

MAHARASHTRA POLLUTION CONTROL BOARD

Minutes of 6th meeting of Technical Committee (2020-21) for assessment of application of under change in product-mix

Date : 31/10/2020

Venue : Microsoft Team Video conferencing.

Technical Committee Members present for the meeting:

- | | |
|---|-----------------|
| 1. Shri P.K.Mirashe, Assistant Secretary (Tech), MPCB | Chairman |
| 2. Shri. A.M. Pimparkar Scientist-I, Env. Dept. GoM | Member |
| 3. Shri. Bharat Kumar Sharma Regional Director CPCB, Pune | Member |
| 4. Dr. Anurag Garg, Prof. IIT, Mumbai | Member |
| 5. Shri. B.R.Naidu, Ex- Regional Director, CPCB, Vadodara | Member |
| 6. Shri. Tuhin Banarjee, Scientist, NEERI, Mumbai | Member |
| 7. Dr. Prakash P. Wadgaonkar, Chief Scientist, NCL, Pune | Member |
| 8. Shri N.N.Gurav, Regional Officer, HQ, MPCB | Member convener |

Hon'ble Member Secretary, MPC Board, Mumbai also attended the meeting as special invitee.

The Chairman of the Committee welcomed the Committee members and the minutes of the 5th meeting of the Technical Committee (2020-21) were confirmed. Committee deliberated on the agenda items and following decisions were taken.

Agenda Item No.	1
Proposal No.	MPCB-CONSENT-0000095579
Project Details	M/s Aarti Industries Ltd., Plot. No. L-5, L-8, L-9/1, MIDC Tarapur, Tal & Dist. Palghar-401506.
NIPL Certificate	NIPL Certificate issued by M/s. Institute of Chemical Technology (ICT Mumbai IOC Bhubneshwar) vide letter No. ICT-IOC/DIR/2020-21/85 dated 28/7/2020

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000095579 alongwith 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.

Existing Clearances:

1. Environmental Clearance is granted to the unit vide No. SEAC2011/CR-878/TC2 dated 16/3/2013
2. Consent to Operate is granted by MPC Board vide No. Format 1.0/BO/AST/UAN No. 0000018972R/GEN-1710000475 dated 13/10/2017 valid up to 28/2/2022

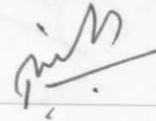
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Project Details:

A. Products with change in product mix as below:

Sr. No.	Name of the Product	Existing Production quantity in MT/M	Production quantity after change in product mix in MT/M
1	Para fluoro nitrobenzene	200	275
2	Ortho fluoro nitrobenzene	75	150
3	2,4 difluoro nitrobenzene	150	225
4	2,4 di nitro fluoro benzene	100	50
5	2,3 fluoro chloro nitro benzene	75	75
6	2,3,4 tri fluoro nitro benzene	50	75
7	2,3 di fluoro 5chloro pyridine	25	25
8	2,4 di fluoro-5 chloro nitro benzene	50	25
9	2,4 di fluoro 3,5 dichloro nitrobenzene	50	25
10	2,6 Difluoro benzonitrile /2,4,5 Trifluoronitrobenzene	100	50
11	2,6 Difluoro benzamide/ 4-fluoro benzaldehyde	50	25
12	1,3 Dimethyl- 5 chloro-4- pyrazolyl carboxylic acid fluoride	25	25
13	2,6 -Difluoro chlorobenzene	25	25
14	2,3- Difluoro chlorobenzene	25	25
15	2,3 Dichloro fluorobenzene	25	25
16	2,6 Dichloro fluorobenzene	50	50
17	3-chloro,4 fluoro aniline	125	125
18	Ortho difluoro benzene	50	50
19	3,5 dichloro 4 fluoro nitrobenzene	25	25
20	1,3 difluoro benzene	50	50
21	Potassium fluoride	150	150
22	Halogenated Alkalamines Alkanes & Heterocyclic Side Chain such as a) 2,4 Dichloro Fluoro Benzene (2,4 DCFB), b) Mtea Di chloro Benzene (MDCB), c) 1,3 Di chloro 2- Fluoro Benzene (2,6 DCFB)	35	5
23	3, chloro,4 Fluoro Nitrobenzene/2-fluoro-5 chloro nitro benzene/2-fluoro 3-chloro nitro benzene	100	50
24	N-N Di-Sec-Butyl-P-Phenylene diamine	100	100
25	Technical Salt - KCl	225	225
	Total	1935	1930

Overall total production quantity remains unchanged after product-mix.

B. Pollution load Details:
(i) Water & Wastewater Aspect:

Before Product-mix

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD		TDS	
			Strong	Weak	mg/l	Kg/day	mg/l	Kg/day
1	Water Consumption	100	--	---	NA	NA	NA	NA
2	Trade Effluent Generation							
a	Process Activity	25	20		Not produced			
b	Cooling Tower & Boiler	67.5	(Not segregated)					
	Total	92.5	20					
3	Domestic Effluent Generation, CMD	5.0	4.5		Not produced			
4	Gardening	2.5	NA		NA			

After Product-mix

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD		TDS	
			Strong	Weak	mg/l	Kg/day	mg/l	Kg/day
1	Water Consumption	166.83	--	---	NA	NA	NA	NA
2	Trade Effluent Generation							
a	Process Activity	24.83	19.01		Not produced			
b	Cooling Tower & Boiler	127.5	(Not segregated)					
	Total	152.33	19.01					
3	Domestic Effluent Generation, CMD	8	4.5		Not produced			
4	Gardening	6.5	NA		NA			

- Water consumption is higher than the quantity mentioned in the Environmental Clearance.

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- Effluent generation is reduced by 0.9 CMD.
- Organic Load not produced in NIPL as well as during presentation.

Treatment System:

a) Trade Effluent:

Industry has provided Effluent Treatment Plant (Primary, Secondary & Tertiary) followed by Reverse Osmosis followed by Multi Effective Evaporator and treated effluent will be recycled totally (100 %)

b) Domestic Effluent: Sewage will be treated through Soil Biotechnology and treated sewage will be used on land for gardening.

(ii) Air Emission Load:

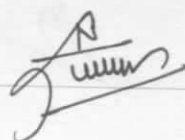
Sr. No.	Particular	Before Product mix	After Product mix	Remarks
01	Fuel Consumption	Furnace Oil- 1.2 KL/D Coal- 2.5 MT/D	Furnace Oil- 1.2 KL/D Coal- 2.5 MT/D	No Change
02	Process Emission, Acid Mist- mg/Nm ³	11.28	11.28	No Change

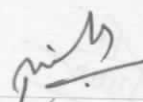
- Existing utilities will not be changed
- Industry is having Scrubbers to control process emissions.

(iii) Hazardous Waste Load:

Sr. No.	Type of Waste	Cat. No.	Before Product mix (MT/Yr)	After Product mix (MT/Yr)	Remarks
01	ETP Sludge	35.3	1.2	1.2	No Change
02	Distillation Residue	28.1	780	746.4	As per EC quantity 150 MT/Yr
03	Salt After Evaporation	35.3	---	120	Newly introduced
04	Process waste sludge/residues containing acid, toxic metals, organic compounds	26.1	---	24	Newly Introduced

- There is increase 28.1- Distillation residue compared to EC quantity.
- Industry generating additional two type of waste which was not included in existing Consent to Operate and Environmental Clearance.





