Minutes of 1st meeting of Technical Committee (2021-22) for assessment of application of under change in product-mix

Date : 31/7/2021

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.	Shri. B.R.Naidu, Ex- Regional Director, CPCB, Vadodara	Member
5.	Dr. Anurag Garg, Prof IIT, Mumbai	Member
6.	Shri. Tuhin Banarjee,Scientist, NEERI, Mumbai	Member
7.	Shri N.N.Gurav, Regional Officer, HQ, MPCB	Member convener

Dr. Prakash P. Wadgaonkar, Chief Scientist, NCL, Pune could not attend the meeting. Leave of absence was granted to them.

The Chairman of the Committee welcomed the Committee members and the minutes of the 7th 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-0000110017**
Project Details	**SUN MOON PHARMACEUTICALS PVT. LTD** Plot No. N.65, MIDC area, Tarapur, Palghar
NIPL Certificate	NIPL Certificate issued by M/s SGM Enviro (India) Pvt. Ltd. Date: 09/6/2021

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-00000110017 along with the copies of documents seeking renewal of consent to operate with change in product under change in product-mix under the provisions of EIA Notification 2006 amended on 02/3/2021

Existing Clearances:

1. Environmental Clearance is granted to the unit vide SEAC-2010/CR303/TC.2 dated 30/12/2010

2. Consent to Operate is granted by MPC Board vide No. Format 1.0/AS(T)/UAN No. 0000005646/210300006 dated 02/3/2021 valid upto 31/3/2021

3. Industry has submitted proposal on PARIVSH portal on 30/7/2021

Project Details:

A. Products with change in product mix as below:

Sr. No.	Name of product	Existing Production Quantity in [Kg/M)	Production quantity after change in product mix (Kg/M)
1	Piroxicam	100	2000
2	Prochlore Perazine Maleate	50	0
3	7 Chloro Quinaldene	500	0
4	2 Benzoxyl Pyridine	200	0
5	Sodium Saccharin	500	500
6	Edetic Acid	1000	0
7	Boric Acid	2000	0
8	IPA HCL	500	0
9	Methanol HCL	500	0
10	Zinc Plating	0	0
11	Meloxicam	0	1000
12	Albendazole	0	2000
13	Clotrimazole	0	100
14	Isox Suprime	0	300
15	Lignocaine	0	1000
16	Sulphadoxine	0	400
Total :		**5350**	**7300**

As per Environmental Clearance accorded, maximum production quantity allowed 5350 Kg/M. There is enhancement in production quantity.

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	7.0	Not applicable					
2	**Trade Effluent Generation**							
A	Process Activity	1.5	Not submitted	Not submitted	Not produced		Not produced	
B	Cooling Tower & Boiler							
C	Total	1.5	--	--	---	--	---	--
3	Domestic Effluent Generation, CMD	0.5	0	0.5	...	....	...	...

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	7.0	Not applicable					
2	**Trade Effluent Generation**							
A	Process Activity	1.46	Not submitted	Not submitted	Not produced		Not produced	
B	Cooling Tower & Boiler							
C	Total	1.46	--	--	---	--	---	--
3	Domestic Effluent Generation, CMD	0.5	0	0.5	...	....	...	...

- No Change in water consumption
- Trade effluent hydraulic load will be reduced by 0.04 CMD
- Pollution load not submitted alongwith the application as well as not produced during presentation

Treatment System

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

Strong Stream: Primary, Stripper and Single stage Evaporator. MEE condensate used for cooling tower make up

Weak Stream: Primary, Oxidation followed by Tertiary treatment and treated effluent used for cooling tower make up.

Industry has achieved Zero Liquid Discharge. ETP adequacy report not submitted.

b) **Domestic Effluent:**
Sewage is treated by providing Septic Tank & Soak pit.

