Minutes of 2nd meeting of Technical Committee (2024-25) for assessment of application of under change in product-mix

Date : **19/06/2024**

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

Technical Committee Members present for the meeting:

1) Shri. Nandkumar Gurav, Assistant Secretary (Technical), MPCB	Chairman
2) Shri. A.M. Pimparkar, Scientist-1, Environment Department	Member
3) Shri. Partik Bharne, I/c Regional Director, CPCB	Member
4) Shri. Dr. V. M. Motghare, Joint Director (APC)	Member
5) Shri. Dr. J. B. Sangewar, Joint Director (WPC)	Member
6) Dr. B.R. Naidu, Ex. Regional Director, CPCB	Member
7) Shri. Anurag Garg, Chair Professor, IIT Bombay	Member
8) Shri. Dr. Ravindar Kontham, Principal Scientist, NCL Pune	Member
9) Shir. Shankar Waghmare, Regional Officer (BMW), MPCB	Member Convener
10) Shri. Sujit Dholam, Regional Officer (HQ), MPCB	Special Invitee

At the outset, the request was received from the members (1) Shri. M.P. Patil, Representative of NEERI (2) Shri. S.V. Patil, Vasantdada Sugar Institute for leave of absence from attending the meeting was placed before the Committee meeting. The Committee considered the same.

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

Agenda Item No.	**Agenda No. 1**
Proposal No.	**MPCB-CONSENT- 0000197790**
Project Details	**M/s. Spectrum Ethers Ltd,** Gat No. 367, Rasegaon Village, Tal. Dindori, Dist. Nashik.
NIPL Certificate	NIPL certificate issued by M/s. Goldfinch Engineering Systems Private Limited., No. Nil, Date. 11.06.2024.

Introduction: -

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000197790 along with the copies of documents seeking Amendment in Consent to Operate for change in product mix under the provisions of EIA Notification 2006 amended on 23.11.2016 & amended on 02.03.2021. The existing unit is engaged in manufacturing Technical Grade pesticides and pesticide formulation.

Existing Environment Clearances (EC): -

1. Environmental Clearance for Expansion was accorded by MoEF & CC, vide No. F. No. J-11011/84/2012-IA II(I) dt. 28.03.2016 for mfg. of Technical Grade Pesticide 9325 MT/A and amended vide No. F.No. J-11011/84/2012-IA(I) dated 30.12.2016.
2. The Consent to operate accorded by the Board vide No. Format1.0/CC/UAN No.0000115569/CO/2203001232, Date: 24.03.2022, for the manufacture 9,895 TPA pesticides and pesticide intermediates, 11,000 TPA of pesticide formulation and 11,900 TPA of only Repacking products.

Project Details: -

A. Products with change in product mix as below: -

Sr. No.	Name of Product	Existing as per CTO, TPA	Proposed (+) addition / (-) deletion, TPA	Proposed after change in Product Mix, TPA
1	Profenophos Technical (including Diethyl thio phosphoryl Chloride and Para bromo Ortho Chloro Phenol, nPropyl Bromide)	4850	0	4850
2	Ethion Technical (Using in-house DETA)	400	-340	60
	Ethion Technical (Using outsourced DETA)	0	340	340
3	Terbufos Technical Including DETA (Using in-house DETA)	500	-425	75
	Terbufos Technical (Using outsourced DETA)	0	425	425
4	Temephos technical	25	0	25
5	Propiconazole Technical (including DICAP, 1,2,4 Triazole, 1, 2, pentanediol) Bromoketal	1050	-70	980
6	Acetamiprid Technical	100	0	100
7	Thiomethoxam (2 Chloro, 5 Chloro methyl thiazole , 3 Methyl-4- Nitroimino-Perhydro – 1,3,5- Oxidiazine)	125	0	125
8	Fipronil technical	25	0	25
9	Pretilachlor	25	0	25
10	Glyphosate Technical	25	0	25
11	Atrazine Technical (weedicide)	25	0	25
12	Hexaconazole Technical (valerophenon, Oxirine)	300	0	300

13	Tebuconazole Technical (1 – 4 (Chlorophenyl) 4- dimethyl-3- pentanone, Oxirine, DMSO)	850	0	850
14	Metalaxyl Technical	25	0	25
15	Tricyclozole Technical (HMBT)	25	0	25
16	Indoxycarb Technical	25	0	25
17	Metribuzin Technical	25	0	25
18	Difenconazole Technical (1,4(4chlorophenoxy 2 chloroacetophenone, bromoketal, IPE, PE)	200	0	200
19	Acephate Technical (including DMPAT)	25	0	25
20	Chloropyriphos Technical (Including Na-TCP)	25	0	25
21	Pendamethalin Technical	25	0	25
22	Bifenthrin Technical	25	0	25
23	Buprofezin Technical	25	0	25
24	Prothioconazole Technical & Intermediate	75	0	75
25	Paclobutrazole Technical & Intermediate	100	0	100
26	Cyproconazole & Intermediate	100	0	100
27	Pymetrizine	25	0	25
28	Sulfoslfforon	25	0	25
29	Thiafluzamid (T)	25	0	25
30	Difenthuron	100	0	100
31	Clethodium & Intermediates	100	0	100
32	Metconazol	25	0	25
33	Sulfentrazone	25	0	25

34	Pyralcostrobin including 1-(4-Chlyophynl)-3 Hydroxy -1 H pyrazole.	25	0	25
35	Bromine & Its Derivative (From Recovery and Fresh)	200	0	200
36	Oxyflorofen	25	0	25
37	Azyoxystrobin	25	0	25
38	PMIDA	25	0	25
39	TCAC	25	0	25
40	Ethyl Acetate	25	0	25
41	Thiodicarb	25	0	25
42	M phynoxy benzaldehyde	25	0	25
43	Cypermethrin	25	0	25
44	Tricycopyr	25	0	25
45	Thiocloprid	25	0	25
46	Mancozeb	25	0	25
47	Deltamethrin	25	0	25
48	Anilophos	20	0	20
49	phenthoate	25	0	25
Sub Total		**9895**	**-70**	**9825**

Formulation Products: -

Sr. No.	Name of Formulation Product	Production, TPA
50	Profenophos 43 %50%,72 % EC, Profenophos60% +lamdacyhalothrin 41 %	1000

	EC	
51	Ethion 50% EC and Ethion40% + Cypermethrin 5% EC	500
52	Hexaconazole 5%EC	500
53	Tricyclozole 75 %WP	200
54	Propiconazole 25% EC,42.6% EC	500
55	Acetamiprid 20% SP	150
56	Thiomethoxam 25% WG and 30% FS	100
57	Imidacloprid 17.8 % SL and 30.5%SC	500
58	Indoxicorb 14% SL	150
59	Cypermethrin 10% EC, Profenophos 40 % + Cypermethrin4 %, profenophos 50%+Lufenuron 5 % EC	200
60	Cartap Hydrochloride 4% G	3900
61	Chloropyriphos 20% EC	1000
62	2,4 D amine salt 58 % SL	100
63	Acephate 75% WP	1000
64	Glyphosate 41 % SL, Ammonium salt Of Glyphosate 71% SG	700
65	Mancozeb63 %+Carbendazim 12 %WP, Mancozeb 50% WP	300
66	Buprofezin 50% SC	100
67	Butachlor 50% EC , Pretilachlor 50 % EC	100
Sub Total		**11000**

Repacking Activity for following Products: -

Sr. No.	Name of Repacking Product	Production, TPA
68	Clodinifop Propygyl 15 % WP	100
69	Pendimethalin 38.7 % CS and 30%EC	200
70	Emamectn Benzoate 5 % SG	200

71	Fifronil 5% SC	200
72	Imizethapyr 10 SL	200
73	Copper Oxycholoride 50 % WP	200
74	Mteribuzin 70% WP	200
75	Atrrazine 50 % WP	200
76	Carbendizum 50% WP	200
77	Repacking of Agrochemical liquid formulation	5000
78	Repacking of agrochemical solid formulation	5000
79	Lambda-CYhalothrin 4.9% Cs	200
Sub Total		**11900**

- The proposed change in the product mix is by decreasing the production capacity of propiconazole from 1050 TPA to 980 TPA due to process modification and by increasing the purity from 88% to 98%.
- The industry manufactures the products Ethion and Terbufos by using raw material from in-house manufactured intermediate DETA. Now industry has proposed 85% of the products Ethion & Terbufos i.e. Ethion - 340 TPA and Terbufos - 425 TPA will be manufactured by using outsourced intermediate DETA and the remaining 15% production i.e Ethion Technical - 60 TPA and Terbufos – 75 TPA will be manufactured by using inhouse manufactured intermediate DETA.
- Industry has proposed a decrease in the total production quantity of Technical grade pesticides and pesticide intermediates by 70 TPA i.e., from 9895 TPA to 9825 TPA.

B. Pollution load Details: -

Water & Wastewater Aspect: -

i) Water consumption aspect before & after proposed change in product mix: -

Propose	As Per EC	As Per CTO	Proposed reduction after CIPM	After change in product mix, CMD
Processing whereby water gets polluted & pollutants are easily biodegradable	935	159	(-) 4	155

Industrial Cooling, spraying in mine pits or boiler feed		748	0	748
Total Industrial Consumption	**935**	**907**	**(-) 4**	**903**
Domestic	Not Mentioned	29	**0**	29
Gardening	-	0	0	0
Grand Total	**935 (Without Domestic Water Consumption)**	**936**	**(-) 4**	**932**

- **Total process water consumption is proposed to be reduced by 4 CMD after change in product mix.**

ii) Waste Water aspect before & after proposed change in product mix: -

Propose	As Per EC	As Per CTO	Effluent Generation after proposed change in product mix, CMD	Mode of Disposal & Ultimate Receiving Body
INDUSTRIAL				
Process	220	124	124	**Recycle 100% to achieve ZLD**
Floor Washing and Drum Washing		71	71	
Boiler and Cooling Tower Blowdowns				
Total Industrial Effluent	**220**	**195**	**195**	
Domestic Effluent	**Not Mentioned**	**23**	**23**	**On land for gardening**
Gardening	0	0	0	-
Grand Total	**220**	**218**	**218**	

- **There is no change proposed in trade effluent – 195 CMD and domestic effluent 23 CMD after change in product mix.**

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

Sr. No.	Parameters	Before change in product mix			After change in product mix		
		Effluent Before Treatment		Total Effluent After Treatment	Effluent Before Treatment		Total Effluent After Treatment
		Strong stream Process	Weak stream From Utilities and washings		Strong stream Process	Weak stream From Utilities and washings	
1	**Flow (CMD)**	**124**	**71**	**195**	**124**	**71**	**195**
3	Total Dissolved Solids (mg/l)	100000-110000	1000-1200	<200	100000-110000	1000-1200	<200
	(kg/day)	12400-13640	71-85.2	<39	12400-13640	71-85.2	<39
4	BOD, 3 days 27^{0}C(mg/l)	16000-17000	100-120	<30	16000-17000	100-120	<30
	(kg/day)	1984-2108	7.1-8.5	<5.8	1984-2108	7.1-8.5	<5.8
5	C.O.D. (mg/l)	34000-35000	150-200	<200	34000-35000	150-200	<200
	(kg/day)	4216-4340	9-11	<39	4216-4340	9-11	<39

- Industry has proposed that the average COD, BOD and TDS load will remain same before and after change in product mix.

C. Treatment System: -

i) Trade Effluent:

Industry has segregated trade effluent into strong & weak stream and provided separate treatment system as below.

Strong Stream: High COD/TDS stream effluent 124 CMD is treated in treatment system comprising of Primary, followed by Stripper and Multi Effect Evaporator. The MEE condensate is treated with weak stream in Effluent Treatment Plant.

Weak Stream: Low COD/TDS stream 71 CMD is treated in 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) and Advanced treatment (Reverse osmosis), RO permeate is reused in plant and reject is sent to MEE.

ii) Sewage effluent:

Domestic effluent 23 CMD is treated separately in STP having capacity 25 CMD.

D. Air Emission Aspect: -

i) Flue Gas Parameters: -

Stack No.	Stack Attached to	As Per EC, Fuel Consumption	Existing as Per Valid CTO, Fuel Consumption	APC system	Stack Height	SO_2
S-1	Boiler	Not Mentioned	Coal 30 MT/Day Bagasse 50 MT/Day	cyclone	30 m	300 Kg/Day
S-2	Multi Fuel Boiler	Not Mentioned	Coal 45 MT/Day Bagasse 85 MT/Day	cyclone	36 m	450 Kg/Day
S-7	Thermic Fluid Heater	Not Mentioned	HSD 3500 Ltr/Day	Stack	17.5 m	70 Kg/Day
S-8	D.G. Set 320 KVA	Not Mentioned	Diesel 60 Ltr/Day	Acoustic Enclosure	6 m	1.2 Kg/Day

S-9	D.G. Set 500 KVA	Not Mentioned	Diesel 60 Ltr/Day	Acoustic Enclosure	6 m	1.2 Kg/Day
S-10	D.G. Set 1250 KVA	Not Mentioned	Diesel 60 Ltr/Day	Acoustic Enclosure	6 m	1.2 Kg/Day

ii) Process Emissions and control systems: -

Stack No.	Stack Attached to	APC system	Parameters	Scrubbing Media	Stack Height
S-3	Plant-3 DETA Scrubber	Scrubber	Acid Mist, H2S	Alkaline/Water	22 m
S-4	Plant-3 Scrubber	Scrubber	Acid Mist, SO2, H2S, Chlorine, Ammonia, HBr, HCl	Alkaline/Water	22 m
S-5	Plant-4 Scrubber	Scrubber	Acid Mist, SO2, H2S, Chlorine, Ammonia, HBr, HCl	Alkaline/Water	8.7 m
S-6	ETP Scrubber	Scrubber	Acid Mist, Ammonia, HBr, HCl	Alkaline/Water	15 m

- **There is no change in the process emissions and existing utilities as per the existing CTO.**
- **The process emission control systems i.e Scrubbers are installed to the Multipurpose plants therefore the additional parameters which were not specified in the consent are proposed as additional parameters.**

E. Hazardous Waste Aspect: -

Sr. No	Type of Waste	Cat. No.	As Per EC, TPA	Existing as Per CTO, TPA	After a Change in product mix, TPA	Proposed Changes	Disposal
1	Process Wastes or Residues	29.1	Not Mentioned	555.8	555.8	No Change	CHWTSDF

2	Sludge containing residual pesticides	29.2	Not Mentioned	1585	300	Separated	Sale to authorized party / CHWTSDF
3	Recovered Solvent (Methanol, Toluene, Cyclohexane, DMSO etc.)	29.4	Not Mentioned		1285+125 = 1410	Existing Spent solvent and proposed to generate additional spent solvent from Outsourced DETA	Sale to authorized party / CHWTSDF
4	Recovered Solvent (Methanol) from Outsourced DETA	29.4	Not Mentioned	0		Clubbed in above	
5	Date-expired and off specification pesticides	29.3	Not Mentioned	70	70	No Change	CHWTSDF
6	Chemical-containing residue arising from decontamination.	34.1	Not Mentioned	175	75	Reduced	CHWTSDF
7	Chemical sludge from waste water treatment	35.3	Not Mentioned	88.7	88.7	No Change	CHWTSDF
8	Empty barrels containers	33.1	Not Mentioned	285	260	Reduced	Sale to authorized

	/liners contaminated with hazardous chemicals /wastes						party / CHWTSDF
9	Sodium Hydrogen Sulphide (100% basis)	29.1	Not Mentioned	325	48.62	Reduced due to reduction in mfg. of intermediate DETA	Sale to authorized party / CHWTSDF
10	Spent Catalyst	29.5	Not Mentioned	0	50	Newly added generated due to outsourced intermediate DETA	Sale to authorized party / CHWTSDF
11	Distillation residues	20.3	Not Mentioned	60	244.63	Increased due to increasing the purity of propiconazole from 88% to 98%	Sale to authorized party / CHWTSDF
12	Used or spent oil	5.1	Not Mentioned	1.75	1.75	No Change	CHWTSDF
13	Sodium / Potassium Bromide (100% basis)	29.1	Not Mentioned	355.5	360.53	Increased due to increasing the purity of propiconazole from 88% to 98%	Sale to authorized party / CHWTSDF

14	Hydrogen Bromide (100% basis)	29.1	Not Mentioned	737	746.8	Increased due to increasing the purity of propiconazole from 88% to 98%	Sale to authorized party / CHWTSDF
15	TMA Bromide (50%basis Solution)	29.1	Not Mentioned	4157	4157	No Change	Sale to authorized party / CHWTSDF
16	Hydrochloric Acid (30% Solution)	29.1	Not Mentioned	20.75	21.55	Increased due to increasing the purity of propiconazole from 88% to 98%	Sale to authorized party / CHWTSDF
17	NH_3 Solution (25%)	28.1	Not Mentioned	125.5	125.5	No Change	Sale to authorized party / CHWTSDF
18	Na_2SO_3 Solution (20%)	29.1	Not Mentioned	39	39	No Change	Sale to authorized party / CHWTSDF
19	NH_4Cl Solution	29.1	Not Mentioned	94	94	No Change	Sale to authorized party / CHWTSDF

20	NaOCl Solution	29.1	Not Mentioned	9	9	No Change	Sale to authorized party / CHWTSDF
21	$AlCl_3$	29.1	Not Mentioned	773	773.92	Increased due to increasing the purity of propiconazole from 88% to 98%	Sale to authorized party / CHWTSDF
22	Spent H_2SO_4	29.1	Not Mentioned	900	900	No Change	Sale to authorized party / CHWTSDF
Total				**10357**	**10331.8**		

- **The total Hazardous waste is proposed to decrease by from 10357 TPA to 10331.8 TPA i.e by 25.2 TPA after proposed change in product mix activity.**

Technical Committee Deliberations:

The project proposal was discussed based on presentation made and documents- NIPL Certificate, NIPL proforma and Revised 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. Goldfinch Engineering Systems Private Limited., No. Nil, Date. 11.06.2024 and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

1) The proposed change in the product mix in the existing facility is for decreasing the production capacity of propiconazole from 1050 TPA to 980 TPA due to process modification by increasing purity from 88% to 98%. The industry manufactures the products Ethion and Terbufos by using raw material from in-house manufactured intermediate DETA. Now industry has proposed 85% of the products Ethion & Terbufos i.e. Ethion - 340 TPA and Terbufos - 425 TPA will be manufactured by using outsourced intermediate DETA and the remaining 15% production i.e Ethion Technical - 60 TPA and Terbufos – 75 TPA will be manufactured by using inhouse manufactured intermediate DETA.
2) Industry has proposed a decrease in the total production quantity of Technical grade pesticides and pesticide intermediates by 70 TPA i.e., from 9895 TPA to 9825 TPA.
3) The total process water consumption is proposed to be reduced by 4 CMD.
4) There is no change proposed in trade effluent – 195 CMD and domestic effluent 23 CMD after a change in product mix.
5) The average COD, BOD and TDS load will remain same before and after change in product mix.
6) Industry is segregating the strong and weak stream trade effluent and treating separately and achieving Zero Liquid Discharge.
7) Industry has not proposed any change in existing utilities, fuel and flue gas emissions.
8) Industry has not proposed any new process emission control systems, however requested to add the existing parameters to process emissions.
9) Industry has proposed to reduce the total Hazardous Waste generation by 25.2 TPA with the changes in Hazardous Waste; a) Industry has bifurcated the waste category 29.2 - Sludge containing residual pesticides into the categories sludge containing residual pesticides and recovered solvents stating that the solvents are recovered as mix solvents. Also, the quantity of recovered solvents from outsourced intermediate DETA is proposed to add. (b) The waste category 29.1 - Sodium Hydrogen Sulfide (100% basis) is proposed to reduce due to reduction in mfg. of inhouse intermediate DETA. (c) Proposed to add new waste category 29.5 - Spent Catalyst – which is proposed to generate from outsourced intermediate DETA. (d) Industry has proposed to increase the hazardous waste of categories 20.3 Distillation residues, 29.1 Hydrogen Bromide, 29.1 Sodium / Potassium Bromide (100% basis), 29.1 Hydrochloric Acid (30% Solution) and 29.1 AlCl3 due to increasing the purity of propiconazole from 88% to 98%. (e) The waste categories 34.1 Chemical containing Residue arising from Decontamination and 33.1 Empty Barrels / Containers are proposed to reduce as industry has propose to purchase the raw materials in bulk tankers.

