Minutes of Second Sitting of 2<sup>nd</sup> meeting of Technical Committee (2022-23) for assessment of application of under change in product-mix

Date

: 25/08/2022

Venue

: 4th Floor, Conference Hall, Kalpataru Point, Sion, Mumbai &

Microsoft Team Video conferencing.

Agenda item No	No.1 MPCB-CONSENT-0000138247
Proposal No.	MPCB-CONSENT-GOOD Ltd
Project Details	M/s. Astec Lifesciences Ltd. K-2/1/1 Additional MIDC Mahad. Tal- Mahad, Dist - Raigad.
NIPL Certificate	NIPL certificate issued by M/s. Sadekar Enviro Engineers Pvt. Ltd., No. Nil, Dated.Nil.

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000138247 along with the copies of documents seeking for renewal of consent to operate for decrease in production quantity of one existing product and increase in production quantity of two existing products and proposed new six products, under change in product - mix under the provisions of EIA Notification, 2006 amended on 23/11/2016 & on 02/3/2021.

# **Exiting Clearances:**

- 1. Environmental Clearance granted vide No. F. No. J-11011/111/2011 -IA II(I), Date
- 2. Consent to Operate obtained vide No. Format 1.0 / AS(T) / UAN No. 0000074199/ O/CC- 1908000498, Date. 19.08.2019, valid upto 31.07.2022

Technical Committee Deliberations: The application 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 Sadekar Enviro Engineers Pvt. Ltd. and product -mix Proforma are taken on the record.

# After due deliberations, Committee noticed that:

PP has proposed to decrease the production quantity of one existing product and proposed to increase the production quantity of two existing products and i) proposed additional six new products.

There is no clarity about the new raw materials proposed for the chnag ein ii) product mix

There is no clarity on quantification and characteristics about the strong stream (High COD/TDS) and weak stream (Low COD/TDS) trade effluent for existing iii)

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products and in accordance with the change in product-mix along with details of treatment systems.

- iv) The PP has not shown the spent solvent in Hazardous Waste Category and there is no clarity about the new Hazardous Waste proposed to be generated from the new products, along with its separate quantification and its disposal path.
- v) There is no clarity about the changes in the emissions from existing and proposed new products and comparative solvent losses in existing and proposed changes.

### Technical Committee Decision:

Technical Committee decided to defer the case and asked PP to reassess their pollution load, along with the NIPL certificate and was advised the PP to furnish above details.

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Agenda Item No.	No. 2
Proposal No.	MPCB-CONSENT-0000138688
Project Details	M/s. Atul Bioscience Ltd., Plot no. N-37 MIDC, Anand Nagar, Additional Ambernath Industrial Area. TalAmbernath, Dist- Thane
NIPL Certificate	NIPL certificate issued by M/s. Institute Of Chemical Technology, No. Nil, Dated. 16.05.2022.

## Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000138688 along with the copies of documents seeking for Amendment in consent to operate for proposed new 81 Nos. of products, under change in product - mix under the provisions of EIA Notification, 2006 amended on 23/11/2016 & on 02/3/2021.

## **Exiting Clearances:**

- 1. Environmental Clearance granted vide No. SIA/MH/IND2/ 152225/2020, Date.
- 2. 1st Consent to Operate (Expansion) with change in product mix with renewal of existing consent to operate obtained vide No. Format 1.0 / CC /UAN No. 0000099414/CO- 2107000147, Date: 02:07:2021 valid upto 31:12:2025.

## Technical Committee Deliberations:

The application was discussed based on documents - NIPL Certificate and presentation made by the industry. Existing consent to operate, Environmental Clearance, NIPL Certificate issued by M/s. Institute of Chemical Technology and product -mix Proforma are taken on the record.

# After due deliberations, Committee noticed that:

- PP is engaged in manufacturing of API and Intermediates and having existing consent to operate for total 51 Nos of products along with their individual manufacturing quantities specified in the consent. PP has applied for the consent for change in product mix for total 137 Nos. of products. However, the presentation was made for existing and proposed products in group form of same category for total 137 products in 7 groups. However the Environmental Clearance and the Consent to Operate granted by the Board is for the individual products with their individual manufacturing quantities.
- Industry has proposed additional 81 Nos. of new products in group form along with existing products; however they have not obtained amendment in consent ii): to operate for existing products in group form.
- PP was unable to show the individual products to be manufacture along with its iii) quantities and pollution load. Also, was unable to show the comparative analysis of pollution load about the changes in existing products and additional new products.

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# **Technical Committee Decision:**

Technical Committee decided to defer the case and asked PP to reassess their pollution load and NIPL certificate and was advised the PP to furnish the details of pollution load in aspect of changes in raw material, effluent characteristics, emissions and Haz. Waste either in group form after amending the consent from the Board or by individual product wise.

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Agenda item No	Item No. 3
Proposal No.	MPCB-CONSENT-0000143055
Project Details	M/s. Resonance Specialties Limited., Plot No. T-140, MIDC Tarapur, Tal. & Dist Palghar
NIPL Certificate	NIPL Certificate issued by M/s. Goldfinch Engineering Systems Pvt. Ltd., dtd. 01.07.2022.

### Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000143055 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 02/3/2021.

