.04	46.08
	Potassium Sulphite	31.44	31.44	-10.51	20.93
12	p-Phenylene Diamine	60	60	-60	0
	Tar	9	9	-9	0
13	m-Hydroxy acetophenone	120	120	-120	0
	Tar	43.08	43.08	-43.08	0
	Sodium Sulphate	220.08	220.08	-220.08	0

Sr. No.	Product	As per EC, TPA	Existing as per CTO, TPA	Addition (+)/ Deletion (-), TPA	After proposed change in product mix, TPA
14	1,2,3,4 butane tetra carboxylic acid	600	600	0	600
	Sodium Nitrate	240	240	+1.2	241.2
	Nitric Acid	0	0	+180	180
15	P Methoxy phenyl acetic acid	60	60	60	120
	Sodium Sulphate	76.92	76.92	76.92	153.84
16	3-Chloro 2-Methyl Anisole	240	240	0	240
	Sodium Sulphate	631.2	631.2	0	631.2
17	Binol	300	300	0	300
	Tar	36.6	36.6	0	36.6
18	2-phenyl-3-3-Bis (4-Hydroxy phenol) Phthalinidine	60	60	0	60
	Sodium Sulphate	29.76	29.76	-0.88	28.88
19	2-Hydroxy 6-Naphthoic acid	1200	1200	-1100	100
	Tar	96	96	-88	8
	Potassium Sulphate	1692	1692	-1551.38	140.62
20	Cyclopropane Carboxylic Acid	480	480	-116	364
	Tar	6	6	-6	0
	Sodium Bisulphate	582	582	-582	0
	Sodium Sulphite	0	0	+1026.48	1026.48
	Sodium Sulphate	0	0	+182	182
21	2-Methyl Resorcinol (CM)	0	0	+55	55
	Sodium Sulphate	0	0	+295.9	295.9
	Potassium Sulphate	0	0	+153.45	153.45
22	Chloro Propionic Acid Methyl Ester (CP)	0	0	+248.5	248.5
	Sodium Sulphite	0	0	+218.68	218.68
23	2 Naphthalene Sulfonyl Chloride (2NSC)	0	0	+30	30
	Sodium Sulphite	0	0	+45.6	45.6

Sr. No.	Product	As per EC, TPA	Existing as per CTO, TPA	Addition (+)/ Deletion (-), TPA	After proposed change in product mix, TPA
24	3,3'-Dimethylbenzidine (3,3'-DMB)	0	0	+600	600
25	3-(4-Chloro-2-fluoro-5-mercaptophenyl)-1-methyl-6-trifluoromethyl-1H-pyrimidin-2,4-dione	0	0	+30	30
	Dimethyl Ether in DMF	0	0	+28.5	28.5

- Industry has proposed a change in product mix by Addition of 5 new products, No Change in 8 Existing Products, decrease in production capacity of 3 existing products, Deletion of 4 Existing products & Increase Production of 5 Existing Products.
- Industry has proposed that the total production will remain the same i.e. 2208 TPA, keeping the pollution load within the consent limit.

B) Pollution load Details:

(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	83.5	83.5	83.3
Cooling Tower & Thermopack	117.5	117.5	117.5
Total Trade	**201**	**201**	**200.8**
Gardening	25	25	25
Domestic purpose	12	12	12
Grand Total	**238**	**238**	**237.8**

- **Total process water consumption will reduce by 0.2 CMD after proposed change in product mix.**

(ii) Waste water 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	5.5	30.5	30.4
Boiler & Cooling Tower	25		
Total Trade	**30.5**	**30.5**	**30.4**
Domestic	9	9	9
Grand Total	**39.5**	**39.5**	**39.4**

- **Industry has proposed to decrease in the trade effluent quantity by 0.1 CMD.**

(iii) COD, BOD and TDS Pollution load existing and after change in product mix

Existing effluent characteristic:-		
	From Process and Utilities blowdown	
Flow (CMD)	30.5	
Parameter	Kg/Day	mg/L
COD	17.3	567
BOD	8.4	275
TDS	59.5	1954
After Product Mix Effluent characteristic:-		
	From Process and Utilities blowdown	
Flow (CMD)	30.4	
Parameter	Kg/Day	mg/L
COD	16	528
BOD	7.8	257
TDS	55.7	1835

- **After the proposed product mix the COD, BOD and TDS load of effluent are proposed to be reduced to 1.3 Kg/D, 0.6 Kg/D & 3.8 Kg/D respectively.**

C) Treatment System

1. Trade Effluent:

- The generated wastewater is being treated in full-fledged ETP of the design capacity of 100 CMD consisting of primary, (collection tank, Neutralization tank, Equalization tank, Primary clarifier/Primary settling tank), Secondary (Activated Sludge Process), Tertiary (Pressure Sand Filter, Activated Carbon Filter), Advanced (Reverse osmosis, Multiple Effect evaporator) for the treatment of 30.5 CMD of trade effluent. Treated trade effluent is 100% recycled into the plant to achieve Zero Liquid Discharge (ZLD) as per CTO.
- The trade effluent generated from this unit is treated in Effluent Treatment Plant which is located (Just adjacent) at sister concern unit M/S. Multi organics Pvt. Ltd. MIDC Area Padoli, Chandrapur. It is the responsibility of both units to operate and maintain Effluent Treatment Plant scientifically. Any non-compliances observed then both the units will be held responsible for the same. In the CTO of Abhideep chemicals, combined treatment of effluent from Abhideep to ETP at M/s. Multi organics Pvt. Ltd is also mentioned. Also, evaporation system followed by agitated thin film dryer is installed on-site at ACPL to separate salts from the process.

2. Domestic Effluent:

- Sewage is being treated in a Sewage Treatment Plant with a designed capacity of 15.0 CMD for the treatment of 9.0 CMD of sewage. Treated sewage is being used for gardening as per the consent.

D) Air Emission Aspect:

i. Flue gas stack details:

Stack No.	Stack Attached to	As per EC	Existing as per CTO	Proposed Fuel Consumption	APC system	Stack Height (In meters)
S-1	Boiler (2.5 TPH)	Coal: 400 Kg/Hr	Coal: 400 Kg/Hr	No Change	Multi Cyclone	27
S-2	Thermopack (6 lac Kcal/Hr)	Coal: 100 kg/Hr	Coal: 100 kg/Hr	No Change	Multi Cyclone	16
S-3	Thermopack (2 lac Kcal/Hr)	Furnace Oil: 48 Kg/Hr	*Furnace Oil: 48 Kg/Hr	*LSHS Oil: 48 Kg/Hr	Multi Cyclone	27
S-4	D G Set (250 KVA)	HSD: 53 Ltrs/Hr	HSD: 53 Ltrs/Hr	No Change	Acoustic Enclosure	3.5 above enclosure

- Industry has not proposed any change in existing utilities.
- Industry has stopped FO as fuel and now completely shifted to cleaner fuel i.e. LSHS.

Process emission:

Stack No.	Stack Attached to	APC system	Stack Height
S-5 to S-13	Process Vents	Wet Scrubber	11 m each

- 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.

Process emission parameters:

Sr. No	Parameters	Before the change in product-mix	After a change in product-mix	MPCB Norms
1	Acid Mist	< 35 mg/Nm3	No change	35 mg/Nm^3

E) Hazardous waste aspects:

Sr. No	Type of Waste	Cat. No.	As Per EC, TPA	Existing as Per CTO, TPA	After Change in Product Mix Qty., TPA	Disposal
1.	Chemical Sludge from Wastewater Treatment	35.3	36	36	36	CHWTSDF
2.	Concentration or Evaporation Residue (MEE Salts)	37.3	24	24	24	CHWTSDF
3.	Spent Carbon from ETP	35.3	6	6	6	CHWTSDF
4.	Empty Barrels/ Containers/ liners Contaminated with hazardous chemicals	33.1	21600 Nos./Y	21600 Nos./Y	21600 Nos./Y	Sale to authorized Reconditioner
5.	Used or spent oil	5.1	200 Ltr./A	200 Ltr./A	200 Ltr./A	Sale to authorized Reprocessor
6.	Spent Carbon from Process	28.3	492	492	150.27	CHWTSDF
7.	Process Residue (Sodium Chloride)	26.1	748.2	748.2	1319.38	Sale to authorized party /CHWTSDF
8.	Process Residue (Sodium Thio Sulphate)	26.1	203.88	203.88	0	Sale to authorized party /CHWTSDF
9.	Process Residue (Sodium Sulphate Low Purity)	26.1	96	96	42.3	Sale to authorized party /CHWTSDF
10.	Process Residue (Calcium Sulphate)	26.1	630.24	630.24	52.19	Sale to authorized party /CHWTSDF
11.	Process Residue (Sodium Bisulphate)	26.1	127.08	127.08	0	Sale to authorized party/CHWTSDF
12.	Spent Catalyst	26.5	0	0	14.3	Sale to authorized party /CHWTSDF
13.	Distillation Residue	36.1	0	0	154.44	Sale to authorized party /CHWTSDF

Sr. No	Type of Waste	Cat. No.	As Per EC, TPA	Existing as Per CTO, TPA	After Change in Product Mix Qty., TPA	Disposal
14.	Process Residue (Sodium Acetate and sodium chloride mix salt)	26.1	0	0	23.4	CHWTSDF
15.	Process Residue (Potassium Chloride and Potassium Sulfate mix salt)	26.1	0	0	123.75	CHWTSDF
16.	Process Residue (Sodium chloride and Sodium Sulphite mix)	26.1	0	0	79.52	CHWTSDF
17.	Process residue (Spent Phosphorous)	26.1	0	0	7.20	Sale to authorized party /CHWTSDF
18.	Process Residue (K2SO4 mix salt)	26.1	0	0	28.80	Sale to authorized party/CHWTSDF
19.	Process Residue (Sodium Sulphite)	26.1	0	0	21	Sale to authorized party/CHWTSDF
20.	Process Residue (Sodium Sulphate and NaCl)	26.1	0	0	280.28	CHWTSDF
	Total		**2363.4 TPA, 21600 Nos. /Year and 200 Ltrs./A**	**2363.4 TPA, 21600 Nos. /Year and 200 Ltrs./A**	**2362.83 TPA, 21600 Nos. /Year and 200 Ltrs./A**	

- **After a change in the proposed mix the overall Hazardous Waste categories will reduce from 2363.4 TPA to 2362.83 TPA and overall Hazardous Waste categories will remain same i.e., 21600 Nos./Y & 200 Ltrs/Y.**

Conditions under Batteries (Management and Handling) Rules 2001:

Sr. No	Type of Waste	Existing as per CTO Kg/ Annum	After Change in Product Mix Qty. Kg/ Annum	Disposal
1	Battery Waste	2.4	2.4	Returned to battery Manufacturer through authorized dealer on buy back procurement

Conditions under E-waste management:

Sr. No	Type of Waste	Existing as per CTO Kg/ Annum	After Change in Product Mix Qty. Kg/ Annum	Disposal
1	E-waste	1.2	1.2	Sale to authorized dismantlers/ recyclers having permissions under rule 9 of H & OW Rule

Non-Hazardous Waste: -

Sr. No	Type of Waste	UOM	Existing as per CTO	After Change in Product Mix Qty.	Disposal
1	Polyethylene Bags	Kg/ Annum	12000	12000	Recycler/sell to approved vendor
2	Paper Bags	Kg/ Annum	120	120	Recycler/sell to approved vendor
3	Light-density PVC bags	Kg/ Annum	1200	1200	Recycler/sell to approved vendor
4	Boiler Ash	MT/A	790	790	Sell to brick Manufacturer & Land filling/Sell to approved vendor

Technical Committee Deliberations:

The proposed project was discussed on the basis of documents – NIPL Certificate and presentation made by the industry. Product wise load calculation in terms of wastewater, Air emissions & Hazardous waste generation were discussed. Existing consent to operate, Environmental Clearance, NIPL Certificate issued by Aditya Environmental Services Private Limited and product mix Proforma are taken on the record.

