MAHARASHTRA POLLUTION CONTROL BOARD

Minutes of 5th meeting of Technical Committee (2018-19) for assessment of application of under change in product-mix held on 17/1/2019 at 11.30 pm at Kalpataru Point, 3rd Floor, Sion.

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The Technical Committee meeting for assessment of application of under change in product-mix of the Board was held on 04/9/2018. The following members of the Technical Committee were present for the meeting:

1. Shri P.K.Mirashe, Assistant Secretary (Tech), MPCB — Chairman
2. Dr B.R.Naidu, Zonal Officer, CPCB, Vadodara — Member
3. Shri A. M. Pimpalkar, Scientist -1, Environment Dept, GoM — Member
4. Shri N.N.Gurav, Regional Officer, HQ, MPCB — Member convener

Shri Anurag Garg, Associate Prof. IIT, Mumbai, Dr. Tuhin Banerjee, Scientist Fellow, NEERI, Mumbai and Dr. Prakash P. Wadgaonkar, Chief Scientist, NCL, Pune could not attend the meeting. Leave of absence was granted to them.

The Chairman of the Committee welcomed the Committee members and the minutes of the 4th meeting of the Technical Committee (2018-19) were confirmed. Two agenda items were placed before the meeting. Committee deliberated on the agenda items and following decisions were taken.

Sr. No.	Name of Industry	Recommendations
1	Privi Organics India Limited (Unit-I) Plot No. A-7, MIDC Mahad, Raigad MPCB-CONSENT-0000045117	PP gave presentation on amendment in existing consent for change in product-mix. After interaction with the PP, it was noted that, 1. Environmental Clearance granted to the unit by SEAC (SEAC-2013/CR-242/TC-2) on 08/10/2015 for the production of Various aroma chemicals with total capacity after expansion is 599.9 TPM. 2. PP has valid consent to operate from the Board dated 23.02.2016 valid till 31.08.2020 for 599.9 TPM various aroma chemicals. 3. **PP submitted proposal for:** **Reduction of production quantity of** a. Citronellol from 10 TPM to 5 TPM

Sr. No.	Name of Industry	Recommendations
		b. Geranyl nitrile from 0.5 TPM to 0 c. Ionone's from 1 TPM to 0 d. Gamma methyl Ionone (GMI) from 1 TPM to 0.5 TPM e. Normal Methyl Ionone (NMI) from 1 TPM to 0.5 TPM f. Alpha Ionone (AI) from 2 TPM to 1 TPM g. Beta Ionone (BI) (Beta Ionone technical /PG) from 2 TPM to 1 TPM h. Amber Gamma from to 50 TPM to 0 i. Myrcene 90 / Myrcene Supra from 50 TPM to 33 TPM j. Citral extra pure from 30 TPM to 20 TPM **Addition / increase of production quantity** a. Citronellol acetate 0.4 TPM to 0.5 TPM b. Amber Fluer 400 TPM to 440 TPM c. Amber gamma 0 to 25 TPM d. Cedarketol 0 to 5 TPM e. Indian sandal core 9 TPM to 25 TPM The overall production quantity after product mix will be 599.5 MT/M as against existing production quantity 599.9 MT/M. The overall by- product quantity will reduce from 1287.96 TPM to 920.35 TPM. 4. PP has submitted pollution load details as below. a. Water requirement reduced from 88.84 CMD to 87.63 TPM after proposed product mix. b. Effluent load reduced from 83.8 CMD to 82.65 CMD after proposed product mix. c. Organic load reduced from 703.72 kg/ day to 597.04 kg/ day. TDS load reduced from 560.98 kg/ day to 535.91 kg/ day. d. There will be no change Air emissions quantity after product mix. e. There will be no change existing Hazardous waste quantity after product mix. 5. PP has received NIPL certificate from Institute of Chemical Technology dated 14th December 2018. Finally, after due deliberations, it was decided to recommend the case for change in product under product mix with a condition to dispose the by-product as Hazardous Waste and shall comply the provision of HW Rules for sale/disposal of by-products.