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 should not manufacture any other product for which permission is not granted by the MPCB.
3) Industry shall ensure connectivity of OCEMS data to Board server.
4) Industry shall comply with the Boards Circular dtd. 05.02.2020 for use of cleaner fuel.
5) Industry shall upgrade the existing Air Pollution Control systems provided to the Boilers, by provision of Bag Filters after Multi Cyclone Dust Collector.
6) The process emission control systems i.e Scrubbers are installed to the Multipurpose plants therefore the additional parameters which were not specified in the consent are to be included as additional parameters in consent.

Agenda Item No.	**Agenda No. 2**
Proposal No.	MPCB-CONSENT- 0000202810
Project Details	**M/s Galaxy Laboratories Private Limited.,** Plot no. B-9 & B-10, Newasa MIDC Newasa, Tal. Newasa, Dist.- Ahmednagar.
NIPL Certificate	Revised NIPL Certificate issued by M/s. Technogreen Environmental Solutions, Date. 12.06.2024

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT- 0000202810 along with the copies of documents seeking amendment in consent to operate for proposed change in product-mix under the provisions EIA Notification 2006 amended on 23.11.2016 & amended on 02.03.2021. The unit is engaged in manufacturing Synthetic Organic Chemicals (API & Intermediates).

Existing Environment Clearances (EC):

1. Environmental clearance for expansion was accorded by MoEF & CC vide No. SIA/MH/IND3/409159/2022, Date. 21.07.2023.
2. Existing Consent to operate accorded by the Board vide No. Format1.0/CC/UAN No.0000181011/CO/2401000862, Date: 06.01.2024, valid upto 31.03.2028.

Project Details: -

A. Products with change in product mix as below:

Sr. No.	Products	Existing (TPM)	Deducted /Addition Production (TPM)	After Product Mix (TPM)	Remark
1	Hydrogen	750 Nm3/hr	0	750 Nm3/hr	No change

2	Furfuraldehyde (Furfural)	10	0	10	No change
3	Furfurylamine	40	0	40	No change
4	Cis Pinene	100	0	100	No change
5	Cyclohexenyl Ethyl Amine (CHEA)	10	0	10	No change
6	5-Chloro-4-Amino-2,1,3 Benzothidiazole	2	0	2	No change
7	Betaphenyl Ethyl Amine (BPEA)	20	0	20	No change
8	Polyallyamine Hydrochloride (PAAH)	3	0	3	No change
9	2,5- DICHLORO-4-(1,1,2,3,3,3- HEXA FLUOROPROPOXY) - PHENYL AMINE (SC-0603)	46	0	46	No change
10	4- METHOXYCYCLOHEXANONE (SS-1602)	50	0	50	No change
11	1,3-Butandiol OR	100	- 55	45	Reduced quantity
	N- Methyl Piperazine +	50	- 32	18	Reduced quantity
	1,4-Di-Methyl Piperazine	12.5	- 6.25	6.25	Reduced quantity
12	Cinnamyl Alcohol	50	- 40	10	Reduced quantity
13	Phenyl Propanol	20	- 15	5	Reduced quantity
14	Allyl Amine	5	- 4	1	Reduced quantity
15	Anethole	20	- 5	15	Reduced quantity
16	Furfural Alcohol	30	- 10	20	Reduced quantity

17	Triclabendazole(Crude)	8.4	0	8.4	No change
18	Maltol (Furfural based)	20	0	20	No change
19	Ethyl Maltol (Furfural based)	20	0	20	No change
20	3 Methoxy butanol	20	0	20	No change
21	DICAP	-	15	15	New product
22	Benzonitrile	-	10	10	New product
23	Benzyl Amine	-	12	12	New product
24	MABTF	-	75	75	New product
25	2ABTF	-	7	7	New product
26	4ABTF	-	1.86	1.86	New product
27	PMPA	-	10	10	New product
	Total	**636.9**	**636.9**	**600.51**	**Reduced by 36.39 TPM**

- **The proposed change in the product mix is by reducing the production quantity of 8 Nos. of the products and proposing 7 Nos. of new products.**
- **The total production quantity of the products will decrease by 36.39 MT/M after the proposed change in product mix.**
- **The claimed By-products granted as per the Environmental Clerance are shifted in the Hazardous Waste in Consent to Operate issued by the Board.**

B. Pollution load Details: -

Water & Wastewater Aspect: -

i) Water consumption aspect before & after proposed change in product mix: -

Propose	As Per EC	As Per CTO	Proposed reduction after CIPM	After change in product mix, CMD
Processing whereby water gets polluted & pollutants are easily biodegradable	27	27	- 5.36	21.64
Industrial Cooling, spraying in mine pits or boiler feed	109	109	0	109
Total Industrial Consumption	136	136	-5.36	130.64
Domestic	28	28	0	28
Gardening	28	28	0	28
Grand Total	192	192	-5.36	186.64

- **Total process water consumption is proposed to be reduced by – 5.36 CMD after a change in product mix.**

ii) Waste Water aspect before & after proposed change in product mix: -

Propose	As Per EC	As Per CTO	Effluent Generation after proposed change in product mix, CMD	Mode of Disposal & Ultimate Receiving Body
INDUSTRIAL				
Process	56	24	22.53	Recycle 100% to achieve ZLD
Floor Washing and Drum Washing		32	32	
Boiler and Cooling Tower Blowdowns				
Total Industrial Effluent	56	56	54.53	

Domestic Effluent	25	25	25	On land for gardening
Gardening	0	0	0	-
Grand Total	**81**	**81**	**79.53**	

- **After a change in product mix the trade effluent is proposed to be reduced by 1.47 CMD.**

iii) COD Pollution load existing and after change in product mix: -

Sr No	Parameters	Process	Cooling Tower and Boiler Blow Down	Domestic	Total
As per EC and CTO					
1	Flow m3/day	24	32	25	81
2	COD kg/day	243.61	10.88	10	264.5
After product mix					
1	Flow m3/day	22.53	32	25	80.5
2	COD kg/day	240.63	10.88	10	261.5

- **Average COD load after change in product mix is proposed to reduce by 3 Kg/Day.**

C. Treatment System: -

Trade Effluent:

Industry has provided Effluent Treatment Plant (ETP) of designed capacity of 75.00 CMD consisting 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), Advanced treatment (Single effective evaporator), Sludge treatment (Sludge drying bed) for the treatment of 56 CMD of trade effluent, to achieve Zero Liquid Discharge.

Sewage effluent:

Domestic effluent 25 CMD is treated separately in STP having capacity 25 CMD.

D. Air Emission Aspect: -

Stack No.	Source	APC System provided	Stack Height(in mtr)	Type of Fuel	Sulphur Content (in %)	Pollutant	SO2 Load
1	Thermic Fluid Heater (15 lakh kcal/hr)	Stack	30	LDO 167 Kg/Hr	1.8	SO2	144.2 Kg/Day
2	DG set (1250 KVA)	Acoustic Enclosure	30	HSD 250 Kg/Hr	1	SO2	120 Kg/Day
3	Thermic Fluid Heater 6 Lac	Stack	30	LDO 71 Kg/Hr	1.8	SO2	61.3 Kg/Day
4	Boiler (3 TPH)	Fabric Bag Filter	30	Coal 625 Kg/Hr	0.5	SO2	150 Kg/Day
5	HCl SCRUBBER	Scrubber	18	–	–	HCl/ ACID MIST	35 Mg/Nm3
6	Ammonia scrubber	Scrubber	18	–	–	NH3	30 Mg/Nm3
7	H2S scrubber	Scrubber	18	–	–	H2S	10 Mg/Nm3
8	Reactor	Stack	11	–	–	NA	–
9	Thermic fluid heater:2 Lakhs Kcal/HR	Fabric Bag Filter	30	Coal 10 Kg/Hr	0.5	TPM	150 Mg/Nm3
						SO2	2.4 Kg/Day
10	DG set (320 KVA)	Acoustic Enclosure	11	HSD 64 Kg/Hr	–	TPM	150 Mg/Nm3

						SO2	30.7 Kg/Day

- **There is no change in the process emissions and existing utilities as per the existing CTO.**

E. Hazardous Waste Aspect: -

Sr. No.	Waste	Quantity As per CTO (TPA)	After product Mix (TPA)	Treatment	Disposal	Remark
1	35.1 Exhaust Air or Gas cleaning residue	2	2	Landfill	CHWTSDF	No change
2	28.3 Spent carbon	52	52	Landfill	CHWTSDF	No change
3	28.1 Process residue and waste (Bromine solution)	1209	1209	Recycle*	Sale to authorized party/ CHWTSDF	No change
4	20.3 Distillation residues	428	428	Incineration	CHWTSDF	No change
5	28.1 Process residue and waste (Iron sludge)	35	35	Landfill	CHWTSDF	No change
6	28.2 Spent catalyst	124	124	Recycle*	Sale to authorized party/ CHWTSDF	No change
7	33.1 Empty barrels/containers /liners contaminated with hazardous chemicals /wastes	700	700	Recycle*	Sale to authorized party/ CHWTSDF	No change
8	35.3 Chemical sludge from waste water treatment	35	35	Landfill	CHWTSDF	No change
9	Spent Acid (TPM)	42.5	125.46	Recycle*	Sale to authorized party	Increased
10	Sodium Hydrosulphide Solution (TPM)	46.6	24.49	Recycle*	Sale to authorized party	Decreased

11	Poly aluminium chloride Solution (PAC) (TPM)	135.75	73.62	Recycle*	Sale to authorized party	Decreased
	Total	**2109.85**	**2108.57**			Decreased

- **The total Hazardous waste is proposed to decrease from 2109.85 TPA to 2108.57 TPA i.e by 1.28 TPA after proposed change in product mix activity.**

Technical Committee Deliberations:

The project proposal was previously discussed in the 1st meeting of Technical Committee (2024-25) dtd. 03.05.2024 and the Technical Committee decided to defer the case and instructed PP to reassess the mass balance, pollution load along with the NIPL certificate in comparison with the Environmental Clearance and Consent to Operate and was advised the PP to furnish the above details. Again, the project proposal was resubmitted and discussed based on revised presentation made and documents- revised NIPL Certificate dtd. 12.06.2024, NIPL proforma 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. Technogreen Environmental Solutions and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

1) The proposed change in the product mix is by reducing the production quantity of 8 Nos. of the products and proposing 7 Nos. of new products.
2) The total production quantity of the products will decrease by 36.39 MT/M after the proposed change in product mix.
3) The claimed By-products granted as per the Environmental Clerance are shifted in the Hazardous Waste in Consent to Operate issued by the Board.
4) Total process water consumption is proposed to be reduced by 5.36 CMD after a change in product mix.
5) After a change in product mix the trade effluent is proposed to be reduced by 1.47 CMD.

6) Average COD load after change in product mix is proposed to reduce by 3 Kg/Day.
7) The industry is Zero Liquid Discharge unit and proposed to continue Zero Liquid Discharge after change in product mix.
8) There is no change in the process emissions and existing utilities as per the existing CTO.
9) The total Hazardous waste is proposed to decrease from 2109.85 TPA to 2108.57 TPA i.e by 1.28 TPA after proposed change in product mix activity.

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 should not manufacture any other product for which permission is not granted by the MPCB.
3) Industry shall ensure connectivity of OCEMS data to Board server.
4) Industry shall comply with the Boards Circular dtd. 05.02.2020 for use of cleaner fuel.
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) Industry shall carryout the adequacy report of the Single Stage evaporator from the reputed institute like IIT, NEERI etc.

Agenda Item No.	Agenda No. 3
Proposal No.	MPCB-CONSENT-0000203320
Project Details	**M/s. Privilege Industries Ltd.,** Plot No. B 1 MIDC Lonand Khandala, Tal. Khandala, District- Satara.
NIPL Certificate	NIPL Certificate issued by M/s. MITCON Consultancy & Engineering Services Ltd., No. Nil, Dtd. Nil.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000203320 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.

Industry sent mail on 18/06/2024 and reported that due to some unavoidable circumstances they are unable to attend the meeting and requested to reconsider their proposal in upcoming meeting.

In view of above, as per the request of the project proponent, the Technical Committee decided to consider this proposal in next meeting.

Agenda item No	**Agenda No. 4**
Proposal No.	MPCB-CONSENT-0000201920
Project Details	**M/s. Balaji Formalin Pvt. Ltd.,** Plot No. N-32/1, Additional Patalganga MIDC, Tal. Panvel, Dist. Raigad
NIPL Certificate	NIPL certificate issued by M/s. ESED, IIT Bombay, No. Nil Date. 13.06.2024.

Introduction: -

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000201920 along with the copies of documents seeking amendment in existing consent to operate under change in product – mix under the provisions of EIA Notification, 2006 amended on 23.11.2016 & on 02.03.2021. This is an existing unit engaged in manufacturing organic chemicals, including formaldehyde, resins.

Exiting Clearances: -

1. Environmental Clearance accorded by SEIAA vide No. SEAC-2015/CR-346/TC-2 dated 26.08.2016.
2. The consent to operate was accorded by the Board vide No: - Format1.0/ CC/ UAN No.0000125219/CR/2205000711, dated 12.05.2022 valid up to 28.02.2025.
3. The Consent to Establish was accorded by the Board for modernization of plant and machinery & installation of 12 TPH Waste Heat Recovery Boiler & 8 TPH Hydrogen Lean Gas fired Boiler (standby) and DG Set of 1000 KVA vide No. Format1.0/CC/UAN No.0000183472/CE/2402000122, dated 01.02.2024.

Project details:

A. Production Details:-

Sr.No.	Product Name	As per EC (MT/A)	Existing CTO (MT/A)	Change (MT/A)	Proposed after change in product mix (MT/A)	Remarks
1	Aqueous Formaldehyde (37%-55% Concentration) -(AF)	150000	150000	0	150000	No Change
2	Hexamine	6000	6000	-5000	1000	Reduction
3	Paraformaldehyde (91-96%) - (PFD)	20000	20000	10000	30000	Increased
4	Urea Formaldehyde (UF) & Melamine Formaldehyde (MF) (Liquid Resin)	15000	15000	-10000	5000	Reduction
	[OR] Urea Formaldehyde (UF) & Melamine Formaldehyde (MF) (Powder Resin)	7500	7500	-5000	2500	Reduction
5	Phenol Formaldehyde (PF) (Liquid)	5000	5000	-4000	1000	Reduction
	[OR] Phenol Formaldehyde (PF) (Powder)	2500	2500	-2000	500	Reduction
6	Silver Refining (Refined Silver Catalyst)	18	18	0	18	No Change
7	Urea Formaldehyde Concentrate (UFC)	20000	20000	45000	65000	Increased
8	Sulphonated Napthalene Formaldehyde (SNF) (Liquid)	20000	20000	-19000	1000	Reduction
	[OR] Sulphonated Napthalene Formaldehyde (SNF) (Powder)	7000	7000	-6650	350	Reduction
9	Methylal (99.5%)	18000	18000	-17000	1000	Reduction
	Total (Main Products)	254018	254018	0	254018	

- **Industry has proposed a change in the product mix by interchanging the production capacities of existing products.**
- **Industry has proposed the total production quantity will remain same i.e 254018 MT/A.**

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 M/s. ESED, IIT Bombay, No. Nil Date. 13.06.2024.

After due deliberations, Committee noticed that:

Industry has proposed a change in the product mix by interchanging the production capacities of existing products and by increasing the total water consumption by 512 KLD. The committee also noted that Industry has proposed the total production quantity will remain same i.e 254018 MT/A. PP has presented the PPT and NIPL certificate during the course of presentation.

The Technical Committee noted that the project proponent has not followed the procedure laid down in Appendix-XIII of Notification S.O. 980(E), MoEF & CC dated.02.03.2021 and MPC Board Office Memorandum, dated. 14.07.2021. The Technical Committee also noted that as per the Office Memorandum, dated. 14.07.2021 MPC Board, the PP has not submitted the pollution load proforma, the NIPL Certificate issuing Environmental Auditor was not present during the course of meeting and the PP was unable to submit the empanelment certificate of the Environmental Auditor issued by the State Pollution Control Board or Union Territory Pollution Control Committee or Central Pollution Control Board or Ministry of Environment, Forest and Climate Change or QCI- NABET accreditation for the respective sector.

The Technical Committee also noticed that the PP has not clearly specified the comparison of pollution load with respect to water, air and Hazardous Waste etc. as per the Environmental Clerance, existing consent and Proposed changes in presentation and NIPL certificate.

Technical Committee Decision:

Technical Committee decided to defer the case and asked PP to reassess their pollution load based on individual product, along with the NIPL certificate and was advised the PP to furnish above details in comparison with the Environmental Clerance, Consent to Operate and proposed changes under product mix without increase in water consumption, before the committee.

Agenda Item No.	**Agenda No. 5**
Proposal No.	**MPCB-CONSENT- 0000203036**
Project Details	**M/s. Inventys Research Company Private Limited.,** Plot No. K-38, Five Star Industrial Area, MIDC, Butibori Dist- Nagpur
NIPL Certificate	NIPL certificate issued by M/s. Goldfinch Engineering Systems Private Limited., No. Nil, Date. 03.04.2024.

Introduction: -

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000203036 along with the copies of documents seeking Amendment in Consent to Operate for change in product mix under the provisions of EIA Notification 2006 amended on 23.11.2016 & amended on 02.03.2021. The existing unit is engaged in manufacturing products in segments of Advanced Intermediates, Bulk Intermediates, Perfumery & Cosmetics, API and API Intermediates.