Committee after due deliberations noticed that;

1) **Industry has proposed a change in product mix by Addition of 5 new products, No Change in 8 Existing Products, decrease in production capacity of 3 existing products, Deletion of 4 Existing products & Increase Production of 5 Existing Products.**
2) **Industry has proposed that the total production will remain the same i.e. 2208 TPA, keeping the pollution load within the consent limit.**
3) **Total process water consumption will reduce by 0.2 CMD after proposed change in product mix.**
4) **Industry has proposed to decrease in the trade effluent quantity by 0.1 CMD.**
5) **After the proposed product mix, the COD, BOD and TDS load of effluent are proposed to be reduced to 1.3 Kg/D, 0.6 Kg/D & 3.8 Kg/D respectively.**
6) **Industry has not proposed any change in existing utilities. Industry has stopped FO as fuel and now completely shifted to cleaner fuel i.e. LSHS.**
7) **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.**
8) **After a change in the proposed mix the overall Hazardous Waste categories will reduce from 2363.4 TPA to 2362.83 TPA and overall Hazardous Waste categories will remain the same i.e. 21600 Nos./Y & 200 Ltrs/Y.**

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 the 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 permission 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

Agenda item No	**03**
Proposal No.	**MPCB-CONSENT-0000217657**
Project Details	**M/s. Harman Finochem Ltd.** Plot No. B-6, MIDC Shendra Chhatrapati Sambhajinagar (Aurangabad), Tal.- Aurangabad, Dist.-Aurangabad 431154
NIPL Certificate	NIPL certificate issued by Goldfinch Engineering Systems Pvt. Ltd.

Introduction:

This has reference to the online proposal submitted vide no. UAN No. MPCB-CONSENT-0000217657 dated 05/08/2024 along with the copies of documents seeking Consent to Establish under change in product mix under the provision of EIA Notification 2006 and amendments thereof.

Exiting Clearances:

1. Environmental clearance EC SIA/MH/IND2/196158/2021 was issued for the said facility on 23/07/2021.
2. The unit has consent to operate vide No: Format1.0/CC/UAN No. MPCB-CONSENT-0000175299/CO/2311000928 dated 10/11/2023 which is valid up to 31/08/2028.

A) Project details:

- **Products with change in product mix as below:**

Sr no.	Product Name	As per EC, TPM	As per CTO, TPM	Proposed (+)Addition & (-) Deletion, TPM	Proposed After CIPM , TPM
1.	Dextromethorphan Hydro bromide	20.83	20.83	-5.830	15.00
2.	Propofol	4.166	4.166	-2.66	1.506
3.	Bisoprolol Hemifumerate	4.166	4.166	-2.67	1.500
4.	Ritanilic Acid	3.00	3.00	-1.50	1.500
5.	Nicotine	25.00	25.00	-15.00	10.00
6.	Nicotine Bitartrate Dihydrate	1.00	1.00	0.00	1.000
7.	Nicotine Polacrilex	1.00	1.00	49.00	50.00

Sr no.	Product Name	As per EC, TPM	As per CTO, TPM	Proposed (+)Addition & (-) Deletion, TPM	Proposed After CIPM , TPM
8.	Albendazole	6.00	6.00	-6.00	0.00
9.	Phenylephirine Hydrochloride	5.00	5.00	-4.00	1.00
10.	Chlorthalidone	0.666	0.666	0.00	0.666
11.	Guanfacine Hydrochloride	0.083	0.083	0.00	0.083
12.	Diphenhydramine Hydrochloride	5.00	5.00	-4.00	1.00
13.	Atenolol	8.00	8.00	-8.00	0.00
14.	Hydrochlorothiazide	8.33	8.33	-8.33	0.00
15.	Iodobenzene diacetate	0.00	0.00	15.00	15.00
16.	Sacubitril B3	0.00	0.00	28.00	28.00
17.	Sacubitril B1	0.00	0.00	26.00	26.00
	Total	**92.241**	**92.241**	**(+) 60.01**	**152.255**

- **Change in the product mix in its existing facility will be achieved by decreasing production capacity of 7 Existing products, addition of 3 new products, deletion of 3 existing products, increasing manufacturing capacity of 1 existing product and keeping the capacity of remaining 3 products same.**
- **In the proposed activity, the total production capacity will increase from 92.241 TPM to 152.255 TPM i.e. 60.01 MT/M, keeping the pollution load within the consent limit.**

B) Pollution load Details:

(i) Water consumption Aspect before and after change in product mix.

Propose	As Per EC CMD	As Per CTO CMD	After change in product mix, CMD	Proposed Additional Water Consumption
Process	85	285	284.6	Nil
Other Industrial Activity	200			
Cooling Tower & Boiler (Utility)	875	875	875	
Total Trade	**1160**	**1160**	**1159.6**	
Domestic	25	25	25	Nil
Gardening	55	55	55	Nil
Grand Total	**1240**	**1240**	**1239.6**	

- Total water consumption is proposed to be reduced by 0.4 CMD after change in product mix.

(ii) Waste water aspect before and after change in product mix.

Propose	As Per EC, CMD	Existing As Per CTO, CMD	Effluent Generation after proposed change in product mix, CMD	Mode of Disposal & Ultimate Receiving Body
Process	75	300	299.9	Recycle 100 % to achieve ZLD
Other industrial activity	140			
Cooling Tower	85			
Total Industrial	**300**	**300**	**299.9**	
Domestic	23	23	23	
Grand Total	**323**	**323**	**322.9**	

- Industry has proposed a decrease in trade effluent by 0.1 CMD after change in product mix.

(iii) COD, BOD and TDS pollution load existing and after CIPM

Existing effluent characteristic:-				
	From Process		Other industrial activity, Cooling Tower & Boiler Blow down	
Flow (CMD)	75 (Strong)		225 (Weak)	
Parameter	Kg/Day	mg/L	Kg/Day	mg/L
COD	18161.0	242262	135	600
BOD	9080.2	121125	67.5	300
TDS	16618.0	221675	315	1400
After Product Mix Effluent characteristic:-				
	From Process		Other industrial activity, Cooling Tower & Boiler Blow down	
Flow (CMD)	74.96 (Strong)		225 (Weak)	
Parameter	Kg/Day	mg/L	Kg/Day	mg/L
COD	18160.0	247230	135	600
BOD	9080.0	125511	67.5	300
TDS	16617.0	221690	315	1400

- **After the proposed product mix the COD, BOD and TDS load of effluent are proposed to be reduced by 1 Kg/D, 0.2 Kg/D & 1 Kg/D respectively.**

C) **Treatment System: -**

- Trade Effluent: Trade Effluent is segregated into strong stream and weak stream. Primarily treated concentrated stream fed to stripper followed by MEE, ATFD. Condensate from MEE along with the lean stream is treated in conventional ETP comprising of primary, secondary and tertiary treatment. Tertiary treated wastewater is further fed to RO. RO permeate is being recycled and RO reject is being fed to MEE. Solvent from stripper is being disposed for Sale to Authorized party/ CHWTSDF. Salts from ATFD are sent to CHWTSDF.

- Sewage effluent: Domestic wastewater is being treated separately in STP. Domestic effluent is 100% recycled for secondary purposes to achieve 100% Zero Liquid Discharge (ZLD).

D) **Air Emission Load:**

i. **Flue gas Parameters: -**

Stack No.	Stack Attached to	As Per EC, Fuel Consumption	Existing as Per valid CTO and Renewal application	Fuel Consumption after Change in Product Mix	APC system	Stack Height
S-1	Boiler 10 TPH	14 TPH boiler 2 Nos (one standby) – FO 2332 kg/hr & Boiler 8 TPH – 2 Nos. (one standby)- FO 1332 kg/hr	Boiler 10 TPH & Thermic Fluid Heater 8 lakhs Kcal /hr LSHS 458 Kg/Hr	No change	Stack	33 m
	Thermic Fluid Heater 8 lakhs Kcal /hr	Thermic Fluid Heater 8 lacs Kcal/Hr - FO 50 kg/hr				
S-2	DG Set (2000 KVA)	HSD 300 Ltr/Hr	HSD 300 Ltr/Hr	No change	Acoustic enclosure	30 m
S-7	Fire Hydrant Pump Set	HSD 2 liter/day	HSD 0.083 Kg/Hr	No change	Stack	5 m

- **There is no change in the steam requirements. The fuel consumption of the boiler for the changed production profile will remain the same.**

ii) Process emissions and control systems:

Sr. No.	Stack attached to	APC system	Stack Height, m
1	Stack No-3	Acid Scrubber	20
2	Stack No-4	Acid Scrubber	20
3	Stack No-5	SO_2 Scrubber	20
4	Stack No-6	SO_2 Scrubber	20

- 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.

iii) Process emission parameters

Sr. No	Parameters	Before change in product-mix	After change in product-mix	MPCB Limit
1	Acid Mist	< 20 mg/Nm3	No Change	20 mg/Nm3
2	SO_2	< 50 ppm	No Change	50 ppm

E) Conditions under Hazardous & Other Wastes (M & T M) Rules 2016:

Sr. No	Type of Waste	Cat. No.	As Per EC, TPM	Existing as Per valid CTO, TPM	After a Change in product mix, TPM	Disposal
1	Used or Spent oil	5.1	0.3	0.3	0.3	Sale to authorized party/ CHWTSDF
2	Distillation residues	20.3	90	90	89.88	Pre-processing/Co-processing/CHWTSDF
3	Empty barrels /containers /liners contaminated with hazardous chemicals/ wastes.	33.1	300 Nos./M	300 Nos./M	300 Nos./M	Sale to authorized party/CHWTSDF

Sr. No	Type of Waste	Cat. No.	As Per EC, TPM	Existing as Per valid CTO, TPM	After a Change in product mix, TPM	Disposal
4	Spent solvents	20.2	75	75	74.92	Sale to authorized party/Re processor/ CHWTSDF
5	Spent catalyst	28.2	12	12	5.93	Recycle/Sale to authorized party/Re-processor/CHWTSDF
6	Spent carbon	28.3	30	30	29.9	Sale to authorized party / Pre-processing/Co-processing/CHWTSDF
7.	Chemical sludge from waste water treatment (ETP sludge)	35.3	90	90	90	Pre-processing/Co-processing/ CHWTSDF
8.	Concentration or evaporation residues. Inorganic MEE Salts	37.3	600	600	600	Pre-processing/Co-processing / CHWTSDF
9.	Process residues and wastes	28.1	-	-	6.07	Pre-processing/Co-processing /CHWTSDF
Total			**897.3 TPM** and Empty barrels /containers /liners contaminated with hazardous chemicals/ wastes **300 Nos./ M**	**897.3 TPM** and Empty barrels /containers /liners contaminate with hazardous chemicals/ wastes. **300 Nos./ M**	**897.0 TPM** and Empty barrels /containers /liners contaminated with hazardous chemicals/ wastes. **300 Nos/M**	

- **After Change in product mix there will be overall decrease in total hazardous waste generation from 897.3 TPM to 897 TPM i.e., by 0.3 TPM.**

Conditions under Batteries (Management & Handling) Rules, 2001:

Sr. No	Type of Waste	As Per EC (Nos/Month)	Existing as Per CTO (Nos/Month)	After Change in Product Mix Qty. (Nos/Month)	Disposal
1.	Battery Wastes	50	50	50	Sale to Authorized Party

Conditions under Plastic Waste Management Rules, 2016 (Notification under 18/03/2016)

Sr. No	Type of Waste	As Per EC	As Per CTO	After Change in Product Mix Qty.	Disposal
1.	Plastic waste	3 TPM	3 TPM	3 TPM	Sale to authorized Party.
2.	HDPE & Polythene bags	-	0.5 TPA	0.5 TPA	Sale to Authorized Recycler

Conditions under E-waste Management

Sr. No	Type of Waste	As Per EC Nos/month	Existing as Per CTO Nos/month	After Change in Product Mix Qty. Nos/month	Disposal
1.	E- waste	100	100	100	Sale to authorized Party.