### **Exiting Clearances:**

- Environmental Clearance is vide No. ENV(NOC)1093/2105/CR-321/D-I dated 13.09.1994.
- Consent to Operate obtained vide No. Format 1.0 / AS(T)/UAN No. 0000117838 / CR / 2201000193, dated 06.01.2022 valid upto 31.07.2026

### Project details:

### A. Production Details:

Sr. No	Name Of Product	Production as per CTO, MT/M	Addition (+)/ (- ) Deletion	Production after CIPM, MT/M
1	2-Cyno Pyridine			100
2	3-Cyno Pyridine	The same of the same		
3	4-Cyno Pyridine			
4	Pyridine (Distillation Product)			
5	Alpha Picolines (Distillation Product)			
6	Beta Picolines (Distillation Product)			
7	Gamma Picolines (Distillation Product)	132	0	132
8	2, 3 Lutidine (Distillation Product)			
9	2, 4 Lutidine (Distillation Product)	الاساليات		
10	2, 5 Lutidine (Distillation Product)			
11	2,6-Lutidine			
12	3_4-Lutidine			

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13	3, 5 Lutidine (Distillation Product)
14	2-3-5 Collidines (Distillation Product)
15	2,4,6-Collidine
16	Acetonitrile (Proposed Product)
17	Niacin (Proposed Product)
18	Ortho chlorobenzonitrile (Proposed Product)
19	Valeronitrile (Proposed Product)

· The industry has proposed change in the product mix in its existing facility by adding four new product of under same category of specialty chemicals, manufacturing by permutation and combination for the total production quantity 132 MT/M.

## B. Pollution load Details:

#### Water & Wastewater Aspect: i)

	Deloi	e Product	And in case of the last	Lindent								fluent COD TDS		COD TDS		
Sr. No.	Particulars	Quantity	Quantity genera		generation in CMD		n Strong		Weak		Strong		ak			
100.		MINERAL	Strong	Weak	Mg/I	Kg/Day	Mg/l	Kg/Day	Mg/I	Kg/Day	Mg/I	KgiDa				
1	Water Consumption	116		Not Applicable												
2	Trade Effluent	Generation			7.							_				
A	Process Activity	15	-	+				-								
В	Cooling Tower & Boiler	34	_	-				+6	17/4							
	Total	49	6.5	5.0	17338	112.7	200	1.0	75046	487.8	1120	5.6				
3	Domestic Effluent Generation, CMD	7.0	4	0			-									

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### After Product Mix

			Effic	ent		COL	)			TDS		
Sr. No.	Particulars	diculars Quantity		tion in	Str	ong	ALC: UNKNOWN	eak		ong	100	eak
	11/2000/19/2012	III GIII G	Strong	Weak	Mg/I	Kg/Day	Mg/I	Kg/Day	Mg/I	Kg/Day	Mg/I	Kg/Day
4	Water Consumption	116					No	t Applicab	le			
2	Trade Effluent	Generation					-			-		
A	Process Activity	15	-	-			= :	5			-	
В	Cooling Tower & Boiler	34	-	_		_				-		-
	Total	49	6.5	5.0	17338	112.7	200	1.0	75046	487.8	1120	5.6
3	Domestic Effluent Generation, CMD	7.0	4	0			-		-			

 After Change in product mix effluent and COD load remains same i.e 113.7 Kg/Day.

## Treatment System

## a) Trade Effluent:

Industry has segregated trade effluent into strong - 6.5 CMD & weak stream -5.0 CMD and provided treatment system as below.

Strong Stream: The concentrated effluent 6.5 CMD along with RO reject will be treated in MEE (15 CMD capacity) followed by ATFD.

Weak Stream: Condensate from MEE along with Primary treated low TDS stream from (washing & Utility Blow down) will be fed to the secondary treatment followed by tertiary treatment. Tertiary treated wastewater will be fed to RO (20 CMD capacity). RO permeate will be recycled in utilities & RO reject will be fed to MEE to achieve zero liquid discharge.

#### Air Emission Load: ii)

Sr. No.	Source	Fuel	Before Product mix	After Product Mix	Remarks	
1	Boiler-1 (4TPH)	Coal	12 MT/Day	12 MT/Day	No Change	
2	Boiler-2 (3TPH) (Standby)	Com	12 minosy	(Institution)	0.0000000000000000000000000000000000000	

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3	Thermic Fluid Heater (2 Lakh Kcal/Hr)	Natural Gas	200 m <sup>3</sup> /Day	200 m <sup>3</sup> /Day	No Change
4	Hot Air* Generator	Natural Gas	0.3 m <sup>3</sup> /hr**	0.3 m <sup>3</sup> /hr	No Change
5	D.G. Set	HSD	2.4 KL/Day	2.4 KL/Day	No Change
6	Process Stack-1 (Cyno Plant Reactor) Two Stage Scrubber	NA	NA	NA	No Change
7	Process Stack-2 (Pyridine & Picoline Reactors) Two Stage Scrubber	NA	NA	NA	No Change
8	Process Stack-3 Two Stage Scrubber	NA	NA	NA	No Change

	Air Emissions
Description	Solvent loss (Kg/Day)
Pollution Load from existing products	440.0
Pollution Load After Change in Product Mix	440.0

 Industry has not proposed any change in fuel and process emissions and the pollution load.

 Industry has provided three nos. two stage scrubbers to process stacks to control the process emissions.

iii) Hazardous Waste Load

1117	nazardous waste L	WAN				-	
Sr. No.	Type of Waste	ory No.	Produ ct Mix (MT/M)	After produ ct Mix (MT/M)	UOM	Disposal	Remark
1	Process Residue & Waste	28.1	9.9	9.9	MT/M	Co- processing to Cement Plant/ CHWTSDF	No change in quantity
2	Spent Catalyst	28.2	2.4	2.4	MT/M	Sale to Authorized Party/ CHWTSDF	No change in quantity
3	Chemical sludge from Waste water Treatment	35.3	3.5	3.5	MT/M	CHWTSDF	No change in quantity

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4	Empty Barrels/Containers /Liners contaminated with hazardous Chemicals/Wastes	33.1	200	200	Nos/M	Sale to Authorized Party/ CHWTSDF	No change in quantity
5	Contaminated Cotton Rags or other cleaning materials	33.2	0.5	0.5	MT/M	Co- processing to Cement Plant/ CHWTSDF	No change in quantity
6	Spent Carbon or Filter Media	36.2	25	25	Kg/M	CHWTSDF	No change in quantity
7	Concentration or evaporation residues	37.3	15	15	MT/M	CHWTSDF	No change in quantity
8	Spent Ion Exchange Resins containing toxic metals	35.2	25	25	Kg/M	CHWTSDF	No change in quantity
9	Used or spent oil	5.1	50	50	Lit/M	Sale to authorized party/ CHWTSDF	No change in quantity
10	Date Expired Products	28.5	0.06	0.06	MT/M	Co- processing to Cement Plant/ CHWTSDF	No change in quantity
11	Off Specification Products	28.4	0.06	0.06	MT/M	Co- processing to Cement Plant/ CHWTSDF	No change in quantity

 Total Hazardous Waste quantity will be remained unchanged after product mix.