Technical Committee Deliberations:

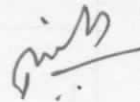
The project proposal was discussed on the basis of presentation made and documents- NIPL Certificate, NIPL proforma submitted by the proponent. Product wise load calculation in terms of wastewater, Air Emissions & Hazardous Waste generations were discussed. Existing Consent to Operate, Environmental Clearance, No Increase in Pollution Load certificate issued by Institute of Chemical Technology (ICT Mumbai IOC Bhubneshwar) vide letter No. ICT-IOC/DIR/2020-21/85 dated 28/7/2020 and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

- (i) The water consumption shown in presentation is higher than the budget granted in Environmental Clearance. PP informed that, water budget is as per the existing Consent to Operate. Committee opinion that, budget should not be increased beyond the Environmental Clearance quantity.
- (ii) PP has presented effluent load in terms of hydraulic load and unable to produce the Organic Load calculation during presentation and also not mentioned in NIPL & product-mix proforma.
- (iii) PP informed that, KCl solution generated is treated in their sister concern unit located within same MIDC and recovered KCl is reused or sale to the buyers. Committee opinion that, it should be either treated within same premises or handed over to the other party having permission under Rule 9 of H&OW Rule.
- (iv) The Hazardous Waste quantity of Category No. 28.1 is higher than the Environmental Clearance. Further, generating additional two type of waste which was not included in existing Consent to Operate and Environmental Clearance.
- (v) PP has not produced details of Effluent Treatment Plant including unit wise BOD-COD reduction

Technical Committee Decision:

Technical Committee decided to defer the case for change in product under product mix and advised the PP to furnish information i.e. product wise pollution load alongwith Organic load calculation, Clarification for increase in water consumption & Hazardous Waste generation compared to Environmental Clearance and Effluent Treatment Plant details i.e. unit-wise BOD-COD reduction.



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Agenda Item No.	2
Proposal No.	MPCB-CONSENT-0000100260
Project Details	M/s. OC Specialties Pvt. Ltd. Plot no – E-18, Chincholi MIDC, Taluka – Mohol, District - Solapur
NIPL Certificate	NIPL Certificate issued by M/s. Sadekar Enviro Engineers Pvt Ltd.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000100260 alongwith 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.

Existing Clearances:

1. Environmental Clearance is granted to the unit vide No. F. No. J-11011/92/2015-IA-II(I) dated 31/1/2017
2. Consent to Operate is granted by MPC Board vide No. Format 1.0/CC/UAN No. 0000004673/2008000021A dated 24/8/2020

Project Details:

A. Products with change in product mix as below:

Sr. No.	Name of the Product	Existing Production quantity in MT/D	Production quantity after change in product mix in MT/D
1	Sodium Bromide Solution OR	13.0	13.0
	Sodium Bromide Powder	7.73	7.73
	Zinc Hydroxyide OR	3.53	3.53
	Zinc Oxide	2.46	2.46
2	Di Isopropyl Ethyl Amine (DIPEA)	0.61	1.21
3	Methyl – 2 – Chloro Phenyl Acetate	0.34	0.34
4	4 – Methoxy Phenyl Acetone	0.33	0.33
5	2,3 Dichloro Pyridine	0.33	0.55
6	2-Amino – 2 – Phenyl Butyric Acid	0.21	0.0
7	Ortho Hydroxy Phenyl Acetic acid	0.5	0.0
8	2 Coumaranone	0.41	0.41
9	3 - Isochromanone	0.4	0.35
10	2,6 Dichloro Benzoyl Chloride	0.74	0.74
11	Methyl – 2 – Dimethylamino-2- Phenyl Butyrate	0.33	0.0
12	2-Dimethylamino -2- Phenyl Butanol	0.10	0.0
13	P- Bromonisoole / 4 – Bromo Anisoole	0.55	0.55
14	Para Bromo Phenetole / 4- Bromophenetole	0.48	0.48
15	2,4 – Dichloro Phenyl Acetyl Chloride	1.32	1.32
16	2,5 – Dimethyl Phenyl Acetyl Chloride	1.08	0.44
17	Indoline	1.21	1.21

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18	Ethyl Phenyl Glyoxalate (EPG)	0.95	0.0
19	Ethyl - 1 - Hydroxy Cyclohexane Carboxylate	1.10	1.10
20	Ethyl - 1 - Hydroxy Cyclopentane Carboxylate	1.21	1.21
21	3 - Chloro - 2 -Hydrazinyl Pyridine	1.2	0.95
22	2,4,6 Trimethyl Phenyl Acetyl Chloride	-	0.16
23	2,6 Dimethoxy Benzoic acid	-	0.06
24	Methyl-2-Chloropropionate	-	0.56
25	2-Methoxy Benzoic Acid	-	0.41
26	Amido Chloride	-	0.32
27	N-Methyl-2-Oxo-2-Phenyl Acetamide	-	0.03
28	Fluoro Trifluoromethyl Phenol	-	0.28
	Total MT/D	40.12	39.78

C. Pollution load Details:

(i) Water & Wastewater Aspect:

Before Product-mix

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD (Strong)		COD (Weak)		TDS (Strong)		TDS (Weak)	
			Strong	Weak	mg/l	Kg/day	mg/l	Kg/day	mg/l	Kg/day	mg/l	Kg/day
1	Water Consumption	46	Not applicable									
2	Trade Effluent Generation											
a	Process Activity	22.5	20	2.5	13600	272	5000	22.5	118318	2366.36	1600	7.2
B	Cooling Tower & Boiler	2		2								
c	Total	24.5	20	4.5	NA	272	---	22.5	---	2366.36	---	7.2
3	Domestic Effluent Generation, CMD	4.5	0	4.5	--	--	723	3.25	--	--	850	3.825

After Product-mix

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD (Strong)		COD (Weak)		TDS (Strong)		TDS (Weak)	
			Strong	Weak	mg/l	Kg/day	mg/l	Kg/day	mg/l	Kg/day	mg/l	Kg/day
1	Water Consumption	41.5	Not applicable									
2	Trade Effluent Generation											
a	Process Activity	22.5	20	2.5	13600	272	5000	22.5	118000	2360	1600	7.2
B	Cooling Tower & Boiler	2		2								
c	Total	24.5	20	4.5	---	272	---	22.5	---	2366	---	7.2

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3	Domestic Effluent Generation, CMD	4.5	0	4.5	--	--	723	3.25	--	--	850	3.825
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- **Water consumption is reduced to 41.5 CMD.**
- **There is no change in Pollution load after product mix.**

Treatment System:

a) Trade Effluent:

Industry has provided separate treatment system for segregated effluent:

Strong Stream: Stripper and Multiple Effect Evaporator

Weak Stream: Provided Primary, Secondary & tertiary treatment system followed by Reverse Osmosis followed by Multiple Effect Evaporator.

Treated effluent 100% recycled in the process so as to achieve Zero Liquid Discharge.

b) Domestic Effluent: Industry has provided the Septic tank. The supernatant from the septic tank will be treated in aeration tank of ETP.

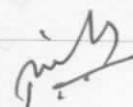
(ii) Air Emission Load:

Sr. No.	Source	Before Product-mix	After Product Mix
01	Boiler (3 TPH)		
02	Thermic Fluid Heater (6 Lakh Kcal/Hr)	Biomass -1500 Kg/Hr	Biomass -1500 Kg/Hr
03	Process Emission	Acid Mist- 235 mg/Nm ³ SO ₂ - 325 ppm	Acid Mist- 260 mg/Nm ³ SO ₂ - 312 ppm
04	D.G Set (200 KVA)	HSD-30 Ltrs/Hr	HSD-30 Ltrs/Hr

- Existing utilities & fuel consumption will not be changed due to which there is no increase in pollution load.
- Industry is having Scrubbers to control process emissions.