Biomedical Waste generated to CBMWTSDF:

Sr. No	Category	Type of Waste	As Per EC kg/month	Existing as Per CTO kg/month	After Change in Product Mix Qty. kg/month	Disposal
1.	Yellow	Soiled Waste	As per generation	25	25	Pre-processing/Co-processing / CBMWTSDF

Non-Hazardous Waste

Sr. No	Type of Waste	As Per EC, TPM	As Per CTO, TPA	After Change in Product Mix Qty., TPA	Disposal
1	Mix Garbage (Canteen waste)	1.5	0.05 MT/day	0.05 MT/day	Disposal through Corporation/used as manure after OWC
2	Corrugated Boxes	3	0.5	0.5	Sale to authorized party
3	Office waste	1.5	0.5	0.5	Sale to authorized party
4	STP Sludge	0.3	0.01 MT/day	0.01 MT/day	Used as manure
5	Wooden Scrap	-	0.5	0.5	Sale to authorized party
6	M.S. Scrap	-	0.5	0.5	Sale to authorized party
7	Fins and flaps	-	0.5	0.5	Sale to authorized party
8	Insulated material / Glass wool	-	0.5	0.5	Sale to authorized party
9	Non-surgical cotton waste	-	6 kg/Annum	6 kg/Annum	Sale to authorized party

Sr. No	Type of Waste	As Per EC, TPM	As Per CTO, TPA	After Change in Product Mix Qty., TPA	Disposal
10	Glass scrap	-	0.5	0.5	Sale to authorized party
11	PVC/ PVDC aluminium foil	-	0.5	0.5	Sale to authorized party
12	Uncontaminated Oil Filters	-	10 Nos/Y	10 Nos/Y	Sale to authorized party
	Total	6.3 TPM	**4 TPA,** mix garbage and canteen waste **0.06 MT/day** and uncontaminated oil filters 10 Nos/Y	**4 TPA,** mix garbage and canteen waste **0.06 MT/day** and uncontaminated oil filters 10 Nos/Y	

Technical Committee Deliberations:

The proposed project was discussed on the basis of documents – NIPL Certificate and presentation made by the industry. Product wise load calculation in terms of wastewater, Air emissions & Hazardous waste generation were discussed. Existing consent to operate, Environmental Clearance, NIPL Certificate issued by Goldfinch Engineering Systems Pvt. Ltd and product mix Proforma are taken on the record.

Committee after due deliberations noticed that:

1) **Change in the product mix in its existing facility will be achieved by decreasing production capacity of 7 Existing products, addition of 3 new products, deletion of 3 existing products, increasing manufacturing capacity of 1 existing product and keeping the capacity of remaining 3 products same.**
2) **In the proposed activity, the total production capacity will increase from 92.241 TPM to 152.255 TPM i.e. 60.01 MT/M, keeping the pollution load within the consent limit.**
3) **Total water consumption is proposed to be reduced by 0.4 CMD after change in product mix.**

4) Industry has proposed a decrease in trade effluent by 0.1 CMD after change in product mix.
5) After the proposed product mix the COD, BOD and TDS load of effluent are proposed to be reduced by 1 Kg/D, 0.2 Kg/D & 1 Kg/D respectively.
6) There is no change in the steam requirements. The fuel consumption of the boiler for the changed production profile will remain the same.
7) 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.
8) After Change in product mix there will be overall decrease in total hazardous waste generation from 897.3 TPM to 897 TPM i.e., by 0.3 TPM.

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.
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

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Agenda item No	**04**
Proposal No.	**MPCB-CONSENT-0000193728**
Project Details	**M/s. Eternis Fine Chemicals Limited** D-9/1, D-9/2, D-9/3 & D-15 MIDC, Kurkumbh, Taluka.: Daund, District.: Pune.
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-0000193728 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.

Existing Clearances: -

1. Environmental Clearance is accorded to the industry by SEIAA vide No F. No. SEIAA-EC-0000000304 dated 17/05/2018.
2. Existing amendment in Consent to Operate under change in product mix was accorded vide No: Format1.0/CAC/UAN No. MPCB-CONSENT-0000119418/CO/2303002645, Date. 31.03.2023 valid upto 28.02.2025.

A) Project details: -

Sr. No.	Product Name	EC Quantity in TPM	Existing CTO Production Quantity		After CIPM Production Quantity		Remarks
			Quantity (TPD)	Quantity (TPM)	Quantity (TPD)	Quantity (TPM)	
1	Para /Ortho Tertiary Butyl Cyclohexanol OR	2250	31.4	2250	31.4	2571.3	No change
	Para /Ortho Tertiary Butyl Cyclohexyl Acetate						No change
	Para /Ortho Tertiary Butyl Cyclohexyl Acetate Super (PTBCHA/OTBCHA)		4.11		4.11		No change
	Styrallyl Acetate		4.27		4.27		No change
	Benzyl Salicylate		19.37		19.37		No change
	3,3,5 Trimethyl Cyclohexanol		0.5		0		Discontinue
	3,3,5 Trimethyl Cyclohexyl Salicylate or		0.5		0		Discontinue
	Homosalate USP		0.5		0.5		No change
	Methyl-3-oxo-2-pentyl-1-cyclopentane acetate		9.86		13.7		Increased
	Methyl Dihydro Jasmonate OR		0.5		0.5		No change
	Methyl Dihydro Jasmonate – High Cis						No change
	Hamber		9.86		9.86		No change
	Hydrogen		0.2		2		Increased
2	Ortho tertiary butyl cyclohexanol	345	2.836	345	2.836	345	No change
	Ortho tertiary butyl cyclohexyl acetate		2.836		2.836		No change
	Ortho tertiary butyl cyclohexyl acetate-s		2.836		2.836		No change
	Para teritary butyl cyclohexyl acetate		2.836		2.836		No change

3	3-methyl-3 penten-2 one or Methyl Pentene One	1267	1.37	1267	1.37	No change
	Hexyl Salicylate				3.7	Increased
	Alpha Hexyl Cinnamaldehdye AND OR				2.74	Increased
	Hexyl Cinnamic Aldehyde (HCA)		12.66		12.66	No change
	Phenyl Ethyl Alcohol OR		6.85		6.85	No change
	Beta Phenyl Ethyl Alcohol /		0.68		0.68	No change
	Phenyl Ethyl Acetate /		2.63		2.63	No change
	Phenyl Ethyl Methyl Ether /		1.37		1.37	No change
	Methoxy Ethyl Phenol		1.37		0	Discontinue
	Vanillin /		1.37		0	Discontinue
	Ethyl Vanillin		0.34		0	Discontinue
	Other similar ingredient chemicals	0	0.137		0.137	No change
	Octaldehyde		2.466		2.466	No change
	C-10 Aldehyde (N-Decaldehyde)		2.466		2.466	No change
	Amyl Cinnamic Aldehyde ACA		3.288		0.55	Reduced
	Triacetin (Glycol Acetates)		8.22		8.22	No change
	Methyl Salicylate		0		2.74	New addition
4	Para tertiary butyl cyclohexanol	322	4.932	322	4.932	No change
	Hedione – high cis		0.411		0.411	No change
	Phenyl hexanol		0.274		0.274	No change
	Dihydromyrcenol		0.274		0	Discontinue
	Florosol		0.244		0	Discontinue
	Cyclademol		0.233		0	Discontinue
	Water melon ketone		0.137		0.137	No change
	Osyrol		0.137		0	Discontinue
	Cashmeran		0.137		0	Discontinue
	Tetrahydromyrcenol		0.137		0	Discontinue
	Para tertiary butyl cyclohexanone		0.274		0.274	No change
	Ortho tertiary butyl cyclohexanone		0.274		0.274	No change

	2 -Methyl Cyclohexanol and 2-Methyl Cyclohexyl Acetate	0	1.315		1.315		No change
	Nonisyl Acetate		0.493		0.493		No change
	Cyclo Hexyl Salicylate		1.315		1.315		No change
	Yodanol (6-Phenyl-4-methyl-2-hexanol)		0		0.14		New addition
5	Cyclamen aldehyde	458	4.11	458	4.11	440.51	No change
	Phenyl ethylacetate		1.096		1.096		No change
	Coniferan		1.096		1.096		No change
	2-hydroxy benzaldehdye or		0.548		0		Discontinue
	Ortho hydroxyl benzaldehyde		0.753		0		Discontinue
	Amyl salicylate		2.63		2.63		No change
	Hexyl acetate		3.288		0.82		Reduced
	Aphermate		0.715		0		Discontinue
	Pentyl Cyclopentanone (PCP)	0	0.219		0.219		No change
	Acid Beta C – 16 Trans (ABC 16)		0.603		0.603		No change
	Octahydrocoumarin		0		0.137		New addition
	Mayol (Menthanol)		0		2.466		New addition
	Undecavertol		0		0.55		New addition
	Manzanate		0		0.82		New addition
	Triethyl Citrate		0		0.137		New addition
6	Coumarin	358	4.11	358	4.11	1635.33	No change
	Phenyl ethyl methyl ether		1.37		0		Discontinue
	Gamma lactones (undeca, deca, nona),		0.811		0.811		No change
	Benzyl Benzoate	0	5.479		2.74		Reduced
	DMBC/DMBCA/DMBCB		0		2.74		New addition
	Ethyl Acetate		0		40		New addition
	Etambernis (Ambercore)		0		1.37		New addition
	Oxygen		0		2.74		New addition

- **Industry has proposed change in product mix by decreasing the capacity of 03 Nos. of consented products, increasing the capacity of 3 Nos. of consented products, introducing 11 Nos. of new products under the same category, deleting 15 Nos. of consented products and keeping the production capacity of 42 Nos. of products same.**
- **Industry has proposed to increase the total production quantity from 5000 TPM to 6736.35 TPM.**

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	360	323.5	321.53
Washing and other Activities			
Cooling Tower & Boiler (Utility)	694	552	552
Total Trade	**1054**	**875.5**	**873.53**
Gardening	70	75	75
Domestic purpose	35	35	35
Grand Total	**1159**	**985.5**	**983.53**

- **After a change in product mix the total process water consumption is proposed to be reduced by 1.97 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	387	316.68	315.25
Cooling Tower & Boiler (Utility)			
Total Industrial	**387**	**316.68**	**315.25**
Domestic purpose	33	33	33
Grand Total	420	**349.68**	**348.25**

- **After a change in product mix Industry has proposed a decrease in the trade effluent by 1.43 CMD.**

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

Existing effluent characteristic: -		
	From Process	**Utilities blowdown**
Flow (CMD)	**316.68 CMD**	
Parameter	Kg/Day	
COD	6509.5	298.43
BOD	2169.83	99.27
TDS	9577.66	206

After Product Mix Effluent characteristic:-		
	From Process and Utilities	Utilities blowdown
Flow (CMD)	315.25 CMD	
Parameter	Kg/Day	
COD	6351.5	298.39
BOD	2117.16	99.25
TDS	9431.13	202

- **Average COD, BOD and TDS load after change in product mix is proposed to reduce by about 158 Kg/Day, 52.67 Kg/Day and 146.53 Kg/Day respectively from process effluent (HTDS/HCOD) & TDS load after change in product mix is proposed to reduce by about 4 Kg/Day from process, utility blowdown effluent (LTDS/LCOD)**

C) Treatment System: -
Trade Effluent: -

i) Strong COD/TDS stream of 194.85 CMD - Treatment system comprising of Primary (Primary) followed by Multi effect evaporator (3 stage) with design capacity of 250 CMD. The MEE condensate is treated in weak stream ETP.

ii) Weak COD/TDS stream of 120.37 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, Multi Efflective Evaporator (3 stage)) with design capacity of 330 CMD.

Sewage effluent: - Sewage Treatment Plant of designed capacity 35 CMD for the treatment of 33.1 CMD of sewage provided.