Existing Environment Clearances (EC): -

1. Environmental Clearance for expansion was accorded by SEIAA GoM vide. ref no. SEAC-2013/CR-395/TC-2 dtd. 09.03.2016 for a total capacity of 11400 TPA & By-product of 2105 TPA.

2. The Consent to operate accorded by the Board under Change in product mix vide Consent no.- Format 1.0/CC/UAN No. 0000121034 / CR/ 2303000461 issued on 06.03.2023 which is valid up to 31.07.2026 with a total production capacity of 11400 TPA.

Project Details: -

A. Products with change in product mix as below: -

Sr. No.	Product Name	Existing As per CTO, TPM	Addition/ Deletion, TPM	Proposed After CIPM, TPM
1	Sucrose octakis (hyrogen sulfate) aluminum complex	25.00	-5.00	20.00
2	3-chloroaniline	5.00	-4.00	1.00
3	1-Chloro-2-phenoxybenzene	5.00	0.00	5.00
4	decanenitrile	25.00	-24.00	1.00
5	1-Chloro-2-methoxynaphthalene	5.00	-4.00	1.00
6	1-(isoprylamino)-3-(1-naphthyloxy)-2-propanol hydrochloride	1.25	-1.15	0.10
7	2-Isopropyl-6-methyl-4-pyrimidinol	5.00	-4.90	0.10
8	5-Phenyl-1,2-oxazol-3-ol	5.00	-4.90	0.10
9	2-Bromo-6-methoxynaphthalene	10.00	-9.00	1.00
10	2-Phenylidole	0.83	-0.73	0.10
11	5-tert-butyl-m-xylene	5.00	-3.00	2.00
12	4-Methoxy-6-methyl-1,3,5-triazin-2-amine	4.16	-2.16	2.00
13	2-Chlorothiophene-5-carboxylic acid	4.00	0.00	4.00
14	3,4-dimethylpyrozole	20.00	0.00	20.00

15	Isoxathion (O,O-diethyl O-(5-phenyl-1,2-oxazol-3-yl) phosphorothioate)	5.00	-4.90	0.10
16	5-[4'-(Bromomethyl)-1,1'-biphenyl-2-yl]-1-triphenylmethyl-1-H-Tetraz ole]	20.00	-15.00	5.00
17	2-Hydrazine-4-MethoxyBenzoThiazole	0.83	-0.73	0.10
18	5-(4-(4-(5-cyano-1H-indol-3-yl) butyl) piperazin-1-yl) benzofuran-2-carboxamide Hydrochloride	0.83	-0.73	0.10
19	4,4'-Oxydiphthalic anhydride	5.00	-4.90	0.10
20	Diethyl Chlorothiophosphate	5.00	-4.90	0.10
21	4 - Amino salicylic acid	2.00	-1.00	1.00
22	2-(diethylamino)2-6,acetoxylidide hydrochloride (Lidocaine)	5.00	-4.90	0.10
23	Benzyldimethyl[2-[2-[p-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethyl]ammonium chloride (Benzethonium Chloride)	5.00	0.00	5.00
24	s Methyl Phenyl Glyycine Methyl Ester	25.00	-10.00	15.00
25	Acetonitrile	360.00	-110.00	250.00
26	Cyclopentanone	2.00	-1.90	0.10
27	Fexofenadine HCl	2.00	-1.90	0.10
28	1,3 dibromo-5- methyl-5- phenyl hydantoin	10.00	-9.00	1.00
29	1,3 Dichloro-5- methyl-5- phenyl hydantoin	5.00	-4.00	1.00
30	1,3 di-iodo-5- methyl-5- phenyl hydantoin	1.00	0.00	1.00

31	Quetiapine fumarate	1.00	-0.90	0.10
32	Malononitrile	1.00	24.00	25.00
33	Pregabalin	1.00	-0.90	0.10
34	Pramipexole	1.00	-0.90	0.10
35	Tamsulosin HCl	1.00	-0.90	0.10
36	Methyl 5 Phenyl Imidazolidine 2,4-dione	30.00	0.00	30.00
37	Phthalonitrile	5.00	-4.90	0.10
38	Clopidogrel HCl	5.00	-4.90	0.10
39	7-Chloroquinaldine (7- Chloroquinaldehyde)	5.00	-4.90	0.10
40	1 methyl Pyrozole	1.00	-0.90	0.10
41	Venlafaxine Hydrochloride (Venlafaxine)	5.00	-4.90	0.10
42	Alendronate Sodium	1.00	-1.00	0.00
43	R Aminobutanol	31.54	-26.54	5.00
44	O-Chlorobenzonitrile	5.00	0.00	5.00
45	Terephthalonitrile	5.00	-4.00	1.00
46	Levetiracetam	5.00	-4.90	0.10
47	Naproxen	1.00	-0.90	0.10
48	Gabapentin	1.00	-0.90	0.10
49	Bisphenol S	10.00	-9.00	1.00

50	Bis(4-allyloxyphenyl)sulfone	1.00	-0.90	0.10
51	Fluconazole USP	1.00	-0.90	0.10
52	N,O-Dimethyl-N-Nitroisourea	1.00	-0.90	0.10
53	2-[[(4 -chlorophenyl)methylhydrazono]methyl} 1 -ethyl-3,3-dimethyl-3H-indolium chloride	1.00	-0.90	0.10
54	2-[[(4 -methoxyphenyl)methylhydrazono]methyl] -l,3,3-trimethyl-3H-indolium methyl sulphate	1.00	-0.90	0.10
55	Basic Yellow 29	1.00	-0.90	0.10
56	Acid Red 82	1.00	-0.90	0.10
57	1-Cyclopropylethylamine Hydrochloride	10.00	-5.00	5.00
58	4'-Chloro-1-(3-chloro-2-pyridyl)-2'-{[(1RS)-1-cyclopropylethyl]carbamoyl}-4,5- dihydro-3- hydroxypyrazole-5-carboxanilide	10.00	-9.90	0.10
59	2-(4-Bromophenyl)-1,3-benzoxazole	0.42	0.00	0.42
60	Cyclohexyl Diacetyl carboxylic acid	10.00	0.00	10.00
61	2-Aminobenzonitrile	10.00	-5.00	5.00
62	p-Chlorophenylglycine	1.00	0.00	1.00
63	o-Chlorophenylglycine	1.00	-0.90	0.10
64	Chinomethionate	1.00	0.00	1.00
65	7,8-Dihydroxyphenazine-2-sulfonic acid	0.42	0.00	0.42
66	N-(2,3-Dichlorophenyl)-4-hydroxyBenzamide	4.00	0.00	4.00

67	4,4'-Bis(chloromethyl)biphenyl	10.00	0.00	10.00
68	Loratidine	3.00	-2.90	0.10
69	3-fluoro-5-(trifluoromethyl)pyridine-2-carbonitrile	1.00	0.00	1.00
70	3-Fluoro-4-(Hydroxymethyl)benzonitrile	3.00	-2.99	0.01
71	3-Fluoro-4-Methylbenzonitrile	5.00	-4.00	1.00
72	4-Fluoro-2,3-Bis(Hydroxymethyl)Phenyl Methanesulfonate	1.00	0.00	1.00
73	Composite of Stearic Acid and HMDA	75.00	0.00	75.00
74	4-[2-(4-tert-butylphenyl)ethoxy]quinazoline	10.00	0.00	10.00
75	Quinazolin-4(3H)-one	6.00	0.00	6.00
76	2-(4-tert-butylphenyl)ethanol	6.00	0.00	6.00
77	N-{2,4-Dichloro-5-[4-(difluoromethyl)-3-methyl-5-oxo-4,5-dihydro-1H- 8 1,2,4-triazol-1-yl]phenyl}methanesulfonamide	50.00	-20.00	30.00
78	α-(methoxyimino)-2-furanacetic acid, ammonium salt	33.00	-32.90	0.10
79	4-Chloro-2-Nitrobenzonitrile	1.00	-0.90	0.10
80	2-Hydroxy-6-Cyanonaphthalene	0.50	-0.40	0.10
81	Hydroxy(phenyl)acetic acid	10.00	-5.00	5.00
82	2-Chloro-4-fluoro-5-nitrobenzoic acid	4.00	-3.90	0.10
83	2,3-Dihydro-2,6-dimethyl-1H-inden-1-one	40.00	-25.00	15.00
84	5-Bromo-2-benzofuran-1,3-dione	5.00	-4.90	0.10

85	4-Cyanobenzoyl chloride	20.00	-19.90	0.10
86	1,1-Dimethoxypropan-2-one	4.00	1.00	5.00
87	3-Bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxylic acid	50.00	-30.00	20.00
88	3-Bromo-4-chloro-1-(3-chloro-2-pyridyl)-2-methyl-6-(19 methylcarbamoyl)pyrazole-5-carboxanilide	20.00	0.00	20.00
89	1-(5-Fluoro-2-hydroxyphenyl)-2-(3-fluorophenyl) ethan-1-one	0.50	-0.40	0.10
90	(2R)-2-phenylmethoxypropanoic acid	0.50	9.50	10.00
91	5-amino-3-(3-fluoro-4-isopropoxyphenyl)-1H-pyrazole-4-carbonitrile	0.50	-0.40	0.10
92	3-Pyridinecarboxaldehyde	4.00	-3.90	0.10
93	4-Bromomethyl Benzoic acid	4.00	-3.90	0.10
94	4-Fluoro-2.3-Dimethylphenol	1.00	-0.90	0.10
95	2-Amino-4-Chlorobenzamide	0.50	0.00	0.50
96	2-Methoxy-4-methyl-6- (methylamino)-1,3,5-triazine	5.00	0.00	5.00
97	4'-fluoro-N-isopropyl-2-{[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]oxy}acetanilide	100.00	-80.00	20.00
98	1-(chloromethyl)-3-fluorobenzene	0.10	0.00	0.10
99	3,4-Difluorobenzoic acid	0.10	0.00	0.10
100	4-Fluorophenol	50.00	-40.00	10.00

101	R & D Products	1.00	4.00	5.00
102	N-(2-amino-4,6-dichloropyrimidin-5-yl)formamide (FADCP)	0.00	10.00	10.00
103	Guanine (GUA)	0.00	20.00	20.00
104	2-Amino-4,6-Dimethoxypyrimidine (ADMP)	0.00	5.00	5.00
105	4-Methyl-1H-Pyrazole (4-MP)	0.00	10.00	10.00
106	Propoxyacetic Acid (PAA)	0.00	5.00	5.00
107	Chloroacetonitrile (CACN)	0.00	10.00	10.00
108	1,8-Diamino Octane	0.00	5.00	5.00
109	2,4-Dichloroaniline	0.00	15.00	15.00
110	methyl (2R)-2-fluoropropanoate (RFMP)	0.00	14.50	14.50
111	2-(methanesulfonyl)-5-(trifluoromethyl)-1,3,4-thiadiazole (TDA-S) (TDA Sulpfone)	0.00	10.00	10.00
112	4-Fluorophenol (4FP)	0.00	10.00	10.00
113	2-amino-3,4-difluorobenzaldehyde (FDFA)	0.00	10.00	10.00
114	Hexyl Lithium	0.00	10.00	10.00
115	Butyl Lithium	0.00	10.00	10.00
116	Cyclopropane Carboxylic Acid	0.00	10.00	10.00
117	Methyl Cyclopropylcarboxylate	0.00	3.00	3.00
118	Cyclopropyl Methyl Bromide	0.00	3.00	3.00
119	Cyclopropylmethylamine	0.00	3.00	3.00

120	Adenine	0.00	10.00	10.00
121	8-HydroxyQuinoline	0.00	10.00	10.00
122	4-Hexylresorcinol	0.00	5.00	5.00
123	2-Acetylthiophene	0.00	1.00	1.00
124	DMPSA-K2	0.00	250.00	250.00
125	DMPSA-(NH4)2	0.00	10.00	10.00
126	2-Amino-5-chlorobenzoic acid	0.00	6.00	6.00
127	3-((Dimethylamino)methyl)-5-methylhexan-2-one oxalate (SF-1)	0.00	1.00	1.00
128	6,7-dimethoxy-3,4-dihydroisoquinoline hydrochloride (SF-2)	0.00	0.75	0.75
129	3,3-Dichloro-1-(4-nitrophenyl)piperidin-2-one (SF-3)	0.00	2.00	2.00
130	Ethyl-1-methylbutyl cyanoacetate (SF-4)	0.00	3.50	3.50
131	5-Fluorocytosine	0.00	5.00	5.00
132	3,4,5-Trifluorobromobenzene	0.00	0.10	0.10
133	3',4'-dichloro-5-fluoro[1,1'-biphenyl]-2-amine (DCFBA)	0.00	0.10	0.10
134	2-(2,4-Dichlorophenyl)-4-(difluoromethyl)-2,4-dihydro-5-methyl-3H-1,2,4-triazol-3-one	0.00	5.00	5.00
135	9-(dichloromethylidene)-1,2,3,4-tetrahydro-1,4-methanonaphthalene	0.00	0.10	0.10
136	3',4',5'- trifluoro-2-nitro-1,1'-biphenyl	0.00	0.10	0.10

137	3',4',5'-trifluoro[1,1'-biphenyl]-2-Aniline	0.00	0.10	0.10
138	3-(difluoromethyl)-1-methyl-1H-pyrazole-4-carboxylic acid	0.00	0.10	0.10
139	2-Methoxy-5-Nitropyridine	0.00	10.00	10.00
140	2-(3,4-difluorophenyl)-1,3-dioxolane (PFDF)	0.00	0.10	0.10
141	5-bromo-2-cyano pyridine	0.00	2.00	2.00
142	1 iodo 4 methyl benzene (4-iodo toulene)	0.00	2.00	2.00
143	pyroxasulphone	0.00	10.00	10.00
144	2,6-Difluorobenzonitrile	0.00	0.10	0.10
145	2-amino-5-chlorobenzotrifluoride	0.00	5.00	5.00
146	8-Nitro-2-tetrazol-5-yl-4-oxo-4H-1-benzopyran	0.00	5.00	5.00
147	3-(1-Cyanoethyl)benzophenone	0.00	1.00	1.00
148	2-Amino-2methylpropionitrile	0.00	1.00	1.00
149	N-Methyl-p-Anisidine	0.00	10.00	10.00
150	Mandipropamid	0.00	10.00	10.00
151	Diclosulam	0.00	10.00	10.00
152	Cloransulam-Methyl	0.00	10.00	10.00
153	Tembotrione	0.00	10.00	10.00
154	Isoxaflutole	0.00	10.00	10.00
155	Lidocaine	0.00	1.00	1.00

156	5-fluoro-4-hydrazinyl-2-methoxypyrimidine	0.00	1.00	1.00
157	1-amino-4-oxocyclohexane-1-carboxylic acid (AOCCA)	0.00	0.10	0.10
158	Spirotetramat	0.00	15.00	15.00
159	2-flourophenol	0.00	2.40	2.40
160	Dihydroxydiphenyl Ether	0.00	0.50	0.50
161	3-flourophenol	0.00	0.10	0.10
162	3,4-Dimethylpyrazole Succinic Acid (DMPSA)	0.00	10.00	10.00
163	2-amino-5-chloro-N-(1-cyclopropylethyl) benzamide	0.00	0.50	0.50
164	4-Methoxymethyl-2,3,5,6-Tetrafluorobenzyl Alcohol	0.00	10.00	10.00
165	CDMO (Contract Development and Manufacturing Organizations), products such as 2-Amino-2-Methylpropionitrile, 4- Cyaobenzoic Acids etc..	0.00	15.00	15.00
Total		**1268.98**	**46.21**	**1315.20**

- Industry has proposed change in product mix in its existing facility by decreasing production capacity of 71 Nos. of existing products, increasing production capacity of 4 existing products, Addition of 64 new products, deletion of 1 existing product and keeping the production capacity same of 25 Existing products.

- The overall production quantity is increasing from 1268.98 MT/M to 1315.20 MT/A, however as per the Environmental Clearance and Consent to Operate condition, industry shall manufacture maximum 10 Nos. of products at a time and the overall total production quantity shall not exceed 11400 MT/A. And, industry has proposed that the overall production quantity will not exceed 11400 MT/A after change in product mix.

B. Pollution load Details: -

Water & Wastewater Aspect: -

i) Water consumption aspect before & after proposed change in product mix: -

Propose	As Per EC	As Per CTO	After change in product mix, CMD	Proposed Additional Water Consumption
Process	300	116.6	116.5	Nil
Boiler Feed	400	320	320.00	
Cooling Tower	500			
Total Trade	1200	436.6	436.5	
Domestic	50	50	50.00	Nil
Gardening	40	10	10.00	Nil
Grand Total	1290	496.6	496.5	

- Total process water consumption is proposed to be reduced by 0.1 CMD after a change in product mix.

ii) Waste Water aspect before & after proposed change in product mix: -

Propose	As Per EC	As Per CTO	Effluent Generation after proposed change in product mix, CMD	Mode of Disposal & Ultimate Receiving Body
INDUSTRIAL				
Process	260	97.3	96.4	CETP
Boiler feed	225	57.5	57.50	

Cooling Tower	15			
Total Industrial	500	154.8	153.9	
Domestic	40	47.5	47.5	50% recycle & remaining for gardening.
Gardening	0	0	0	-
Grand Total	540	202.3	201.4	

- Industry has proposed reduction in trade effluent (process effluent) generation by 0.9 CMD i.e from 202.3 CMD to 201.4 CMD after a change in product mix.

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

Existing trade effluent characteristic and pollution load				
	From Process		**From Washing Activity, Cooling Tower & Boiler Blowdowns**	
Flow (CMD)	**97.3 (Strong)**		**57.5 (Weak)**	
Parameter	**Kg/Day**	**mg/L**	**Kg/Day**	**mg/L**
COD	323.52	3325	9.7	167
BOD	160.9	1654	4.8	83
TDS	1013.4	10415	64.8	1127
After Product Mix Trade Effluent characteristic and pollution load				
	From Process		**From Washing Activity, Cooling Tower & Boiler Blowdowns**	
Flow (CMD)	**96.4 (Strong)**		**57.5 (Weak)**	
Parameter	**Kg/Day**	**mg/L**	**Kg/Day**	**mg/L**
COD	319.8	3317	9.7	167

BOD	148.4	1539	4.8	83
TDS	1002.9	10401	64.8	1127

- After a change in product mix the COD, BOD & TDS load of effluent from process will decrease. COD- Load will decrease by 3.72 Kg/Day, BOD load will decrease by 12.5 Kg/Day and TDS load will decrease by 10.5 Kg/Day.

C. Treatment System: -

i) Trade Effluent:

Industry has segregated trade effluent into strong & weak stream and provided separate treatment system as below.

Strong Stream: High COD/TDS stream effluent 96.4 CMD is treated in treatment system comprising of Primary, followed by Stripper, Single Effect Evaporator and ATFD. The SEE condensate is treated with weak stream in Effluent Treatment Plant.