### **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 Goldfinch Engineering Systems Pvt. Ltd. and product –mix Proforma are taken on the record.

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## After due deliberations, Committee noticed that:

- (I) The PP has applied for the proposed 4 New Products under the category of specialty chemicals. The PP has proposed to manufacture the new products in permutation and combination manner and the total production quantity will be remaining same after product mix i.e. 132 MT/M of Specialty chemicals.
- (II) The water consumption, trade effluent generation & organic load will remain same.
- (III) The overall Hazardous waste quantity after product mix will remains same.
- (IV) The overall pollution load is not increased after change in product mix

## **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.
- Industry should not manufacture any other product for which permission is not granted by the MPCB.
- (iii) Industry shall ensure connectivity of continuous online Monitoring System i.e. IP Camera and flow meter installed with data logger to ensure the Zero Liquid Discharge and data to be directly transmitted from data logger to the MPCB server.
- (iv) The Consent shall be issued with stringent norms for CEPI i.e TPM- 50 mg/NM3
- (v) The industry shall dispose the by-products as Hazardous waste and shall comply the provisions of Hazardous & Other Wastes (M & TM) Rules 2016.

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Agenda Item No.	No. 4
Proposal No.	MPCB-CONSENT-0000132386
Project Details	M/s. Aarti Industries Limited (Spack Division), Plot No. D-18, MIDC Tarapur, Tal. & Dist - Palghar.
NIPL Certificate	NIPL certificate issued by M/s. Aditya Environmental Services Pvt. Ltd., No. Nil, Dated. Nil.

#### Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000132386 along with the copies of documents seeking for amendment in consent to operate for increase in production capacity of Cyno Acetic Acid by 250 MT/M and change in the process by proposing the manufacturing of the product from Raw Material Mono Chloro Acetic Acid and additional new product Phenylephirine and reduction in the production quantity of one product Nitro Urasil, under change in product – mix under the provisions of EIA Notification, 2006 amended on 23/11/2016 & on 02/3/2021.

### **Exiting Clearances:**

- Environmental Clearance granted vide No. SEIAA-EC-0000000258, Date. 26.04.2018.
- Consent to Operate obtained vide No. Format 1.0 /AS(T)/ UAN No. MPCB-Consent- 0000124079/ CR- 2204001256, Date. 19.04.2022, valid upto 31.12.2024.

### **Technical Committee Deliberations:**

The application 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 Aditya Environmental Services Pvt. Ltd. and product –mix Proforma are taken on the record.

### After due deliberations, Committee noticed that:

- The PP has proposed to switch the manufacturing process of product CAA from distillation of crude to manufacturing from raw material. However, the presentation was lacking in the proposed new plant and machinery along with the proposed pollution control systems.
- ii) Industry has proposed to manufacture the CAA from raw material with increase in quantity instead of exisitng process of distillation of crude and there will be increase in pollution load. The presentation and NIPL certificate is lacking with respect to same.
- iii) The NIPL is calculated for the manufacturing of CAA from 250 MT/M to 500 MT/M. However, PP has proposed to change the manufacturing process of CAA from distillation of crude to manufacturing using raw material. Therefore, the NIPL shall be in accordance to manufacturing of CAA for total 500 MT/M and the presentation is lacking for this.

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- iv) The presentation was lacking with respect to the present effluent characteristics and proposed effluent characteristics due to change in manufacturing process.
- The presentation was lacking with respect to the present emissions and proposed emissions along with the comparison in pollution load due to change manufacturing process.
- vi) The presentation is lacking in clarity about the new Hazardous Waste proposed to be generated from the new products, along with its separate quantification and its disposal path.
- vii) There is no clarity about the changes in the emissions from existing and proposed new products and comparative solvent losses in existing and proposed changes.

### Technical Committee Decision:

Technical Committee decided to defer the case and asked PP to reassess their pollution load, along with the NIPL certificate and was advised the PP to furnish above details.

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Agenda Item No.	No. 5
Proposal No.	MPCB-CONSENT-0000141078
Project Details	M/s. Astec Lifesciences Ltd. Plot K-2-3-1 & K2-2 Additional Mahad MIDC, Tal- Mahad, Dist – Raigad.
NIPL Certificate	NIPL certificate issued by M/s. Aditya Environmental Services Pvt. Ltd.* No. Nil, Dated. 09.06.2022.

### Introduction:

This has reference to the online proposal submitted vide No. MPCB – CONSENT - 0000141078 along with the copies of documents seeking for Amendment in consent to operate by decreasing overall production quantity from 2225 MT/M to 900 MT/M by deleting some existing products, reduction in production quantity and addition of 6 new products in same category, under change in product – mix under the provisions of EIA Notification, 2006 amended on 23/11/2016 & on 02/3/2021.

## **Exiting Clearances:**

- Environmental Clearance granted vide No. File no IA-11011/31/2020-1A-II(I), dated 05/01/202.
- Consent to Operate obtained vide No. Format 1.0/CC/ UAN No. 0000113168/CO/ 2106001394, Date. 30.06.2021 valid upto 30.06.2026.

### **Technical Committee Deliberations:**

The application 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 Aditya Environmental Services Pvt. Ltd. and product –mix Proforma are taken on the record.