D) Air Emission Aspect: -

i) Flue Gas Emissions: -

Stack No.	Stack Attached to	Existing as per CTO under NIPL	Proposed Fuel Consumption	APC system	Stack Height (In meters)
S-1	IBR Boiler MR Balsam Plant	FO: 140 Kg/Hr	LDO: 140 Kg/Hr	Stack	34.5
S-2	IBE Boiler PEA Plant	FO: 140 Kg/Hr	LDO: 140 Kg/Hr	Stack	34.5
S-3	Thermic Fluid Heater - Coumarin	FO: 15 Kg/Hr	LDO: 15 Kg/Hr	Stack	34.5
S-4	Thermic Fluid Heater Supermax T/Hr	Diesel: 6 Kg/Hr	No Change	Stack	31
S-5	IBR Hamber Plant 2.5 T/Hr	FO: 100 Lit/Hr	LDO: 100 Lit/Hr	Stack	33
S-6	Vapour Heater Dowtherm-HCA	FO: 100 Kg/Hr	LDO: 100 Kg/Hr	Stack	33
S-7	IBR Boiler Hamber Plant 4.5 T/Hr	FO: 140 Kg/Hr	LDO: 140 Kg/Hr	Stack	34.5
S-8	IRB Boiler MPO Plant 2.5 T/hr	FO: 100 Kg/Hr	LDO: 100 Kg/Hr	Stack	33
S-9	IBR Boiler (2 Nos. x 6TPH) - Green Boiler	Briquette 1.5 MT/Hr	No change	Pulse Jet Bag filter & Dust collector	33
S-10	IBR Boiler (1 No x 15 TPH)- Green Boiler	Briquette 3.5 MT/Hr	No change	Pulse Jet Bag filter & Dust collector	33
S-11	DG set 100 KVA - OT/PT Plant	Diesel 55 Kg/Hr	No change	Acoustic Enclosure	3
S-12	DG set 100 KVA - FF pump	Diesel 55 Kg/Hr	No change	Acoustic Enclosure	3
S-13	DG sets 250 KVA - OT/PT Plant	Diesel 100 Kg/Hr	No change	Acoustic Enclosure	3.5
S-14	DG set 250 KVA Hydrogen Plant	Diesel 100 Kg/Hr	No change	Acoustic Enclosure	3.5

S-15 & S-16	DG set -2 Nos x 500 KVA-Balsam Plant	Diesel 200 Kg/Hr	No change	Acoustic Enclosure	5
S-17 & S-18	DG sets- 2 Nos x 500 KVA Hamber & ETP Plant	Diesel 200 Kg/Hr	No change	Acoustic Enclosure	5
S-19 & S-20	DG sets 2 x 500 KVA-New Hamber Plant	Diesel 200 Kg/Hr	No change	Acoustic Enclosure	5
S-21	DG sets-500 KVA-HCA plant	Diesel 200 Kg/Hr	No change	Acoustic Enclosure	5
S-22	DG sets-500 KVA-PEA plant	Diesel 200 Kg/Hr	No change	Acoustic Enclosure	5
S-23	DG sets-500 KVA - New OT plant	Diesel 200 Kg/Hr	No change	Acoustic Enclosure	5
S-24	DG sets - 500 KVA- Hedione Plant	Diesel 200 Kg/Hr	No change	Acoustic Enclosure	5
S-25 & S-26	DG set - 2 NO x 500 KVA-Green Boiler (old & new)	Diesel 200 Kg/Hr	No change	Acoustic Enclosure	5
S-27	HCl- Scrubber-HCA Plan	-	-	Scrubber	8
S-28	HCl Scrubber - PEA Plant *	-	-	Scrubber	8
S-29	HCL Scrubber - Hamber Plant	-	-	Scrubber	8

- **Industry has not proposed any changes in the steam requirements & fuel consumption of the boiler will remain the same as compared to existing consent.**

E) Hazardous Waste Aspect: -

Sr. No	Hazardous waste	Category	unit	Before Product Mix	After Product mix	Disposal	Remark
1	Chemical sludge from waste water treatment	35.3	TPD	1.85	1.85	CHWTSDF/Co-processing	No change
2	Distillation residues	29.1	TPD	4.004	4.004	Sale to Authorized party/ Co-processing /Pre-processing/ CHWTSDF	No change
3	Used or spent oil	5.1	TPD	0.42	0.42	Sale to Authorized party/ CHWTSDF	No change
4	Spent solvents	20.2	TPD	2.68	2.68	Sale to Authorized party/ CHWTSDF	No change
5	Spent ion exchange resin containing toxic metals	35.2	TPD	0.00108	0.00108	CHWTSDF	No change
6	Process wastes, residues and sludges	21.1	TPD	4.2	4.2	Sale to Authorized party/ CHWTSDF	No change
7	Discarded asbestos	15.2	TPD	0.024	0.024	CHWTSDF	No change
8	Empty barrels/containers /liners contaminated with hazardous chemicals /wastes	33.1	TPD	0.144	0.144	Sale to Authorized party/ CHWTSDF	No change
9	Concentration or evaporation residues	37.3	TPD	23.55	23.55	CHWTSDF	No change

10	Dilute Acetic Acid, Low Purity Distilled Products, Spent Oil/ Lube Oil, Carbon powder, Spent catalyst, Technical Grade OT/STAC/Benzyl Salicylate/Hamber/ Hexyl Salicylate, HCA, PEA, Vanillin/ Similar Products, Recovered Methanol, Recovered PE-PCP Mixture, Sodium Sulphate	-	TPM	950	950	Sale to Authorized party/ CHWTSDF	No change
11	Dilute Acids, Low Purity Distilled Products, Technical Grade OT/PT/STAC/Benzyl Salicylate /3,3,5 Trimethyl Cyclohexonal/ 3,3,5 Trimethyl Cyclohexyl Salicylate/ Coumarin/ Hamber / MPO (3-methyl-3 penten-2 one)/ n-Hexyl Salicylate/ Hexyl Cinnamic Aldehyde (HCA)/ Phenyl ethyl alcohol or beta phenyl ethyl alcohol/Para tertiary butyl cyclohexanol, Hedione – high cis, Phenyl hexanol, Dihydromyrcenol, Florosol, Cyclademol, Water melon ketone, Osyrol, Cashmeran, Tetrahydromyrcenol/Para tertiary butyl cyclohexanone, Ortho tertiary butylcyclohexanone, Cyclamen aldehyde, Phenyl ethylacetate, Coniferan, 2-	-	TPM	717	717	Sale to Authorized party/ CHWTSDF	No change

	hydroxy benzaldehdye or ortho hydroxyl benzaldehyde, Amyl salicylate, Hexyl acetate, Aphermate, Iso cyclocitral, Rosamusk, Cyclo hexyl ethyl acetate, Styrallyl propionate/ Coumarin, Phenyl ethyl methyl ether, Gamma lactones (undeca, deca,nona), Galaxolide, Rosinile, Dihydrocoumarin, Octahydrocoumarin, Recovered Solvents, Recovered PE-PCP Mixture, Recovered Salt						

- **After change in product mix 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 03 Nos. of consented products, increasing the capacity of 3 Nos. of consented products, introducing 11 Nos. of new products under the same category, deleting 15 Nos. of consented products and keeping the production capacity of 42 Nos. of products same.**
2) **Industry has proposed to increase the total production quantity from 5000 TPM to 6736.35 TPM.**
3) **After a change in product mix the total process water consumption is proposed to be reduced by 1.97 CMD.**
4) **After a change in product mix Industry has proposed a decrease in the trade effluent by 1.43 CMD after change in product mix.**
5) **Average COD, BOD and TDS load after change in product mix is proposed to reduce by about 158 Kg/Day, 52.67 Kg/Day and 146.53 Kg/Day respectively from process effluent (HTDS/HCOD) & TDS load after change in product mix is proposed to reduce by about 4 Kg/Day from process, utility blowdown effluent (LTDS/LCOD)**
6) **Industry has not proposed any changes in the steam requirements & fuel consumption of the boiler will remain the same as compared to existing consent.**
7) **After change in product mix 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 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.

Agenda item No	**05**
Proposal No.	MPCB-CONSENT-0000219902
Project Details	**M/s. SAR SENAPATI SANTAJI GHORPADE SUGAR LTD.,** G.no. 454,456,547,460/2,462,465/2,466,467/1,470.A/P- Belewadi-Kalamma Kagal
NIPL Certificate	NIPL Certificate issued by M/s. ULTRA-TECH.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000219902 along with the copies of documents seeking Amendment in consent under change in product mix under the provisions of EIA Notification 2006 amended on 23/11/2016 & amended on 02/3/2021.

Representatives of the industry did not attend the meeting due to some unavoidable circumstances.

In view of above, the Technical Committee decided to consider this proposal in next meeting.

Agenda item No	**06**
Proposal No.	**MPCB-CONSENT-0000219803**
Project Details	**M/s. Hikal Limited.** Plot No A18, MIDC Mahad, Tal. -Mahad & District. Raigad, Maharashtra.
NIPL Certificate	NIPL certificate issued by Aditya Environmental Services Pvt. Ltd. dated 12.12.2024

Introduction:
This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000219803 along with the copies of documents seeking renewal of existing consent to operate under change in product mix under the provision of EIA Notification 2006 and amendments thereof.

Exiting Clearances:
1. Environmental Clearance is granted to the industry ref no. F. No. J-11011/318/2016-IA II(I) dated 15/01/2018 with a total production capacity of 881.67 T/M (Technical Products), 84 T/M (Formulation) and 1350.78 T/M (By-Products).
2. The unit has obtained amendment in consent to operate under change in product mix vide No: - Format1.0/CC/UAN No. MPCBCONSENT-0000170754/CR/2402000257 dated 03/02/2024 with a total production capacity of 9824.04 TPA (Technical Products), 4008 TPA (Formulations) and 20500 Kg/Day (Bio-products) which was valid up to 31/10/2024. During renewal of consent dated 23/03/2023, all by-products were shifted under Hazardous waste.

A) Project details:

- **Products with change in product mix as below:**

Sr. No.	Name of Product	As per EC, TPA	Existing as per CTO, TPA	Increment / Decrement, TPA	After proposed change in product mix, TPA
1	MMPDC (5 Methoxy Methyl Pyridine 2,3 dicarboxyalic acid)	600.00	600.00	-600.00	0.00
2	MMPDC (5 Methoxy Methyl Pyridine 2,3 dicarboxyalic acid) OR EHT - Ethyl Hexyl Triazone and Intermediates OR	0.00 0.00	0.00 0.00	250.00 240.00	250.00 240.00

Sr. No.	Name of Product	As per EC, TPA	Existing as per CTO, TPA	Increment / Decrement, TPA	After proposed change in product mix, TPA
	Bemotrizinol (Bis-ethyl hexyl oxy phenol Methoxyphenyl Triazine) OR	0.00	0.00	80.00	80.00
	OMC - Octyl Methoxy Cinnaminate OR	0.00	0.00	700.00	700.00
	PBSA - Phenyl Benzimidazole Sulphonic Acid and Intemediates OR	0.00	0.00	250.00	250.00
	BMDM OR	0.00	0.00	400.00	400.00
	Triclocarbon (TCC) OR	0.00	0.00	1000.00	1000.00
3	MMPDC (5 Methoxy Methyl Pyridine 2,3 dicarboxyalic acid) OR	0.00	0.00	200.00	200.00
	Imazamox OR	0.00	0.00	150.00	150.00
	EHT - Ethyl Hexyl Triazone and Intermediates OR	0.00	0.00	240.00	240.00
	Bemotrizinol (Bis-ethyl hexyl oxy phenol Methoxyphenyl Triazine) OR	0.00	0.00	60.00	60.00
	OMC - Octyl Methoxy Cinnaminate OR	0.00	0.00	700.00	700.00
	PBSA - Phenyl Benzimidazole Sulphonic Acid and Intemediates OR	0.00	0.00	250.00	250.00
	BMDM OR	0.00	0.00	400.00	400.00
	Triclocarbon (TCC)	0.00	0.00	1000.00	1000.00
4	MMPDC (5 Methoxy Methyl Pyridine 2,3 dicarboxyalic acid) OR	0.00	0.00	150.00	150.00
	Imazamox OR	0.00	0.00	150.00	150.00
	MPDC DME OR	0.00	24	0.00	24.00
	EHT - Ethyl Hexyl Triazone and Intermediates OR	0.00	0.00	240.00	240.00
	Bemotrizinol (Bis-ethyl hexyl oxyphenol Methoxyphenyl Triazine) OR	0.00	0.00	60.00	60.00
	OMC - Octyl Methoxy Cinnaminate OR	0.00	0.00	600.00	600.00