(iii) Hazardous Waste Load:

Sr. No.	Type of Waste	UoM	Before Product mix (MT/Yr)	After Product mix (MT/Yr)	Remarks
01	20.3 Distillation Residue	MT/M	21.2	14.3	Qty Reduced
02	28.1 Process Residue and waste	MT/M	13.14	12.97	Qty Reduced
03	35.3 Chemical sludge for waste water treatment	MT/D	0.30	0.3	No Change
04	37.3 Concentration or evaporation residues	MT/M	30	30	No Change

05	28.1 Process Residue (Sodium Sulphate Solution 25%)	MT/D	6.01	5.1	Qty Reduced
06	28.1 Process Residue (HCl 30%)	MT/D	2.52	1.872	Qty Reduced
07	28.1 Process Residue (Sodium Nitrite Solution 30%)	MT/D	1.01	0.83	Qty Reduced
08	28.1 Process Residue (Distillation Residue of P-Xylene)	MT/D	0.12	0.12	No Change
09	28.1 Process Residue (Ammonium Chloride)	MT/D	1.20	0.75	Qty Reduced

Technical Committee Deliberations:

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

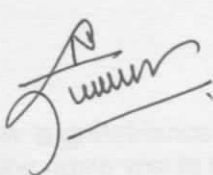
Committee after due deliberations noticed that:

- (i) It was noted that the quantification of pollution was done considering a worst case scenario of maximum 4 products which will be manufactured at any given point of time after the change in product mix.
- (ii) The total production quantity will be reduced from 40.12 MT/D to 39.78 MT/D.
- (iii) It was observed that the effluent generation from manufacturing process is higher than the water requirement. PP informed that water is generated from process which contributes to the increase in effluent quantity.
- (iv) It was noticed that, in the mfg of 2,4 – Dimethyl Phenyl Acetyl Chloride & Fluoro Trifluoromethyl Phenol trade effluent will be generated in which shows only TDS concentration however not shown COD concentration which seems to be practically not feasible as both the products are organic in nature. PP unable to submit proper justification. PP was asked to submit the proper justification for the same.
- (v) It was noticed that the quantity of Acid mist generated after the change in product mix is 260 mg/Nm³ is higher than the existing quantity of 235 mg/Nm³. PP informed that, they will rework pollution load of Acid mist generated products and accordingly reduce the production quantity.
- (vi) The overall pollution load is not increased after change in product-mix.
- (vii) It is understood that, Board has issued Closure Directions for mfg of additional products which attracts EIA Notification 2006 without obtaining Environmental Clearance.

Technical Committee Decision:

Technical Committee decided to recommend the case for change in product under product mix with a compliance of the following conditions;

- (i) Industry shall submit the justification for not showing COD concentration in effluent arises from mfg of 2,4 – Dimethyl Phenyl Acetyl Chloride & Fluoro Trifluoromethyl Phenol.
- (ii) Industry shall rework pollution load of Acid mist generated products and accordingly reduce the production quantity & submit revised production quantity.
- (iii) Industry shall dispose/sale the fly ash as non-hazardous waste to Brick Manufacturer and submit the copy of agreement/MoU with brick manufacturers to MPCB.
- (iv) 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
- (v) Industry should not manufacture any other product for which permission is not granted by the MPCB.
- (vi) Industry shall submit the undertaking stating that, no plant & machinery will be installed, and production activity will be carried out in existing plant & machinery only.
- (vii) Consent may be considered under product-mix only after initiation of credible action under provision of Environment (Protection) Act, 1986.



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Agenda Item No.	3
Proposal No.	MPCB-CONSENT-0000092839
Project Details	M/s. Godrej Industries Ltd. Plot no – N-73, Additional Ambernath Anand Nagar, Mahad, Taluka – Mahad, District - Raigad
NIPL Certificate	NIPL Certificate issued by M/s. Sadekar Enviro Engineers Pvt Ltd.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000092839 alongwith 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.

Existing Clearances:

1. Environmental Clearance is granted to the unit vide No. F. No. J-11011/612/2010-IA-11(I) dated 13th September 2012.
2. Consent to Operate is granted by MPC Board vide No. Format 1.0/CAC/UAN No. 0000087690/CR-2006000744 dated 17/06/2020.

Project Details:

A. Products with change in product mix as below:

Sr	Products	UOM	Existing Consented Quantity,	Proposed Quantity after product mix change,
1	Mono Carboxylic Fatty Acid	MT/A	60000	59500
2	Organic surface active agent (Surfactants), detergent.	MT/A	17000	17000
3	Glycerine	MT/A	10800	10800
4	Fatty Esters and Condensates	MT/A	0	500
	Total	MT/A	87800	87800

Technical Committee Deliberations:

The project proposal was discussed on the basis of presentation made and documents- NIPL Certificate, NIPL proforma submitted by the proponent. Committee after due deliberations noticed that, there is requirement of installation of additional Boiler and Reactor for proposed product mix and as per the MoEF &CC Notification dated 23/11/2016, additional plant & machinery not permitted in product mix.

Technical Committee Decision:

Technical Committee decided not to consider the case for product mix as additional Boiler & reactor required for product mix which is not permitted as per MoEF&CC Notification dated 23/11/2016.

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Agenda Item No.	4
Proposal No.	MPCB-CONSENT-0000099760
Project Details	M/s. Astec Lifesciences Ltd. Plot no – K-2/1/2, Additional MIDC Area, Mahad, Taluka – Mahad, District - Raigad
NIPL Certificate	NIPL Certificate issued by M/s. Sadekar Enviro Engineers Pvt Ltd.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000099760 alongwith 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.

Existing Clearances:

1. Environmental Clearance is granted to the unit vide No. F. No. J-11011/40/2017-IA-II(I)-E-File dated 21 February 2018.
2. Consent to Operate is granted by MPC Board vide No. Format 1.0/BO/AST/UAN No. 0000053533/O/CC-1809002119 dated 21/09/2018 valid upto 30/08/2023.

Project Details:

A. Products with change in product mix as below:

Sr	Products	UOM	Existing Consented Quantity,	Proposed Quantity after product mix change,
1	Propiconazole	MT/M	300	200
2	Cyproconazole	MT/M	126	196
3	Metconazole/Bromoketal	MT/M	101	101
4	Transfluthrin	MT/M	88	100
5	2,4 Dichloracetophenone	MT/M	502	480
6	Valerylphenone	MT/M	171	171
7	2-Chloro (4-(chlorophenixy) acetophenone)	MT/M	106	106
8	Tri chloracetophenone	MT/M	234	200
9	Valeryl chloride	MT/M	230	230
10	m-diChlorobenzene	MT/M	200	200
11	Flurochloroacetophenone	MT/M	165	165
12	Dinonyl diphenyl amine/Triazole	MT/M	246	220
13	Flazasulfuron (SL160)	MT/M	0	5

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14	6-chloro-3-(2-cyclopropyl-6-methylphenoxy) pyridazin-4-yl morpholine-4-carboxylate (CYP)	MT/M	0	30
15	2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6 tetrahydro pyrimidin-1-yl] benzenethiol(PDSH)	MT/M	0	25
16	Hexaconazole	MT/M	0	40
	Total	MT/M	2469	2469