## Project details:

#### A Production Details

S.N.	Product Name	Cap	Capacity (MT/Month)				
		As per EC	As per CTO	Post product mix			
1	Dinotefuran	10	10	0	Product deletion		
2	Pyraclostrobin	25	25	10	Reduction		
3	SL 160	10	10	10	No change		
4	Trifloxystrobin	50	50	0.0	Product deletion		
5	Pyridydal	50	50	10	Reduction		
6	Tefluthrin	50	50	10	Reduction		
7	Paclobutrazol	40	40	20	Reduction		
8	Metalaxyl-M	15	15	15	Reduction		

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S.N.	Product Name	Cap	acity (MT/	Remark	
		As per EC	As per CTO	Post product mix	
9	Benzobicyclon	20	20	0	Product deletion
10	Fluridone (FLR)	5	5	5	No change
11	PCS-II	75	75	0	Product deletion
12	Orysastrobin	75	75	25	Reduction
13	Penconazole	15	15	10	Reduction
14	IBZ	50	50	15	Reduction
15	Metribuzin	75	75	25	Reduction
16	Pinoxaden	25	25	10	Reduction
17	Dimethachlor	50	50	0	Product deletion
18	Thiamethoxam	75	75	0	Product deletion
19	2,4-Dichloro-3,5- dinitrobenzotrifluoride	75	75	30	Reduction
20	Binfenazate	50	50	15	Reduction
21	Propaguizafop	50	50	15	Reduction
22	difluoro benzodioxolane	50	50	15	Reduction
23	lodosulfuron	20	20	15	Reduction
24	Fentrazamide	75	75	15	Reduction
25	Monosulfuran	75	75	15	Reduction
26	Prothioconazole	100	100	15	Reduction
27	Bifenthrin	50	50	50	No change
28	Cyflufenamid	40	40	15	Reduction
29	carfentrazone-ethyl	20	20	15	Reduction
30	Quizalofop	20	20	15	Reduction
31	Dimethomorph	20	20	0	Product deletion
32	Pyroxasulfone	15	15	15	No change
33	Mesosulfuran	25	25	15	Reduction
34	Metsulfuran	25	25	15	Reduction
35	Nicosulfuran	25	25	15	Reduction
36	FTR	20	20	10	Reduction
37	DMBA	15	15	15	No change
38	DSP	25	25	20	Reduction
39	ADMP	20	20	20	No change
40	Bensulfuran	100	100	20	Reduction
41	DCBP	100	100	20	Reduction
42	PMPC	20	20	20	No change
43	Tribenuron	100	100	10	Reduction

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S.N.	Product Name	Cap	acity (MT/	Remark	
		As per EC	As per CTO	Post product mix	
44	DCHP	20	20	20	No change
45	CDPP	20	20	20	No change
46	MY-170	10	10	10	No change
47	AMMT	25	25	25	No change
48	Fenpropymorph	100	100	10	Reduction
49	IMZ	120	120	30	Reduction
50	PDSH	50	50	50	No change
51	CYP	30	30	30	No change
52	DFNB	0	0	45.0	New Product
53	MSDP	0	0	15.0	New Product
54	ADTP	0	0	15.0	New Product
55	EPDC	0	0	20.0	New Product
56	ADBA	0	0	10.0	New Product
57	4-ADMP	0	0	10.0	New Product
	TOTAL	2225	2225	900	Overall capacity reduction by 60%

- The PP has proposed decrease in overall production quantity from 2225 MT/M to 900 MT/M by addition of 6 Nos. New Product capacity addition, deletion of 7 Nos. of product, reduction in capacity of 30 Nos of products.
- The new proposed products are in the same group of intermediates of Herbicides and fungicides (Agro Chemical) covered under activity 5(b) pesticide industry and pesticide intermediates without formulations

### B. Pollution load Details:

## i) Water & Wastewater Aspect:

	Water C	consumption	Effluent	Generation
	Existing	After Change in Product Mix.	As per existing mass balances	Proposed change in product mix
Process	231	166	500	360
Cooling & boiler	510	430		
Total Industrial	741	596	500	380

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Domestic	10	10	8	8
Green Belt	37	37	0	0
Total	788	643	508	388

 There will be reduction of 145 CMD in total fresh water requirement and the total effluent generation will be reduced from 508 CMD to 388 CMD i.e by 120 CMD after proposed change in product mix.

Effluent Treatment System:- Industry has provided Effluent Treatment Plant comprising Primary, Secondary and Tertiary treatment system and MEE and inhouse evaporation and the treated effluent is completely recycled back to achieve Zero Liquid Discharge. Industry has provided STP capacity 5 CMD (02 nos).

## ii) Air Emission Load: -

Stack	Stack attached to	APC provided	Stack height (m)	Fuel used	%5	Pollutants
no S1	Boiler	Dust	43	Briquettes 3200kg/Hr	0.5	TPM
	(20 TPH)	with bag filter	less to			SO2
-	The second second		30	LDO 120 lit/hr	1.8	TPM
S2	Thermic fluid	*	30	22.2 (22.2.0)		SO2
	10LKcal/hr		30	LDO 57.6 lit/hr	1.8	TPM
S2	Thermic fluid heater		30			SO2
	4LKcal/hr	Acoustic	ic 10 HSD 160lit/hr 1	1	TPM	
\$4	DG 500KVA	enclosure	10	THE STATE OF THE S		502
			10	HSD 160lit/hr	1	TPM
\$5	DG 500KVA	Acoustic	10	The state of the s	A Paris	502
11-1	-	enclosure	12	NA	NA	Acid Mist
S6	Process stack 1	Scrubber	12	NA	NA	Acid Mist
57	Process stack 2	Scrubber		NA NA	NA	Acid Mist
58	Process stack 3	Scrubber	12	NA NA	NA	Acid Mist
S9	Process stack 4	Scrubber	12		NA.	NA
S10	Flare Stack	-	20	NA .	1.140	-

 Industry has not proposed any change in fuel and process emissions and the pollution load will remain same.