Sr. No.	Name of Product	As per EC, TPA	Existing as per CTO, TPA	Increment / Decrement, TPA	After proposed change in product mix, TPA
	PBSA - Phenyl Benzimidazole Sulphonic Acid and Intermediates OR	0.00	0.00	200.00	200.00
	BMDM OR	0.00	0.00	200.00	200.00
	Triclocarbon (TCC)	0.00	0.00	1000.00	1000.00
5	3,5 Dichloro Aniline (3,5 DCA)	1800.00	720.00	-720.00	0.00
6	TFMAP (3- Trifluoromethyl acetophenone)	0.00	120.00	-120.00	0.00
7	Trifloxystrobin	300.00	240.00	-240.00	0.00
8	3,5 Dichloro Aniline (3,5 DCA) OR	0.00	0.00	400.00	400.00
	Methoxy Amine Hydrochloride OR	0.00	180	0.00	180.00
	TFMAP (3- Trifluoromethyl acetophenone) OR	0.00	0.00	60.00	60.00
	Trifloxystrobin OR	0.00	0.00	120.00	120.00
	Benfuresate	120	60	0.00	60.00
9	3,5 Dichloro Aniline (3,5-DCA) OR	0.00	0.00	0.00	320.00
	TFMAP (3- Trifluoromethyl acetophenone) OR	0.00	0.00	60.00	60.00
	Azamethiphos OR	0.00	60.00	-50.00	10.00
	Benzofenap OR	180	180.00	-80.00	100.00
	Trifloxystrobin	0.00	0.00	120.00	120.00
10	Thiacloprid	300.00	180.00	-180.00	0.00
11	TZOX (TZOXNa.2H2O)	0.00	120.00	-120.00	0.00
12	Thiacloprid OR	0.00	0.00	90.00	90.00
	Diflufenican OR	0.00	120.00	-70.00	50.00
	TZOX (TZOXNa.2H2O) OR	0.00	0.00	60.00	60.00
	Phenylacetamide (KA) OR	0.00	0.00	50.00	50.00
	2,4,6-Triisopropyl Aniline (TRIPA) OR	0.00	0.00	300.00	300.00
	Clothianidin	180.00	60.00	-40.00	20.00
13	TZOX (TZOXNa.2H2O) OR	0.00	0.00	60.00	60.00
	Phenylacetamide (KA) OR	0.00	0.00	50.00	50.00
	Thiacloprid OR	0.00	0.00	90.00	90.00

Sr. No.	Name of Product	As per EC, TPA	Existing as per CTO, TPA	Increment / Decrement, TPA	After proposed change in product mix, TPA
	AF 02(4-Acetoxy-6- tert-Butyl-8- Fluro-2,3-Dimethyl Quinoline) OR	99.96	99.96	0.04	100.00
	APP (2' Amino-2' Methyl-(4- Isopropyloxy-6-methyl)- propiophenone) (On 100% Basis)	200.04	200.04	-0.04	200.00
14	Diuron	6000.00	6000.00	-6000.00	0.00
15	Diuron OR	0.00	0.00	3000.00	3000.00
	Zinc Pyrithione OR	0.00	60.00	-40.00	20.00
	Mesotrione OR	0.00	120.00	-80.00	40.00
	Tembotrione OR	0.00	60.00	-20.00	40.00
	Ethyclozate OR	20.04	20.04	-0.04	20.00
	Fludioxanil OR	300.00	60.00	0	60.00
	SMPGM (S Methyl Phenyl Glycine Methylester)	180.00	60.00	+20.00	80.00
16	Diuron	0.00	0.00	2000	2000
	Ethiprole OR	0.00	0.00	100.00	100.00
	Azoxystrobin OR	300.00	240.00	-120.00	120.00
	((5-Amino-2-chloro-4-fluorophenyl) thio)methyl acetate OR	0.00	0.00	25.00	25.00
	Hexahydropyridazine dihydrochloride OR	0.00	0.00	15.00	15.00
	N-(3,4- Dichlorophenyl) octanamide (DCPO) OR	0.00	0.00	100.00	100.00
	FDFA OR	0.00	0.00	40.00	40.00
	Metamifop OR	0.00	120	-20.00	100.00
	Prohexadione Ca	0.00	0.00	100.00	100.00
17	Diuron OR	0.00	0.00	1000.00	1000.00
	FDFA OR	0.00	0.00	40.00	40.00
	Saccharin Imide and its intermediates OR	0.00	0.00	200.00	200.00
	2-Chlorobromobenzene (CBB) OR	0.00	0.00	100.00	100.00
	((5-Amino-2-chloro-4-fluorophenyl)thio)methyl acetate OR	0.00	0.00	25.00	25.00
	Hexahydropyridazine dihydrochloride	0.00	0.00	15.00	15.00

Sr. No.	Name of Product	As per EC, TPA	Existing as per CTO, TPA	Increment / Decrement, TPA	After proposed change in product mix, TPA
18	FHMB (2-Fluoro-6-hydroxy Methyl Benzoate)	0.00	60	-60.00	0.00
19	Imidazoline Dione	0.00	60	-60.00	0.00
20	R&D Products and Intermediates (Like DPP, Fluxametamide Int-3, Ethyl-1.3,4-trimethyl-1H-pyrazole-5-carboxylate, 3-Methylbutan-2-amine, etc)	0.00	0.00	40.00	40.00
Sub Total		**10580.04**	**9824.04**	**435.96**	**10260.00**
21	Formulations	1008.00	1008.00	0.00	1008.00
22	Biocides (Formulations)	0.00	3000.00	0.00	3000.00
Sub total		**1008.00**	**4008.00**	**0.00**	**4008.00**
List of Bio-products					
1	Biosol Odour Eliminator	0.00	2050 Kg/Day	0.00	2050 Kg/Day
2	Biosol Biosurf	0.00	2050 Kg/Day	0.00	2050 Kg/Day
3	Biosol Biotrack	0.00	2050 Kg/Day	0.00	2050 Kg/Day
4	Biosol Bioclean	0.00	2050 Kg/Day	0.00	2050 Kg/Day
5	Biosol MAC	0.00	2050 Kg/Day	0.00	2050 Kg/Day
6	Biosol Sanibac	0.00	2050 Kg/Day	0.00	2050 Kg/Day
7	Biosol Biotrap	0.00	2050 Kg/Day	0.00	2050 Kg/Day
8	Biosol Biospot	0.00	2050 Kg/Day	0.00	2050 Kg/Day
9	Biosol Biosep STC	0.00	2050 Kg/Day	0.00	2050 Kg/Day
10	Biosol Bioscrub	0.00	2050 Kg/Day	0.00	2050 Kg/Day
Sub Total		**0.00**	**20500 Kg/Day**	**0.00**	**20500 Kg/Day**

- **Change in the product mix in its existing facility is achieved by Decreasing capacity of 11 existing products, Increasing capacity of 2 existing products, Keeping the production capacity same for 13 existing products, Addition of 18 new products and Splitting of 7 existing product quantity into multiple groups.**
- **The proposed activity is in such a way that the total production capacity of the plant will be increased i.e., from 9824.04 TPA to 10260.00 TPA by 435.96 TPA (increase) (Technical products), Existing Formulation 4008 TPA and Bio-products 20500 Kg/Day will remain the same, keeping the pollution load within the consent limit.**

B) **Pollution load Details:**

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
Processing whereby water gets polluted, and pollutants are easily biodegradable	581	216.4	216.2
Industrial Cooling, spraying in mine pits or boiler feed		280	280
Total Trade		**496.4**	**496.2**
Gardening		32	32
Domestic purpose		50	50
Grand Total	**581**	**578.4**	**578.2**

- **Total process water consumption will reduce by 0.2 CMD after proposed change in product mix.**

ii. **Waste water aspect before & after proposed change in product mix:**

Particular	As Per EC, CMD	Existing as Per CTO, CMD	After change in product mix, CMD
Processing whereby water gets polluted, and pollutants are easily biodegradable	240	192	191.9
Industrial Cooling, spraying in mine pits or boiler feed			
Total Industrial		192	191.9
Domestic purpose		45	45
Grand Total	**240**	**237**	**236.9**

- **Industry has proposed to decrease in the trade effluent quantity by 0.1 CMD.**

iii. COD, BOD and TDS Pollution load existing and after change in product mix

Existing effluent characteristic:-				
	From Process		From utilities blowdown & Washing Activity	
Flow (CMD)	116 (Strong)		76 (Weak)	
Parameter	Kg/Day	mg/L	Kg/Day	mg/L
COD	29764.3	256647	44.8	589
BOD	14286.9	123191	22.4	295
TDS	9686.0	83519	89.6	1179
After Product Mix Effluent characteristic:-				
	From Process		From utilities blowdown & Washing Activity	
Flow (CMD)	115.9 (Strong)		76 (Weak)	
Parameter	Kg/Day	mg/L	Kg/Day	mg/L
COD	29731.7	256568	44.8	589
BOD	14274.2	123182	22.4	295
TDS	9662.0	83378	89.6	1179

- After the proposed product mix the COD, BOD and TDS load of effluent are proposed to be reduced by 32.6 Kg/D, 12.7 Kg/D & 24 Kg/D respectively.

C) Treatment System

Trade Effluent:

- The trade effluent is segregated into High TDS/ High COD (115.9 CMD) & Low TDS/ Low COD (76 CMD)
- High TDS stream from process is treated in Stripper, MEE followed by ATFD. Condensate from MEE along with primarily treated Low TDS stream is fed to Secondary (Bio reactor), followed by Tertiary (Pressure sand filter & Activated carbon filter).
- Tertiary treated wastewater amounting to 64 CMD is discharged to CETP, and the remaining is fed to RO. RO permeate is recycled in utilities & RO reject is fed to MEE. Salts from ATFD sent to CHWTSDF.

Domestic Effluent:

- Domestic wastewater amounting to 45 CMD is treated separately in STP, having capacity 50 CMD. Treated domestic wastewater is being recycled for gardening and cooling tower.

D) **Air Emission Load:**

i. **Flue gas stack details:**

Stack No.	Stack Attached to	As Per EC, Fuel Consumption	As Per Valid CTO, Existing Fuel Consumption	Fuel Consumption after Change in Product Mix	APC system	Stack Height
S-1	DG Set 125 KVA	Not Mentioned	HSD 13.5 Kg/Hr	NO Change	Acoustic Enclosure stack	9 m
S-2	DG Set 500 KVA	Not Mentioned	HSD 170 Kg/Hr	NO Change	Acoustic Enclosure stack	11 m
S-6	DG Set 500 KVA	Not Mentioned	HSD 170 Kg/Hr	NO Change	Acoustic Enclosure Stack	11 m
S-7	Thermopack, Boiler (4 TPH), Boiler (IAEC-5 TPH)	Furnace oil	HSD 275 Kg/Hr	NO Change	Multicyclone, Dust Collector, Bag Filter ** and Common Stack	40 m
		Briquette	Briquette 625 Kg/Hr			
		Furnace oil	LSHS 277 Kg/Hr			

In existing consent, APC for Thermopack 2 Lac Kcal/hr, Boiler (4 TPH), Boiler (IAEC-5 TPH) mentioned is Multicyclone, Dust Collector with common stack, unit has also installed Bag filter to improve the efficiency of pollution control.