By-products:

Sr. No	By Products	UOM	Existing Consented Quantity	Proposed Quantity after product mix change,
1	Potassium Bromide solution (KBr)	MT/M	132	85
2	Inorganic Salt (NaOH)	MT/M	48	39
3	Poly Aluminium Chloride (PAC) solution	MT/M	4635	4404
4	HCl Solution (30%)	MT/M	669	665
5	Phosphorus acid(H3PO3)	MT/M	131	53
6	Mono Chloro Benzene (MCB)	MT/M	4	4
7	Aromatic Alkoxy Compound	MT/M	218	211
8	Phenol	MT/M	0	2
9	Ethanol	MT/M	0	14
	Total	MT/M	5837	5477

B. Pollution load Details:

(i) Water & Wastewater Aspect:

Before Product-mix

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD		TDS	
			Strong	Weak	mg/l	Kg/day	mg/l	Kg/day
1	Water Consumption	716.5	Not applicable					
2	Trade Effluent Generation							
a	Process Activity	11.1	No segregation		4000	372.8	8000	745.6
B	Cooling Tower & Boiler	82.1						

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	Total	93.2			4000	372.8	8000	745.6
3	Domestic Effluent Generation, CMD	3.6	0	0	--	--	--	

After Product-mix

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD		TDS	
			Strong	Weak	mg/l	Kg/day	mg/l	Kg/day
1	Water Consumption	716.5	Not applicable					
2	Trade Effluent Generation							
a	Process Activity	11.1	No segregation		4000	372.8	8000	745.6
B	Cooling Tower & Boiler	82.1						
c	Total	93.2						
3	Domestic Effluent Generation, CMD	3.6	0	0	--	--	--	

- There is no reduction in hydraulic load effluent. Trade effluent generation is 93.2 CMD.

Treatment System:

a) Trade Effluent:

Industry has provided Stripper and Evaporator system to each reactor. Treated effluent 100% recycled in the process so as to achieve Zero Liquid Discharge.

- b) Domestic Effluent:** Industry has provided STP for treatment of sewage effluent.

(ii) Air Emission Load:

Sr. No.	Source	Before Product-mix				After Product Mix			
		Fuel	TPM mg/Nm3	SO2 (Kg/day)	Acid Mist	Fuel	TPM mg/Nm3	SO2 (Kg/day)	Acid Mist
01	Boiler	Coal-41 MT/D	3296.8	410	---	Coal-41 MT/D	3296.8	410	---
02	Thermopac								
03	D.G Set (500 KVA)	HSD-50 Ltrs/Hr	--	21.6	---	50 Ltrs/Hr	---	21.6	---
04	D.G Set (500 KVA)	HSD 50 Ltrs/Hr	--	21.6	---	50 Ltrs/Hr	---	21.6	---
05	Process Emissions	NA	--	--	95	---	---	---	95

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- Existing utilities & fuel consumption will not be changed due to which there is no increase in pollution load.
- Industry is having Scrubbers to control process emissions.

(iii) Hazardous Waste Load:

Sr. No.	Type of Waste	UoM	Before Product mix	After Product mix
01	29.1 Process waste or residue	MT/M	218	218
02	33.1 Empty barrels/containers/Liners contaminated with hazardous chemicals/wastes	Nos/D	339	339
03	37.3 Concentration and evaporation residue	MT/M	330.2	330.2

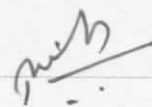
There is no change in Hazardous Waste Quantity.

Technical Committee Deliberations:

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

Committee after due deliberations noticed that:

- The total production quantity as per Environmental Clearance is 2469 MT/M which will remain unchanged after the change in product mix. The total quantity of by-products will be reduced from 5837 MT/M to 5477 MT/M.
- The water consumption & effluent generation will remain unchanged. There is no change in pollution load.
- The Committee deliberated with the PP on the nature and type of raw materials to be used for the proposed products. The PP explained that the raw materials will be of the similar nature to the existing ones.
- The Hazardous quantity will remain unchanged after the change in product mix.
- The overall pollution load is not increased after change in product-mix.

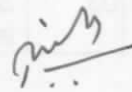
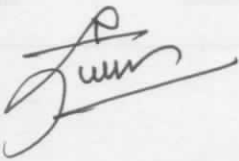



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Technical Committee Decision:

Technical Committee decided to recommend the case for change in product under product mix with a compliance of the following conditions;

- (i) 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.
- (ii) Industry shall dispose the By-product as per the guidelines stipulated by CPCB & MPCB.
- (iii) Industry shall submit the undertaking stating that, no plant & machinery will be installed, and production activity will be carried out in existing plant & machinery only.
- (iv) Industry should not manufacture any other product for which permission is not granted by the MPCB



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Agenda Item No.	5
Proposal No.	MPCB-CONSENT-0000098251
Project Details	Galaxy Laboratories Pvt. Ltd Plot No. B-10, MIDC Newasa Industrial Estate, At Post Tukai Shingave, Aurangabad Pune highway, Near Ghodegaon, Tal. Newasa, Dist. Ahmednagar
NIPL Certificate	NIPL Certificate issued by M/s. Aditya Environmental Services Private Limited vide letter dated 15 th September 2020

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000098251 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.

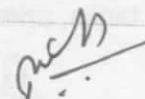
Existing Clearances:

1. Environmental Clearance is granted to the unit vide SEIAA-EC-0000000469 dated 29/10/2018
2. Consent to Operate is granted by MPC Board vide No. Format 1.0/AST/RO-NK/2019/E/CC-1903000988 dated 16/3/2019 valid upto 31st March 2023

Project Details:

A. Products with change in product mix as below:

No	Product	Existing quantity, TPM	After product mix, TPM
1	Hydrogen gas	250 Nm ³ /hr	250 Nm ³ /hr
2	Furfuraldehyde (Furfural)	50	10
3	Chlorohexanone (6-Chloro-2-Hexanone)	5	0
4	Triclabendazole (Crude)	5	0
5	Citronellal	13.9	5
6	Furfuryl amine	40	40
7	Cis Pinene	100	100
8	Cyclohexenyl Ethyl Amine(CHEA)	10	10
9	5-Chloro-4-Amino-2,1,3 Benzothiadiazole	2	2
10	Betaphenyl Ethyl Amine (BPEA)	20	20
11	Poly Allylamine Hydrochloride (PAAH)	3	3
12	2, 5-DICHLORO-4-(1, 1, 2, 3, 3, 3-HEXA FLUOROPROPOXY)-PHENYL AMINE (SC-0603)	0	46
13	4-METHOXYCYCLOHEXANONE (SS-1602)	0	12.9
	Total (Excluding Hydrogen gas)	248.9	248.9

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B. Pollution load Details:

(i) Water & Wastewater Aspect:

Before Product-mix

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD		TDS	
			Strong	Weak	mg/l	Kg/day	mg/l	Kg/day
1	Water Consumption	165	Not applicable					
2	Trade Effluent Generation							
a	Process Activity	27	No segregation		5814.8	157	---	---
B	Cooling Tower & Boiler	16			331.25	5.3	---	---
	Total	43	NA	NA	NA	162.3	NA	NA
3	Domestic Effluent Generation, CMD	28	--	---	--	10	--	

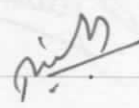
After Product-mix

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD		TDS	
			Strong	Weak	mg/l	Kg/day	mg/l	Kg/day
1	Water Consumption	156	Not applicable					
2	Trade Effluent Generation							
a	Process Activity	19	No segregation		6526.3	124	---	---
B	Cooling Tower & Boiler	16			331.25	5.3	---	---
c	Total	35	NA	NA	NA	129.3	NA	NA
3	Domestic Effluent Generation, CMD	28	NA	NA	--	10	--	---

- o Water consumption reduces from 165 to 156 CMD,
- o Effluent generation reduces from 68 to 60 CMD,
- o Organic load reduces from 172.3 kg/day to 139.3 kg/ day (COD).