Industry has provided in-house Solvent Recovery Plant.

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#### iii) Hazardous Waste Load

Sr.	Type of Waste	Category	HW G	eneration	Source of	Remarks
No .		(As per HOWM Rules, 2016)	Existing (as per EC / CTO)	After Change in Product Mix	Generation	
1	Used or spent oil	5.1	12 KL/A	12 KL/A	Plant maintenance	(no change)
3	Spent solvents	29.4	2400 KL/A	2400 KL/A	Process	(no change)
4	Spent catalyst	29.5	9.36 MT/A	9.36 MT/A	Process	(no change)
5	Empty barrels/containers/li ners contaminated with hazardous chemicals/wastes	33.1	240 MT/A	240 MT/A	Material handling	(no change)
6	Contaminated cotton rags or other cleaning materials	33.2	62.4 MT/A	62.4 MT/A	Plant maintenance	(no change)
7	Chemical sludge from waste water treatment	35.3	50 MT/A	50 MT/A	Waste water treatment	(no change)
8	Spent carbon or filter medium	36.2	156 MT/A	156 MT/A	Process	(no change)
9	Concentration or evaporation residue	37.3	1560 MT/A	1560 MT/A	Process	(no change)
10	Process wastes or residues	29.1	8252 MT/A	6252 MT/A	Process	(no change)
11	Process wastes or residues (ammonium chloride)	29.1	144.9 MT/M	57 MT/M	Process	(Reduction)
12	Process wastes or residues (potassium bromide)	29.1	22 MT/M	15 MT/M	Process	(Reduction)
12	Process wastes or residues (potassium chloride)	29.1	277.9 MT/M	65 MT/M	Process	(Reduction)
13	Process wastes or residues (sodium bromide)	29.1	13.2 MT/M	10 MT/M	Process	(Reduction)
14	Process wastes or residues (sodium bisulfite)	29.1	152.32 MT/M	43 MT/M	Process	(Reduction)
15	Process wastes or residues (triethyl amine	29.1	44.92 MT/M	8 MT/M	Process	(Reduction)

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Na.	Type of Waste	Category	HW Go	Source of	Remarks	
ir.	Type of Waste	(As per HOWM Rules, 2016)	Existing (as per EC / CTO)	After Change in Product Mix	Generation	
	hydrochloride)			4.5 MT/M	Process	(no change)
16	Process wastes or residues (bromoborane)	29.1	4.5 MT/M			(Reduction)
17	Process wastes or residues (phosphorous oxychionde)	29.1	40.2 MT/M	34MT/M	Process	None and a second
18	Process wastes or residues (pyridine hydrochloride)	29.1	52 MT/M	12.5 MT/M	Process	(Reduction)
19	Process wastes or residues (methanol)	29.1	130.4 MT/M	10 MT/M	Process	(Reduction)
20	Process wastes or residues (Hydrochloric Acid)	29.1	745 MT/M	402 MT/M	Process	(Reduction)
21	Process wastes or residues (Aq	29.1	20.9 MT/M	8.4 MT/M	Process	(Reduction)
22	Ammonia) Process wastes or residues (Poly Aluminum chloride)	29.1	371.3 MT/M	164MT/M	Process	(Reduction)
23	Process wastes or residues	29.1	65.7 MT/M	65.7 MT/M	Process	(no change)
24	(Chloroform) Process wastes or residues (Phenol)	29.1	8.8 MT/M	4.4MT/M	Process	(Reduction)
25	Process wastes or residues (Tetra N Butyl Ammonium sulfate)	29.1	2.2 MT/M	2.2MT/M	Process	(no change)
26	Process wastes or residues (Amidichloride)	29.1	35.8 MT/M	30MT/M	Process	(Reduction)
27		29.1	14.2 MT/M	14.2MT/M	Process	(no change)
29	THE RESIDENCE OF THE PARTY OF T	29.1	2.41 MT/M	1.2MT/M	Process	(Reduction)
30		29.1	148.08 MT/M	71MT/M	Process	(Reduction)
31		29.1	240.46 MT/M	60MT/M	Process	(Reduction)
32		29.1	1.2 MT/N	0.5MT/M	Process	(Reduction)

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Sr.	Type of Waste	Category	HW.G	eneration	Source of	Remarks
No		(As per HOWM Rules, 2016)	Existing (as per EC / CTO)	After Change in Product Mix	Generation	hikasidhi
	tungstate)					
33	Process wastes or residues (Ethanol)	29.1	31.9 MT/M	11.1MT/M	Process	(Reduction)
34	Process wastes or residues (Triethyl amine hydrochloride)	29.1	15.87 MT/M	8MT/M	Process	(Reduction)
35	Process wastes or residues (Sodium methyl sulfate)	29.1	46.84 MT/M	15.6MT/M	Process	(Reduction)
36	Process wastes or residues (Bromo succinamide)	29.1	68.75 MT/M	30MT/M	Process	(Reduction)
37	Process wastes or residues (Sodium sulphate)	29.1	10.35 MT/M	10.35MT/M	Process	(no change)
38	Process wastes or residues (magnesium chloride)	29.1	38.4 MT/M	20MT/M	Process	(Reduction)
39	Process wastes or residues (Disodium phosphate)	29.1	38.4 MT/M	21MT/M	Process	(Reduction)
40	Process wastes or residues (Disodium phosphate)	29.1	11.67 MT/M			
41	Process wastes or residues (Thio glutamic acid)	29.1	61,92 MT/M	150MT/M	Process	(Reduction)
42	Process wastes or residues (Thio glutamic acid)	29.1	99.12 MT/M			
43	Process wastes or residues (Thio glutamic acid)	29.1	19.87 MT/M			
44	Process wastes or residues (Thio glutamic acid)	29.1	24.87 MT/M		1	133
45	Process wastes or residues (Thio glutamic acid)	29.1	8.49 MT/M			
46	Process wastes or residues (Sodium chloro acetate)	29.1	10.98 MT/M	1MT/M	Process	(Reduction)
47	Process wastes or residues (Zincate chloride)	29.1	15.5 MT/M	1MT/M	Process	(Reduction)
48	Process wastes or residues (Sodium salt of methyl	29.1	11 MT/M	7MT/M	Process	(Reduction)