Weak Stream: Low COD/TDS stream 57.5 CMD is treated in 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).

ii) Sewage effluent:

Domestic effluent 47.5 CMD is treated separately in STP having capacity 50 CMD.

D. Air Emission Aspect: -

i) Flue Gas Parameters: -

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	Boiler 4 TPH	Bio coal 6000 Kg/Hr	Coal / Biomass 585 Kg/Hr	No Change	Multi cyclone	27 m
S-2	Boiler 10 TPH		Biomass 1400 Kg/Hr	No Change	Multi cyclone	32 m
	Boiler 0.5 TPH		Biomass 70 Kg/Hr	No Change		
S-3	Thermic Fluid Heater (4.0 L kcal/Hr)	Not Mentioned	LSHS 480 Ltr/Hr	No Change	Multi cyclone	17 m
S-4	Hot Oil Unit-I	Not Mentioned	Coal / Biomass 125 Kg/Hr	No Change	Stack	17 m
S-5	Hot Oil Unit-II	Not Mentioned	LSHS 90 Kg/Hr	No Change	Stack	32 m
S-6	D.G. Set (500 KVA) *	D.G. Set (2*500 KVA): HSD 200 Ltr/Hr	HSD 100 Ltr/Hr	HSD 100 Ltr/Hr	Acoustic Enclosure Stack	3.5 m
S-7	D.G. Set (500 KVA) *		HSD 25 Ltr/Hr	HSD 100 Ltr/Hr	Acoustic Enclosure Stack	3.5 m

Total SO2 generation: -

Sr. No.	Particular	As per EC, Kg/Day	Existing as Per CTO, Kg/Day	After change in product mix, Kg/Day
1	Total SO_2 Generation (Generated from Boiler (3 Nos.), Thermic Fluid Heater, Hot oil unit (2 Nos.) and D. G. Set (2 Nos.)	960-1320 Kg/Day	309.44 Kg/Day	321.44* Kg/Day

- Industry has submitted that D.G. set -1 capacity mentioned as 250 KVA but it is 500 KVA. Also, the unit has scrapped the D.G. set of capacity 125KVA and the same is informed to MPCB. As per EC, 500 KVA is installed and fuel is also taken.
- *In the CTO, the SO2 emission for the 125 KVA D.G. Set using HSD fuel at a rate of 25 Kg/Hr is mentioned as 4 Kg/Day. However, the unit has scrapped the 125 KVA D.G. Set and has now applied for a 500 KVA with a fuel consumption of 100 Kg/Hr, resulting in an SO2 generation of 16 Kg/Day. The Environmental Clearance (EC) mentions two 500 KVA D.G. Sets, with HSD fuel consumption of 200 Ltr/Hr. Hence, after a change in product mix, the total SO2 emissions from the stacks are within the limits specified in the EC.

ii) Process Emissions and control systems: -

Sr. No.	Particular	Parameters	Height in meter
1	Process reactor Vent-1 (Common Stack to 5 Nos. of Scrubbers)	Acid Mist, HCl, NH_3	10 m
2	Process reactor Vent-2 (Common Stack to 4 Nos. of scrubbers)	HCN	10 m
3	Process reactor Vent-3 (Common Stack to 5 Nos of Scrubbers)	HBr, HCl, NH_3, SO_2	10 m
4	Process reactor Vent-4	HCl, SO_2	10 m
5	Process reactor Vent-5 (Common Stack to 4 Nos of Scrubbers)	HCl, NH_3, SO_2,	10 m

- **Industry has proposed to add new parameter HCN, industry has submitted that the emission of HCN are generated from the existing product only, however the same has not been specified in previous consent.**
- **The process emission control systems industry has submitted that there are 19 Nos. of scrubbers, however only 16 Nos. of scrubbers are mentioned in the consent.**

E. Hazardous Waste Aspect: -

Sr. No	Type of Waste	Cat. No.	As Per EC, TPA	Existing as Per CTO, TPA	After a Change in product mix, TPA	Proposed changes after NIPL	Disposal
1	Used or Spent oil	5.1	0.0	480 Ltr/A	480 Ltr/A	No Change	Sale to authorized party / CHWTSDF
2	Spent Solvents	20.2	60	17.5	6.16	Decreased	Sale to authorized party / CHWTSDF
3	Process Residue and wastes	28.1	240	250.664	348.05	Increased	CHWTSDF
4	Spent Catalyst	28.2	5	4.22	5.83	Increased	Sale to authorized party / CHWTSDF
5	Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	-	36000 Nos./Y	7200 Nos. /Y	7200 Nos. /Y	No Change	Sale to authorized party / CHWTSDF
6	Chemical sludge from wastewater treatment	35.3	40	12	12	No Change	CHWTSDF

7	Filter & Filter Material	36.2	1	0.3	0.3	No Change	CHWTSDF
8	Spent Carbon (ETP)	36.2	270	81	81	No Change	CHWTSDF
9	MEE Salts	37.3	3000	316.4	316.4	No Change	CHWTSDF
10	Bio Sludge	35.3	10	3	3	No Change	CHWTSDF
11	Ammonium Sulphate	28.1	0.0	414.2	325.91	Decreased	Sale to authorized party / CHWTSDF
12	Sodium Chloride (NaCl)	28.1	0.0	704.4	1229.58	Increased	Sale to authorized party / CHWTSDF
13	Sodium bicarbonate ($NaHCO_3$)	28.1	0.0	108	135.30	Increased	Sale to authorized party / CHWTSDF
14	Sodium Sulphate (Na_2SO_4)	28.1	1600	715.2	443.85	Decreased	Sale to authorized party / CHWTSDF
15	Potassium bicarbonate ($KHCO_3$)	28.1	0.0	4.8	0.45	Decreased	Sale to authorized party / CHWTSDF
16	Sodium Bisulfite ($NaHSO_3$)	28.1	0.0	206.4	52.94	Decreased	Sale to authorized party / CHWTSDF
17	Sulphur	28.1	0.0	10.8	0.21	Decreased	Sale to authorized

							party / CHWTSDF
18	Mixed Pottasium Chloride (KCl) & Potassium Bromide (KBr) Salt	28.1	0.0	3.6	0.33	Decreased	Sale to authorized party / CHWTSDF
19	Spent Solvent Methanol	28.1	0.0	51.6	3.58	Decreased	Sale to authorized party / CHWTSDF
20	Sodium Sulphite ($NaSO_3$)	28.1	0.0	46.8	433.70	Increased	Sale to authorized party / CHWTSDF
21	Sodium Bromide (NaBr)	28.1	25	532.8	262.90	Decreased	Sale to authorized party / CHWTSDF
22	Spent Solvent Ethanol	28.1	0.0	2.4	0.10	Decreased	Sale to authorized party / CHWTSDF
23	Spent Solvent Toluene	28.1	0.0	6.0	0.44	Decreased	Sale to authorized party / CHWTSDF
24	Hydrogen Bromide (HBr)	28.1	0.0	38.4	5.05	Decreased	Sale to authorized party / CHWTSDF

25	Mixed Sodium Bromide (NaBr) & Sodium bisulfate ($NaHSO_4$) Salt	28.1	0.0	184.8	78.53	Decreased	Sale to authorized party / CHWTSDF
26	Dimethylazanium chloride	28.1	0.0	28.8	28.8	No change	Sale to authorized party / CHWTSDF
27	Spent Phosphoric acid (H3PO4) & Hydrochloric Acid (HCl)	28.1	0.0	68.4	210.70	Increased	Sale to authorized party / CHWTSDF
28	Sodium acetate ($C_2H_3NaO_2$)	28.1	0.0	57.6	39.6	Decreased	Sale to authorized party / CHWTSDF
29	Potassium Chloride (KCl)	28.1	0.0	112.8	5.69	Decreased	Sale to authorized party / CHWTSDF
30	Sodium fluoride (NaF)	28.1	0.0	1.2	0.20	Decreased	Sale to authorized party / CHWTSDF
31	Sodium Iodide (NaI)	28.1	0.0	73.2	135.06	Increased	Sale to authorized party / CHWTSDF
32	Spent H_2SO_4	28.1	0.0	548.4	285.15	Decreased	Sale to authorized

							party / CHWTSDF
33	Potassium Bisulfate ($KHSO_4$)	28.1	0.0	12	1.47	Decreased	Sale to authorized party / CHWTSDF
34	Spent Phosphoric Acid (contains NaCl)	28.1	0.0	8.4	0.85	Decreased	Sale to authorized party / CHWTSDF
35	Dimethyl sulfoxide (DMSO)	28.1	0.0	3.6	0.35	Decreased	Sale to authorized party / CHWTSDF
36	Potassium Iodide (KI)	28.1	0.0	7.2	0.74	Decreased	Sale to authorized party / CHWTSDF
37	Acetic Acid	28.1	0.0	33.6	0.34	Decreased	Sale to authorized party / CHWTSDF
38	Potassium Bromide (KBr)	28.1	480	2.4	2.28	Decreased	Sale to authorized party / CHWTSDF
39	Succinimide	28.1	0.0	24	6.6	Decreased	Sale to authorized party / CHWTSDF

40	Potassium Fluoroborate (KBF_4)	35.3	0.0	67.2	12.43	Decreased	Sale to authorized party / CHWTSDF
41	Spent Lithium Benzenesulfinate	28.1	0.0	0.0	120.28	Newly Added	Sale to authorized party / CHWTSDF
42	Lithium Chloride	28.1	0.0	0.0	23.36	Newly Added	Sale to authorized party / CHWTSDF
43	Spent Ammonium Bromide	28.1	0.0	0.0	53.89	Newly Added	Sale to authorized party / CHWTSDF
44	Spent Aluminium Hydroxide	28.1	0.0	0.0	33.71	Newly Added	Sale to authorized party / CHWTSDF
45	Spent Magnesium Hydroxide	28.1	0.0	0.0	0.29	Newly Added	Sale to authorized party / CHWTSDF
46	N, N'-dicyclohexylurea	28.1	0.0	0.0	5.40	Newly Added	Sale to authorized party / CHWTSDF
47	Potassium Methanesulfonate	28.1	0.0	0.0	131.20	Newly Added	Sale to authorized

							party / CHWTSDF
	Total		**3626 TPA + 2105 TPA By-products and 36000 Nos./Y of discarded contaminated containers, barrels and bags/liners**	**3204.284 TPA (1099.284 TPA + 2105 TPA claimed By-products*), Used or Spent Oil 480 Ltr/A and 7200 Nos./Y Empty barrels/containers/liners contaminated with hazardous chemicals/wastes**	**3203.46 TPA (1098.65 TPA + 2104.81 TPA By-products*), Used or Spent Oil 480 Ltr/A and 7200 Nos./Y Empty barrels/containers/liners contaminated with hazardous chemicals/wastes**		

- The Board has accorded the consent to operate by shifting the claimed by-products to Hazardous Wastes with condition that 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.
- Environmental Clerance was accorded for total Hazardous waste 3626 TPA, Claimed by-products 2105 TPA and 36000 Nos./Y of discarded contaminated containers, barrels and bags/liners.
- After change in product mix industry has proposed to decrease the total Hazardous Waste 824 Kg/A i.e 3203.46 TPA (1098.65 TPA + 2104.81 TPA By-products*), Used or Spent Oil 480 Ltr/A and 7200 Nos./Y Empty barrels/containers/liners contaminated with hazardous chemicals/wastes.

Technical Committee Deliberations:

The project proposal was discussed based on presentation made and documents- NIPL Certificate, NIPL proforma and Revised 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. Goldfinch Engineering Systems Private Limited., No. Nil, Date. 03.04.2024 and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

1) Industry has proposed change in product mix in its existing facility by decreasing production capacity of 71 Nos. of existing products, increasing production capacity of 4 existing products, addition of 64 new products, deletion of 1 existing product and keeping the production capacity same of 25 Existing products.
2) The overall production quantity is increasing from 1268.98 MT/M to 1315.20 MT/A, however as per the Environmental Clearance and Consent to Operate condition, industry shall manufacture maximum 10 Nos. of products at a time and the overall total production quantity shall not exceed 11400 MT/A. Also, industry has proposed that the overall production quantity will not exceed 11400 MT/A after a change in product mix.
3) Industry has proposed that the total process water consumption will be reduced by 0.1 CMD after a change in product mix.
4) Industry has proposed reduction in trade effluent (process effluent) generation by 0.9 CMD i.e. from 202.3 CMD to 201.4 CMD after a change in product mix.
5) The Board has accorded the consent to operate by shifting the claimed by-products to Hazardous Wastes with condition that 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) Environmental Clerance was accorded for total Hazardous waste 3626 TPA, Claimed by-products 2105 TPA and 36000 Nos./Y of discarded contaminated containers, barrels and bags/liners.
7) After change in product mix industry has proposed to decrease the total Hazardous Waste to 3203.46 TPA (1098.65 TPA + 2104.81 TPA By-products*) i.e. by 824 Kg/A, Used or Spent Oil 480 Ltr/A and 7200 Nos./Y Empty barrels/containers/liners contaminated with hazardous chemicals/wastes.
8) The total SO2 generation load as per Environmental Clerance 960-1320 Kg/Day, as per the existing consent to operate is 309.44 Kg/Day and proposed after change in product mix will be 321.44 Kg/Day.

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 should not manufacture any other product for which permission is not granted by the MPCB.
3) Industry shall ensure connectivity of OCEMS data to Board server.

4) Industry shall upgrade the existing Air Pollution Controls systems provided to coal fired Boilers and Hot Oil Generators by installing Bag Filters.
5) Industry has proposed to add new parameter HCN which is reportedly missed in existing consent and environmental clearance; however, this needs to be reexamined by the concerned division before issuance of consent under NIPL.
6) Industry shall comply with the Boards Circular dtd. 05.02.2020 for use of cleaner fuel.

Agenda Item No.	Agenda No. 6
Proposal No.	MPCB-CONSENT-0000200484
Project Details	**M/s. Cipla Ltd.,** Plot No. D-22, Unit. 3 MIDC Kurkumbh, Tal- Daund, Dist- Pune.
NIPL Certificate	NIPL Certificate issued by M/s. Equinox Environment (India) Pvt. Ltd. No. EEIPL/10/2024.25, Date. 06.04.2024.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000200484 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.

Industry vide email dtd.18.06.2024 requested for grant of the leave of absence for scheduled meeting.

In view of above, as per the request of the project proponent, the Technical Committee decided to consider this proposal in next meeting.

Agenda Item No.	**Agenda No. 7**
Proposal No.	MPCB-CONSENT- 0000206822
Project Details	**M/s. Harman Finochem Limited,** Plot No A-100, A-100/1, A-100/2, A-120, A-120 part, D-1, D-37, MIDC Industrial Area, Shendra, Aurangabad.
NIPL Certificate	NIPL Certificate issued by M/s. Goldfinch Engineering Systems Private Limited., No. Nil, Date. 03.04.2024.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT- 0000206822 along with the copies of documents seeking amendment in consent to operate for proposed change in product-mix under the provisions EIA Notification 2006 amended on 23.11.2016 & amended on 02.03.2021. The unit is engaged in manufacturing Active Pharmaceutical Ingredients and Pharmaceutical formulation.

Existing Environment Clearances (EC):

1. Environmental clearance for expansion was accorded by SEIAA vide No. SIA / MH / IND2 / 170698 / 2020, Date. 23.07.2021.
2. Existing 1st Consent to operate in amalgamation with consent to operate was accorded by the Board vide No. Format 1.0/CAC/UAN No.0000147352/CR/2309002293, Date: 28.09.2023, valid upto 30.04.2026.

Project Details: -

A. Products with change in product mix as below:

Sr. No.	Name of Product	EC Production MT/M	CTO Production, MT/M	Addition (+) / Deletion (-), MT/M	Proposed Production after CIPM, MT/M
1	Allopurinol	105.00	105.00	0.00	105.0

2	Carisoprodol	50.00	50.00	0.00	50.0
3	Cyclobenzaprine Hydrochloride	0.45	0.45	-0.45	0.0
4	Divalproex Sodium	50.00	50.00	0.00	50.0
5	Fenofibrate	30.00	30.00	0.00	30.0
6	Meprobamate	10.00	10.00	0.00	10.0
7	Metformin Hydrochloride	1243.89	1234.89	-6.09	1228.8
8	Phenobarbitone	44.00	44.00	0.00	44.0
9	Phenytoin Sodium	20.00	20.00	0.00	20.0
10	Propofol	20.00	20.00	0.00	20.0
11	Sodium Valproate	15.00	15.00	0.00	15.0
12	Valproic acid	25.00	25.00	0.00	25.0
13	Aripiprazole	3.00	3.00	0.00	3.0
14	Colchicine	0.16	0.16	-0.16	0.0
15	Donepezil Hydrochloride	10.00	10.00	-10.00	0.0
16	Lidocaine Hydrochloride	1.00	1.00	0.00	1.0
17	Phenobarbital sodium	5.00	5.00	0.00	5.0
18	Phenytoin	5.00	5.00	0.00	5.0
19	Tolterodine Tartrate	5.00	5.00	0.00	5.0
20	Torasemide	4.00	4.00	0.00	4.0
21	Xipamide	1.50	1.50	0.00	1.5
22	Valsartan	5.00	5.00	0.00	5.0
23	Valsartan Disodium	1.00	1.00	0.00	1.0
24	Sacubitril/Valsartan	2.00	2.00	0.00	2.0

25	Bupivacaine Base	0.05	0.05	0.00	0.05
26	Bupivacaine Hydrochloride Monohydrate	0.05	0.05	0.00	0.05
27	Lesinurad	0.50	0.50	0.00	0.5
28	Succinylcholine Chloride	0.20	0.20	0.00	0.2
29	Isoproterenol Hydrochloride	0.03	0.03	0.00	0.03
30	Methylcobalamin	0.80	0.80	0.00	0.8
31	Calcium Gluconate	1.00	1.00	0.00	1.0
32	Dapagliflozin	0.10	0.10	0.00	0.1
33	Efinaconazole	0.10	0.10	0.00	0.1
34	Indacaterol Maleate	0.10	0.10	0.00	0.1
35	Calcium Saccharate	0.50	0.50	0.00	0.5
36	Norephinephrine	0.10	0.10	0.00	0.1
37	PAPCHS (5-Aminopyrazole-4-carboxamide hemi sulphate)	10.00	10.00	0.00	10.0
38	Vildagliptin	30.00	30.00	0.00	30.0
39	Alogliptin Benzoate	0.10	0.10	-0.10	0.0
40	Benztropine Mesylate	0.10	0.10	0.00	0.1
41	Formoterol Fumerate	0.05	0.05	0.00	0.1
42	Desethyl Oxybutynin Hydrochloride	0.10	0.10	0.00	0.1
43	Chlorthalidone	3.00	3.00	0.00	3.0
44	Dextromethorphan hydrobromide	15.00	15.00	0.00	15.0
45	Tilidine Hydrochloride	2.50	2.50	0.00	2.5