Treatment System:

Industry has provided combined Effluent Treatment Plant for domestic and trade effluent (72 cmd capacity) comprising Primary, Secondary & tertiary treatment system which consists of Inlet chamber, Oil and grease traps, Collection cum neutralization tanks, dosing tanks, primary clarifier, aeration tank, secondary clarifier tank, filter feed collection

tank, treated water collection tank, sludge drying bed for sludge from primary clarifier, and sludge drying bed for biological treatment.

(ii) Air Emission Load:

a. Fuel burning emissions

Sr. No.	Source	Before Product-mix		After Product Mix	
		Fuel	SO2 (Kg/day)	Fuel	SO2 (Kg/day)
1.	2 Lakhs Kcal Thermic fluid heater	Coal- 240 Kg/Day	2.4	Coal- 240 Kg/Day	2.4
2.	3 TPH Boiler	Coal-15 MT/Day	150	Coal-15 MT/Day	150
3.	6 Lakhs Kcal Thermic fluid heater	Furnace Oil- 1.7 MT/Day	12.16	Furnace Oil- 1.7 MT/Day	12.16
4.	DG set 320 KVA	HSD-64 Lit/Hr	10.24	HSD-64 Lit/Hr	10.24

TPM load not submitted. No additional fuel burning source for proposed product mix.

b. Process emissions

Sr. No.	Source	Before Product-mix	After Product Mix
		Emission	Emission
1.	Process Reactor-I	Not Reported	Not Reported
2.	Process Reactor-II	HCL- Outlet Concentration-35 mg/Nm3	HCL- Outlet Concentration-35 mg/Nm3
3.	Process Reactor-III	Ammonia- Outlet Concentration-50 ppm	Ammonia- Outlet Concentration-50 ppm
4.	Process Reactor-IV	H2S- Outlet Concentration- 10 mg/Nm3	H2S- Outlet Concentration-10 mg/Nm3

- Existing utilities will not be changed- steam requirement will be reduced from 2.40 TPH to 1.30 TPH
- Thus, no change in flue gas emissions from fuel fired sources
- Industry is having Scrubbers to control process emissions- There will be no additional process vents from new products – hence no change in process emissions

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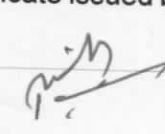
(iii) Hazardous Waste Load:

Sr. No.	Type of Waste	Category (As per Schedule)	Generation per Year (No Change)		Remark
			Existing	After Change in Product Mix	
1.	Chemical sludge from wastewater treatment	35.3	30 TPA	30 TPA	No change
2.	Distillation Residue	20.3	209 TPA	74 TPA	Reduction
3.	Distillation Residue (chlorinated)	20.3	6 TPA	0	Reduction
4.	Filters/ Filter material which have organic liquid	35.1	2 TPA	2 TPA	No change
5.	Residue & waste (iron sludge)	28.1	45 TPA	45 TPA	No change
6.	Spent Catalyst	28.2	51 TPA	53 TPA	Marginal increase
7.	Spent Charcoal	28.3	32 TPA	23 TPA	Reduction
8.	Discarded containers/ Barrels/ liners	33.1	500 Nos./ A	500 Nos./ A	No change
9.	Spent acid	28.1	42.5 MT/M	42.5 MT/M	No change
10.	Sodium hydrosulfide solution	28.1	9.3 MT/M	0	Reduction
11.	Potassium bromide salt solution	28.1	46.4 MT/M	0	Reduction

There will be slight increase in spent catalyst (category 28.2) used for hydrogenation by 2 TPA but substantial reduction in Distillation residue (category 20.3) by 141 TPA and spent charcoal (category 28.3) by 9 TPA and elimination of byproducts Sodium hydrosulfide and Potassium bromide solution.

Technical Committee Deliberations:

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

Environmental Services Private Limited vide letter dated 15th September 2020 and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

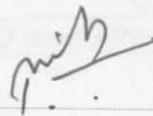
- (i) There is overall reduction in water consumption, wastewater generation and hazardous waste generation.
- (ii) There will be no change in existing utility set up.
- (iii) The overall pollution load will not increase after change in product-mix.
- (iv) It was noticed that in the process shown for product 4-Methoxycyclohexanone, hydrogenation of mono methyl ether of hydroquinone will produce an alcohol and a ketone, then, how it is claimed that only pure product (ketone viz. 4-Methoxycyclohexanone will be produced?. Committee enquired, do PP want to carry out purification by way of oxidation to get the final ketone product?

Project proponent replied that, they have order from overseas buyer for undertaking hydrogenation only and product (4-Methoxycyclohexanone) will be sold on a as is basis (that is at about 90% purity). They will not carry out any further processing/purification. They have also recently observed during lab trials that the product produced is about 90% pure and Committee asked PP to give undertaking for the same that no further processing/purification will be carried out at site. PP Agreed for the same.

Technical Committee Decision:

Technical Committee decided to recommend the case for change in product mix with a compliance of the following condition.

- (i) PP to submit undertaking that no purification / processing will be carried out at site on the hydrogenated product.
- (ii) Industry shall submit process emission load at source before & after product mix.
- (iii) 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.
- (iv) Industry shall dispose the By-product as per the guidelines stipulated by CPCB & MPCB.
- (v) Industry shall submit the undertaking stating that, no plant & machinery will be installed, and production activity will be carried out in existing plant & machinery only.
- (vi) Industry should not manufacture any other product for which permission is not granted by the MPCB



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Agenda Item No.	6
Proposal No.	MPCB-CONSENT-0000097980
Project Details	M/s. Shree Chhatrapati Shahu Sahakari Sakhar Karkhana Ltd Kagal; Tal.: Kagal, Dist.: Kolhapur (MS)
NIPL Certificate	NIPL Certificate issued by M/s Equinox Environments (I) Pvt. Ltd vide letter No EEIPL/244/2020.21 Date: 10/9/2020

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000097980 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 & amended on 16/01/2020

Existing Clearances:

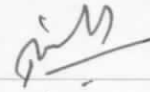
1. Environmental Clearance is granted to the unit vide J-11011/225/2015-IA-II(I) dated 28/03/2017
2. Consent to Operate is granted by MPC Board vide No. Format 1.0/CAC/UAN No. MPCB-CONSENT-0000092287& 0000092690/CR-2002001110 dated 28/8/2020 valid upto 31/8/2021

Project Details:

Industry is having existing 60 KLPD distillery utilizes C Heavy molasses as raw material to produce Rectified Spirit (RS) and Extra Neutral Alcohol (ENA). Industry has proposed to switch over to raw materials namely 'B Heavy' Molasses and 'Cane Juice (Syrup)' from conventional 'C Molasses'.