Sr. No.	Name of Industry	Recommendations
2	Privi Organics India Limited-Unit-III Plot No. A-3, MIDC Mahad, Raigad MPCB-CONSENT-0000045150	PP gave presentation on amendment in existing consent for change in product-mix. After interaction with the PP, it was noted that, 1. Environmental Clearance granted to the unit by SEAC (SEAC-2013/CR-256/TC-2) on 08/10/2015 for the production of- Various aroma chemicals (products) 1160 TPM 2. PP has valid consent to operate from the Board dated 23.02.2016 valid till 30.09.2020 for 1160 TPM various aroma chemicals. 3. **PP submitted proposal for:** **Reduction of production quantity of** a. A- Terpinyl Acetate & it's derivatives from 100 TPM to 60 TPM b. Terpene- Phenol based resin like TPR- A, TPR- B, TPR- C, TPR- M, TPR- MS etc from 150 TPM to 10 TPM c. Terpene (Poly Terpene) based resin like PTR- A, PTR - B, PTR - C, PTR - M, PTR - MS etc from 150 TPM to 10 TPM d. P- Cymene from 100 TPM to 40 TPM e. Camphene from 250 TPM to 200 TPM f. Isobornyl acetate (IBA) from 100 TPM to 75 TPM **Increase of production quantity** a. Terpineol & its derivatives like Pine oil varieties from 200 TPM to 650 TPM The overall production quantity after product mix will be 1160 MT/M as per existing consent to operate. The overall By product quantity will reduce from 4672.79 TPM to 3895.77 TPM. 4. PP has submitted pollution load details as below. a. Water requirement reduced from 153.86 CMD to 150.03 TPM after proposed product mix. b. Effluent load reduced from 110.3 CMD to 108.55 CMD after proposed product mix. c. Organic load reduced from 1015.8 kg/ day to 959.6 kg/ day. TDS load reduced from 2529 kg/ day to 1402.4 kg/ day. d. There will be no change Air emissions quantity after product mix.

Sr. No.	Name of Industry	Recommendations
		e. There will be no change existing Hazardous waste quantity after product mix. 5. PP has received NIPL certificate from Institute of Chemical Technology dated 14th December 2018. Finally, after due deliberations, it was decided to recommend the case for change in product under product mix with a condition to dispose the by-product as Hazardous Waste and shall comply the provision of HW Rules for sale/disposal of by-products.
3	**Galaxy Laboratories Pvt. Ltd.** Plot No. B-10 MIDC Newasa industrial area At Post. Tukai – Shingve, Dist- Ahmednagar MPCB-CONSENT-0000054197	PP gave presentation on amendment in existing consent for change in product-mix. After interaction with the PP, it was noted that, 1. Environmental Clearance granted to the unit vide No. SEIAA-EC-0000000048 dated 24/04/2017 2. Consent to Operate granted by Board vide No. Format 1.0/AST/RO-NK/2018/E/CC-1803000825 dated 15/3/2018 which is valid upto 31/3/2023 3. **PP submitted proposal for:** a. **Reduction of production quantity of** Triclabendazole (Crude) – 8.4 MT/M to 5.0 MT/M, Polly Allylamine Hydrochloride (PAAH)-13.5 MT/M to 3.0 MT/M, Chlorohexanon e (6-Chloro-2- Hexanone)- 20.0 MT/M to 5.0 MT/M b. **Retained product:** Hydrogen-250 nm3/hr, Furfuraldehyde (Fufural)-50 MT/M, Furfuryl Amine- 40 MT/M, Cyclohexenyl Ethyl Amine (CHEA)- 10 MT/M, 5-Chloro-4- Amino-2,1,3 Benzothidiazole- 2.0 MT/M Betaphenyl Ethyl Amine (BPEA)- 20 MT/M c. **Addition of new products-** Cis Pinene-100 MT/M and Citronellal- 13.9 MT/M d. **Removal of** Furfuryl Alcohol- 30 MT/M, 2-Furoic Acid-5.0 MT/M, Furan- 50.0 MT/M e. The overall production after product mix will be 248.9 MT/M as against existing production quantity 248.9 MT/M f. The By-products quantity will be Spent Acid- 42.5 MT/M (existing-42.5 MT/M), Sodium hydrosulphide Solution- 9.3 MT/M (existing- 15.6 MT/M), Potassium bromide Salt solution- 46.4 (existing-185.5 MT/M) 4. Effluent generation before product mix is 14 CMD and after product mix it will be 12 CMD. Organic Load before product mix is 171.5 Kg/day and after product mix is 170.9 Kg/day. Net reduction in hydraulic load by 2.0 CMD and organic load 0.6 Kg/day Trade effluent generated will be treated in existing Effluent Treatment Plant. 5. Steam requirement before product mix is 2.6 MT/Hr and after product mix it will be 2.4 MT/Hr