There is no change in the steam requirements. The fuel consumption of the boiler for the changed production profile will remain the same.

ii. **Process emissions and control systems:**

Sr. No.	Stack Attached to	APC system	Stack Height
1	Process Vent Chlorine	Scrubber	15 m
2	Process Vent Bromine	Scrubber	15 m
3	Process Vent TMA	Scrubber	15 m
4	Process Vent NOx	Scrubber	15 m
5	Process Vent (HMP-447)	Scrubber	15 m
6	Process vent (General Scrubber)	Scrubber	15 m

- **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.**

Process Emission Parameter: -

Sr. No	Parameters	Before change in product-mix	After change in product-mix	MPCB Limit
1	SO_2	<50 ppm	No Change	<50 ppm
2	Bromine	0.1 ppm	No Change	<3 ppm
3	NO_x	41 ppm	No Change	<50 ppm
4	Chlorine	<3 ppm	No Change	<3 ppm
5	NH_3	<15 ppm	No Change	<15 ppm
6	Acid Mist	4 ppm	No Change	<35 mg/Nm^3

E) Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:

Sr. No	Type of Waste	Cat. No.	As Per EC (TPA)	As Per CTO. (TPA)	After Change in Product Mix Qty. (TPA)	Disposal
1.	Process waste sludge/ residues containing acid, toxic metals, organic compounds	29.1	300	583.1	514.7	Sale to authorized party / CHWTSDF/Co-processing
2.	Spent Catalyst	29.5	(36 + 11.856*) =47.856	47.7	44.2	Sale to authorized party / CHWTSDF/Co-processing
3.	Empty barrels /containers /liners contaminated with hazardous chemicals /Wastes	33.1	6030	6030	6030	Sale to authorized party / CHWTSDF/Co-processing

Sr. No	Type of Waste	Cat. No.	As Per EC (TPA)	As Per CTO. (TPA)	After Change in Product Mix Qty. (TPA)	Disposal
4.	HCl	-	600*	120.0	166.9	Sale to authorized party / CHWTSDF/Co-processing
5.	Acetone	-	522	299.6	299.6	Sale to authorized party / CHWTSDF/Co-processing
6.	Spent Solvents	29.4	30	616.9	607.3	Sale to authorized party / CHWTSDF/Co-processing
7.	Spent Solvents (from stripper)	29.4	-	1800	1800	Sale to authorized party / CHWTSDF/Co-processing
8.	Sodium Bromide Solution	-	7200	10572	10572	Sale to authorized party / CHWTSDF/Co-processing
9.	Potassium bromide solution	-	2064	1651.2	1651.2	Sale to authorized party / CHWTSDF/Co-processing
10.	Calcium Sulphate (Gypsum)	-	2550.5	1667.3	1667.3	Sale to authorized party / CHWTSDF/Co-processing
11.	Waste or residues containing oil	5.2	-	6	6	Sale to authorized party / CHWTSDF/Co-processing
12.	Distillation residues	20.3	99	613	647	Sale to authorized party / CHWTSDF/Co-processing
13.	Sludge filters contaminated with oil	3.3	1.8	1.8	1.8	Sale to authorized party / CHWTSDF/Co-processing

Sr. No	Type of Waste	Cat. No.	As Per EC (TPA)	As Per CTO. (TPA)	After Change in Product Mix Qty. (TPA)	Disposal
14.	Sludge from treatment of wastewater arising out of cleaning/ disposal of barrels / containers	34.2	-	1.2	1.2	CHWTSDF
15.	Sodium Sulphate	-	-	1250.6	1250.6	Sale to authorized party / CHWTSDF/Co-processing
17.	TMA + Methanol	-	600	300.2	300.2	Sale to authorized party / CHWTSDF/Co-processing
18.	Used or spent oil	5.1	0.6	0.6	0.6	Sale to authorized party / CHWTSDF/Co-processing
19.	Chemical Sludge from wastewater treatment	35.3	67.8	65.3	65.3	CHWTSDF
20.	Evaporation residue	37.3	4465	3769.8	3769.8	Sale to authorized party / CHWTSDF/Co-processing
21.	Filters and filter material	-	6	-	-	CHWTSDF
Total			11036.2 TPA & By-product 16209.36 TPA = Total 27245.56 TPA	11375.4 TPA Haz waste + By-product 15860.9 TPA + 1800 TPA (Addl. spent solvent from stripper) +	(11327.9 TPA Haz waste + By-product 15907.8 TPA +	

Sr. No	Type of Waste	Cat. No.	As Per EC (TPA)	As Per CTO. (TPA)	After Change in Product Mix Qty. (TPA)	Disposal
				360 TPA (Additional MEE Salts) =**29396.3 TPA**	1800 TPA (Addl. spent solvent from stripper) + 360 TPA (Additional MEE Salts) = **29395.7 TPA**	

- The existing consent was recommended for amendment in consent to Operate under change in product mix in the 4th Technical Committee meeting of 2023-2024 held on 28/11/2023, wherein it was noted that the total Hazardous Waste is increasing by 1800 MT/A due to upgradation of pollution control system i.e., spent solvents -1800 TPA due to installation of stripper i.e., upgradation of ETP.
- The overall Hazardous Waste will decrease from 29396.3 TPA to 29395.7 TPA as compared to existing consent.

F) Conditions under Plastic Waste Management Rules, 2016 (Notification dated. 18/03/2016):

Sr. No	Type of Waste	Cat. No.	As Per EC	As Per CTO.	After Change in Product Mix Qty.	Disposal
1.	Plastic Waste/ Plastic Bottles	-	-	300 Kg/Annum	300 Kg/Annum	Sale to Authorized party.

G) Non Hazardous waste:

Sr. No	Type of Waste	As Per EC	As Per CTO (TPA)	Existing Qty. (TPA)	After Change in Product Mix Qty. (TPA)	Disposal
1	Metal Scrap	Not Mentioned	20	20	20	Sale to authorized party
2	Wood Scrap	Not Mentioned	1	1	1	Sale to authorized party
3	Broken Glass	Not Mentioned	1	1	1	Sale to authorized party
4	Briquette ash	Not Mentioned	600	600	600	Sale to Brick Manufacturer/Landfill

Technical Committee Deliberations:

The proposed project was discussed on the basis of documents – NIPL Certificate and presentation made by the industry. Product wise load calculation in terms of wastewater, Air emissions & Hazardous waste generation were discussed. Existing consent to operate, Environmental Clearance, NIPL Certificate issued by Aditya Environmental Services Pvt. Ltd. and product mix Proforma are taken on the record.

Committee after due deliberations noticed that;

1) **Change in the product mix in its existing facility is achieved by Decreasing capacity of 11 existing products, Increasing capacity of 2 existing products, Keeping the production capacity same for 13 existing products, Addition of 18 new products and Splitting of 7 existing product quantity into multiple groups.**
2) **The proposed activity is in such a way that the total production capacity of the plant will be increased i.e., from 9824.04 TPA to 10260.00 TPA by 435.96 TPA (increase) (Technical products), Existing Formulation 4008 TPA and Bio-products 20500 Kg/Day will remain the same, keeping the pollution load within the consent limit.**
3) **Total process water consumption will reduce by 0.2 CMD after proposed change in product mix.**
4) **Industry has proposed to decrease in the trade effluent quantity by 0.1 CMD.**
5) **After the proposed product mix the COD, BOD and TDS load of effluent are proposed to be reduced by 32.6 Kg/D, 12.7 Kg/D & 24 Kg/D respectively.**
6) **There is no change in the steam requirements. The fuel consumption of the boiler for the changed production profile will remain the same.**
7) **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.**
8) **The existing consent was recommended for amendment in consent to Operate under change in product mix in the 4th Technical Committee meeting of 2023-2024 held on 28/11/2023, wherein it was noted that the total Hazardous Waste is increasing by 1800 MT/A due to upgradation of pollution control system i.e., spent solvents -1800 TPA due to installation of stripper i.e., upgradation of ETP.**
9) **The overall Hazardous Waste will decrease from 29396.3 TPA to 29395.7 TPA as compared to existing consent.**

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.
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

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Agenda item No	**07**
Proposal No.	**MPCB-CONSENT-0000216962**
Project Details	**M/s. Hikal Ltd.** Plot No. T-21, MIDC Taloja, Tal. Panvel, Dist. Raigad-410208.
NIPL Certificate	NIPL certificate issued by Goldfinch Engineering Systems Pvt. Ltd., No., Date: 09/09/2024

Introduction:
This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000216962 along with the copies of documents seeking amendment in existing consent to operate under change in product mix under the provision of EIA Notification 2006 amended on 02.03.2021 and thereof.

Exiting Clearances:

1. Environmental Clearance is granted to the industry by MoEF and CC vide No J-11011/63/2007-IA II(I) dated 28/08/2007 for the total production capacity of 1800 TPA.
2. The unit has obtained amendment in Consent to Operate under change in product mix vide No: - Format1.0/CAC/UAN No.0000213107/CR/2412000706 dated 10/12/2024 valid up to 31707/2029.

A) Project details:

H) Products with change in product mix as below:

Sr. No	Sub Sr. No	Product Name	As per EC issued on 28.08.2007, TPA	Existing Quantity as per CTO dtd 10.12.2024 , TPA	Addition (+)/ Deletion (-), TPA	After proposed change in product mix, TPA
1	a	Thiabendazole (TBZ)	700	550	(-) 550	0
2	a	Thiabendazole (TBZ)	0	0	(+) 200	200
3	a	Thiabendazole (TBZ) OR	0	0	(+) 200	200
	b	Trifloxystrobin technical	0	0	(+) 200	

Sr. No	Sub Sr. No	Product Name	As per EC issued on 28.08.2007, TPA	Existing Quantity as per CTO dtd 10.12.2024 , TPA	Addition (+)/ Deletion (-), TPA	After proposed change in product mix, TPA
4	a	Thiabendazole (TBZ) OR	0	0	(+)30	30
	b	1-Bromo-2-chlorobenzene (CBB) OR	0	0	(+) 30	30
	c	Dichloro Octanamide (DCPO) OR	0	0	(+) 30	30
	d	3,4,4'Trichlorocarbanilide/Triclocarban (TCC)	0	0	(+) 70	70
5	a	HTP-213 (Fenamidone) OR	300	150	(-95)	55
	b	(s)-Methyl 2-amino-2-phenylpropanoate (SMPGM) OR	0	0	(+) 55	55
	c	Thiabendazole (TBZ)	0	0	(+) 30	30
	d	Ethylhexyl triazone (EHT) OR	0	0	(+) 30	30
	e	Phenylbenimidazole sulfonic acid (PBSA)	0	0	(+) 30	30
6	a	Isofetamide (Technical) IKF OR	0	40	(-) 20	20
	b	MPDC-DME OR	0	100	(-)100	0
	c	MPDC OR	0	100	(-)100	0
	d	HTP-213 (Fenamidone) OR	0	0	(+) 60	60
		(s)-Methyl 2-amino-2-phenylpropanoate (SMPGM) OR	0	0	(+) 60	60
	e	Sodium-4-(2,4-dichloro-m-toluoyl)-1,3-dimethyl pyrazole-5-olate (MY710Na) (R1) OR	0	0	(+) 50	50
	f	Octyl Methoxycinnamate OMC	0	0	(+) 20	20

Sr. No	Sub Sr. No	Product Name	As per EC issued on 28.08.2007, TPA	Existing Quantity as per CTO dtd 10.12.2024 , TPA	Addition (+)/ Deletion (-), TPA	After proposed change in product mix, TPA
7	a	HTP-213 (Fenamidone) OR	0	0	(+) 75	75
		(s)-Methyl 2-amino-2-phenylpropanoate (SMPGM) OR	0	0	(+) 75	75
	b	2-Amino-5-chlorobenzoic Acid (ABA) OR	0	0	(+)180	180
	c	1-cyclopropylethanamine hydrochloride (CPAH) OR	0	0	(+)180	180
	d	Phenylbenimidazole sulfonic acid OR	0	0	(+) 180	180
	e	Octyl Methoxycinnamate (OMC) OR	0	0	(+) 180	180
	f	Dibenzo[b,f][1,4]thiazepin-11(10H)-one (QTP2)	0	0	(+) 75	75
8	a	Thiabendazole (TBZ) OR	0	0	(+) 35	35
	b	Isofetamide (Tehnical) IKF OR	0	0	(+)20	20
	c	1-Bromo-2-chlorobenzene (CBB)	0	0	(+)100	100
9	a	Ethylhexyl triazone (EHT) OR	0	0	(+) 60	60
	b	HTP-650	0	0	(+) 200	200
10	a	Phenylbenimidazole sulfonic acid (PBSA) OR	0	0	(+) 100	100
	b	Isofetamide (Tehnical) IKF	0	0	(+) 20	20
11	a	MPDC-DME	0	650	(-) 650	0
12	a	MPDC-DME OR	0	0	(+) 350	350
	b	MPDC	0	0	(+) 100	100