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Sr.	Type of Waste	Category HW Generation			Source of	Remarks
No		(As per HOWM Rules, 2016)	Existing (as per EC / CTO)	After Change in Product Mix	Generation	100000000000000000000000000000000000000
	sulfonic acid)		1		35 - 1	
49	Process wastes or residues (Sodium carbonate)	29.1	21.5 MT/M	2 MT/M	Process	(Reduction)
50	Process wastes or residues (Sodium acetate)	29.1	2.85 MT/M	2.6 MT/M	Process	(Reduction)
51	Process wastes or residues (Tetra n ammonium butyl bromide):	29.1	1.03 MT/M	0.8 MT/M	Process	(Reduction)
52	Process wastes or residues (Aq. Sulfuric acid)	29.1	31.4 MT/M	6.28 MT/M	Process	(Reduction)
53	Process wastes or residues (Triazole)	29.1	25.4 MT/M	18 MT/M	Process	(Reduction)
54	Process wastes or residues (Sodium chloride)	29.1	410.4 MT/M	260 MT/M	Process	(Reduction)
55	Process wastes or residues (Di isopropyl amine hydrochloride)	29.1	2.2 MT/M	0.8 MT/M	Process	(Reduction)
56	Process wastes or residues (Phosphorous chloride acid)	29.1	44.65 MT/M	34 MT/M	Process	(Reduction)
57	Process wastes or residues (Ammonium sulfate)	29.1	104.47 MT/M	80MT/M	Process	(Reduction)
58	Process wastes or residues (urea)	29.1	38.5 MT/M	7.5MT/M	Process	(Reduction)
59	Process wastes or residues (potassium bicarbonate+ hydrochloric acid)	29.1	21.29 MT/M	8MT/M	Process	(Reduction)

 There is overall reduction in total Hazardous Waste quantity and no new category is proposed.

### **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 Aditya

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Environmental Services Pvt. Ltd. and product -mix Proforma are taken on the record.

## After due deliberations, Committee noticed that:

- i) There is decrease in production capacity from existing 2225 MT/M to 900 MT/M there by reducing the total production quantity by 60%.
- ii) Consequently, there is reduction in water use, effluent generation, hazardous waste generation from the existing quantities
- iii) There is reduction in pollution load from consented capacities.
- iv) The company has Effluent treatment plant comprising of Primary, Secondary & Tertiary Treatment having ZLD system.
- v) PP has applied for amendment in Boiler fuel quantity from Kg/Day to Kg/Hr vide Application No. 0000007320.
- vi) There will be no change in process vents and No new utilities are proposed.

### Technical Committee Decision:

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

- 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.
- Industry should not manufacture any other product for which permission is not (ii) granted by the MPCB.
- Industry shall ensure connectivity of continuous online Monitoring System i.e. IP (iii) Camera and flow meter installed with data logger to ensure the Zero Liquid Discharge and data to be directly transmitted from data logger to the MPCB server.
- The Consent shall be issued with stringent norms for CEPI i.e TPM- 50 mg/NM3 (iv)
- The industry shall dispose the by-products as Hazardous waste and shall (v) comply the provisions of Hazardous & Other Wastes (M & TM) Rules 2016.

Agenda item No	No. 6
Proposal No.	MPCB-CONSENT-0000131177
Project Details	M/s. Anuh Pharma Limited., E-17/3 & E-17/4 Tarapur MIDC, Tal & Dist - Palghar
NIPL Certificate	NIPL Certificate issued by Ultra Tech QCI- NABET Accredited EIA consultant, dtd.08.04.2022

### Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000131177 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 02/3/2021.

### **Exiting Clearances:**

- Environmental Clearance is vide No. SEAC-2015/CR-268/TC-2, Date. 17.10.2016 from Envi. & Climate Change Department, Govt. of Maharashtra.
- Consent to Operate obtained vide No. Format 1.0/CC/UAN No. 0000078704/CO-1912000759, dated 13.12.2019 valid upto 31.12.2024.

## Project details:

#### A. Production Details:

Sr. No.	Product Name	Existing Quantity as per CTO (MT/M)	Proposed Total quantity as per Product Mix (MT/M)	Remarks	
1.	Erythromycin Salts				
	Pyrazinamide Salts			No change in production capacity	
	Chloramphenicol		52.5		
	Chloramphenicol Palmitate	52.5			
	Sulphadoxine				
	Ethambutol Hydrochloride				
	Clotrimazole				
2.	Cardiovascular products - Atorvastatin			No change in production	
	Losartan Potassium	20	20		
	Telmisartan	20	2.0	capacity	
5	Clopidogrel			сарасну	