46	Hydroxocobalamin	0.10	0.10	0.00	0.1
47	Bisoprolol Fumarate	1.00	1.00	0.00	1
48	Methylphenidate Hydrochloride	3.00	3.00	0.00	3
49	Ritalinic Acid	4.00	4.00	0.00	4
50	6-Aminocaproic acid	0.20	0.20	-0.20	0
51	Sitagliptin Phosphate monohydrate	10.00	10.00	0.00	10
52	Epinephrine Bitartrate	1.00	1.00	0.00	1
53	Fospropofol Disodium	1.00	1.00	0.00	1
54	Rocuronium Bromide	1.00	1.00	0.00	1
55	Epinephrine	0.15	0.15	0.00	0.15
56	Sacubitril calcium	10.00	10.00	0.00	10
57	Sitagliptin Hydrochloride	10.00	10.00	0.00	10
58	Nicotine Bitartarte	6.00	6.00	0.00	6
59	Nicotine Polacrilex	6.00	6.00	0.00	6
60	Nicotine	96.00	96.00	0.00	96
61	Fenofibric acid	2.00	2.00	0.00	2
62	Clofazimine	0.00	0.00	2.00	2
63	Potassium acetate	0.00	0.00	1.00	1
64	Phenylbutazone	0.00	0.00	1.00	1
65	LEE011-B7 (Intermediate)	0.00	0.00	10.00	10
66	Imeglimin Hydrochloride	0.00	0.00	2.00	2
67	Pentobarbital Sodium	0.00	0.00	1.00	1
68	Cupric sulfate pentahydrate	0.00	0.00	0.00	0.001

69	Manganese Sulfate	0.00	0.00	0.00	0.001
70	Selenious acid.	0.00	0.00	0.00	0.001
	Total	**1871.83**	**1862.83**	**0.00**	**1862.83**

- **The proposed change in the product mix is proposed by decreasing the production quantity of 01 existing product, addition of 9 new products and deletion of 5 existing products.**
- **Industry has proposed the total production quantity of the API products will remain same i.e 1862.83 MT/M after change in product mix.**

B. Pollution load Details: -

Water & Wastewater Aspect: -

i) Water consumption aspect before & after proposed change in product mix: -

Particular	As Per EC, CMD	As Per CTO, CMD	(+) Increase / (-) Decrease, CMD	After change in product mix, CMD
Process	368	368	-1.08	366.92
Other Industrial Activity	480	1629	0	1629
Cooling Tower & Boiler (Utility)	1629			
Total Trade water consumption	2477	1997	-1.08	1995.92
Gardening and Fire Hydrant system*	268	283	0	283
Domestic Water Consumption	84	84	0	84
Grand Total	2829	2364	-1.08	2362.92

- **Total process water consumption is proposed to be reduced by 1.08 CMD after a change in product mix.**

ii) Waste Water aspect before & after proposed change in product mix: -

Particular	As Per EC, CMD	As Per CTO, CMD	(+) Increase / (-) Decrease, CMD	After change in product mix, CMD	Mode of Disposal & Ultimate Receiving Body
Process	336	850	-1.08	848.92	Recycle 100 % to achieve ZLD
Other Industrial Activity	388				
Cooling Tower & Boiler (Utility)	126				
Total Industrial effluent	**850**	**850**	**-1.08**	**848.92**	
Domestic Effluent	72	72	0	72	Recycled and reused for Gardening inside the premises
Grand Total	922	922	-1.08	920.92	

- **After a change in product mix the trade effluent is proposed to be reduced by 1.08 CMD.**

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

Existing effluent characteristic:-				
	From Process		**Washing Activity, other industrial activity, Cooling Tower & Boiler Blow down**	
Flow (CMD)	336 (Strong)		514 (Weak)	
Parameter	Kg/Day	mg/L	Kg/Day	mg/L
COD	60720.53	180742	133.2	259
BOD	29867.88	730751	66.6	130
TDS	31317.72	93221	704.4	1370
Effluent characteristic after change in Product Mix:-				
Flow (CMD)	334.92 (Strong)		514 (Weak)	

Parameter	Kg/Day	mg/L	Kg/Day	mg/L
COD	60719.03	181294	133.2	259
BOD	29866.71	89177	66.6	130
TDS	31213.65	93207	704.4	1370

- **Average COD, BOD and TDS load after change in product mix is proposed to reduce by about 0.002%, 0.003% & 0.33% respectively.**

C. Treatment System: -

i) Trade Effluent:
Industry has segregated trade effluent into strong & weak stream and provided separate treatment system as below.

Strong Stream: High COD/TDS stream effluent 334.92 CMD is treated in treatment system comprising of Primary, followed by Stripper, Multi Effect Evaporator and ATFD. The MEE condensate is treated with weak stream in Effluent Treatment Plant.

Weak Stream: Low COD/TDS stream 514 CMD is treated in 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) and Advanced treatment (Reverse osmosis), RO permeate is reused in plant and reject is sent to MEE.

ii) Sewage effluent:
Domestic effluent 72 CMD is treated separately in STP having capacity 80 CMD.

iii) Total trade and domestic effluent is recycled to achieve 100% Zero Liquid Discharge (ZLD).

D. Air Emission Aspect: -

i) Flue Gas Emissions: -

Stack No.	Stack Attached to	As per EC	As per CTO	Existing Fuel Consumption	APC system	Stack Height (m)
S-1	Boiler (2 TPH & 5 TPH) & TFH 3 and 6 lakh kcal/hr. each)	Furnace Oil 272 Litres/hr	LSHS 317 Kg/Hr	LSHS 317 Kg/Hr	Stack	33
S-2	Boiler- 14 TPH	Coal 1800 kg/hr	Coal 1800 kg/hr Briquette 2200 kg/hr	Coal 1800 kg/hr Briquette 2200 kg/hr	Reverse pulse jet Bag Filter	42.5
S-3	Boiler- 28 TPH	Coal 3580 kg/hr	Coal 3580 kg/hr	Coal 3580 kg/hr	Fabric Bag Filter ESP	33
S-4	DG Set (1500 KVA)**	HSD 300 L/hr	HSD 300 kg/hr	HSD 300 kg/hr	Acoustic enclosure	30
S-5	DG Set (2000 KVA)**	HSD 800 L/hr	HSD 800 kg/hr***	HSD 800kg/hr	Acoustic enclosure	30
S-6	DG Set (2000 KVA)**	HSD 800 L/hr	HSD 800 kg/hr	HSD 800kg/hr***	No Change	Acoustic enclosure
S-7	Fire Hydrants Pump Set- 3 Nos.	Electricity / HSD 2 L/day	Electricity / HSD 5 kg/hr	HSD 5 kg/hr****	No Change	Stack
S-8	DG Set (2000 KVA-2 Nos)**	*****Not Mentioned	HSD 800 kg/hr each	HSD 800 kg/hr each	No Change	Acoustic enclosure
S-9	Mini Boiler (0.8 TPH)	*****Not Mentioned	LSHS 60kg/hr	LSHS 60kg/hr	No Change	Stack

- **In the Environmental Clearance (EC), three DG sets one of capacity 250 KVA and two of capacities 1500 KVA each, industry had removed D.G Set of 250 KAV and at actual installed one DG set 1500 KVA and two DG sets of 2000 KVA each. Industry has proposed that the fuel quantity is same as mentioned in the EC. The total SO2 load is proposed to remain same.**
- **The fuel consumption of the fire hydrant pump set in the Environmental Clearance (EC) is specified as 2 liters per day, whereas the Consent to Operate (CTO) mentions consumption of 5 kilograms per hour. To ensure plant safety, a diesel pump of equivalent capacity to the main fire hydrant pump has been installed in the firefighting system. Therefore, the fuel quantity has been amended accordingly in the CTO.**
- **One DG Set (2000 KVA) and Mini Boiler (0.8 TPH) are not mentioned in the EC, as these utilities are designated for the formulation plant and formulation activities which is mentioned in consent. For R & D, capsules and tablets manufacturing activities EC is exempted.**

ii) **Process Emissions Aspects: -**

Sr. No.	Stack Attached to	APC system	Scrubbing media	Stack Height (m)
1	Stack No-7	Acid Scrubber	Caustic + water	25
2	Stack No-8	Acid Scrubber	Caustic + water	25
3	Stack No-9	Acid Scrubber	Caustic + water	25
4	Stack No-10	Acid Scrubber	Caustic + water	25
5	Stack No-11	Acid Scrubber	Caustic + water	25
6	Stack No- 12	Acid Scrubber	Caustic + water	25
7	Stack No -13	Acid Scrubber	Caustic + water	25
8	Stack No- 14	Acid Scrubber	Caustic + water	25
9	Stack No -15	Acid Scrubber	Caustic + water	25
10	Stack No- 16	Acid Scrubber	Caustic + water	25
11	Stack No -17*	Acid Scrubber*	Caustic + water	25

12	Stack No-18	Ammonia Scrubber	water	25
13	Stack No-19	Ammonia Scrubber	water	25
14	Stack No-20	Ammonia Scrubber	water	25
15	Stack No-21	Ammonia Scrubber	water	25
16	Stack No-22	Ammonia Scrubber	water	25
17	Stack No-27	Tablet Section Hood	Not applicable	20

- **Industry has not proposed any changes in the process emissions, industry has requested to remove the parameter bromine from the stack no.17 as it is a Acid scrubber and there is no generation of Bromine from existing process.**

E. Hazardous Waste Aspect: -

Sr. No	Type of Waste	Cat. No.	As Per EC	*As per the CTE formulation	As Per CTO for expansion	Before Change in Product Mix Qty. (Existing)	After Change in Product Mix Qty.	Disposal
1	Used or spent oil/ Waste and process residue containing oil	5.1/5.2	14.245 TPA	2.4 TPA	16.645 TPA	16.645 TPA	16.645 TPA	Sale to authorized recycler/ CHWTSDF
2.	Distillation residues	20.3	5740 TPA	12 TPA	5752 TPA	4388.76 TPA	4510.31 TPA	Co-processor through Authorized Preprocessor/ CHWTSDF

3.	Empty barrels /containers /liners contaminated with hazardous chemicals/ wastes.	33.1	1000 Nos./month	1000 Nos./month	2000 Nos./month	2000 Nos./month	2000 Nos./month	Sale to authorized party
4.	Oil and grease Skimming	35.4	52.5 TPA	0 TPA	52.5 TPA	52.5 TPA	52.5 TPA	Co-processor through Authorized Preprocessor/ CHWTSDF
5.	Spent solvents	20.2	1395 TPA	0 TPA	1395 TPA	1394.9 TPA	1392.4 TPA	Sale to authorized party
6.	Spent catalyst	28.2	403.3 TPA	0 TPA	403.3 TPA	403.3 TPA	348.05 TPA	Sale to authorized party / Co-processor through Authorized Preprocessor/ CHWTSDF
7.	Boiler/D.G. Soot (from furnace oil)	35.1	5.383 TPA	0	0	0	0	Deleted
8.	Spent carbon	28.3	525 TPA	0	Not mentioned**	525 TPA	462.32 TPA	Sale to authorized party / Co-processor

								through Authorized Preprocessor/ CHWTSDF
9.	Ash from incinerator and flue gas cleaning	37.2	-	5.383 TPA	5.383 TPA	5.383 TPA	5.383 TPA	CHWTSDF
10.	Chemical sludge from waste water (ETP sludge)	35.3	1064 TPA	60 TPA	1124 TPA	1124 TPA	1124 TPA	Sale to authorized party / Co-processor through Authorized Preprocessor/ CHWTSDF
11.	Chemical sludge from waste water (MEE Salts)	37.3	12350 TPA	0	12350 TPA	12350 TPA	12350 TPA	Co-processor through Authorized Preprocessor/ CHWTSDF
12.	Date-expired products	28.5	0.2 TPA	998.8TPA	1000 TPA	1000 TPA	1000 TPA	Co-processor through Authorized Preprocessor/ CHWTSDF
13.	Off Specification products	28.4	5 TPA	995 TPA	1000 TPA	1000 TPA	1000 TPA	Co-processor through Authorized

								Preprocessor/ CHWTSDF
14.	Process residue and waste	28.1	5 TPA	1 TPA	6 TPA	6 TPA	6 TPA	Co-processor through Authorized Preprocessor/ CHWTSDF
	Total		**21559.628 TPA and 1000 Nos./ Month**	**1557.2 TPA and 2000 Nos./Month**	**23116.828 TPA and 2000 Nos./Month**	**23641.288 TPA, and 2000 Nos/Month**	**23639.228 TPA, and 2000 Nos/Month**	

- **Industry submitted that the quantity of total hazardous waste mentioned in EC is 21559.628 TPA (which is including spent carbon 525 TPA) but in current CTO it is 23116.828 TPA (excluding spent carbon).**
- **The, difference in total hazardous waste in EC and CTO is 2082.2 TPA is due to combining the hazardous waste generating from non-EC products and including spent carbon 525 TPA.**
- **Industry has submitted after change in product mix total Hazardous waste will decrease by 2.06 TPA.**

Technical Committee Deliberations:

The project proposal was discussed based on presentation made and documents- revised NIPL Certificate dtd. 12.06.2024, NIPL proforma 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. Goldfinch Engineering Systems Private Limited. and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

1) The proposed change in the product mix is proposed by decreasing the production quantity of 01 existing product, addition of 9 new products and deletion of 5 existing products.

2) Industry has proposed the total production quantity of the API products will remain same i.e 1862.83 MT/M after change in product mix.
3) Total process water consumption is proposed to be reduced by – 1.08 CMD after a change in product mix.
4) After a change in product mix the trade effluent is proposed to be reduced by 1.08 CMD.
5) Average COD, BOD and TDS load after change in product mix is proposed to reduce by about 0.002%, 0.003% & 0.33% respectively.
6) The unit is Zero Liquid discharge unit total trade and domestic effluent is recycled to achieve 100% Zero Liquid Discharge (ZLD).
7) In the Environmental Clearance (EC), three DG sets one of capacity 250 KVA and two of capacities 1500 KVA each, industry had removed D.G Set of 250 KAV and at actual installed one DG set 1500 KVA and two DG sets of 2000 KVA each and granted in the existing consent to operate. Industry has proposed that the fuel quantity is same as mentioned in the EC. Therefore, the total SO2 load is proposed to remain same.
8) The fuel consumption of the fire hydrant pump set in the Environmental Clearance (EC) is specified as 2 liters per day, whereas the Consent to Operate (CTO) mentions consumption of 5 kilograms per hour. To ensure plant safety, a diesel pump of equivalent capacity to the main fire hydrant pump has been installed in the firefighting system. Therefore, the fuel quantity has been amended accordingly in the CTO.
9) One DG Set (2000 KVA) and Mini Boiler (0.8 TPH) are existing which are not mentioned in the EC, as these utilities are designated for the formulation plant and formulation activities which are mentioned in consent. For R& D, capsules and tablets manufacturing activities EC is exempted.
10) Industry has not proposed any changes in the process emissions, industry has requested to remove the parameter bromine from the stack no.17 as it is a Acid scrubber and there is no generation of Bromine from existing process.
11) Industry submitted that the quantity of total hazardous waste mentioned in EC is 21559.628 TPA (which is including spent carbon 525 TPA) but in current CTO it is 23116.828 TPA (excluding spent carbon). The, difference in total hazardous waste in EC and CTO is 2082.2 TPA is due to combining the hazardous waste generating from non-EC products and including spent carbon 525 TPA.
12) Industry has submitted after change in product mix total Hazardous waste will decrease by 2.06 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 should not manufacture any other product for which permission is not granted by the MPCB.
3) Industry shall ensure connectivity of OCEMS data to Board server.
4) Industry shall comply with the Boards Circular dtd. 05.02.2020 for use of cleaner fuel.
5) This Consent is issued without prejudice to the order passed as may be passed by the Hon'ble NGT, in the matter O.A. No. 1038/2018.
6) 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.
7) Industry shall achieve TPM-50 mg/NM3 being the unit is in CEPI area and accordingly consent shall be amended for the stringent standards.
8) 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.

Agenda Item No.	Agenda No. 8
Proposal No.	MPCB-CONSENT-0000208827
Project Details	**M/s. Honour Lab Limited.,** Unit 3A, Plot no. D - 10, MIDC Kurkumbh, Taluka - Daund, District - Pune
NIPL Certificate	NIPL Certificate issued by M/s. SGM (Enviro) Pvt. Ltd., Date. 18.06.2024

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000200484 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.

Industry vide email dtd.18.06.2024 requested for grant of the leave of absence for scheduled meeting.

In view of above, as per the request of the project proponent, the Technical Committee decided to consider this proposal in next meeting.

Agenda Item No.	**Agenda No. 9**
Proposal No.	MPCB-CONSENT- 0000209928
Project Details	**M/s. Lupin Limited,** Survey No. 30/10 to 30/13 & 64/7, Plot No. T-142, MIDC Tarapur, Tal & Dist- Palghar -401 506
NIPL Certificate	NIPL Certificate issued by M/s. Goldfinch Engineering Systems Private Limited., No. Nil, Date. 12.06.2024.

Introduction: a

This has reference to the online proposal submitted vide No. MPCB-CONSENT- 0000209928 along with the copies of documents seeking amendment in consent to operate for proposed change in product-mix under the provisions EIA Notification 2006 amended on 23.11.2016 & amended on 02.03.2021. The unit is engaged in manufacturing of bulk drugs.

Existing Environment Clearances (EC):

1. Environmental clearance for expansion was accorded vide No. 2009/153/CR.167/TC.1, Date. 16.11.2010.
2. The renewal of Consent to operate was accorded by the Board vide No. Format1.0/ CAC/ UAN No. MPCB-CONSENT- 0000178467/CR/2404001599 dated 23.04.2024 which is valid up to 30.04.2029.