A. Project Details:

Particulars	Existing	Scenario-I	Scenario-II
Capacity	60 KLPD	75 KLPD	90 KLPD
Raw Material	C Molasses	B Heavy Molasses	Cane Juice (Syrup)
Working Days	270	270	180
TRS Content (Max)	50 %	61%	65%
Alcohol Generation KLD	60	75	90
CO2 Generation MTD	50	50	70
Water Requirement for Molasses dilution in KLD	480	400	Nil
Spentwash Generation KLD	440	362	360
Spent Leese Generation	120	110	90

B. Pollution load Details:

(i) Water & Wastewater Aspect:

Sr. No.	Particulars	Existing (60 KLPD- C Molasses)			Scenario-I (75 KLPD- B Molasses)			Scenario-II (90 KLPD- Sugar Cane Juice (Syrup))		
		Quantity	COD in mg/l	COD in Kg/day	Quantity	COD in mg/l	COD in Kg/day	Quantity	COD in mg/l	COD in Kg/day
1	Water Consumption in CMD	661	NA	NA	581	NA	NA	181	NA	NA
2	Industrial Effluent Generation									
a	Spent Wash in CMD	440	140000	61600	362	11000	39820	360	60000	21600
b	Spent Lees in CMD	120	2500	360	110	2250	301.5	90	2025	230.85
c	Other Effluent in CMD	24			24			24		
	Total			61960			40121.5			21830.5

COD Load will be reduced in both the Scenario's.

Treatment System:

a. Spent was Treatment:

Spentwash generated is treated through Bio methanation, Multiple Effect Evaporator (MEE) followed by Bio-Composting. MEE Condensate is treated through other effluent.

b. Other Effluent:

Industry has provided Effluent Treatment Plant comprising Equalization Tank, Anaerobic Digester (UASB), Tube Settler, Aeration Tank, Secondary Clarifier, Flash Mixer, Tube Settler, Pressure Sand Filer, Activated Carbon Filter, Reverse Osmosis. Treated effluent is reused.

(ii) Air Emission Load:

Sr. No.	Particulars	Existing (60 KLPD- C Molasses)	Scenario-I (75 KLPD- B Molasses)	Scenario-II (90 KLPD- Sugar Cane Juice (Syrup))	Remarks
01	Source of steam consumption	60 TPH & 70 TPH Boiler in Sugar Factory	60 TPH & 70 TPH Boiler in Sugar Factory	60 TPH & 70 TPH Boiler in Sugar Factory	No Change
02	Steam Requirement MT/Day	132	120	117	Reduction

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03	Bagasse Requirement MT/Day	66	55	53	Reduction
A	TPM Load Kg/Day	381	342	333	Reduction
B	SO2 Load inKg/Day	125	112	109	Reduction

(iii) Solid Waste Load:

Sr. No.	Particulars	Existing (60 KLPD- C Molasses)	Scenario-I (75 KLPD- B Molasses)	Scenario-II (90 KLPD- Sugar Cane Juice (Syrup))	Remarks
01	Yeast Sludge KL/M	300	240	240	Reduction
02	ETP Sludge MT/M	2.7	2.4	2.0	Reduction

Technical Committee Deliberations:

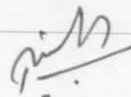
The project proposal was discussed on the basis of presentation made and documents- NIPL Certificate, NIPL proforma submitted by the proponent. Product wise load calculation in terms of wastewater, Air Emissions & Hazardous Waste generations were discussed. Existing Consent to Operate, Environmental Clearance, No Increase in Pollution Load certificate issued by M/s Equinox Environments (I) Pvt. Ltd vide dated 10/9/2020, NIPL Report and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

- (i) The proposal submitted for Distillery unit; however, it is integrated Sugar, Distillery & Co-gen plant. PP enhance the capacity of distillery unit by switching over raw materials namely 'B Heavy' Molasses and 'Cane Juice (Syrup)' from conventional 'C Molasses' resulting reduction in Sugar Production. PP informed that, there will be reduction in Sugar production definitely. Committee advised to submit impact of this proposal on sugar production & accordingly consent to be amended.
- (ii) PP informed that, they will change the Yeast for proposed product mix. Committee asked whether PP has taken trial of new yeast on existing set up. PP informed that, they have taken lab trials with changed yeast on existing scenario, however, new yeast is not sustained in existing scenario.
- (iii) There is overall reduction in water consumption, wastewater generation, Air Pollution Load and hazardous waste generation
- (iv) There will be no change in existing utility set up.

Technical Committee Decision:

Technical Committee decided to recommend the case for change in product mix with a compliance of the following condition.

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- (i) PP shall submit sugar production details after change in product mix.
- (ii) 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.
- (iii) Industry shall submit the undertaking stating that, no plant & machinery will be installed, and production activity will be carried out in existing plant & machinery only.
- (iv) Industry should not manufacture any other product for which permission is not granted by the MPCB.

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Agenda Item No.	7
Proposal No.	MPCB-CONSENT-0000090387
Project Details	M/s. Albany Molecular Research Hyderabad Research Centre Private Limited (Unit- 2) at G-1/1, 1/2, MIDC area, Waluj, Aurangabad
NIPL Certificate	NIPL Certificate issued by M/s. SD Engineering Services Pvt. Ltd. Aurangabad vide letter dated 26.10.2020

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000090387 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.

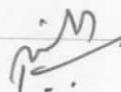
Existing Clearances:

1. Environmental Clearance is granted to the unit vide No. SEAC-2015/CR-152/TC-2 dated 18th July 2016 and amended vide no. SEAC-2015/CR-152/TC-2 dated 2nd March 2017.
2. Consent to Operate is granted by MPC Board vide No. BO/AST/UAN-MPCB-CONSENT-0000033034/A/CC-1808000034 dated 01st Aug, 2018 & further amended for Change in name vide No. MPCB/AS(T)/Amendment/TB-1905000030 dated 17th May 2019.

Project Details:

A. Products with change in product mix as below:

Sr. No.	Name of the Product	Existing Production quantity in MT/M	Production quantity after change in product mix in MT/M
1	Furosemide	15	15
2	Atenolol	6	0
3	Isosorbide-5-mononitrate	6	6
4	Dilute Isosorbide-5-mononitrate (10% to 90%)	10	10
5	4-isothiocyanato-2-(trifluoromethyl) benzonitrile (MDV3100-6) [MDV-6]	4.5	4.5
6	Diatrizoate Sodium	6	6
7	Diatrizoate Meglumine	6	6
8	Cinnarizine	1	0
9	(1-((2'-(2H-tetrazol-5-yl)[1,1'-biphenyl]-4yl)methyl)-2-butyl-4chloro - 1H-imidazol-5-yl)methanol [Losartan]	2	0
10	Fluconazole	1	0
11	Propranolol Hydrochloride	2	2
12	Metformine Hydrochloride	5	0
13	Venlafaxine Hydrochloride	2	0