<table>
<tr><th>Sr. No.</th><th>Name of Industry</th><th>Recommendations</th></tr>
<tr><td></td><td></td><td>6. Hazardous Waste generation as below:
<table><tr><th>Category</th><th>Quantity Before product mix</th><th>After product mix</th></tr><tr><td>20.3 Distillation Residue</td><td>300 MT/A</td><td>215 MT/A</td></tr><tr><td>28.1 Residue and Waste (Iron sludge)</td><td>45 MT/A</td><td>45 MT/A</td></tr><tr><td>28.2 Spent Catalyst</td><td>225 MT/A</td><td>51 MT/A</td></tr><tr><td>28.3 Spent Charcol</td><td>40 MT/A</td><td>32 MT/A</td></tr><tr><td>35.3 ETP Sludge</td><td>30 MT/A</td><td>30 MT/A</td></tr><tr><td>33.1 Discarded containers</td><td>500 Nos/A</td><td>500 Nos/A</td></tr></table>Considering the above, it was noted that, there is no increase in pollution load i.e effluent quantity, air emissions and hazardous waste.

Finally, after due deliberations, it was decided to recommend the case for change in product under product mix with a condition to dispose the by-product as Hazardous Waste and shall comply the provision of HW Rules for sale/disposal of by-products.</td></tr>
<tr><td>5</td><td>Astec Lifesciences Ltd K-2/1/1 Additional MIDC, Mahad, Raigad

MPCB-CONSENT-0000057334</td><td>PP gave presentation on amendment in existing consent for change in product-mix. After interaction with the PP, it was noted that,

1. Environmental Clearance granted to the unit vide No. J-11011/111/2011-IA II(I) dated 22/3/2013
2. Consent to Operate granted by Board vide No. Format 1.0/BO/AST/UAN No. 0000030501/ O/CC-1710000135 dated 07/10/2017
3. PP submitted proposal for:
a. Reduction of production quantity of Dichlorophenyl oxirane– 25 MT/M to 18 MT/M, 3 - Aminotriazole-25 MT/M to 20 MT/M, Siduron- 33.5 MT/M to 20.0 MT/M, 2-Ethyl 2-methyl butanoic acid- 35.0 MT/M to 25.0 MT/M, Metalaxyl- 22.0 MT/M to 20.0 MT/M and Simeconazole- 21.0 MT/M to 20.0 MT/M
b. Retained product: Cyproconazole- 20.0 MT/M, , Imazethapyr (IMZPR) – 35.0 MT/M, DTX, Dextrinol- 5.0 MT/M, Transfluthrin- 25.0 MT/M
c. Addition of new products- Tebuconzole- 120 MT/M, Propiconzole-120 MT/M, Imibenconazole- 10 MT/M, Difenoconazole-40 MT/M and 2-(2,4-diflurophenyl)-1-(1H-1,2,4 triazol-1-yl)-3-(trimethylsilyl) propanol- 5.0 MT/M</td></tr>
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Sr. No.	Name of Industry	Recommendations
		d. **Removal of** 2,4-Dichlorophenoxy acetic acid dimethyl amine (2,4-D DMA salt)- 436 MT/M, 4-Chlorostyrene- 25 MT/M and Imazapyr (IMPR)- 25 MT/M e. The overall production after product mix will be 503 MT/M as against existing production quantity 732.5 MT/M f. The By-products quantity will be Inorganic Salt (K/Na/Zn of Sulphate, Chloride, Bromide, Phosphate)- 146 MT/M (existing- 149.6 MT/M), Magnesium Salt (Sulphate, Chloride, Carbonate) Sodium hydrosulphide Solution- 142.5 MT/M (existing- 144.4 MT/M), Aliphatic Hydrocarbon-20 (existing-20 MT/M) and Hydrochloric acid 6.0 MT/M (existing- 6.0 MT/M) 4. Effluent generation before product mix is 137 CMD and after product mix it will be 110 CMD. Organic Load before product mix is 2466 Kg/Day and after product mix is 1538.4 Kg/Day. Trade effluent generated will be treated in existing Effluent Treatment Plant as below: a. **Domestic Effluent:** Septic Tank followed by Sewage Treatment Plant and treated effluent used on land for gardening **b. Trade Effluent:** **Process Effluent:** Neutralization, stripping column, Evaporator and recycle in the process **Boiler/Cooling Tower blow down:** Baccomber System, Psychometric Evaporator, Evaporator and recycle in the process. Industry is achieving Zero Liquid Discharge. 5. Existing Boiler and DG sets will be utilized after product mix. Industry proposed to install Thermopack (15 Lakh Kcal) with dust collection system & stack of 30.0 mtr. However, there will not be additional fuel required. Existing Coal requirement is 22 MT/Day which will be remain same. a. Flue Gas emission from Boiler before product mix is 259 mg/Nm3 and after product mix it will be 250 mg/Nm3 b. Process emission (Acidic fumes from process) before product mix is 59 mg/Nm3 and after product mix it will be 40-60 mg/Nm3 6. There will not be change in Hazardous Waste quantity.