Project Details: -

A. Products with change in product mix as below:

Sr. No.	Name of the Product	As per EC (TPA)	As per CTO (TPA)	(+)Addition & (-) Deletion (TPA)	Total after CIPM (TPA)
1	Rifa S,Rifa O	404	271.5	-211.5	60
2	Rifampicin		271.5	-90.5	181
3	Rifampicin (from Outsource Rifa S)	-	126	+31	157

4	Rifampicin (from Outsource Sodium Rifamycin-S) Conversion require Hydrolysis	0	0	+106	106
5	Rifaximin	5	20	-15	5
6	Lovastatin	150	10	0	10
7	Simvastatin	72	45	-3	42
8	Sertraline	36	72	0	72
9	Losartan potassium	10	40	+18	58
10	Valsartan	0	1	0	1
11	Duloxetine	8	25	0	25
12	Irbesartan	0	0.5	0	0.5
13	Quetiapine Fumerate	0	60	+20	80
14	Pyrazinamide	225	172	-122	50
15	Levetiracetam	60	464	-5.5	458.5
16	Abacavir (Hydrochloride/ Sulphate)	0	8	0	8
17	Amlodipine Besilate	4	22.5	-0.5	22.0
18	Escitalopram Oxalate	0	0.5	0	0.5
19	Cysteamine Bitartrate	0	20	0	20
20	Tolterodine Tartarate	0.5	0.03	0	0.03
21	Celecoxib	0	18	0	18
22	Ethambutol	10	18	+4	22
23	Fenofibrate/Choline Fenofibrate	15	20	0	20
24	Rifabutin	3	1	0	1
25	Zolpidem Tartarate	1	1.5	0	1.5
26	Imipramine pamoate/Imipramine Hcl	4	0.5	0	0.5
27	Lansoprazole	7	2.5	0	2.5
28	Rabeprazole	0	1	-0.5	0.5

29	Risperidone	0.25	1	0	1
30	Azythromycin	20	2	0	2
31	Gatifloxacin	0	0.02	0	0.02
32	Ziprasidone	3	2	0	2
33	Desloratadine	0.5	1	0	1
34	Memantine	1	1.5	0	1.5
35	Eszopiclone	0.5	0.1	0	0.1
36	Tenofovir	0	6	+1.5	7.5
37	Emtricitabine	0	6.5	+1	7.5
38	Ezetimibe	0	12	0	12
39	R & D batches	5	13	-1	12
40	Ranolazine	0	5	-4	1
41	Armodafinil	0	0.8	0	0.8
42	Capreomycin Sulfate	0	1	0	1
43	Calcium L-5- Methyltetrahydrofolate	0	0.1	0	0.1
44	Rifapentine	0	42	0	42
45	Oseltamivir	0	3	0	3
46	Sodium Rifamycin SV	0	4.5	0	4.5
47	Dalbavancin Intermediate (A-40926)	0	0.2	0	0.2
48	Demeclocycline/DMCTC	0	0.5	0	0.5
49	Tacrolimus	0	0.1	0	0.1
50	Tolvaptan	0	0.075	0	0.075
48	Venlafaxin	18	0	0	0
49	Pentaprazole	6	0	0	0
50	Carvcdiol & Carvediol phosphate	3	0	0	0
51	Quina	0	0	0	0
52	Rami 8	0	0	0	0

53	Levomepromazine Malcate	0	0	0	0
54	Topiramate	15	0	0	0
55	Lamotrigine	10	0	0	0
56	Nabumatone	60	0	0	0
57	Diacereine	3	0	0	0
58	Omeprazole mg	15	0	0	0
59	Sevelamer HCl	45	0	0	0
60	Atorvastain	15	0	0	0
61	Levofloxacine	30	0	0	0
62	Lamivudine	3	0	0	0
63	Clinadamycin	2	0	0	0
64	Esomeprazole	20	0	0	0
65	Sevelmar carbonate	45	0	0	0
66	Pregramblin	20	0	0	0
67	Mesalamine	30	0	0	0
68	Lisinopril	65	0	0	0
Total		**1449.75**	**1522.925**	**-0.5**	**1522.425**

- **The proposed change in the product mix is proposed by Decreasing production capacity of 10 existing product, Increasing production capacity of 6 existing products, Process modification in 1 existing product resulting into increase the production capacity, Keeping the production capacity of 33 existing product same.**
- **Industry has proposed the total production quantity of the API products production quantity will be decreased by 0.5 TPA i.e. from 1522.925 TPA to 1522.425 TPA.**

B. Pollution load Details: -

Water & Wastewater Aspect: -

i) Water consumption aspect and Wastewater aspect before & after proposed change in product mix: -

Particular	Consumption (CMD)			Loss(-)/gain (+) CMD			Effluent (CMD)		
	Existing as per CTO	Proposed reduction after CIPM	Total after CIPM	Existing	Proposed reduction after CIPM	Total after CIPM	Existing	Proposed reduction after CIPM	Total after CIPM
Processing whereby water gets polluted & pollutants are easily biodegradable	877.5	-1.3	876.2	-67.9	0.2	-68.1	809.6	-1.5	808.1
Industrial Cooling, spraying in mine pits or boiler feed	1100	0	1100	-900	0	-900	200	0	200
Total - Trade (only)	**1977.5**	**-1.3**	**1976.2**	**-967.9**	**0.2**	**-968.1**	**1009.6**	**-1.5**	**1008.1**
Gardening	150	0	150	-150	0	-150	0	0	0
Domestic purpose	120	0	120	-25	0	-25	95	0	95
Grand Total	**2247.5**	**-1.3**	**2246.2**	-1142.9	0.2	-1143.1	**1104.6**	**-1.5**	**1103.1**
Grand Total as per CTO	**2247.5**			**-**			**1104.6**		
Grand Total as per EC	**2270**			**-**			**1145.0**		

- After Change in product mix industry has proposed the water consumption & effluent generation will reduce by 1.3 CMD & 1.5 CMD respectively.

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

Existing Effluent characteristic: -		
	(From Process Washing Activity, Cooling Tower , Boiler Blow down & Domestic)	
Flow (CMD)	1104.6 (1009.6 Trade +95 Domestic)	
Parameter	Kg/Day	mg/L
COD	12604.5	11410
BOD	6321.0	5722
TDS	6981.4	6320
After Product Mix Effluent characteristic: -		
	(From Process Washing Activity, Cooling Tower, Boiler Blow down & Domestic)	
Flow (CMD)	**1103.1 (1008.1 Trade + 95 Domestic)**	
Parameter	Kg/Day	mg/L
COD	12597.6	11420
BOD	6313.6	5723
TDS	6880.3	6237

- Average COD, BOD and TDS load after change in product mix is proposed to reduce by about by about 0.055%, 0.126% & 1.45% respectively.

C. Treatment System: -

i) Trade Effluent:

Effluent treatment plant (ETP) of capacity 1200 CMD Comprising of Primary (Equalization Tank cum Neutralization Tank, Flash Mixers, Clariflocculator), secondary (Anaerobic System, Activated Sludge Process) and tertiary advance treatment.(RO plant , MEE With ATFD plant).

Treated effluent from ETP is fed to Advance treatment Reverse Osmosis (Capacity - 1307 CMD), RO Reject is further fed to MEE of 360 CMD capacity followed by ATFD (Capacity - 35 CMD).

RO permeates and MEE/ATFD condensate are 100% recycled for utility purposes to achieve Zero Liquid Discharge (ZLD).

ii) Sewage effluent:

Domestic effluent is commonly treated with trade effluent in the ETP.

iii) Total trade and domestic effluent is recycled to achieve 100% Zero Liquid Discharge (ZLD).

D. Air Emission Aspect: -

i) Flue Gas Emissions: -

Stack No.	Stack Attached to	Fuel Consumption as per EC	Existing Fuel Consumption	Fuel Consumption after CIPM	APC system	Stack Height, m
S-1	Boiler-(12 TPH &10 TPH)	Furnace Oil: 1351 MT/M Agro Waste: 1903 MT/M HSD:157 MT/M	Natural Gas: 1679 SCM/Hr or LSHS: 895 Kg/Hr	No Change	Stack	57
S-2	Boiler-(12 TPH & 12 TPH)		Natural Gas :1832 SCM/Hr	No Change	Stack	31
S-3	Boiler-(10 TPH)		Natural Gas :763 SCM/Hr Or LSHS :407 Kg/Hr	No Change	Stack	45

S-4 to S12	DG Set-(2*2.5 MW, 4*1.2 MW,3*1.6 MW)		HSD:157 MT/M	No Change	Acoustic Enclosure	30 each
S-13 to S-14	Power Generator (2*2.5 MW)		HSD:414 MT/M	No Change	stack	48 each
S-42	Boilers (8 TPH & 8 TPH)	-	Briquette 1903 MT/M	No Change	ESP	35

- Industry has not proposed any changes in the existing utilities and fuel.

ii) Process Emissions Aspects: -

Sr. No.	Stack Attached to	APC system	Stack Height
1	Process Vent (27 Nos)	Scrubber	30 m each

Process Emission Parameters

Sr. No	Parameters	Before change in product-mix	After change in product-mix	MPCB Norms
1	Acid Mist	01-10 Mg/Nm^3	No Change	< 35 Mg/Nm^3
2	HCl	30-35 Mg/Nm^3	No Change	< 35 Mg/Nm^3
3	SO_2	01-30 PPM	No Change	< 50 PPM
4	Ammonia	<1 Mg/Nm^3	No Change	< 50 Mg/Nm^3

E. Hazardous Waste Aspect: -

Sr. No	Type of Waste	Cat. No.	As Per EC	As Per CTO.	After Change in Product Mix Qty.	Disposal
1.	Used/Spent Oil	5.1	0.025 MT/Day	10.8 MT/A	10.8 MT/A	Sale to authorized party / CHWTSDF/re-processors
2.	Waste or residues containing oil	5.2	0.02 MT/Day	7.2 MT/A	7.2 MT/A	Sale to authorized party / CHWTSDF/re-processor
3.	Process Residue and wastes	28.1	3.70 MT/Day	2205.20 MT/A	50.53 MT/A	Coprocessor through MPCB/CPCB Authorized Preprocessor /CHWTSDF
4.	Spent catalyst	28.2	0.367 MT/Day	20.13 MT/A	18.86 MT/A	Sale to authorized party / Coprocessor through MPCB/CPCB Authorized Preprocessor /CHWTSDF/ Back to Manufacture for recycle
5.	Spent carbon	28.3	0.510 MT/Day	225.57 MT/A	231.13 MT/A	Coprocessor through MPCB/CPCB Authorized Preprocessor /CHWTSDF
6.	Off specification products	28.4	As & when generated	720 MT/A	720 MT/A	Coprocessor through MPCB/CPCB Authorized Preprocessor /CHWTSDF
7.	Date-expired products	28.5	As & when generated	720 MT/A	720 MT/A	Coprocessor through MPCB/CPCB Authorized Preprocessor /CHWTSDF

8.	Spent organic solvents	28.6	374.42 MT/Day	85901.32 MT/A	85378.73 MT/A	Sale to authorized party / Coprocessor through MPCB/CPCB Authorized Preprocessor /CHWTSDF/onsite recovery
9.	Spent organic solvent - (Recovered IPA)	28.6	Not Mentioned	116.32 MT/A	142.17 MT/A	Sale to authorized party /Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF-(Recovered IPA)
10.	Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	33.1	As & when generated	4320 MT/A	4320 MT/A	(PPE/Cartridge Filter/Liner Bags)-Sale to authorized party after decontamination / Coprocessor through MPCB/CPCB Authorized Preprocessor /CHWTSDF
11.	Chemical containing residue arising from decontamination	34.1	As & when generated	180 MT/A	180 MT/A	Coprocessor through MPCB/CPCB Authorized Preprocessor /CHWTSDF
12.	Any process or distillation residue	36.1	2.40 MT/Day	932.91 MT/A	918.65 MT/A	Coprocessor through MPCB/CPCB Authorized Preprocessor /CHWTSDF
13.	Concentration or evaporation residue	37.3	4.0 MT/Day	4140 MT/A	4140 MT/A	CHWTSDF (on dry basis)
14.	Process waste- trans sertaline	28.1	Not Mentioned	230.98 MT/A	230.98 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF
15.	Process waste-piperazine di acetate	28.1	Not Mentioned	77.78 MT/A	86.88 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF

16.	Process waste -2Amino 4 Methyl pyridine	28.1	Not Mentioned	4.44 MT/A	1.11 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF
17.	Process waste- tributyl tin chloride	28.1	Not Mentioned	1.34 MT/A	1.34 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF
18.	Process waste-Di methyl Butanoic Acid	28.1	Not Mentioned	41.90 MT/A	39.10 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF
19.	Process waste-R-R Mandelate salt	28.1	Not Mentioned	91.67 MT/A	91.67 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF
20.	Process waste- Immidazole Hydrochloride	28.1	Not Mentioned	33.39 MT/A	31.17 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF
21.	Process waste-Tri Ethyl Amine	28.1	Not Mentioned	87.60 MT/A	81.76 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF
22.	Process waste-Mandelic Acid	28.1	Not Mentioned	38.01 MT/A	38.01 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF
23.	Process waste-Di iso propyl Ethyl Amine	28.1	Not Mentioned	1.68 MT/A	1.68 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF

24.	Process waste-D2 Amino 1Butanol (D2AB)	28.1	Not Mentioned	6.63 MT/A	8.11 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF
25	Process waste- Potassium chloride KCl	28.1	Not Mentioned	Not* Mentioned	2119.10 MT/A	Sale to authorized party Coprocessor through MPCB/CPCB Authorized Preprocessor / CHWTSDF
26	Insulation Waste, discarded PPE, Apron, Shoe cover,	-	Not Mentioned	365 MT/A	365 MT/A	Co-process through MPCB/CPCB authorized Pre-Processor/CHWTSDF
	Total		**138759.12 MT/A**	**100479.87 MT/A**	**99933.98 MT/A**	

- After Change in product mix the Total Hazardous Waste from Process will be reduced by 545.89 MT/A.

Technical Committee Deliberations:

The project proposal was discussed based on presentation made and documents- revised NIPL Certificate dtd. 12.06.2024, NIPL proforma 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. Goldfinch Engineering Systems Private Limited. and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

1) The proposed change in the product mix is proposed by Decreasing production capacity of 10 existing product, increasing production capacity of 6 existing products, Process modification in 1 existing product resulting into increase the production capacity, Keeping the production capacity of 33 existing product same.
2) Industry has proposed the total production quantity of the API products production quantity will be decreased by 0.5 TPA i.e. from 1522.925 TPA to 1522.425 TPA.
3) After Change in product mix industry has proposed the water consumption & effluent generation will reduce by 1.3 CMD & 1.5 CMD respectively.

4) Average COD, BOD and TDS load after change in product mix is proposed to reduce by about by about 0.055%, 0.126% & 1.45% respectively.
5) Industry is recycling the total treated trade and domestic effluent to achieve Zero Liquid Discharge.
6) After Change in product mix the total Hazardous Waste from Process will be reduced by 545.89 MT/A.

Technical Committee Decision:

Technical Committee decided to recommend the case for change in product mix based on "No Increase in Pollution Load" as per the provision of EIA notification 2006 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 should not manufacture any other product for which permission is not granted by the MPCB.
3) Industry shall ensure connectivity of OCEMS data to Board server.
4) Industry shall comply with the Boards Circular dtd. 05.02.2020 for use of cleaner fuel.
5) This Consent is issued without prejudice to the order passed as may be passed by the Hon'ble NGT, in the matter O.A. No. 1038/2018.
6) 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.
7) Industry shall achieve TPM-50 mg/NM3 being the unit is in CEPI area and accordingly consent shall be amended for the stringent standards.

Agenda Item No.	**Agenda No. 10**
Proposal No.	MPCB-CONSENT- 0000184725
Project Details	**M/s. Sun Pharmaceuticals Industries Limited.,** Plot No. A-7/8, MIDC Area, Ahmednagar, Dist.- Ahmednagar
NIPL Certificate	Revised NIPL Certificate issued by M/s. Shrikrishna Environment Consultants Pvt. Ltd., No. Nil, Date. 20.06.2024.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT- 0000184725 along with the copies of documents seeking amendment in consent to operate for proposed change in product-mix under the provisions EIA Notification 2006 amended on 23.11.2016 & amended on 02.03.2021. The unit is engaged in manufacturing of bulk drugs.

Existing Environment Clearances (EC):

1. Environmental clearance for expansion was accorded State Environment Impact Assessment Authority vide letter no. SEIAA-EC-0000002185 dated 13.03.2020.
2. The Consent to operate was accorded by the Board vide No. Format 1.0/CAC/ UAN No.0000108455/CR-2107000991 dated 16.07.2021 which is valid up to 30.04.2026 for mfg. of 123 nos. of products with total production capacity 13,48,490.5 Kg/A

Project Details: -

A. Products with change in product mix as below:

Sr. No.	Name of product	EC Quantities Kg/A	Consent Quantity Kg/A	Proposed Changes Kg/A	Proposed Quantities after NIPL Kg/A
1	Atorvastatin Calcium	250	250	-200	50

2	bupropion Hydrochloride	10000	10000	+5000	15000
3	Clonazepam	2000	2000	+3000	5000
4	Dobutamine Hydrochloride	1050	1050	0	1050
5	Finasteride	100	100	0	100
6	Flurbiprofen Sodium	26	26	0	26
7	Fluvoxamine Maleate	8342	8342	+ 6658	15000
8	Gabapentin	120000	120000	- 70000	50000
9	Ganirelix Acetate	1	1	0	1
10	Gemcitabine Hydrochloride	700	700	+ 1300	2000
11	Irinotecan Hydrochloride	60	60	+ 240	300
12	Leuprolide Acetate	10	10	+ 40	50
13	Meloxicam	6000	6000	+ 4000	10000
14	Memamtine Hydrochloride	500	500	+ 1500	2000
15	Mesalamine	60000	60000	+ 40000	100000
16	Metoprolol Succinate	15000	15000	+ 135000	150000
17	Metoprolol Tartrate	122321	122321	+ 77679	200000
18	Pantaprazol Sodium	2000	2000	0	2000
19	Phenteramine Hydrochloride	1000	1000	0	1000
20	Sodium Valproate	1500	1500	0	1500
21	Temozolamide	400	400	+ 100	500
22	Terlipressin Acetate	2	2	+ 0.5	2.5
23	Tramadol Hydrochloride	120000	120000	+ 80000	200000
24	Venalafaxine Hydrochloride	10000	10000	+ 20000	30000
25	Anastrazole	30	30	+ 20	50
26	Capecetabin	4000	4000	+ 46000	50000
27	Carboplatine	400	400	+ 1600	2000
28	Cisplatin	200	200	+ 300	500
29	Clopidogrel Bisulphate	8000	8000	- 6000	2000
30	Desloratidine	2000	2000	0	2000
31	Desmopressin Acetate	1	1	0	1
32	Donepezil Hydrochloride	300	300	+ 200	500
33	Dothiepin Hydrochloride	6000	6000	+ 4000	10000
34	Epitifibatide	1	1	0	1

35	Flurbiprofen	6000	6000	+ 44000	50000
36	Imatinib Mysilate	1500	1500	+ 3000	3000
37	Lercanidipine Hyrdochloride	600	600	0	600
38	Letrozole	300	300	+ 700	1000
39	Metformine Hydrochloride	650000	650000	- 500000	150000
40	Octreotide Acetate	5	5	+ 15	20
41	Olanzapine	150	150	+ 850	1000
42	Oxaliplatin	30	30	+ 170	200
43	Quetiapine Fumarate	15000	15000	+ 25000	40000
44	Rivastigmine Tartrate	70	70	0	70
45	Tetrabenazine	500	500	+ 1500	2000
46	Zoledronic Acid	1	1	+ 4	5
47	Acitretin	60	60	+ 90	150
48	Atosiban acetate	5	5	+ 20	25
49	Aadapalene	15	15	0	15
50	Bicalutamide	600	600	+ 4400	5000
51	Bortezomib	1	1	+ 1	3
52	Bendamustine HCl	2	2	0	2
53	Calcitonin	1	1	0	1
54	Cetrorelix Acetate	1	1	0	1
55	Chlorothiazide	60	60	+ 140	200
56	Decitabine	20	20	0	20
57	Desvenlafaxine Fumarate	320	320	0	320
58	Divalproex Sodium	120000	120000	+ 30000	150000
59	Eszoplicone	20	20	+ 480	500
60	Exenatide	1	1	0	1
61	Ibandeonic aicd monosodium monohydrate	300	300	+ 700	1000
62	Lansoprazole	700	700	0	700
63	Lenalidomide	10	10	+ 490	500
64	Naratriptan Hydrochloride	5	5	0	5
65	Olopatadine	10	10	0	10
66	Paliperidone Palmitate	30	30	+ 470	500