(ii) Air Emission Load:

Sr. No.	Source	Fuel	Before Product-mix	After Product Mix	Remarks
01	Boiler-I	LDO	50 Lit/Day	50 Lit/Day	No Change in fuel, no additional pollution load
02	Boiler-II	Coal	157.5 Kg/Day	157.5 Kg/Day	
03	Process Stack	NA	Not submitted	Not Submitted	---

- Existing utilities will not be changed
- Process Emission load not submitted.

(iii) Hazardous Waste Load

Sr. No.	Type of Waste	Category No.	Before Product Mix	After product Mix
1	Acid Residue	20.3	02 Kg/M	02 MT/M
2	Spent Catalyst	28.3	02 Kg/M	100 Kg/M
3	Discarded Containers	33.1	15 Nos/M	100 Nos/M
4	ETP Sludge	35.3	10 Kg/M	500 Kg/M

Hazardous Waste generation after product mix will be higher than the existing Environmental Clearance quantity.

Technical Committee Deliberations:

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

After due deliberations Committee noticed that:

i. PP has unable to show the product wise material balance, effluent generation, organic load.
ii. PP unable to show adequacy report of existing Effluent Treatment Plant
iii. PP unable to show process emission its concentration, load etc.
iv. The Hazardous Waste generation after product mix will be higher than the existing Environmental Clearance quantity.
v. The overall pollution load will be increased after change in product – mix. PP informed that, they will revisit the proposal and appear before committee.

Technical Committee Decision:

Technical Committee decided not to consider the application for change in product under product mix and deferred the case.

Agenda item No	**2**
Proposal No.	**MPCB-CONSENT-0000105276**
Project Details	**M/s. Lupin Ltd.** Plot No.- T-142, Survey No.30/10 to 30/13,64/7, MIDC Tarapur,Dist.-Palghar401 506
NIPL Certificate	NIPL certificate issued by Goldfinch Engineering Systems Pvt. Ltd.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000105276 along with the copies of documents seeking amendment in existing consent to operate under change in product –mix under the provision of EIA Notification 2006 amended on 02/3/2021

Exiting Clearances:

1. Environmental Clearance is granted to the industry vide (EC (Lupin)-2009/153/CR.167/TC.1) dated 16.11.2010 and amendment dated 04.11.2011.
2. The unit has valid consent to operate vide No. (Consent no. - Format 1.0/BO/CAC-Cell/UAN No. 0000049334 & 0000002513/5th CAC-1907000845 dated 23.07.2019) & valid till 30/04/2021
3. Industry has submitted proposal on PARIVSH portal on 09/7/2021

Project details:

A. Production Details:

Sr. No.	Name of product	Existing Production Quantity in [MT/A) as per C to O	Production quantity after change in product mix (MT/A)
1	Rifa S,Rifa O & Rifampicin	365	359
2	Rifaximin	45	45
3	Lovastatin	16	14
4	Simvastatin	40	30
5	Sertraline	69.5	80
6	Losartan potassium	50	65
7	Valsartan	20	15
8	Duloxetine	18	25
9	Irbesartan	15	5
10	Quetiapine Fumerate	60	60
11	Pyrazinamide	166.52	139