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Finally, after due deliberations, it was decided to recommend the case for change in product under product mix with a condition to dispose the by-product as Hazardous Waste and shall comply the provision of HW Rules for sale/disposal of by-products</td></tr>
<tr><td>6</td><td>Inventys Research Company Private Limited K-38,Five Star Industrial Area, MIDC,Butibori (opp.to Dinshaws icecream , Nr. Jonson lifts), Nagpur

MPCB-CONSENT-0000057146</td><td>PP gave presentation on amendment in existing consent for change in product-mix. After interaction with the PP, it was noted that,
1. Environmental Clearance granted to the unit vide No. SEAC-2013/CR-395/TC-2 dated 09/03/2016
2. Consent to Operate granted by Board vide No. Format 1.0/BO/CAC-Cell/UAN No.14513/4TH CAC/1711000857 dated 24/11/2017 which is valid upto 31/7/2020
3. PP submitted proposal for List of Products with change in product mix:

As per EC condition proponent will manufacture at any time 10 nos. of products.

List of Products (Existing with Change in Product Mix and Proposed Additional New Products)
Existing Products: -
<table>
<tr><th>Sr. No.</th><th>Name of product</th><th>Existing Qty MTA</th><th>Existing Qty MTM</th><th>Increased Qty MTA</th><th>Decreased Qty MTA</th><th>Total Qty MTA</th><th>Total Qty MTM</th><th></th></tr>
<tr><td>1</td><td>Divalproex Sodium</td><td>150</td><td>13</td><td>--</td><td>--</td><td>150</td><td>13</td><td>As per existing CTO</td></tr>
<tr><td>2</td><td>4 - Amino salicylic acid</td><td>245</td><td>20</td><td>155</td><td>--</td><td>400</td><td>33</td><td>Increased by (155 MTA)</td></tr>
<tr><td>3</td><td>Lidocaine</td><td>125</td><td>10</td><td>--</td><td>--</td><td>125</td><td>10</td><td>As per existing CTO</td></tr>
<tr><td>4</td><td>Benzethonium Chloride</td><td>100</td><td>8</td><td>--</td><td>---</td><td>100</td><td>8</td><td>As per existing CTO</td></tr>
<tr><td>5</td><td>s Methyl Phenyl Glycine Methyl Ester</td><td>1080</td><td>90</td><td>--</td><td>580</td><td>500</td><td>42</td><td>Decreased by (580 MTA)</td></tr>
<tr><td>6</td><td>Acetonitrile</td><td>6000</td><td>500</td><td>--</td><td>4260</td><td>1740</td><td>145</td><td>Decreased by (4260 MTA)</td></tr>
<tr><td>7</td><td>2-Cyanophenol</td><td>650</td><td>54</td><td>--</td><td>400</td><td>250</td><td>21</td><td>Decreased by (400 MTA)</td></tr>
</table></td></tr>
</table>