14	7-acetyl-1,2,4,6,7,8,12,13,14,15,16,17-dodecahydrospiro [cyclopenta[a]phenanthrene-3,2'-[1,3]dioxolan]-17-yl acetate (Ketal Acetate)	3	3
15	Anecortave (5HC) Hydrocortisone Base (HC) or Tetraene Acetate (2TR)	3	3
16	(R)-2,7,8-trimethyl-2-((4R,8R)-4,8,12-trimethyltridecyl) chroman-6-01 or D- α -Tocopheryl polyethylene glycol succinate Vitamin-E TPGS	3	3
17	Solifenacin Succinate	2	2
18	Fesoterodine	1	1
19	Deferasirox	2	2
20	Fluticasone Furoate	2	2
21	Indacaterol	2	2
22	2-Acetate	6	6
23	Ethyl 2,4-dihydroxy-6-pentylbenzoate (Ethyl Olivetolate)	2	2
24	(1S,4R)-1-methyl-4-(prop-1-en-2-yl)cyclohex-2-enol (Menthadienol)	2	2
25	2-(4-chloro-3-(chlorosulfonyl)benzoyl)benzoic acid (Chlorthalidone Intermediate-1/ intermediates	15	15
26	(4S-trans)-4-(N-acetyl-N-ethylamino)-5,6-dihydro-6-methyl-4H-thien-(2,3-b)-thiopyran-7,7-dioxide (Chiral Acetamide)	5	5
27	2-(Formamido-1,3-thiazol-4-yl) glyoxylic acid AZTH3 intermediate	3	3
28	2-Mercapto-N-methylbenzamide	3	3
29	Anticancer Fragment A	1.5	0
30	Anticancer Fragment B	1	0
31	Anticancer Fragment C	1	0
32	Citarabine intermediate	5	5
33	2-3((3-Fluoro-4-(methylcarbamoyl) phenyl) amino)-2-methylpropanoic acid (MDV 4)	6	6
34	4-Bromo-2-fluro-N-methyl benzamide MDV-2	8	8
35	6-Chloro 3 methyl Uracil (CMU)	2.5	2.5
36	5-Bromo-2-(2-methyl-2H-tetrazol-5-yl) pyridine (DA-3)	3	3
37	1-Benzyl-4-Phenyl-piperidine-4-caarbonitrile Hydrochloride (Nitrile Chloride)	6.5	0
38	Acetyl Benzyl Amine	15	15
39	Sodium benzofuran-6-carboxylate (Synthon A)	4	4
40	2-(tert-Butoxycarbonyl)-5,7-dichloro-1,2,3,4-tetrahydroisoquinoline-6-carboxylic acid (Synthon B)	4	4
41	Benzyl 2-amino-3-(3-methylsulfonyl)phenyl) propanoate Hydrochloride (Synthon C)	4	4

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42	(S)-methyl 2-methylpyrrolidine-2-carboxylate Neuren-4	3	3
43	(S)-dibenzyl 2-((S)-1-(2-(benzyloxy) carbonyl) amino) acetyl)-2-methylpyrrolidine-2- carboxamido) pentanedioate Neuren-7	3	3
44	Propionyl Chloride	15	15
45	2-Amino-5-bromo Benzoxazole [ML 737] OR tert-butyl (5-bromobenzo[d]oxazol-2-yl) carbamate or (BOC-ML737)	4	4
46	4-Amino pyrazolopyrimidine [ML739]	6	6
47	Bromofluoro methane (BFM)	0.5	0.5
48	Benzyl 2-bromo ethyl ether (BBEE)	0.75	0.75
49	1,6-Di Bromo hexane	5.40	5.40
50	5-bromo-3-methyl-6-oxo-1,6-dihydropyridine- 2-carboxamide (Methyl analogue of pyridine der) (eFT000776) OR N-(6-aminopyrimidin-4- yl) cyclopropanecarboxamide (eFT000775)	1	1
51	1-(benzyloxy)-4-bromo-2,5 dimethoxybenzene Compound 4 (SGL Chemistry)	2	2
52	N,N-bis(2,4-dichlorobenzyl) hydroxylamine (Compound 1534 Water villie)	6.5	6.5
53	tert-butyl((1s,4s)-4- aminocyclohexyl)carbamate [BOC - CIS - Diamine]	3	3
54	2-(4-(benzyloxy)-3-nitrophenyl)oxirane [Borregaard NSO]	3	3
55	6-((2-(3,4- dihydroxyphenyl)-4-oxo-4H- chromen-3-yl)oxy)-6-oxohexanoic acid [NP- 202]	3	3
56	Miconazole Nitrate	1	1
57	Timolol Maleate (Timolol)	1	1
58	Warfarin Sodium Clathrate [Warfarin]	1	1
59	1,2-Di-P-tolyethane-1,2-dione dioxime	3	3
60	Ethyl 2,4,6-tri-O-benzoyl-β-D- thiogalactopyranoside (PF-06460245)	3	3
61	Amine HCl salt 090602	3	3
62	N-(3,5-dichloro-4-((6-oxo-1,6- dihydropyridazine-3-yl) oxy) phenyl) benzamide (Intermediate-C)	2	2
63	N-cyanoacetylurethane (NCAU)	2	2
64	4-acetylc-4'-(benzyloxy)-2',5'-dimethoxy- [1,1'-biphenyl]-2-carboxylic acid Compound 7 (SGL Chemistry)	2	2
65	(R)-2-(2-(3- (((benzyloxy)carbonyl)amino)propyl)phenoxy) propyl 4-methylbenzenesulfonate (LP101-9c)	1	1
66	Adrenalone HCl	5	5
67	Dibenzyl Artereone	5	5

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68	2-(5-((3-Methyloxetan-3-yl)methoxy)-1H-benzo[d]imidazol-1-yl)quinolin-8-ol (ASP-187)	3	3
69	Dilute Caustic Lye (Byproduct)	10	10
70	Distillation of spent solvent	20	20
71	Apalutamide	0	1
72	Ziprasidone Nucleus	0	2.5
73	BG-4 (5-amino-3-(4-phenoxyphenyl)-1H-pyrazole-4-carbonitrile)	0	2.5
74	BG-8 (tert-butyl (E)-4-(3-(dimethyl amino)acryloyl)piperidine-1-carboxylate)	0	2
75	PF-06850062 (((1R,5S,6r)-3-benzyl-3-azabicyclo[3.1.0]hexan-6-yl)methanol)	0	1.5
76	1H-Pyrrolo[2,3-D]Pyrimidine-2,4(3H,7H)-Dione	0	2.5
77	2,4-Dichloro Pyrimidine	0	2.5
78	3-Cyano-5-Hydroxy Pyridine	0	2.5
79	Bay-28288113 (N-((R)-chroman-4-yl)-7-fluoro-4-(3-fluoroazetidin-1-yl)-8-(2,3,5-trifluorophenyl)quinoline-3-carboxamide)	0	1.5
80	R & D Products	0	0.5
81	Tolazoline HCl	0	2
82	Potassium 6-(4-amino-2,6-dichlorophenoxy)-4-isopropylpyridazin-3-olate [Intermediate F]	0	1
83	Pravibismane- API	0	1
The production capacity of above mentioned products shall not exceed 65 MT/M			

B. Pollution load Details:

**(i) Water & Wastewater Aspect:
Before Product-mix**

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD		TDS	
			Strong	Weak	mg/l	Kg/day	mg/l	Kg/day
1	Water Consumption	81.5	Not applicable					
2	Trade Effluent Generation							
a	Process Activity	34.93	Not submitted quantity		---	965.30	---	1106.07
b	Cooling Tower & Boiler	2.3						
	Total	37.23	NA	NA	---	965.30	---	1106.07
3	Domestic Effluent Generation, CMD	10	---	---	---	---	---	---

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After Product-mix

Sr. No.	Particular	Quantity in CMD	Effluent Segregation in CMD		COD		TDS	
			Strong	Weak	mg/l	Kg/day	mg/l	Kg/day
1	Water Consumption	80.4	Not Applicable					
2	Trade Effluent Generation							
a	Process Activity	34.48	Not submitted quantity		---	961.64	---	1075.14
b	Cooling Tower & Boiler	2.3						
	Total	36.78			---	961.64	---	1075.14
3	Domestic Effluent Generation, CMD	10	---	---	---	---	---	---

- Water consumption is reduced by 1.1 CMD.
- Effluent generation is reduced by 0.45 CMD.
- COD load reduced by 3.66 Kg/day and TDS load decreased by 30.94 Kg/day.