Sr. No.	Name of product	Existing Production Quantity in [MT/A) as per C to O	Production quantity after change in product mix (MT/A)
12	Levetiracetam	408	425
13	Colesevalam	0.1	0
14	Abacavir (Hydrochloride/ Sulphate)	16	16
15	Amlodipine Besilate	21	21
16	Escitalopram Oxalate	3	1.6
17	Tolterodine Tartarate	0	0.03
18	Celecoxib	18	18
19	Ethambutol	13	15
20	Fenofibrate/Choline Fenofibrate	37.52	37
21	Rifabutin	1	1
22	Zolpidem Tartarate	0.8	0.8
23	Imipramine pamoate/Imipramine Hcl	0.5	0.5
24	Lansoprazole	1	2.5
25	Rabeprazole	0.8	1
26	Risperidone	0.15	0.5
27	Azythromycin	2	2
28	Gatifloxacin	0.021	0.02
29	Ziprasidone	2	2
30	Desloratadine	0.5	0.6
31	Memantine	1.5	1.5
32	Eszopiclone	0.1	0.1
33	Feno SLS /Ethanamide	0.2	0
34	Tenofovir	5.5	6
35	Emticitabine	4	6.5
36	Ezetimibe	2	6
37	R & D batches	20	13
38	Ranolazine	25	25
39	Armodafinil	0.5	0.8
40	Capreomycin Sulfate	0.1	0.5
41	Calcium L-5-Methyltetrahydrofolate	0.1	0.1
42	Cysteamine Bitartrate	0	60
43	Rifapentine	0	20
44	Oseltamivir	0	3
45	Sodium Rifamycin SV	0	4.5
	Total	**1449.41**	**1528.55**

Industry have applied for Change in product mix by increasing their production quantity from 1449.41 MT/A to 1528.55 MT/A (5.46% increase over valid CTO quantity which was granted under product mix))

By-product Details:

Sr. No.	Name of By- product	Existing Quantity in [MT/A) as per C to O	Quantity after change in product mix (MT/A)
1	Trans sertraline	222.96	256.64
2	Piperazine di acetate	72.46	71.27
3	2 Amino 4 methyl Pyridine	8.87	9.98
4	Tributyl tin Chloride	26.78	20.09
5	Di Methyl Butanoic acid	37.24	27.93
6	R-R mandelate salt	88.49	101.86
7	Immidazole Hydrochloride	29.68	22.26
8	Tri Ethyl Amine	77.34	58.40
9	Mandelic acid	36.69	42.23
10	Di iso propyl ethyl amine	33.58	25.19
11	D2 Amino 1-Butanol (D2AB)	**0.0**	**5.53**
12	Recovered IPA	**0.0**	**96.94**
	Total	**634.09**	**738.32**

There will be increase in by-product quantity from 634.09 MT/A to 738.32 MT/A.

B. Pollution load Details:

(i) Water & Wastewater Aspect

Before Product Mix

Sr. No.	Particulars	Quantity in CMD	Effluent generation in CMD		COD		TDS	
			Strong	Weak	Mg/l	Kg/Day	Mg/l	Kg/Day
1	**Water Consumption***	**1993.5**	Not Applicable					
2	**Trade Effluent Generation**							
A	**Process Activity**	294.11	294.11	--	43505	12795	7465	5509.5
B	**From washing and Cooling Tower & Boiler**	738.0	--	738	865	638	4187	3090
	Total	**1032.1**	**294.11**	**738**	**---**	**13433**	**---**	**8599.5**

3	**Domestic Effluent Generation, CMD**	95.0	0	95	--	--	--	---

***This excludes domestic (120 CMD) & gardening (150 CMD) water consumption.**

After Product Mix:

Sr. No.	Particulars		Quantity in CMD	Effluent generation in CMD		COD		TDS	
				Strong	Weak	Mg/l	Kg/Day	Mg/l	Kg/Day
1	**Water Consumption***		**1993.5**	Not Applicable					
2	**Trade Effluent Generation**								
A	**Process Activity**	Existing products after reduction & addition	264.90	264.90	--	46244	12250.1	19895	5270.4
		New product	24.45	24.45	---	19673	481	8450	200.6
B	**From washing and Cooling Tower & Boiler**		738.0	--	738	865	638	4187	3090
	Total		**1027.35**	**289.35**	**738**	**---**	**13369.10**	**---**	**8561**
3	**Domestic Effluent Generation, CMD**		95.0	0	95	--	--	--	---

- Water Consumption will reduce by 3.70 CMD
- Hydraulic Load will reduce by 4.70 CMD
- COD load will reduce by 63.9 Kg/day

Treatment System

a) Trade Effluent:

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

Strong Stream: Industry has provided Effluent Treatment Plant comprising anaerobic Digester, Secondary (Activated Sludge Process), followed by

Reverse Osmosis, Multi Effect Evaporator & ATFD. Condensate reused in the process for various purposes.