Sr. No.	Name of Industry	Recommendations								
		8	**4-Cyanophenol**	**650**	**54**	**--**	**400**	**250**	**21**	**Decreased by (400 MTA)**
		9	Cyclopentanone	50	4	--	--	50	4	As per existing CTO
		10	Fexofenadine HCl	240	20	--	--	240	20	As per existing CTO
		11	1,3 dibromo-5- methyl-5- phenyl Hydantoin	300	25	--	--	300	25	As per existing CTO
		12	1,3 Dichloro-5- methyl-5- phenyl Hydantoin	300	25	--	--	300	25	As per existing CTO
		13	**1,3 di-iodo-5- phenyl-5-methyl Hydantoin**	**450**	38	**--**	**300**	**150**	**13**	**Decreased by (300 MTA)**
		14	Quetiapine fumarate	160	13	--	--	160	13	As per existing CTO
		15	Malononitrile	330	28	--	---	330	28	As per existing CTO
		16	Pregabalin	125	10	--	---	125	10	As per existing CTO
		17	Pramipexole	80	7	--	---	80	7	As per existing CTO
		18	Tamsulosin HCl	120	10	--	---	120	10	As per existing CTO
		19	**5 Methyl 5 Phenyl Imidazolidine 2,4-dione(rMPID)**	**1140**	**95**	**--**	**390**	**750**	**63**	**Decreased by (390 MTA)**
		20	Phthalonitrile	1000	83	--	---	1000	83	As per existing CTO
		21	Piperazine	400	33	--	---	400	33	As per existing CTO
		22	Clopidogrel HCl	185	15	--	---	185	15	As per existing CTO
		23	7-Chloroquinaldine (7-Chloroquinaldehyde)	200	17	--	--	200	17	As per existing CTO
		24	(1 Methyl Pyrazole)	280	23	--	--	280	23	As per existing CTO
		25	Venlafaxine Hydrochloride (Venlafaxine)	120	10	--	---	120	10	As per existing CTO
		26	**2-Chloro-4,6-Dimethoxy-1,3,5-Triazine**	**450**	**38**	**--**	**300**	**150**	13	**Decreased by (300 MTA)**
		27	2-Amino-4-chloro-6-methoxypyrimidine	250	20	--	--	**250**	21	As per existing CTO
		28	**Alendronate Sodium**	**50**	**4**	--	10	40	3	**Decreased by (10 MTA)**

Sr. No.	Name of Industry	Recommendations

	TOTAL	15230	1269	155	6640	8745	729	

Proposed Additional New Products: -

Sr. No.	Name of product	Existing Qty MTA	Proposed Qty MTA	Total Qty MTA	Total Qty MTM	Remarks
1	Sucrose octakis(hyrogen sulfate) aluminum complex	--	300	300	25	Proposed Product
2	6-Chloro-2-hexanone	--	900	900	75	Proposed Product
3	3-(prop-2-en-1-yloxy)-1-benzothiazole 1,1-dioxide	--	1000	1000	83	Proposed Product
4	3-chloroaniline	--	200	200	17	Proposed Product
5	2-(3,4-Dimethyl-1-H-pyrazol-1-yl)butanedioic acid	--	1000	1000	83	Proposed Product
6	3-ethyl-4-methyl-1,5-dihydro-2-h-pyrrol-2-one	--	20	20	2	Proposed Product
7	2-Amino-5-chlorobenzoic acid	--	50	50	4	Proposed Product
8	1-Chloro-2-phenoxybenzene	--	300	300	25	Proposed Product
9	Decanenitrile	--	400	400	33	Proposed Product
10	2-propylpentanoic acid	--	100	100	8	Proposed Product
11	Sodium 2-propylpentanoate	--	100	100	8	Proposed Product
12	1-Chloro-2-methoxynaphthalene	--	200	200	17	Proposed Product
13	1-(isoprylamino)-3-(1-naphthyloxy)-2-propanol hydrochloride	--	15	15	1	Proposed Product
14	2-Isopropyl-6-methyl-4-pyrimidinol	--	100	100	8	Proposed Product
15	5-Phenyl-1,2-oxazol-3-ol	--	100	100	8	Proposed Product
16	2-Bromo-6-methoxynaphthalene	--	200	200	17	Proposed Product
17	2-Phenylidole	--	10	10	1	Proposed Product
18	5-tert-butyl-m-xylene	--	100	100	8	Proposed Product
19	4-Methoxy-6-methyl-1,3,5-triazin-2-amine	--	50	50	4	Proposed Product
20	2-Chlorothiophene-5-carboxylic acid	--	50	50	4	Proposed Product
21	Sulfasalazine (2-hydroxy-5-{(E)-[4-(pyridin-2-lsulfamoyl)phenyl]diazenyl}benzoic acid)	--	50	50	4	Proposed Product
22	3,4-dimethylpyrozole	--	300	300	25	Proposed Product
23	Isoxathion (O,O-diethyl O-(5-phenyl-1,2-oxazol-3-yl) phosphorothioate)	--	100	100	8	Proposed Product
24	5-[4'-(Bromomethyl)-1,1'-biphenyl-2-yl]-1-triphenylmethyl-1-H-Tetraz ole]	--	300	300	25	Proposed Product
25	3 (Trifluoromethyl) pyrazine-2-carboxylate	--	10	10	1	Proposed Product
26	3-(trifluoromethyl)aniline	--	10	10	1	Proposed Product
27	2,3,4,5 Tetrafluorobenzoic Acid	--	10	10	1	Proposed Product
28	2,4,5-Trifluoro-3-methoxybenzyoyl chloride	--	10	10	1	Proposed Product