Treatment System:

a) Trade Effluent:

Industry has segregated effluent into high COD/TDS & low COD/TDS Stream & provided separate treatment system as follows;

High COD/TDS Stream: High COD/TDS effluent is being treated in Stripper followed by Multi Effect Evaporator. Condensate from MEE mixed with Equalization cum neutralization Tank.

Low COD/TDS Stream: Primary, Secondary & tertiary treatment system followed by two stage Reverse Osmosis & treated effluent shall be partly recycled & balanced disposed of to the CETP for further treatment & disposal.

b) Domestic Effluent: Industry has provided the Sewage Treatment system (MBBR) with design capacity of 15 CMD for the treatment of 7 CMD sewage and treated sewage shall be used on land for gardening within premise.

(ii) Air Emission Load:

a. Fuel burning emissions

Sr. No.	Source	Before Product-mix		After Product Mix	
		Fuel	SO2 (Kg/day)	Fuel	SO2 (Kg/day)

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1.	Boiler-I (3 TPH)	Briquette-07 MT/Day	9.6	Briquette-07 MT/Day	9.6
2.	Boiler II or Thermopack	FO-0.85 MT/Day	18	FO-0.85 MT/Day	18
3.	DG Set 500 KVA	HSD-60 Lit/Hr	25.92	HSD-60 Lit/Hr	25.92
4.	DG Set 1100 KVA	HSD-60 Lit/Hr	25.92	HSD-60 Lit/Hr	25.92
5.	Fire DG Set	HSD-60 Lit/Hr	25.92	HSD-60 Lit/Hr	25.92

TPM load not submitted. No additional fuel burning source for proposed product mix.

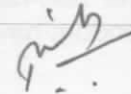
b. Process emissions

Sr. No.	Source	Before Product-mix	After Product Mix
		Kg/day	Kg/Day
1.	Process Reactors	340.36	310.59

- Existing utilities will not be changed.
- Industry is having Scrubbers to control process emissions- There will be no additional process vents from new products. Process emissions will be reduced by 29.77 Kg/day.

(iii) Hazardous Waste Load:

Sr. No.	Type of Waste	Cat. No.	Before Product mix	After Product mix	Remark
1	Used / spent Oil	5.1/ 5.2	200 kg/M	200 kg/M	No Change
2	Spent Solvent	20.2	190000 kg/M	190000 kg/M	No Change
3	Process Waste & Residue	28.1	35280 kg/M	34666 kg/M	Reduced by 614 Kg/M
4	Spent Catalyst/ Spent Carbon	28.2	8000 Kg/M	6845 kg/M	Reduced by 1155 Kg/M
5	Spent Catalyst/ Spent Carbon	28.2	2000 Kg/M	2000 Kg/M	No Change
6	Off Specification/ Discarded Drug, medicine product	28.4	1000 kg/M	1000 kg/M	No Change
7	Spent Mother Liquor	28.6	10 MT/M	10 MT/M	No Change
8	Spent Mother Liquor	28.6	17600 kg/M	17600 kg/M	No Change

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9	Spent organic Solvent	28.6	81300 kg/M	81300 kg/M	No Change
10	Discarded Containers/Barrel/ liner	33.1	100 Nos./M	100 Nos./M	No Change
11	Chemical Sludge from Wastewater treatment	35.3	6000 kg/M	5823 kg/M	Reduced by 177 Kg/M
12	Chemical Sludge, Oil & grease skimming residue	35.4	100 kg/M	100 kg/M	No Change
13	Cotton rags and other cleaning material	33.2	-	100 Kg/M	PP wishes to add new Category as per HW Notification.

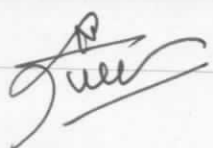
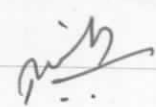
Overall Hazardous Waste quantity will be reduced.

Technical Committee Deliberations:

The project proposal was discussed on the basis of presentation made and documents- NIPL Certificate, NIPL proforma submitted by the proponent. Product wise 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. sd engineering services pvt. Ltd. vide letter SDES/ENV/NIP/2020-21/01 dated 26.10.2020 and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

- (i) The total tonnage of all products is 300.15 MT/M & after the change in product mix it will be 296.15 MT/M. PP informs that, the total quantity of production will be within the consented limits as mentioned in Consent to Operate Granted by Maharashtra Pollution Control Board. (65 MT/M).
- (ii) New Products proposed to be added belongs to the same category of existing products.
- (iii) The total Water requirement before product mix was 81.5 CMD & after product mix it will be reduced to 80.4 CMD. (Reduced by 1.1 CMD)
- (iv) The total effluent generation before product mix 37.23 CMD & after product mix it will be reduced to 36.78 CMD (Reduced by 0.45 CMD). PP has to submit quantity of strong & weak stream.
- (v) COD load reduced by 3.66 Kg/day and TDS load decreased by 30.94 Kg/day
- (vi) The major source of air pollution is from Process and Boiler. The company has provided Multi-cyclone and Bag filter to control Particulate Matter from Boiler and Stack of 30 m height for dispersion of SO₂. For process emissions like HCl and Acid Mist the company has provided Packed Bed Scrubber and stack. The quantification of individual parameter of process emissions not produced and it was advised to submit the same.
- (vii) Hazardous waste, Process Waste & Residue (28.1) will be reduced to 614 Kg/M, Chemical Sludge from WW (35.3) will be reduced to 177 kg/M & Spent Carbon (28.2) will be reduced by 1155 Kg/M. All other hazardous waste will remain same.
- (viii) The non-hazardous waste is collected scientifically and disposed off to approved vendors having permission from Maharashtra Pollution Control Board.

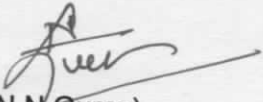
- (ix) PP produced Environmental Clearance granted on the name M/s Amri India Pvt Ltd. Dated 18/7/2016. PP informed that, they have received change in name in Environmental Clearance on 02/3/2017. It was advised to submit the name changed Environmental Clearance copy.
- (x) Capex of the unit increased by 4.0 Cr. PP informed that, Capex increased due to upgradation of fire frightening system, installation of sprinkling system to warehouse & safety valves to the Reactor vessel. There will no additional Plant & Machinery installation.

Technical Committee Decision:

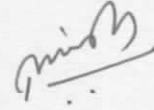
Technical Committee decided to recommend the case for change in product under product mix with a compliance of the following conditions;

- (i) Industry shall submit name changed Environmental Clearance copy.
- (ii) Industry shall submit segregated trade effluent quantity.
- (iii) Industry shall submit pollution load of individual parameter of process emissions.
- (iv) 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.
- (v) Industry shall submit the undertaking stating that, no plant & machinery will be installed, and production activity will be carried out in existing plant & machinery only.
- (vi) Industry should not manufacture any other product for which permission is not granted by the MPCB

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