Weak Stream: Industry has provided Effluent Treatment Plant comprising primary, Secondary (Activated Sludge Process), followed by Reverse Osmosis, Multi Effect Evaporator & ATFD. Condensate reused in the process for various purposes.

Domestic Effluent:

The domestic effluent (95 CMD) is combinedly treated along with primarily treated wastewater in secondary treatment followed by RO, MEE and ATFD.

Industry has achieved Zero Liquid Discharge.

(ii) Air Emission Load

Sr. No.	Source	Fuel	Before Product-mix	After Product Mix	Remarks
1	Boiler (12TPH)	FO	FO-937 MT/M	PNG-916 SCM/Hr	Switching over to cleaner fuel Natural Fuel
	Boiler (10TPH)				
2	Boiler (10TPH)			PNG-763 SCM/Hr	
				PNG-763 SCM/Hr	
3	Boiler (8 TPH x 2 nos)	Agro waste	Agro waste - 1903 MT/M	--	Will be dismantled
4	Boiler (8TPH)	Agro waste	Agro waste - 1150 MT/M	--	
5	Boiler (12TPH)	--	--	Natural Gas- 916 SCM/Hr	Newly installed. Utilizing cleaner fuel
6	Boiler (12TPH)	--	--	Natural Gas -916 SCM/Hr	
7	Process stacks- 1 to 27 Nos.	--	--	--	Stack No. 1 to 24 the air emission is of SO2 & HCl/Acid mist & for

					stack no. 25 to 27 emission will be Chlorine, SO2, HCl/ Acid mist.
8	Power Generator Set 2Nos. (2.5 MW each	FO	FO-414 MT/M	HSD-414 MT/M	Switching over to low sulphur fuel, resulting reduction in SO2 emission
9	D.G. Sets- 2 Nos. (2.5 MW each)	HSD	HSD-157 MT/M	HSD-157 MT/M	No change in fuel
10	D.G. Sets- 4 Nos. (1.2 MW each)				
11	D.G. Sets- 3 Nos. (1.6 MW each)				
12	Solvent Loss	--	1470.4 Kg/day	1443.4 Kg/day	Reduction

(iii) Hazardous Waste Load

Sr. No.	Type of Waste	Category No.	Before Product Mix (MT/Day)	After product Mix (MT/Day)	Remark
1	Used / Spent Oil	5.1	0.03	0.03	No change
2	Waste residue containing oil	5.2	0.02	0.02	No change
3	Spent Solvent/ Spent ML	20.2/28.5	292.3	265.74	Reduction
4	Distillation Residue	20.3/ 36.4	2.0	1.88	Reduction
5	Process Waste	28.1	3.68	5.637	Increase
6	Spent Carbon	28.2/35.3	0.5	0.95	Increase
7	Spent Catalyst	28.2	0.16	0.1	Reduction

8	Date expired discarded & off specification products	28.3/28.4	As & when generated	As & when generated	---
9	Discarded Containers/ Barrels/ Bags/ Liners	33.3	As & when generated	As & when generated	---
10	Chemical containing residue from decontamination	34.1	As & when generated	As & when generated	--
11	Dried Solids for Drier (Dry basis)	37.3	11.50	11.50	No Change
	Total	--	**310.19** MT/Day	**285.857** MT/Day	**Reduction in total quantity**

There will be reduction in total Hazardous Waste quantity after product mix.