Sr. No.	Name of Industry	Recommendations

29	DihydroxyDiphenyl Ether (4,4-Oxydiphenol)	--	10	10	1	Proposed Product
30	2,7-Dihydroxy naphthalene	--	10	10	1	Proposed Product
31	Pyromellitic Dianhydride (PMDA) (1H,3H-furo[3,4-f][2]benzofuran-1,3,5,7tetrone)	--	10	10	1	Proposed Product
32	5-fluoro-4-hydrazinyl-2-methoxypyrimidine	--	100	100	8	Proposed Product
33	2-Hydrazine-4-MethoxyBenzoThiazole	--	10	10	1	Proposed Product
34	Benfotiamine	--	10	10	1	Proposed Product
35	5-(4-(4-(5-cyano-1H-indol-3-yl) butyl) piperazin-1-yl) benzofuran-2-carboxamide Hydrochloride	--	10	10	1	Proposed Product
36	4,4'-Oxydiphthalic anhydride	--	100	100	8	Proposed Product
37	Diethyl Chlorothiophosphate	--	40	40	4	Proposed Product
38	Isobutyronitrile	--	200	200	17	Proposed Product
	TOTAL	--	6485	6485	540	

Total Quantity (Existing+ proposed products) = (8745+6485) =15230 MTA
= (729+540) = 1269 MTM

PP presented pollution load based on "Top Ten products (Existing and proposed)" based on maximum pollution load. Some discrepancies in totaling were observed by the committee. More clarification was asked by the committee on material balance particularly of 1 Methyl Pyrazole with explanation for zero organic content. PP explained that since organic content is in 4th digit, it was not seen in table. Hence, Committee directed to submit the corrected pollution load sheet.

4. PP submitted pollution load including COD & BOD values of all products (Existing & proposed).

   Effluent generation before product mix is 159 CMD and after product mix it will be 157 CMD. Organic Load before product mix in terms of COD and BOD are 361 & 193 Kg/day respectively and after product mix in terms of COD and BOD are 353 & 189 Kg/day respectively. Net reduction in hydraulic load by 2.0 CMD and organic load in terms of COD and BOD are 8 & 4 Kg/day respectively.

   Trade effluent generated will be treated in existing Effluent Treatment Plant.

5. Steam requirement before product mix and after product mix remains same.

6. Hazardous Waste generation as below:

Sr. No.	Name of Industry	Recommendations

Haz. Waste quantities were not in CTO which is valid but PP has applied in application for change in product mix. PP clarified that they missed to mention haz. Waste while applying for CTO earlier. Although, CTO was taken for various products PP manufactured only one product in which there is no generation of haz. waste. Haz. Waste was only from ETP, which PP disposed to CHWTSDF regularly. It was well within quantities mentioned in EC. In application for change in product mix PP has applied for haz. waste considering change in product mix and correcting earlier mistake on haz. waste. Applied haz. waste quantities are well within EC limits.