67	Pemetrexed disodium heptahydrate	200	200	+ 800	1000
68	Pramlinitide Acetate	10	10	0	10
69	Pregabline	5000	5000	- 3000	2000
70	Risedronate sodium hemipentahydrate	50	50	+ 150	200
71	Tazarotene	2	2	0	2
72	Tenatoprazole	10	10	0	10
73	Teriparatide	1	1	0	1
74	Fulvestrant	15	15	+ 85	100
75	Febuxostat	750	750	+ 1250	2000
76	Omeprazole	3000	3000	+ 2700	5700
77	Afatinib	500	500	+ 500	1000
78	Arterolane	1000	1000	- 500	500
79	Azacitidine	500	500	+ 500	1000
80	Erlotinib	1	1	+ 24	25
81	Linaclotide	1	1	0	1
82	Liraglutide	50	50	0	50
83	Lurasidone	1500	1500	+ 1500	3000
84	Bivalirudin	20	20	0	20
85	Carfilzomib	1	1	- 4	5
86	Fingolimod	10	10	+ 20	30
87	Pentetreotide	1	1	0	1
88	Prasugrel	500	500	0	500
89	Clofarabine	5	5	0	5
90	Dabigatran	1500	1500	- 1000	500
91	Dasatinib	750	750	0	750
92	Glatiramer	2	2	0	2
93	Ibrutinib	1500	1500	- 500	1000
94	Icatibant	2	2	0	2
95	Nilotinib	400	400	+ 1600	2000
96	Nintedanib	200	200	+ 1800	2000
97	Palbociclib	500	500	0	500
98	Pamidronic Acid	80	80	0	80
99	Pazopanib	400	400	0	400

100	Sunitinib	100	100	+ 50	150
101	Tadalafil	500	500	+ 1500	2000
102	Venetoclax	100	100	+ 300	400
103	Abaloparatide	0.5	0.5	0	0.5
104	Abiraterone Acetate	500	500	+ 5500	6000
105	Acalabrutinib	100	100	+ 100	200
106	Alectinib	250	250	0	250
107	Angiotensin	0.5	0.5	+ 1.5	2
108	Betiatide	0.5	0.5	0	0.5
109	Bosutinib	100	100	+ 500	600
110	Carbozantinib	50	50	+ 150	200
111	Enzalutamide	300	300	0	300
112	Etelcalcetide.HCl	0.5	0.5	0	0.5
113	Ixazomib	40	40	- 35	5
114	Lanreotide	5	5	+ 20	25
115	Lenvatinib	10	10	+ 10	20
116	Linagliptin	30	30	0	30
117	Plecanatide	0.5	0.5	0	0.5
118	Ribociclib	50	50	0	50
119	Saxagliptin	200	200	0	200
120	Semaglutide	0.5	0.5	+ 1.5	2
121	Sincalide	0.5	0.5	+ 0.5	1
122	Valproic Acid	5000	5000	+ 25000	30000
123	R & D Products	24180	24180		24180
Total		**13,48,490.5**	**13,48,490.5**		**13,48,490.5**

- **Industry has proposed a change in product mix in its existing facility by interchanging the production quantities within the consented and environmental clearance products.**
- **Industry has proposed changes in existing products by increasing the quantities of 66 products, reducing the quantities of 9 products and no change in 44 products.**
- **The total production quantity after change in product mix is proposed to remain same i.e 13,48,490.5 Kg/A.**

B. Pollution load Details: -

Water & Wastewater Aspect: -

ii) Water consumption aspect before & after proposed change in product mix: -

Purpose	Existing Water Consumption (KLD)	Water Consumption Break Up after change in product mix (KLD)	Proposed Additional Water Consumption
Industrial Cooling	275.0	275.0	NO Change
Process Water	125.0	124.47	Decreases by (0.53 KLD)
Domestic Purpose	43.0	43.0	NO Change
Gardening	140.0	140.0	NO Change
Other	0	0	0
Total	**583.0**	**582.47**	**Decreases by (0.53 KLD)**

- **After Change in product mix industry has proposed the water consumption will reduce by 0.53 CMD.**

iii) Waste water (Trade and Domestic effluent) aspect before & after proposed change in product mix: -

Purpose	Existing Effluent Generation (KLD)	Effluent Generation Break Up after change in product mix (KLD)	Proposed changes
Trade Effluent	99.5	99.0	Reduced by 0.5 CMD

(Industrial Process and Cooling Tower & Thermopack)	17.5	17.5	No Change
Total Trade Effluent	**117.0**	**116.5**	Reduced by 0.5 CMD
Domestic Effluent	32.0	32.0	No change
Total	**149.0**	**148.5**	Reduced by 0.5 CMD

- **After change in product mix industry has proposed reduction in the trade effluent generation by 0.5 CMD.**

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

Existing Effluent Characteristics		
(From Process Washing Activity, Cooling Tower, Boiler Blow down & Domestic)		
Flow	**149.0 (117.0 Trade +32 Domestic)**	
Parameter	**Kg/day**	**Mg/L**
COD	78.54	71.09
BOD	39.35	35.53
TDS	4240.1	3838.14
After Product Mix Effluent characteristic: -		
(From Process Washing Activity, Cooling Tower, Boiler Blow down & Domestic)		
Flow	**148.5 (116.5 Trade +32 Domestic)**	

Parameter	Kg/day	Mg/L
COD	75.6	68.43
BOD	38.27	34.28
TDS	4021.38	3640.15

- **Average COD, BOD and TDS load after change in product mix is proposed to reduce by about by about 3.8%, 2.75% & 5.16% respectively.**

C. Treatment System: -

Trade Effluent:

Industry has segregated trade effluent into strong & weak stream and provided separate treatment system as below.

Strong Stream: High COD/TDS stream effluent 46.5 CMD is treated in treatment system comprising of Primary, followed by Stripper, Multi Effect Evaporator and ATFD. The MEE condensate is treated with weak stream in Effluent Treatment Plant.

Weak Stream: Low COD/TDS stream 70 CMD is treated in 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) and Advanced treatment (Reverse osmosis), RO permeate is reused in plant and reject is sent to MEE.

Sewage effluent:

Domestic effluent 32 CMD is treated separately in STP having capacity 40 CMD.

Total trade effluent is recycled to achieve 100% Zero Liquid Discharge (ZLD).

D. Air Emission Aspect: -

i) Flue Gas Emissions: -

Stack No.	Stack Attached to	Fuel Consumption as per EC	Existing Fuel quantity	Fuel Consumption after CIPM	APC system	Stack Height, m
S-1	15 TPH Boiler	Briquette	40 TPD	Briquette (No Change)	Cyclone Separator /High Efficiency deduster followed by Bag Filter	30
S-2	12 TPH Boiler	Briquette	40 TPD	Briquette (No Change)		
S-3	5 TPH Boiler	FO	8 TPD	LDO (Change)	stack	36
S-4	8 TPH Boiler	FO	8 TPD	LDO (Change)	stack	40
S-5 to 8	DG set 1010 KVA x 4 Nos	HSD	646.76 kg/hr	HSD (No Change)	Acrostic Enclosure Followed by Stack	13
S-9	DG set 750 KVA	HSD	150 kg/hr	HSD (No Change)		11
S-10& 11	DG set 1510 KVA x 2 nos	HSD	537.76 kg/hr	HSD (No Change)		12
S-12 to 29	Process Vents (S-12 to S-29)	-	-	-	Catch Pot, Packed column with Caustic solution spray	30 each

- **Industry has not proposed any changes in the existing utilities and only fuel for 2 boiler (5 & 8 TPH) is changed from Furnace Oil to LDO.**

ii) **Process Emissions Aspects: -**

Sr. No.	Stack Attached to	APC system	Stack Height
1	Process Vent (27 Nos)	Scrubber	30 m each

Process Emission Parameters

Sr. No	Parameters	Before change in product-mix	After change in product-mix	MPCB Norms
1	Acid Mist	01-10 Mg/Nm^3	No Change	< 35 Mg/Nm^3
2	HCl	30-35 Mg/Nm^3	No Change	< 35 Mg/Nm^3
3	SO_2	01-30 PPM	No Change	< 50 PPM
4	Ammonia	<1 Mg/Nm^3	No Change	< 50 Mg/Nm^3

- **Industry has not proposed any changes in the process emissions due to proposed change in product mix.**

E. Hazardous Waste Aspect: -

Sr. No.	Type of Waste	Category No.	As per EC	AS per CTO	After Product Mix	Remark	/Disposal
1	Used or spent oil	5.1	6 MT/A	6 MT/A	6 MT/A	No Change	Sale to Authorized Party/Recycler/ CHWTSDF

2	Spent Solvent	28.6	8748 MT/A	8748 MT/A	8748 MT/A	No Change	Sale to Authorized Party/Recycler/CHWTSDF
3	Chemical Containing residue arising from decontaminatio n	34.1	32.9 KL/A	32.9 KL/A	32.9 KL/A	No Change	CHWTSDF
4	Chemical Sludge from wastewater treatment	35.3	240 MT/A	240 MT/A	240 MT/A	No Change	CHWTSDF
5	Spent Catalyst	28.2	32.9 MT/A	75 MT/A	5 MT/A	Reduced by 27.9 MT/A	Sale to Authorized Party/Recycler/ CHWTSDF
6	Spent Carbon		42.1 MT/A	0 MT/A	70 MT/A	Added by 27.9 MT/A	Sale to Authorized Party/Recycler/ CHWTSDF
7	Empty Barrel	33.1	75 MT/A	75 MT/A	75 MT/A	No Change	Sale to Authorized Party/Recycler/CHWTSDF
8	Spent Carbon from ETP	-	17 MT/A	17 MT/A	17 MT/A	No Change	Sale to Authorized Party/Recycler/CHWTSDF

9	Process residue and waste	28.1	112 MT/A	112 MT/A	112 MT/A	No Change	Sale to Authorized Party/Recycler/CHWTSDF
10	Spent ion exchange resin containing toxic metals	35.2	1 MT/A	1 MT/A	1 MT/A	No Change	CHWTSDF
11	Concentration or evaporation residue	37.3	1545 MT/A	1545 MT/A	1545 MT/A	No Change	CHWTSDF
12	Oil and Grease skimming	35.4	2 MT/A	2 MT/A	2 MT/A	No Change	CHWTSDF
13	Spent carbon or filter medium	36.2	3 MT/A	3 MT/A	3 MT/A	No Change	CHWTSDF
14	Process waste residue and sludge	21.1	2 MT/A	2 MT/A	2 MT/A	No Change	CHWTSDF
15	Exhaust Air or gas cleaning residue	35.1	5 MT/A	5 MT/A	5 MT/A	No Change	CHWTSDF
16	Distillation residue	20.3	42 MT/A	75 MT/A	42 MT/A	No Change	Sale to Authorized Party/Recycler/CHWTSDF
17	Off-specification or Discarded Products	28.4/28.5	10 MT/A	8 MT/A	8 MT/A	Reduce by 2 MT/A	CHWTSDF

	Total	**10,915.9** MT/A	**10,946.9** MT/A	**10,913.9** MT/A	Reduce by 2 MT/A	

- **After Change in product mix the Total Hazardous Waste from Process will be reduced by 2.0 MT/A.**

Technical Committee Deliberations:

The project proposal was discussed based on presentation made and documents- revised NIPL Certificate dtd.12.06.2024, NIPL proforma 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. Shrikrishna Environment Consultants 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 in its existing facility by interchanging the production quantities within the consented and environmental clearance products.
2) Industry has proposed changes in existing products by increasing the quantities of 66 products, reducing the quantities of 9 products and no change in 44 products.
3) The total production quantity after change in product mix is proposed to remain same i.e 13,48,490.5 Kg/A.
4) After Change in product mix industry has proposed the water consumption will reduce by 0.53 CMD.
5) After a change in product mix industry has proposed reduction in the trade effluent generation by 0.5 CMD.
6) Average COD, BOD and TDS load after change in product mix is proposed to reduce by about by about 3.8%, 2.75% & 5.16% respectively.
7) The unit is a Zero Liquid Discharge unit. Total trade effluent is recycled to achieve 100% Zero Liquid Discharge (ZLD).
8) Industry has not proposed any changes in the existing utilities and only fuel for 2 boiler (5 & 8 TPH) is changed from Furnace Oil to LDO.
9) Industry has not proposed any changes in the process emissions due to proposed change in product mix.
10) The Total Hazardous Waste from Process is proposed to reduce by 2.0 MT/A after Change in product mix.

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 should not manufacture any other product for which permission is not granted by the MPCB.
3) Industry shall ensure connectivity of OCEMS data to Board server.
4) Industry shall comply with the Boards Circular dtd. 05.02.2020 for use of cleaner fuel.

Agenda Item No.	**Agenda No. 11**
Proposal No.	**MPCB-CONSENT- 0000209365**
Project Details	**M/s. DRT- Anthea Aroma Chemicals Private Limited., (Unit-II)** Plot No. 51-A/1 Roth Budrukh, Dhatav MIDC , Tal- Roha , Dist – Raigad.
NIPL Certificate	NIPL certificate issued by M/s. Goldfinch Engineering Systems Private Limited., No. Nil, Date. 05.06.2024

Introduction: -

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000209365 along with the copies of documents seeking renewal of consent with amendment in Consent to Operate for change in product mix under the provisions of EIA Notification 2006 amended on 23.11.2016 & amended on 02.03.2021. The existing unit is engaged in manufacturing Aromatic Chemicals.

Existing Environment Clearances (EC): -

1. Environmental Clerance has been accorded by Environment Dept. Govt. of Maharashtra vide No. EC-2008/11/CR.1 dated 30.01.2010 for a total production capacity of 700 TPM i.e. 8400 TPA.
2. Consent to Operate accorded by the Board vide No. Format 1.0/ CAC/ UAN No. 0000006908/CR/2402000001 dated 05.02.2024 valid upto 28.02.2024 with a total capacity of products 700 TPM i.e., 8400 TPA.

Project Details: -

A. Products with change in product mix as below: -

Sr. No.	Name of Product	As per EC, TPA	Existing Production as per CTO, TPA	Addition (+)/ Deletion (-), TPA	After Proposed Product Mix, TPA
1	Anthamber	3600	3600	0.0	3600

2	Methyl Pentenone	2400	2400	-1200	1200
3	Dihydromyrcenol	2400	2400	+1200	3600
4	Anthamber Terpenes, Mix Terpenes, Methyl Pentenone HF, Dihydromyrcenol Terpenes, Anthamber HB Terpenes, Dihydromyrcenol HB Terpenes	0	0	3000	3000
Total		**8400**	**8400**	**3000**	**11400**

- **Industry has proposed to decrease the production capacity of 1 existing product, no change in 1 existing product, addition of 1 new group product (5 New products).**
- **After Change in product mix the total production capacity of the plant will increase by 3000 TPA i.e. from 8400 TPA to 11400 TPA.**

B. Pollution load Details: -

Water & Wastewater Aspect: -

i) Water consumption aspect before & after proposed change in product mix: -

Propose	As Per EC, CMD	As Per CTO, CMD	(+) Increase / (-) Decrease, CMD	After change in product mix, CMD
Process	350	60	-0.33	59.67
Industrial cooling, spraying in mine pits or boiler feed		250	0	250
Total Trade		**310**	**-0.33**	**309.67**
Domestic		**20**	**0**	**20**

Gardening		20	0	20
Grand Total	350	350	-0.33	349.67

- Total process water consumption is proposed to be reduced by 0.33 CMD after change in product mix.

ii) Waste Water aspect before & after proposed change in product mix: -

Propose	As Per EC, CMD	Existing As Per CTO, CMD	(+) Increase / (-) Decrease, CMD	Effluent Generation after proposed change in product mix, CMD	Mode of Disposal & Ultimate Receiving Body
Process	60	60	-0.2	59.8	CETP
Boiler feed					
Cooling Tower					
Total Industrial	60	60	0.2	59.8	
Domestic	18	18	0	18	
Gardening	0	0	0	0	
Grand Total	78	78	0.2	77.8	

- Industry has proposed a decrease the trade effluent by 0.2 CMD after a change in product mix.

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

Existing effluent load: - (From Process, Cooling Tower & Boiler Blow downs and domestic)		
Flow (CMD)	78 (60 Trade effluent+18 Domestic effluent)	
Parameter	Kg/Day	mg/L

COD	3771.19	48348
BOD	1922.08	24642
TDS	16461.17	211040
Proposed effluent load after change in Product Mix: - (From Process, Cooling Tower & Boiler Blow downs and domestic)		
Flow (CMD)	**77.8 (59.8 Trade effluent + 18 Domestic effluent)**	
Parameter	**Kg/Day**	**mg/L**
COD	3715.27	47828
BOD	1920.4	24722
TDS	14835.59	190983

- **After the proposed change in product mix the COD, BOD & TDS values of effluent are proposed to be reduced by 1.4%, 0.08% and 9.8% respectively.**

C. Treatment System: -

i) Trade Effluent:

Industry has provided Effluent Treatment Plant, primarily treated trade effluent from plant is treated in Stripper, MEE followed by Pusher centrifuge & ATFD. Condensate from MEE/ATFD along with domestic sewage is fed to Secondary (Bio reactor), followed by Tertiary (Pressure sand filter & Activated carbon filter) followed by RO. Tertiary treated wastewater to the maximum extent is used in the plant and remaining is discharged to CETP.

ii) Sewage effluent:

Primary treated sewage is connected to the secondary of the Effluent Treatment Plant for further treatment and disposal.