Sr. No	Sub Sr. No	Product Name	As per EC issued on 28.08.2007, TPA	Existing Quantity as per CTO dtd 10.12.2024 , TPA	Addition (+)/ Deletion (-), TPA	After proposed change in product mix, TPA
13	a	MPDC-DME OR	0	0	(+) 190	190
	b	MPDC OR	0	0	(+) 100	100
	c	HTP-650 OR	0	0	(+) 100	100
	d	Dibenzo[b,f][1,4]thiazepin-11(10H)-one (QTP2)	0	0	(+) 75	75
14	a	Ametoctradibne (B.A.S-650/HTP-650)	0	700	0	700
15	a	Isofetamide (Tehnical) IKF	0	0	(+) 60	60
16	a	MPDC OR	0	100	(-) 100	0
	b	Cyclanilineprol (IKI- New Process) OR	0	50	(-) 50	0
	c	Valifenalate OR	0	50	(-) 50	0
	d	Isofetamide (Tehnical) IKF	0	20	(-) 20	0
17	a	BMDM- Butyl Methoxy Dibenzoyl methane	0	0	(+) 60	60
18	a	Octyl Methoxycinnamate OMC	0	0	(+) 200	200
19	a	Pyriprol OR	0	30	0	30
		Bemotrizinol(POC Based)/ Triazine derivatives OR /R & D products & all developing molecules OR	0	0	(+) 30	30
		Azamethiphos (AZA) &All developing molecule, R & D products	0	30	0	30
20	Bifenazate		100	0	(-) 100	0
21	ADMP		200	0	(-) 200	0

Sr. No	Sub Sr. No	Product Name	As per EC issued on 28.08.2007, TPA	Existing Quantity as per CTO dtd 10.12.2024 , TPA	Addition (+)/ Deletion (-), TPA	After proposed change in product mix, TPA
22	IPDO		300	0	(-) 300	0
23	Intermediates of HTP-293		200	0	(-) 200	0
	Total TPA		**1800**	**2280**	**(+) 475**	**2755**

- **Industry has proposed a change in product mix by Addition of 13 new products, keeping production capacity same of 3 existing products, decreasing production capacity of 2 existing products, deleted production quantity of the 2 existing products, Splitting of quantity of 6 existing products into multiple groups.**
- **Industry has proposed that the total production capacity of the plant will be increased from 2280 MT/A to 2755 MT/A i.e. 475 MT/A increase in production capacity, keeping the pollution load within the consent limit.**

B) Pollution load Details:

(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	1200	793.0	791.4
Washing and other Activities		304.0	304.0
Cooling Tower & Boiler (Utility)		**1097.0**	**1095.4**
Total Trade		30.0	30.0
Gardening		35.0	35.0
Domestic purpose		**1162.0**	**1160.4**
Grand Total	**1200**		

- **Total water consumption will reduce by 1.6 CMD after proposed change in product mix.**

(ii) **Waste water 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	823.0	739.9	739.5
Cooling Tower & Boiler (Utility)			
Washing Activity			
Total Industrial		**739.9**	**739.5**
Domestic purpose		30	30.0
Grand Total	**823.0**	769.9	769.5

- Industry has proposed to decrease in the trade effluent quantity by 0.4 CMD.

(iii) COD, BOD and TDS Pollution load existing and after change in product mix

At Actual existing effluent characteristic: -				
	From Process		From Cooling Tower & Boiler Blowdown, Washing Activity	
Flow (CMD)	118 (Strong)		621.9 (Weak)	
Parameter	Kg/Day	mg/L	Kg/Day	mg/L
COD	11315.3	95917	697.6	1122
BOD	5329.0	45173	348.8	561
TDS	18005.7	152630	861.4	1385

After Product Mix Effluent characteristic: -				
	From Process		From Cooling Tower & Boiler Blowdown, Washing Activity	
Flow (CMD)	117.6 (Strong)		621.9 (Weak)	
Parameter	Kg/Day	mg/L	Kg/Day	mg/L
COD	11076.3	94151	697.6	1122
BOD	5230.7	44462	348.8	561
TDS	17482.4	148606	861.4	1385

- **After the proposed product mix the COD, BOD & TDS values of effluent decreased by 2.11%, 1.84%, 2.90% respectively.**

C) **Effluent Treatment System**

1. **Trade Effluent:**

- The industry has provided Effluent Treatment Plant. The trade effluent is segregated into High TDS/ High COD (117.6 CMD) & Low TDS/ Low COD (621.9 CMD). High TDS stream from process is treated in Stripper, MEE followed by ATFD. Condensate from MEE along with primarily treated Low TDS stream is fed to Secondary (Bio reactor), followed by Tertiary (Pressure sand filter & Activated carbon filter). Tertiary treated wastewater amounting to 739.5 CMD is discharged to CETP after meeting the MPCB norm.

2. **Domestic Effluent:**

- Domestic wastewater amounting to 30 CMD is treated separately in STP having capacity 50 CMD. Treated domestic wastewater is discharged to CETP after meeting the MPCB norm.

D) Air Emission Aspect:

i. Flue gas stack details:

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	D.G. Set (1500 KVA)	Not Mentioned	Diesel: 10 MT/M	No Change	Acoustic Enclosure	6
2	S-2	Steam Boiler [B-920A/B (Standby)]	Not Mentioned	LSHS 932 MT/M OR Natural Gas 1441.5 SCM/Hr	No Change	Stack	40
3	S-3	Briquette Boiler (MR-1)	Not Mentioned	Briquette: 2960 MT/M	No Change	Fabric Bag Filter & Dust Collector	40
4	S-4	Baby Boiler (MR-4812)	Not Mentioned	LSHS 11 MT/M OR Natural Gas: 5 MT/M	No Change	Stack	30

- **There will be no change the steam requirements. The fuel consumption of the boiler for the changed production profile will remain the same.**

ii. Process emissions and control systems:

Sr. No.	Stack No.	Stack Attached to	APC system & Scrubbing Media	Stack Height meter
1	**S-5**	Ventilation Blower Plant-1 (BLW-201)	Stack	27
2	**S-6**	Acid Scrubber (C-502)	Alkaline Scrubber	25
3	**S-7**	Vent Sorb Blower Plant-2 (BLW-501)	Stack	25
4	**S-8**	Ventilation Blower Plant (BLW-605)	Alkaline Scrubber	13

5	S-9	Ventilation Blower MCA (BLW-101)	Water/Alkaline Scrubber	13
6	S-10	Emergency Chlorine Blower	Alkaline Scrubber	17
7	S-11	Ammonia Scrubber (C-1203)	Water Scrubber	20
8	S-12	Bag Filter Blower (BLW-601)	Fabric Bag Filter	22
9	S-13	Bag Filter Blower (BLW-602)	Fabric Bag Filter	22
10	S-14	Bag Filter Blower (BLW-603)	Fabric Bag Filter	22
11	S-15	Scrubber For HTP-213	Caustic Scrubber	30
12	S-16	General Common Scrubber HTP-213	Caustic Scrubber	30

- **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.**

Process emission parameters:

Sr. No	Parameters	Before change in product-mix	After change in product-mix	MPCB Limit
1	Acid Mist	<20 mg/Nm^3	No Change	20 mg/Nm^3
2	Chlorine	<5 mg/Nm^3	No Change	5 mg/Nm^3
3	Ammonia	<50 mg/Nm^3	No Change	50 mg/Nm^3
4	H_2S	<5 mg/Nm^3	No Change	5 mg/Nm^3
5	CS_2	Not Specified	No Change	Not Specified
6	Acetone	<100 mg/Nm^3	No Change	100 mg/Nm^3
7	Toluene	<100 mg/Nm^3	No Change	
8	Xylene	<100 mg/Nm^3	No Change	
9	Organic concentrations	<100 mg/Nm^3	No Change	100 mg/Nm^3
10	TPM	<50 mg/Nm^3	No Change	150 mg/Nm^3

E) Hazardous waste aspects:

Sr. No	Type of Waste	Cat. No.	UOM	As Per EC	As per CTO	After Change in Product Mix Qty.	Disposal
1	Used Or Spent Oil	5.1	MT/A	Not Mentioned	9	9	Sale to authorized party/CHWTSDF
2	Process Residue & Waste	29.1	MT/A	Not Mentioned	2092.6	2419.4	CHWTSDF/Sale to authorized party /Coprocessor through MPCB/CPCB Authorized Pre-processor
3	Sludge Containing residual Pesticides	29.2	MT/A	Not Mentioned	33.4	33.4	CHWTSDF
4	Spent Solvents	29.4	MT/A	Not Mentioned	3865.2	2916.2	Sale to authorised party/CHWTSDF/Coprocessor through MPCB/CPCB Authorized Pre-processor
5	Empty Barrels/ Containers/ liners contaminated with hazardous chemicals/wastes	33.1	Nos./ Y	Not Mentioned	1800	1800	Sale to authorized party/CHWTSDF
6	Chemical Sludge from Waste Water Treatment	35.3	MT/A	Not Mentioned	30	30	CHWTSDF
7	Spent Carbon/ Filter Medium	36.2	MT/A	Not Mentioned	100	103.8	Sale to authorized party /Coprocessor through MPCB/CPCB Authorized Pre-processor/ CHWTSDF
8	Ash and Flue gas Cleaning Residue	37.2	MT/A	Not Mentioned	10	10	CHWTSDF
9	Concentration or Evaporation Residue	37.3	MT/A	Not Mentioned	9000	9000	CHWTSDF

Sr. No	Type of Waste	Cat. No.	UOM	As Per EC	As per CTO	After Change in Product Mix Qty.	Disposal
10	Potassium Bromide	--	MT/A	Not Mentioned	307.8	615.6	Sale to authorized party
11	Spent Caustic	--	MT/A	Not Mentioned	520	520	Sale to authorised party / CHWTSDF
12	Sodium Hydro Sulphide (NaSH)	-	MT/A	Not Mentioned	224.3	284.2	Sale to authorised party / CHWTSDF
13	Recovered Ammonia NH_3		MT/A	Not Mentioned	1009.5	1025.5	Sale to authorised party/Use In-house mfg. process /in house ETP
14	HCl (Approx 30%)	-	MT/A	Not Mentioned	1245.7	179.5	Sale to authorised party/Use In house mfg. process /in house ETP
15	Aluminium Chloride (AlCl3)		MT/A	Not Mentioned	381.9	763.7	Sale to authorised party/Use In-house mfg. process /in house ETP
16	Sulfuric acid H_2SO_4		MT/A	Not Mentioned	1014.4	1223.7	Sale to authorised party/CHWTSDF/Use In-house mfg. process /in house ETP
17	Recovered Solvents (Mono Chloro Acetone/ Toluene/ Methanol/ IPA/ DMF/ Mono Chloro Benzene/ Benzene)	-	MT/A	Not Mentioned	500	500	Sale to authorized party /Coprocessor through MPCB/CPCB Authorized Preprocessor/ CHWTSDF
18	Distillation Residue		MT/A	Not Mentioned	-	403.8	Sale to Authorized Party / CHWTSDF/ Coprocessor through MPCB/CPCB Authorized Preprocessor
Total			**MT/A**		**20343.8 & 1800** Nos/Y	**20037.8 & 1800** Nos/Y	

- **The total hazardous waste is reduced by 306 TPA**

Condition under Batteries (Management & Handling) Rule 2001

Sr. No	Type of Waste	Cat. No.	UOM	As Per EC	As per CTO	After Change in Product Mix Qty.	Disposal
1	Used Batteries	--	Nos/Y	Not mentioned	30	30	Sale to Authorized Recycler/ Reprocessor