Sr. No.	Type of Waste	Category (As per Schedule)	Generation per Year (No change)			Mode of Treatmen & Disposal
			As per EC	Existing	After Change in Product Mix	
1	Used/Spent Oil	5.1	--	40 Lit/M	-	CHWTSDF
2	**Chemical Sludge from waste water treatment**	**34.3**	40 MT/A	**17 Kg/ Day**	**12 MT/A**	**CHWTSDF**
3	**By-Product-Ammonium Sulphate from 5 Methyl 5 Phenyl Imidazolidine 2,4 dione**	**----**		**60 MT/M (720 MT/A)**	**600 MT/A**	**CHWTSDF/Sale to authorized recycler/party**
4	**MEE Solids (Sodium Sulphate from s Methyl Phenyl Glycine Methyl Ester)**	**34.3**	3000 MT/A	**48 MT/M (576 MT/A)**	**324 MT/A**	**CHWTSDF/Sale to authorized recycler/party**
5	**Discarded containers/ Barrels/Liners**	**33.3**	24000 Nos/A	**400 Kg/A**	**7200 Nos./A**	**CHWTSDF**
6	E-waste	----		As and when generated	-	CHWTSDF/Sale to authorized recycler/party
7	**Residue & Wastes**	**28.1**	240 MT/A	--	**72 MT/A**	**Incinerator/CHWTSDF**
8	**Spent Organic solvent**	**20.2**	60 MT/A	-	**18 MT/A**	**Incinerator/ CHWTSDF**
9	**Spent catalyst**	**35.2**	5 MT/A	-	**1.5 MT/A**	**Authorized recycler/CHWTSDF**
10	**Spent Carbon (from ETP)**	**35.3**	270 MT/A	-	**81 MT/A**	**Incinerator/CHWTSDF**
11	**Bio Sludge**	**34.3**	10 MT/A	--	**3 MT/A**	**CHWTSDF**
12	**Filter & Filter Material**	**35.1**	1 MT/A	--	**0.3 MT/A**	**CHWTSDF**

Sr. No.	Name of Industry	Recommendations
		Considering the above, it was noted that, there is no increase in pollution load i.e effluent quantity, air emissions and hazardous waste. Finally, after due deliberations, it was decided to recommend the case for change in product under product mix with a condition: 1. PP Shall submit the corrected pollution load calculation sheet 2. PP should submit ETP- PFD with propoer clarification in TDS 3. Dispose the by-product as Hazardous Waste and shall comply the provision of HW Rules for sale/disposal of by-products 4. EC has stipulated a condition of manufacturing 10 products at a time. In addition to EC condition, Committee suggested industry, to cap monthly production as well for better monitoring
7	EXCEL INDUSTRIES LIMITED D-9, MIDC Area Lote Parshuram.Tal- Khed, Dist-Ratnagiri MPCB-CONSENT-0000052110	PP gave presentation on amendment in existing consent for change in product-mix. After interaction with the PP, it was noted that, the the production quantity as per Environmental Clearance, Consent to Operate granted by Board and proposed product mix not matching. On prima-faces it was noticed that, there will be enhancement in production quantity. Finally, after due deliberations, it was decided to defer the case and was advised the PP to submit revised NIPL certificate by preparing comparison of conditions mentioned in EC, Earlier Product mix (if any) and present product mix proposal.
8	MAC-CHEM PRODUCTS (INDIA) PVT. LTD N-211/2/10, tarapur MIDC, Boisar. – 401506 MPCB-CONSENT-0000057958	PP gave presentation on amendment in existing consent for change in product-mix. After interaction with the PP, it was noted that, 1. Environmental Clearance granted to the unit vide No. J-11011/855/2007-IA II(I) dated 19/3/2008 2. Consent to Operate granted by Board vide No. Format 1.0/BO/AST/UAN No. 0000043109/ R/CC-AST-HQ/CONSENT/1804000865 dated 19/3/2018 which is valid upto 30/4/2023 3. PP has earlier amended consent under product mix in 2014. PP has made comparison of pollution load considering the Environmental Clearance granted & earlier amendment under product mix.

Sr. No.	Name of Industry	Recommendations

4. **PP submitted proposal for:**

Sr.No	Product Name	Existing Production Quantity in MT/M	Proposed Amendment in MT/M
01	Anastrozol	0.0042	0.002
02	Aprepitant	0.0042	0.004
03	Atracurrium besylate	0.0083	0.002
04	Azathioprine	0.0583	0.0
05	Azithromycine	0.0125	0.0
06	Bicalutamide	0.01	0.006
07	Capecitabine	0.0583	0.005
08	Carboplatin	0.01	0.003
09	Cisplatin	0.01	0.004
10	Cytarabine	0.01	0.05
11	Dacarbazine	0.01	0.004
12	Docetaxel	0.0042	0.004
13	Erlotinib	0.0125	0.003
14	Esomeprazole	0.0125	0.02
15	Febuxostat	0.0627	0.0
16	Gefitinib	0.0333	0.03
17	Gemcitabine Hydrochloride	0.05	0.04
18	Hydrocortisone Hemi Succinate & Salt	0.4167	0.4
19	Irinotecn	0.0042	0.002
20	Methotraxate	0.0417	0.04
21	Methyl prednisolone & its salt	0.0333	0.01