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3.	Erythromycin Derivates  – Erythromycin	10	10	No change in production	
	Erythromycin Stearate	10		capacity	
	Erythromycin Estolate				
4.	Anti-Tuberculosis		20	No change in	
	Product - Ethambutol	20	20	production	
	Pyrazinamide			capacity	
5.	Gliptins -			No change in	
	Vildagliptin	2	2	production	
	Linagliptin			capacity	
	Teneligliptin			The state of the s	
6.	Olmesartan	2	2	No Change	
7.	Erythromycin 11,12 Carbonate	0.75	0.75	No Change	
8.	Erythromycin Ethyl Succinate	2.5	2.5	No Change	
9.	Rosuvastatin	1	0	Product to be removed	
10.	Pregabalin	5	0	Product to be removed	
11.	Levetricetam	10	10	No Change	
12.	Ambroxol HCI	5	5	No Change	
13.	Moxifloxacin HCI	0.75	0.75	No Change	
14.	Sulphodoxine	10	10	No Change	
15.	Sofobuvir	0.5	0	Product to be removed	
16.	Pentoprazole	9	0	Product to be removed	
17.	Saxagliptin	0.5	0.5	No Change	
18.	Sitagliptin	10	10	No Change	
19.	Acebrophylline	0	1	New Product	
20.	Allopurinol	0	5	New Product	
21.	Pyrimethamine	0	0.5	New Product	
22.	Gliclazide	0	9	New Product	
	TOTAL	161.5	161.5		

 The industry has proposed change in the product mix in its existing facility by adding four new products of under same category by removing the four existing products and the production quantity will remain same 161.5 MT/M.

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### B. Pollution load Details:

 Water & Wastewater Aspect: Water Consumption: -

Purpose	Existing Water Consumption	Water Consumption Break Up after change in product mix (CMD)
Industrial Cooling, spraying in mine pits or boiler feed	169	169
Domestic Purpose	29	29
Water gets Polluted & Pollutants are Biodegradable	135	132
Water gets Polluted, Pollutants are not Biodegradable & Toxic	0	0
Gardening	0	0
Other	0	0
Total	333	330

After change in product mix industry has proposed to decrease the total freshwater consumption by 3 CMD.

### After Product Mix:-

Product Name		Water Input	Pollution Load	
		Per Day		COD Kg/Day
Deleted Four Products Load	15.5 MT/M	7953 Lit./D	1413	1372
Proposed new Four Products load	15.5 MT/M	7921 Lit./D	572	459

· After Change in product mix effluent and COD load is reduced.

## **Treatment System**

a) Trade Effluent:

Industry has segregated trade effluent into strong stream & weak stream and provided treatment system to achieve Zero Liquid Discharge is as below.

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Strong Stream: Treated in separate treatment system which comprises of primary (design capacity of 100CMD) collection tank followed by stripper & multi effect evaporator (design capacity of 75 CMD).

Weak Stream: Condensate from MEE along with primary treated low stream treated in treatment system comprises ETP of capacity 130 CMD as 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) followed by Advance treatment (Reverse osmosis).

Sewage Treatment Facilities Provided: For sewage treatment industry has provided 30 CMD of STP on MBBR technology.

# ii) Air Emission Load: -

Sr.	Source	Fuel	Before Product mix	After Product Mix	Remarks
No.	Boiler No.1 and 2 (0.5 TPH each)	Bio diesel/ LDO	792 kg/hr	792 kg/hr	No Change
2	Boiler No. 3, 4 and 5 (1 standby) (1.5 TPH each)	LDO/ Briquette	5940 kg/hr	5940 kg/hr	No Change
3	DG Set- 1 (82.5 KVA)	HSD	30 kg/hr	30 kg/hr	No Change
4	DG Set- 2 (62.5 KVA)				
5	DG Set - 3 (150 KVA)	HSD	-	60 kg/hr	Proposed
6	DG Set - 4 (150 KVA)	100			
7	Thermic Fluid Heater	Briquettes	13200 kg/hr	13200 kg/hr	No Change

	Air Emissions
Description	HCL /Ammonia Kg/Day
Pollution Load from existing products	59.26
Pollution Load After Change in Product Mix	59.26

 Industry has not proposed any change in fuel and process emissions and the pollution load will remain same.

 Industry has provided two nos. scrubbers to process stacks to control the process emissions HCL & Ammonia.

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### iii) Hazardous Waste Load

Sr. No.	Type of Waste	Category (As per	Gene	rration	Source of Generation	Mode of Storage	Mode of Treatment	Remark
		Schedule )	Existing	After Change in Product Mix				
1	Spent Solvents (m3/Month)	28.6	100	100	Process	Drums	Sale to authorized recycler/re -processor	No change in quantity
2	Chemical sludge from wastewater treatment (MT/M)	35.3	25	25	Wastewater Treatment	Bags	CHWTSDF	No change in quantity
3	Spent Carbon (MT/M)	28.3	6.4	6.4	Boiler	Bags	CHWTSDF	No change in quantity
4	Empty barrels /containers /liners contaminated with hazardous chemicals /wastes (no./M)	33.1	5000	5000	From raw materials/ chemicals	Hazardous waste storage area	Sale to authorized party after decontami nation	No change in quantity
5	Dust or particulates from exhaust gas treatment. (MT/M)	15.3	1	1	From APC	Bags	CHWTSDF	No change in quantity
6	Concentration or evaporation residues (MT/day)	37.3	2.5	2.5	MEE	Drums	CHWTSDF	No change in quantity

 Total Hazardous Waste quantity will be remained unchanged after product mix.

### **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 Ultra Tech

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QCI- NABET Accredited EIA consultant and product -mix Proforma are taken on the record.

# After due deliberations, Committee noticed that:

- The PP has applied for the proposed 4 New Products and proposed to delete existing 4 products under the same category.
- (II) The water consumption, trade effluent generation & organic load will remain same.
- (III) The overall Hazardous waste quantity after product mix will remains same.
- (IV) The overall pollution load is not increased after change in product mix

## Technical Committee Decision:

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

- 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.
- Industry should not manufacture any other product for which permission is not granted by the MPCB.
- (iii) Industry shall ensure connectivity of continuous online Monitoring System i.e. IP Camera and flow meter installed with data logger to ensure the Zero Liquid Discharge and data to be directly transmitted from data logger to the MPCB server
- (iv) The Consent shall be issued after submission of justification/ clarification by the PP for the products and production quantities applied in consent form and submitted as per the presentation.
- (v) The industry shall dispose the by-products as Hazardous waste and shall comply the provisions of Hazardous & Other Wastes (M & TM) Rules.2016.