Condition under Plastic Waste Management Rule 2016

Sr. No	Type of Waste	Cat. No.	UOM	As Per EC	As per CTO	After Change in Product Mix Qty.	Disposal
1	Plastic Waste	--	Kg/Day	Not mentioned	50	50	Sale to Authorized Party/Recycler
2	Plastic Bottles	--	Kg/Day	Not mentioned	5	5	Sale to Authorized Party/Recycler

Treatment and disposal of Biomedical waste generated to CBMWTSDF

Sr. No	Cat No	Type of Waste	UOM	As Per EC	As per CTO	After Change in Product Mix Qty.	Disposal
1	Yellow	Biomedical Waste- Soiled Wastes (Dressings, Cotton Swabs, Plaster casts), Discarded or Expired Medicines, Discarded Linens, Beddings if contaminated with blood or body fluids, Mask	Kg/Months	Not mentioned	5	3	CBMWTSDF
2	Red	Syringes without needles and Gloves	Kg/Months			0.5	CBMWTSDF

Sr. No	Cat No	Type of Waste	UOM	As Per EC	As per CTO	After Change in Product Mix Qty.	Disposal
3	White	Needles, Syringes with fixed needles, needles from needle tip cutter or burner, sclapels, blades and any other contaminated sharp object that may cause puncture or cut	Kg/Months			0.5	CBMWTSDF
4	Blue	Broken or Discarded and contaminated glass including medicine vials and ampoules.	Kg/Months			1	CBMWTSDF
	Total		**Kg/Months**	**5**	**5**	**5**	

Non-Hazardous Waste: -

Sr. No	Type of Waste	UOM	As per CTO	After Change in Product Mix Qty.	Disposal
1	Boiler Ash	MT/A	5400	5400	Sale to Brick Manufacturer
2	Metal Scrap	MT/M	50	50	Sale to Authorized Party
3	Wood	MT/M	5	5	Sale to Authorized Party
4	Glass Bottles	No/D	20	20	Sale to Authorized Party

Technical Committee Deliberations:

The proposed project was discussed on the basis of documents – NIPL Certificate and presentation made by the industry. Product wise load calculation in terms of wastewater, Air emissions & Hazardous waste generation were discussed. Existing consent to operate, Environmental Clearance, NIPL Certificate issued by Goldfinch Engineering Systems Pvt. Ltd and product mix Proforma are taken on the record.

Committee after due deliberations noticed that;

1) **Industry has proposed a change in product mix by Addition of 13 new products, keeping production capacity same of 3 existing products, decreasing production capacity of 2 existing products, deleted production quantity of the 2 existing products, Splitting of quantity of 6 existing products into multiple groups.**
2) **Industry has proposed that the total production capacity of the plant will be increased from 2280 MT/A to 2755 MT/A i.e. 475 MT/A increase in production capacity, keeping the pollution load within the consent limit.**
3) **Total water consumption will reduce by 1.6 CMD after proposed change in product mix.**
4) **Industry has proposed to decrease in the trade effluent quantity by 0.4 CMD.**
5) **After the proposed product mix the COD, BOD & TDS values of effluent decreased by 2.11%, 1.84%, 2.90% respectively.**
6) **There will be no change the steam requirements. The fuel consumption of the boiler for the changed production profile will remain the same.**
7) **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.**
8) **The total hazardous waste is reduced by 306 TPA**

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 the 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 permission 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

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Agenda item No	**08**
Proposal No.	**MPCB-CONSENT-0000229803**
Project Details	**M/s. SMW Ispat Private Limited .** Plot No B-1/4, Deoli Growth Centre MIDC Area, Taluka- Deoli, District- Wardha Maharashtra.
NIPL Certificate	NIPL certificate issued by Perfact Enviro Solutions Pvt Ltd., Delhi., Dated: 23/12/2024

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSEN-0000229803 along with the copies of documents seeking Amendment in consent to Establish under change in product under the provisions of EIA Notification 2006 amended on 23/11/2016 & amended on 02/3/2021.

Exiting Clearances: -

- Environmental Clearance is accorded to the industry vide letter No. J-11011/664/2009-IA II (I) dated 04/10/2022.
- Consent to Operate accorded vide No: BO/CAC-Cell/UAN No. 0000008878/CAC-1704000514 dated 12/04/2017 which was valid upto 30/06/2021 and Consent to Establish vide letter no BO/RO(P&P)/EIC No. NG-3562-10/E/CC-351 dated 17/09/2010.

A) Project details: -

Production Details: -

Products	Quantity as per E.C.	Quantity as per Existing CTO in TPA	Proposed Quantity after CIPM in TPA	Remarks as per EC
Sponge Iron	8 x 100 TPD Static Kiln	2 x 100 TPD Static Kiln	1 x 500 TPD Rotary Kiln	Change in Technology from Static Kiln to Rotary kiln
WHRB	0	0	10MW	Power Generation through Waste Heat Recovery Boiler from Rotary Kiln
Iron Ore Benefication	2000 TPD	2000 TPD	Dropped	Dropped

- **Industry has Proposed Change in Project Configuration/Technology in existing project of 800 TPD Reduced Briquette Iron and 2000 TPD Iron ore Beneficiation by change in technology from Static Kiln to Rotary Kiln (500 TPD Sponge Iron) with 10MW of WHRB and dropping Iron ore Beneficiation Plant, without increase in pollution load.**

B) **Water Pollution Load Details:**

i) **Water Aspect: -**

Sr. No.	Purpose	As per EC	As per CTO	Proposed Change (NIPL)	After change in project configuration	Remark
1.	Coal Gasifier	Not mentioned	Not mentioned	0	0	0
2.	Static Kiln	Not mentioned	Not mentioned	(Rotary Kiln) 375	0	0
3.	Beneficiation	Not mentioned	1000	-	0	0
4.	Sprinkler & Dust Control	Not mentioned	155	60	0	0
5.	Gardening & Plantation	Not mentioned	Not mentioned	60	0	0
6.	Domestic Purpose	Not mentioned	50	15	0	0
7.	WHRB	0	0	360	+360	Increased by 360
	Total	2669	1205	870	-1799	Saving of 1799 KLD water consumption

- **The overall Water consumption will be reduced by 1799 KLD as per EC & 335 KLD as per existing consent.**

ii) Wastewater Aspect : -

S.N.	Effluent Generation	As per EC (KLD)	As per CTO (KLD)	Proposed Change (NIPL) (KLD)
1	Domestic	Not mentioned	30	15 CMD
2	Industrial	Not mentioned	0	No change

- There will be no change in Trade effluent generation which is proposed to remain Nil after a change in the proposed product configuration. The domestic wastewater generation will reduce from 30 KLD to 15 KLD.

iii) Effluent Treatment System: -

Trade Effluent: Nil
Domestic wastewater will be treated in packaged type STP

C) Air Emission Aspect: -

Parameter			Quantity as per EC	Quantity as per CTO	Proposed Change (NIPL)	Remark
Raw Material & Fuel Quantity						
Sr. No	Name of Raw material /Fuel	Unit				
1	Iron Ore Fines	TPD	2000	Not mentioned	0	Deleted
2	Coal/ Coal fines	TPD	960	Not mentioned	0	Deleted
3	Imported Coal	TPD	0	Not mentioned	495	Increase by 495
4	Pellet	TPD	0	Not mentioned	710	Increase by 710

5	Dolomite	TPD	0	Not mentioned	15	Increase by 15
Total		TPD	2960	Not mentioned	1220	The overall Raw material & Fuel quantity will reduce from 2960 TPD to 1220 TPD

Sr No	Description	As per E.C.	As per CTO	After NIPL	Remarks
1	Coal Gasifier	Coal & Coal Fines 960 TPD	300 TPD	0	Decrease
2	Coal & Iron Ore Dryer	Not mentioned in EC	Coal 4 TPD	0	Decrease
3	WHRB	0	0	Steam from waste heat recovery	New

- **There is a reduction in pollution load, as there is a change in fuel i.e. coal from domestic coal to imported coal due to which emission will be reduced.**
- **Multicyclone in existing Static kiln will be replaced with ESP in proposed Rotary Kiln.**

D) Hazardous Waste Load: -

Hazardous Waste	As per EC	As per CTO	Proposed (NIPL)	Method of Disposal	Remarks
Hazardous waste					
Spent Oil	Not mentioned in EC	15 KLA	10 KLA	Sold to authorized vendor.	-

- **The hazardous Waste i.e Used or Spent Oil will be reduced from 15 KLA to 10 KLA after NIPL**

- **Non-Hazardous Waste: -**

Sr. No	Type of Waste	UOM	As per EC	As per CTO	After Change in Product Mix Qty.	Disposal
1	Ash	MT/A	1,13,850	28,380	13,200	Sale to Brick Manufacturer
2	Tailing	MT/A	2,64,000	2,64,000	0	Beneficiation is dropped, so there will be no generation of tailing.
3	Dolachar	MT/A	0	0	13,200	Sale to Brick Manufacturer
4	Total	MT/A	3,77,850	2,92,380	26,400	Sale to Authorized Party

- **There will be reduction in overall Non-hazardous Waste from 3,77,850 TPA to 26,400 TPA.**

Technical Committee Deliberations: -

The proposed project was discussed based on documents – NIPL Certificate and presentation made by the industry. Product wise load calculation in terms of wastewater, Air emissions & Hazardous waste generation were discussed. Existing consent to operate, Environmental Clearance, NIPL Certificate issued by Perfact Enviro Solutions Pvt Ltd., Delhi and product –mix Proforma are taken on the record.

After due deliberations, Committee noticed that:

i) **Industry has Proposed Change in Project Configuration/Technology in existing project of 800 TPD Reduced Briquette Iron and 2000 TPD Iron ore Beneficiation by change in technology from Static Kiln to Rotary Kiln (500 TPD Sponge Iron) with 10MW of WHRB and dropping Iron ore Beneficiation Plant, without increase in pollution load.**
ii) **The overall Water consumption will be reduced by 1799 KLD as per EC & 335 KLD as per existing consent.**
iii) **There will be no change in Trade effluent generation which is proposed to remain Nil after a change in the proposed product configuration. The domestic wastewater generation will reduce from 30 KLD to 15 KLD.**
iv) **There is a reduction in pollution load, as there is a change in fuel, i.e. coal from domestic coal to imported coal due to which emissions will be reduced.**
v) **Multicyclone in existing Static kiln will be replaced with ESP in proposed Rotary Kiln.**
vi) **The hazardous Waste i.e Used or Spent Oil will be reduced from 15 KLA to 10 KLA after NIPL.**
vii) **There will be a reduction in overall Non-hazardous Waste from 3,77,850 TPA to 26,400 TPA.**

viii) **The committee also noted that SMW Ispat Pvt Limited is having plot adjacent to this unit wherein expansion is proposed & industry has initiated the excavation work at plot no B ½ in MIDC, Deoli without obtaining EC.**

ix) **Accordingly, MoEF has initiated the process under violation category as per SOP 07/07/2021.**

x) **Maharashtra Pollution control board initiated credible action by filing case vide Case No. 5662/2023 at IMFC, Wardha dated 22-11-2023.**

xi) **Committee also noted that the unit has submitted copy of TOR's accorded by MoEF &CC, GOI vide dated 16/05/2023 wrt application for Environmental Clearance under violation, wherein it is clearly mentioned on page 2 & 3 @ 7. Violation Details;**

   a) **As per the terms in lease agreement with MIDC, "Time Limit for commencement and completion of construction work" shall be within 02 years from the date if possession or agreement to lease whichever is earlier. In case of non-commencement of work, MIDC would cancel the leasing of the plot.**

   b) **Hence PP started and completed the excavation and foundation work only at Plot No. B/1-2. This foundation is for 2x500 TPD Rotary Klin.**

xii) **Board has separately accorded Consent to Establish for expansion for the said proposed plot i.e., B-1/2 & B-1/3 vide dated 07/05/2024.**

Technical Committee Decision: -

Technical Committee decided to recommend the case for Consent to Establish under 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 the 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) 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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