D. Air Emission Aspect: -

i) Flue Gas Parameters: -

Stack No.	Stack Attached to	As Per EC, Fuel Consumption	Existing as Per valid CTO and Amendment application	Fuel Consumption after Change in Product Mix	APC system	Stack Height	SO2 Generation
S-1	Steam Boiler (2 x 4 TPH)	Not mentioned	LSHS – 250kg/hr	No change	Stack	30 m	540 Kg/Day
S-2	Thermic fluid heater (2 X 15 kcal/hr)	Not mentioned	LSHS – 200kg/hr	No change	Stack	30 m	432 Kg/Day
S-3	Steam Boiler (4 TPH)+Thermic fluid heater (15 Lakh kcal/hr)	Not mentioned	LSHS – 250kg/hr	No change	Stack	30 m	540 Kg/Day
S-4	D.G. Set (1250 KVA)	Diesel – 250 litre/hr	Diesel – 340kg/hr	No Change	Acoustic Enclosure	20 m	163 Kg/Day
S-5	D.G. Set (1250 KVA)	Not mentioned	Diesel – 340kg/hr	No Change	Acoustic Enclosure	20m	163 Kg/Day

- **Industry has not proposed any change in existing utilities and fuel pattern, therefore there will no change in source emission load and will remain same after change in product mix.**

E. Hazardous Waste Aspect: -

Sr. No	Type of Waste	Cat. No.	As Per EC,	Existing as per valid CTO and Amendment application*, TPA	After a Change in product mix, TPA	Disposal
1	Used or Spent oil	5.1	50 kg/M	2.4 TPA	2.4 TPA	Sale to authorized party / CHWTSDF
2	Spent Carbon	28.3	Not mentioned	12	12*	Sale to authorized party / CHWTSDF
3	Glass wool	-	Not mentioned	12	12*	CHWTSDF
4	Chemical sludge from wastewater treatment	35.3	300 kg/day	2400	5916	Sale to Sale to authorized party / CHWTSDF
	Concentration & Evaporation Residue	37.3	-	3516		
5	Empty barrels / containers /liners contaminated with hazardous chemicals/ wastes	33.1	Not mentioned	1200 Nos/A	1200 Nos/A*	Sale to Authorized Party / Recycle/ CHWTSDF
6	Contaminated cotton rags or other cleaning materials	33.2	Not mentioned	6	6	Sale to authorized party / CHWTSDF

7	Byproduct Tops and High Boilers from the distillation operations of Anthamber, Dihydromyrcenol and methyl pentanone	-	Not mentioned	2040	0	Sale to authorized party / CHWTSDF
8	Byproduct 35 % Phosphoric Acid	-	Not mentioned	1920	1920	Sale to authorized party / CHWTSDF
9	Distillation residue	20.3	Not mentioned	-	12	Sale to authorized party / CHWTSDF
Total			**50 kg/M and 300 kg/day**	**9908.4 TPA and, 1200 Nos/A**	**7880.4 TPA and 1200 Nos/A**	

- **The total Hazardous Waste is increasing with respect to the quantities as per the Environmental Clerance and existing consent to operate, industry has submitted that Hazardous wastes are not mentioned/less quantities are mentioned in the current valid consent to operate which was valid upto 28.02.2024. Now, hazardous waste quantities are taken as per the renewal application of CTO submitted on 07.02.2024, which are corrected values w.r.t current consent valid up to 28.02.2024.**

Technical Committee Deliberations:

The project proposal was discussed based on presentation made and documents- NIPL Certificate, NIPL proforma and Revised 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. Goldfinch Engineering Systems Private Limited., No. Nil, Date. 05.06.2024 and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

1) Industry has proposed to decrease the production capacity of 1 existing products, no change in 1 existing product, addition of 1 new group product (5 New products).

2) After Change in product mix the total production capacity of the plant will increase by 3000 TPA i.e. from 8400 TPA to 11400 TPA.
3) Total process water consumption is proposed to be reduced by 0.33 CMD after change in product mix.
4) Industry has proposed a decrease in the trade effluent by 0.2 CMD after a change in product mix.
5) Industry has provided Effluent Treatment Plant comprising primary, secondary and tertiary treatment system. Primarily treated trade effluent from plant is treated in Stripper, MEE followed by Pusher centrifuge & ATFD. Condensate from MEE/ATFD along with domestic sewage is fed to Secondary (Bio reactor), followed by Tertiary (Pressure sand filter & Activated carbon filter) followed by RO. Tertiary treated wastewater to the maximum extent is used in the plant and remaining is discharged to CETP.
6) After the proposed change in product mix the COD, BOD & TDS values of effluent are proposed to be reduced by 1.4%, 0.08% and 9.8% respectively.
7) Industry has not proposed any change in existing utilities and fuel pattern, therefore there will no change in source emission load and will remain same after change in product mix.
8) The total Hazardous Waste is increasing with respect to the quantities as per the Environmental Clerance and existing consent to operate, industry has submitted that Hazardous wastes are not mentioned/less quantities were mentioned in the current valid consent to operate which was valid upto 28.02.2024. Now, hazardous waste quantities are taken as per the renewal application of CTO submitted on 07.02.2024, which are corrected values w.r.t current consent valid up to 28.02.2024.
9) The committee also noted that the prior Environmental Clerance was accorded to the PP by Environment Department, Govt. of Maharashtra vide letter No. EC-2008/11/CR.1, Dated. 30.01.2010 under category 'B'. Now as per the MoEF & CC draft Notification S.O. 3072 (E), date. 06.07.2022 the said area falls under Eco Sensitive Zone and the Category of the said activity will now change from category ' B ' to Category 'A' project.
10) However as per the MoEF & CC Notification dated. 02.03.2021 with respect to " No Increase in Pollution Load" for increase in production capacity without having to go through entire Environmental Clerance process again as long as there is no increase in Pollution load, has clarified that " Provided further that the provision of this clause (increase in production capacity without increase in pollution load) shall not be applicable if such change or increase results in change in category of project or activity from Category 'B2' to either Category 'A' or Category 'B1'.

Technical Committee Decision:

The Technical Committee noted that as per the MoEF & CC draft Notification S.O 3072 (E), date. 06.07.2022 the said area falls under the Eco Sensitive Zone and the Category of the said activity will now change from Category 'B' to Category 'A' project and as per MoEF & CC Notification dated. 02.03.2021 provision of the clause (increase in production capacity without increase in Pollution Load) shall not be applicable if such change or increase results in change in category of project or activity from Category 'B2' to either Category 'A' or Category 'B1'.

In view of this 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 said area falls under Eco Sensitive Zone as per the 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 liberty that PP may pursue in this regard with MoEF & CC / SEIAA.

Agenda Item No.	**Agenda No. 12**
Proposal No.	**MPCB-CONSENT- 0000211714**
Project Details	**M/s. DRT- Anthea Aroma Chemicals Private Limited., (Unit-I)** Plot No.: 49, 50, 51A, MIDC Dhatav, Tal. Roha, Dist. Raigad.
NIPL Certificate	NIPL certificate issued by M/s. Goldfinch Engineering Systems Private Limited., No. Nil, Date. 04.05.2024

Introduction: -

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000211714 along with the copies of documents seeking Amendment in Consent to Operate for change in product mix under the provisions of EIA Notification 2006 amended on 23.11.2016 & amended on 02.03.2021. The existing unit is engaged in manufacturing Aromatic Chemicals.

Existing Environment Clearances (EC): -

1. Environmental Clerance for Expansion has been accorded by Environment Dept. Govt. of Maharashtra vide No. SEAC-2012/CR- 184/TC-2 Dated. 08.04.2015 for total production capacity of 1505 TPM i.e. 18060 TPA.
2. Consent to Operate accorded by the Board vide Consent no.- Format 1.0/ CAC/ UAN No. 0000091847/CO-2009000497 dated 09.09.2020 which is valid up to 31.01.2025.

Project Details: -

A. Products with change in product mix as below: -

Sr. No.	Product Name	As per EC, TPA	Existing Production as per CTO, TPA	Addition (+)/ Deletion (-), TPA	After Proposed Product Mix, TPA
1	Anthamber	3900	3900	0.0	3900

2	Terpene Alcohols And Esters such as Dihydromyrcenol, Geraniol, Nerol, Linalool, Geranyl Acetate, Linalyl Acetate	3820	3820	0.0	3820
	Neryl Acetate	0	0	3820	
3	Methyl Pentenone	3120	3120	0	3120
	Boisamber	0	0	3120	
4	Myrcene	7200	7200	-2400	4800
	Dihydromyrcene				
5	Dihydromyrcenol			-4800	2400
6	Anthamber Terpenes, Mix Terpenes, Methyl Pentenone HF, Dihydromyrcenol Terpenes, Anthamber HB Terpenes, Dihydromyrcenol HB Terpenes, Geraniol Terpenes, Nerol Terpenes, Linalool Terpenes, Geraniol HB Terpenes, Nerol HB Terpenes, Linalool HB Terpenes, Boisamber C12TLF, Boisamber C12 HF	0	0	6000	6000
Total		**18060**	**18060**	**6000**	**24060**

- **Industry has proposed change in product mix by Addition of one new product in the existing Group 2 i.e., Neryl Acetate and Group 3 i.e., Boisamber keeping total production capacity of Group same. Splitting of Gr. 4. (consists of 3 products) having capacity 7200 TPA into two parts. One part is consisting of two products (4800 TPA) and one part is consists of one product (2400 TPA) and addition of one new group (14 products).**
- **Industry has proposed to increase the total production quantity from the existing quantity 18060 TPA to 24060 TPA, after change in product mix.**

B. Pollution load Details: -

Water & Wastewater Aspect: -

i) Water consumption aspect before & after proposed change in product mix: -

Propose	As Per EC, CMD	As Per CTO, CMD	(+) Increase / (-) Decrease of quantity	After change in product mix, CMD
Process	112.5	188.5	-0.26	188.24
Washing	6			
Boiler Feed	70	345	0	345
Cooling Tower	345			
Total Trade water Consumption	**533.5**	**533.5**	**-0.26**	**533.24**
Domestic	27.5	27.5	0	27.5
Gardening	20	20	0	20
Grand Total	**581**	**581**	**-0.26**	**580.74**

- **Total process water consumption is proposed to be reduced by 0.26 CMD after change in product mix.**

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

Propose	As Per EC, CMD	Existing As Per CTO, CMD	(+) Increase / (-) Decrease in quantity	Effluent Generation after proposed change in product mix, CMD	Mode of Disposal & Ultimate Receiving Body
Process	129.06	129.06	-0.43	128.63	Recycle for Secondary/ Utility purposes to the
Boiler feed					
Cooling Tower					

Total Industrial effluent	129.06	129.06	-0.43	128.63	maximum extent and discharge remaining into CETP
Domestic Effluent	22	22	0	22	
Gardening	0	0	0	0	
Grand Total	151.06	151.06	-0.43	150.63	

- **Industry has proposed a decrease in the trade effluent quantity by 0.43 CMD after a change in product mix.**

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

Existing effluent characteristic: -		
	(From Process, Cooling Tower & Boiler Blow downs)	
Flow (CMD)	**129.06**	
Parameter	**Kg/Day**	**mg/L**
COD	9664.6	74885
BOD	4710.4	36498
TDS	25711.7	199223
Effluent characteristic After change in product mix: -		
	(From Process, Cooling Tower & Boiler Blow downs)	
Flow (CMD)	**128.63**	
Parameter	**Kg/Day**	**mg/L**
COD	9630.86	74874
BOD	4693.87	36492
TDS	22809.34	177329

- **After the proposed change in product mix the COD, BOD & TDS load of effluent are proposed to be reduced by 0.34%, 0.35% & 11.28% respectively.**

C. Treatment System: -

i) Trade Effluent:

Industry has provided Effluent Treatment Plant. The total effluent is primarily treated and further taken to Stripper, MEE followed by ATFD. Condensate from MEE/ATFD is fed to Secondary (Bio reactor), followed by Tertiary (Pressure sand filter & Activated carbon filter) and Tertiary treated wastewater is discharged to CETP.

ii) Sewage effluent:

Industry has provided Sewage Treatment Plant of capacity 30 CMD for the treatment of Domestic Effluent.

D. Air Emission Aspect: -

i) Flue Gas Parameters: -

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	Boiler (3x 4 TPH- 1 Standby)	Fused oil -64 TPD and Coal- 91 TPD	F.O 64 TPD*	LSHS 64 TPD*	Stack	46 m
S-2	Thermic Fluid Heater (3 x 15 L kcal/Hr- 1 Standby)				Stack	46 m
S-3	D.G. Set (1700 KVA)	HSD- 350 Ltr/Hr	HSD- 350 Ltr/Hr	HSD- 350 Ltr/Hr	Acoustic Enclosure/ Stack	28 m
S-4	D.G. Set (1700 KVA)	HSD- 350 Ltr/Hr	HSD- 350 Ltr/Hr	HSD- 350 Ltr/Hr	Acoustic Enclosure/ Stack	28 m

- **Industry has already switched the fuel from FO to LSHS.**
- **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	Scrubbing Media	Stack Height
1	Process Vent *	Scrubber	Alkaline/Water	6.4 m
2	Process Vent*	Scrubber	Alkaline/Water	6.4 m

- **Industry has submitted that in current consent to operate they have missed to mention two process vent but at actual there two process vents at the plant and PP have already applied for amendment for inclusion of these two process stacks.**

E. Hazardous Waste Aspect: -

Sr. No	Type of Waste	Cat. No.	As Per EC, TPA	Existing as Per valid CTO and Amendment application dated 30.05.2024, TPA	After a Change in product mix, TPA	Disposal
1	Used or Spent oil	5.1	1.2	1.2	1.2	Sale to authorized party / recycler/ reprocessor/ CHWTSDF
2	Distillation Residue	20.3	12	12	33.4	Sale to authorized party / recycler/ reprocessor/ CHWTSDF

3	Contaminated cotton rags or other cleaning materials	33.2	0	6**	6	Sale to authorized party / CHWTSDF
4	Spent Carbon/filter medium	36.2	0	4.2**	4.2	Sale to authorized party / CHWTSDF
5	Other Hazardous waste (Glass Wool)	-	0	6**	6	Sale to authorized party / CHWTSDF
6	Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	33.1	0	1200 Nos. /Y**	1200 Nos. /Y	Sale to authorized party / CHWTSDF
7	Tops and High Boilers from the distillation operations of Anthamber, Methyl Pentenone and Terpene Alcohols*	-	5280	5280	0	Sale to Authorized Party / CHWTSDF
8	Acetic Acid and phosphoric Acid from reaction operations	-	0	0	5219.04	Sale to Authorized Party / CHWTSDF
9	35% Sulphuric Acid OR*	-	5520	5520	0	Sale to authorized party / CHWTSDF
	35 % Ammonium Sulphate *OR	-	8160	8160	0	Sale to authorized party / CHWTSDF
	Calcium Sulphate*	-	3180	3180	11820	Sale to authorized party / CHWTSDF

10	Concentration and Evaporation residue	37.3	0	9264**		Sale to authorized party / CHWTSDF
11	Chemical waste from Waste water	35.3	420	420		
Total			**13873.2**	**23153.4 and 1200 Nos./ Y**	**17089.84 and 1200 Nos./ Y**	

- **The total Hazardous waste including the claimed by-products is more than the quantities than environmental clearance and existing consent to operate.**
- **The industry has submitted that they have upgraded existing ETP by installing MEE, stripper and RO voluntarily to improve the treatment of effluent. Due to this upgradation of ETP, additional hazardous waste i.e., concentration and evaporation residue is being generated.**
- **Also, the industry submitted that they have missed incorporating spent carbon and empty barrels in valid Consent to operate. Hence, they have applied for amendment in CTO (UAN no. MPCB-CONSENT-0000013688) dated 30.05.2024 for 9264 TPA 37.3 concentration and evaporation residue, 6 TPA of 33.2 contaminated cotton rags or other cleaning materials, 6 TPA of other hazardous waste (Glass Wool), 4.2 TPA of 36.2 spent carbon and 1200 Nos. /Y 33.1 Empty barrels/containers/liners contaminated with hazardous chemicals/wastes.**

Technical Committee Deliberations:

The project proposal was discussed based on presentation made and documents- NIPL Certificate, NIPL proforma and Revised 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. Goldfinch Engineering Systems Private Limited., No. Nil, Date. 04.05.2024 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 one new product in the existing Group 2 i.e., Neryl Acetate and Group 3 i.e., Boisamber keeping total production capacity of Group same. Splitting of Gr. 4. (consists of 3 products) having capacity 7200 TPA into two parts. One part is consisting of two products (4800 TPA) and one part is consists of one product (2400 TPA) and addition of one new group (14 products).
2) Industry has proposed to increase the total production quantity from the existing quantity 18060 TPA to 24060 TPA, after a change in product mix.
3) Total process water consumption is proposed to be reduced by 0.26 CMD after change in product mix.
4) Industry has proposed a decrease in the trade effluent quantity by 0.43 CMD after a change in product mix.
5) After the proposed change in product mix the COD, BOD & TDS load of effluent are proposed to be reduced by 0.34%, 0.35% & 11.28% respectively.
6) Industry has already switched the fuel from FO to LSHS.
7) There is no change in the steam requirements. The fuel consumption of the boiler for the changed production profile will remain same.
8) Industry has submitted that in current consent to operate they have missed to mention two process vent but at actual there two process vents at the plant and PP have already applied for amendment for inclusion of these two process stacks.
9) The total Hazardous waste including the claimed by-products is more than the quantities than environmental clearance and existing consent to operate.
10) The industry has submitted that they have upgraded existing ETP by installing MEE, stripper and RO voluntarily to improve the treatment of effluent. Due to this upgradation of ETP, additional hazardous waste i.e., concentration and evaporation residue is being generated.
11) Also, the industry submitted that they have missed incorporating spent carbon and empty barrels in valid Consent to operate. Hence, they have applied for amendment in CTO (UAN no. MPCB-CONSENT-0000013688) dated 30.05.2024 for 9264 TPA 37.3 concentration and evaporation residue, 6 TPA of 33.2 contaminated cotton rags or other cleaning materials, 6 TPA of other hazardous waste (Glass Wool), 4.2 TPA of 36.2 spent carbon and 1200 Nos. /Y 33.1 Empty barrels/containers/liners contaminated with hazardous chemicals/wastes.
12) The committee also noted that the prior Environmental Clerance was accorded to the PP by Environment Department, Govt. of Maharashtra vide letter SEAC-2012/CR- 184/TC-2 Dated. 08.04.2015 under category 'B'.

Now as per the MoEF & CC draft Notification S.O. 3072 (E), date. 06.07.2022 the said area falls under Eco Sensitive Zone and the Category of the said activity will now change from category 'B ' to Category 'A' project.

13) However as per the MoEF & CC Notification dated. 02.03.2021 with respect to " No Increase in Pollution Load" for increase in production capacity without having to go through entire Environmental Clerance process again as long as there is no increase in Pollution load, has clarified that " Provided further that the provision of this clause (increase in production capacity without increase in pollution load) shall not be applicable if such change or increase results in change in category of project or activity from Category 'B2' to either Category 'A' or Category 'B1'.

Technical Committee Decision: -

The Technical Committee noted that as per the MoEF & CC draft Notification S.O 3072 (E), date. 06.07.2022 the said area falls under the Eco Sensitive Zone and the Category of the said activity will now change from Category 'B' to Category 'A' project and as per MoEF & CC Notification dated. 02.03.2021 provision of the clause (increase in production capacity without increase in Pollution Load) shall not be applicable if such change or increase results in change in category of project or activity from Category 'B2' to either Category 'A' or Category 'B1'.

In view of this 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 said area falls under Eco Sensitive Zone as per the 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 liberty that PP may pursue in this regard with MoEF & CC / SEIAA.