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# Minutes of Second Sitting of 2<sup>nd</sup> meeting of Technical Committee (2022-23) for assessment of application of under change in product-mix

Agenda Item No.	No. 7
Proposal No.	MPCB-CONSENT-0000130539
Project Details	M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd., At.: Shahajinagar, PO: Redni, Tal. Indapur, Dist.: Pune
NIPL Certificate	NIPL Certificate issued by M/s. Equinox Environments India Pvt. Ltd. Kolhapur dtd. 12.01.2022

## Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000130539 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 02/3/2021. Industry has obtained Consent to Operate on 11/10/2021 and put up the unit in operation & requested for amendment in consent to operate under product mix.

## Existing Clearances:

 Environmental Clearance is granted to the unit vide F.No. IA-J-11011/197/2008-IA-II (I) dtd. 17.03.2009.

2. Renewal of consent is granted by MPC Board vide No. format 1.0/CAC/UAN No. MPCB- CONSENT -0000115741/CR-2110000547 dated 11.10.2021 Valid up to 31.08.2022 for 30 KLPD Molasses based distillery.

## Project Details:

Industry is having existing 30 KLPD distillery & using C Heavy molasses as raw material to produce Rectified Spirit OR Extra Neutral Alcohol (ENA) OR Ethanol. Industry has proposed to switch over to raw materials namely 'B Heavy' Molasses and 'Cane Juice (Syrup)' from conventional 'C Molasses' under change in product-mix.

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Α.	Pro	ect	De	taı	ls:
F. Tr.	10.00	-	_		

Project Detai Particulars	Existing	After Product Mix
Capacity	30 KLPD	B-Heavy - 40 KPLD Cane Juice - 45 KLPD
Raw Material	C Molasses - 3600 MT/M	B Heavy Molasses - 3600 MT/M / Cane Juice - 19,350 MT/M
Production	Rectified Spirit - 30 KL/Day (900 KL/M) OR Extra Neutral Alcohol (ENA)- 845 KL/M OR Ethanol — 810 KL/M	Rectified Spirit from B-Heavy Molasses -1200 KLPM OR Rectified Spirit from Cane Juice - 1350 KLPM OR Extra Neutral Alcohol (ENA)-

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		1269 KL/M OR Ethanol -1215 KL/M
Co-product	CO <sub>2</sub> - 25 MT/Day	CO <sub>2</sub> - 25 MT/Day

## B. Pollution load Details:

## (i) Water & Wastewater Aspect:

Sr. No.	Particulars	Existing (30 KLPD)			After product mix (40 KLPD -B Molasses or 45 KLPD -Cane Juice)		
		Quantity in CMD	COD in mg/l	COD in Kg/day	Quantity in CMD	COD in mg/l	COD in Kg/day
1	Water Consumption in CMD	453 (Fresh- 453 CMD)	NA	NA	410 (Fresh- 322 CMD + Recycle- 88 CMD	NA	NA
2	Industrial Effluent generation						
A	Spent Wash in CMD	240	140000	33600	200	110000	22000
В	MEE Condensate + Spent Lees + Cooling B/d + Lab & Wash in CMD	103	2500	258	91	2250	205
	Total	343	-	33858	291	***	22205

# COD load will reduce by 11653 Kg/D

## Treatment System:

a. Spent wash Treatment:

Raw Spent wash treated in Bio-digester followed by reboiler and then to Bio-composting to achieve ZLD.

b. Other Effluent:

Industry has provided Effluent Treatment Plant (CPU) comprising Equalization Tank. Anaerobic Digester, Lamella Clarifier, Aeration Tank-I, Clarifier-I, Aeration Tank-II, Clarifier-II, MMF, ACF and treated effluent is recycled in the process.

(ii) Air Emission Load:

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Sr. No.	Particulars	Existing Fuel Consumption	After product mix fuel consumption	Remarks
01	Steam is taken from 66 TPH & 40 TPH Boilers of Sugar Factory.	Bagasse – 30 MT/Day.	Bagasse – 29 MT/Day.	Overall fuel consumption will be reduced resulting decrease in pollution load.

TPM load decreases from 643 Kg/D & 600 Kg/D.

### (iii) Solid Waste Load:

Sr. No.	Particulars	Existing (30 KLPD- C Molasses)	After product mix (40 KLPD – B Molasses or 45 KLPD –Cane Juice)	Remarks	
01	Yeast Sludge	180 KL/M	140 KL/M	Reducing to solid waste	the

### (iv) Hazardous Waste Load:

There is no generation of Hazardous Waste before & after product mix.

#### **Technical Committee Deliberations:**

The project proposal was discussed based on presentation made and documents-NIPL Certificate, NIPL proforms submitted by the proponent. Product wise load calculation in terms of wastewater and Air Emissions were discussed. Existing Consent to Operate, Environmental Clearance, No Increase in Pollution Load certificate issued by M/s. Equinox Environments India Pvt. Ltd., Kolhapur dtd. 12.10.2022 and product-mix proforma are taken on the record.

#### After due deliberations Committee noticed that:

- (i) The proposal submitted for Distillery unit; however, it is integrated Sugar & Distillery. 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. Committee advised to reduce the sugar production quantity by amending the sugar unit consent.
- There is overall reduction in water consumption, wastewater generation and Air Pollution Load.
- (iii) PP informed that, they have installed wet scrubber as an air pollution control system.

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(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.

- (i) The industry shall submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF & CC, the respective Zonal Office of CPCB & MPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the industry.
- Industry should not manufacture any other product for which permission is not granted by the MPCB.
- (iii) Industry shall ensure connectivity of OCEMS data to Board server.

(iv) Industry shall install the CO2 bottling plant.

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