Sr. No.	Name of Industry	Recommendations			
		22	Neostigmine Methyl Suplhate	0.0042	0.006
		23	Omeprazole	0.01	0.05
		24	Oxaliplatin	0.0042	0.0002
		25	Paclitaxel	0.0042	0.01
		26	Pantoprazole	0.0917	0.089
		27	Pemetrexed disodium	0.0042	0.005
		28	Rupivacaine hydrochloride	0.0042	0.01
		29	Succinyl chlorine chloride	0.125	0.1
		30	Temozolamide	0.01	0.005
		31	Thiopental Sodium	0.075	0.02
		32	Tianepatine sodium	0.0083	0.0
		33	Tigecycline	0.0042	0.002
		34	Vecuronium bromide	0.0083	0.004
		35	Abiraterone Acetate	0.0	0.01
		36	Azacitidine IP	0.0	0.0005
		37	Bendamustine Hydrochloride	0.0	0.0005
		38	Cabazitaxel	0.0	0.0001
		39	Cladribine	0.0	0.0004
		40	Etoposide BP	0.0	0.03
		41	Fludarabine Phosphate	0.0	0.0001
		42	Imatinib Mesilate EP	0.0	0.03
		43	Lenalidomide	0.0	0.002
		44	Letrozole	0.0	0.002

Sr. No.	Name of Industry	Recommendations			
		45	Procarbazine Hydrochloride	0.0	0.005
		46	Zolendronic Acid	0.0	0.0001
		47	Midazolam & salts	0.0	0.002
		48	Colistimethate Sodium & salt	0.0	0.03
		49	Fosaprepitant Dimeglumine	0.0	0.02
		50	Rocuronium Bromide	0.0	0.005
		51	Bortezomib	0.0	0.0003
		52	Exemestane	0.0	0.0008
		53	Enzalutamide	0.0	0.0001
		54	Sorafinib tosylate	0.0	0.005
		55	Pomolidomide	0.0	0.0001
		56	Lapatinibe	0.0	0.005
		57	Sunitinib	0.0	0.002
		58	Dasatinib	0.0	0.002
		59	Praletrexate	0.0	0.0001
		60	Dexmedetomidine Hydrochloride	0.0	0.0001
		61	Acyclovir For Injection USP (Lyophilised Sterile Bulk)	0.0	0.005
		62	Artesunate for Injection (Lyophilised Sterile Bulk)	0.0	0.005
		63	Chloramphenicol Sodium Succinate for Injection BP (Lyophilised Sterile Bulk)	0.0	0.04
		64	Clarithromycin for Infusion BP (Lyophilised Sterile Bulk)	0.0	0.002
		65	Glutathione for Injection (Lyophilised Sterile Bulk)	0.0	0.005

Sr. No.	Name of Industry	Recommendations

66	Tenoxicam for Injection BP (Lyophilised Sterile Bulk)	0.0	0.005
	Total		**1.2204**

The overall production after product mix will be 1.2204 MT/M as against existing production quantity 1.2204 MT/M

5. Environmental Clearance granted to manufacture 3 to 4 products (0.50 MT/M) as per market demand on campaign basis. Industry has to comply with EC condition.

7. Effluent generation before product mix is 10 CMD and after product mix it will be 9.95 CMD. Organic Load before product mix is 33.53 Kg/day and after product mix is 27.82 Kg/day.

Industry has proposed to treat Trade effluent generated in existing Effluent Treatment Plant. After due deliberation, it is noticed that, industry is generating high COD/TDS & low COD effluent and same was not segregated & treated in ETP. The ETP provided is not adequate and require to segregate the trade effluent & accordingly provide separate treatment system for the same.

Finally, after due deliberations, it was decided to recommend the case for change in product under product mix with a condition:

1. Industry shall manufacture 3 to 4 products (0.50 MT/M) as per market demand on campaign basis as per Environmental Clearance conditions.
2. Industry shall submit feasibility of existing Effluent Treatment Plant and also upgrade the existing ETP by segregating effluent stream before commercial production of amended products.

The meeting ended with vote of thanks to Chair.

(N.N.Gurav)
Regional Officer (HQ)
Member convener

(P.K. Mirashe)
Asst. Secretary (Tech)
Chairman of Product Mix Committee