Technical Committee Deliberations:

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

After due deliberations, Committee noticed that:

i. It was noted that the quantification of pollution was done considering-
   - Decreasing production quantity of the 9 nos. of existing products,
   - Increasing production quantity of the 14 nos. of existing products,
   - Removal of 2 nos of existing products and addition 5 nos of new products
   - Keeping same production quantity of 15 nos of existing products.

ii. Industry have applied for Change in product mix by increasing their production quantity from 1449.41 MT/A to 1528.55 MT/A (5.46% increase over valid CTO quantity)

iii. The water consumption, trade effluent generation & organic load will be reduced after product mix by 3.70 CMD, 4.70 CMD & 63.9 Kg/day respectively.

iv. Air emission i.e. solvent loss will be reduced after product mix from 1470.4 Kg/day to 1443.4 Kg/day.

v. Industry has applied with by-products and committee asked dispose the same as per the guidelines stipulated by CPCB & MPCB. PP agreed for the same and asked to upload the revised PPT on Boards portal.

vi. The overall Hazardous Waste quantity after product mix will be reduced from 310.19 MT/Day to 285.857 MT/Day.

vii. The overall pollution load will not be 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.
(ii) Industry shall dispose the By-product as per the guidelines stipulated by CPCB & MPCB.
(iii) Industry should not manufacture any other product for which permission is not granted by the MPCB
(iv) Industry shall install OCEMS and transmit the data to Board server regularly.

Agenda item No	**03**
Proposal No.	**MPCB-CONSENT-0000111287**
Project Details	**M/s. RPG Life Sciences Ltd.,** Plot No.- 25,25/A, MIDC Land, Thane-Belapur Road, Pawne, Navi Mumbai.
NIPL Certificate	NIPL certificate issued by Goldfinch Engineering Systems Pvt. Ltd.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000111287 along with the copies of documents seeking amendment in existing consent to operate under change in product –mix under the provision of EIA Notification 2006 amended on 02/3/2021

Exiting Clearances:

1. Environmental Clearance is granted to the industry vide SEIAA-EC-0000000471 dated 29.10.2018.
2. The unit has valid consent to operate vide No. Format 1.0/BO/CAC-Cell/UAN No. 0000067989/3rd CAC-1906000884 dated 19.06.2019 & valid till 30/04/2021.
3. Industry has submitted proposal on PARIVSH portal on 26/6/2021

Project details:

A. Products with change in product mix as below:

Sr. No.	Name of product	Existing Production Quantity in [MT/A)	Production quantity after change in product mix (MT/A)
1	**Anti-Psychotic**	9.300	6.800
	Haloperidol		
	Haloperidol Decanoate		
	Risperidone		
2	**Anti-Arrhythmic class I**	0.300	0.500
	Disopyramide Phosphate etc.		
3	**Anti-Diarrhoeal**	7.200	5.000
	Diphenoxylate HCL etc.		

Sr. No.	Name of product	Existing Production Quantity in [MT/A)	Production quantity after change in product mix (MT/A)
4	**Immunosuppressant**	16.800	25.200
	Azathioprine		
	Mycophenolate Mofetil		
	Mycophenolate Sodium etc.		
5	**Collinergic Blockers**	1.500	1.200
	Propantheline Bromide etc.		
6	**Anthelmentic**	8.400	9.000
	Quinfamide etc.		
7	**Anti-Thrombotic / Anti Platelet**	1.800	0.300
	Ticlopidine HCL etc.		
8	**Anti-Convulsant**	7.200	4.000
	Lamotrigine etc.		
9	**Anti-Ulcerant**	9.600	7.860
	Pantoprazole Sodium		
	Pantoprazole Sesquihydrate		
10	**Anti-Depressant**	6.000	5.500
	Sertraline HCL		
11	**Anti-Anginal**	1.800	2.500
	Nicorandil		
12	**Anti-Hypertensive**	0.360	2.400
	Tolvaptan		
	Benidipine.HCl		
	Solifenacin		
	Lercanidipine HCL **(Proposed product)**		
13	**Anti-Hyper parathyroid**	0.300	0.300
	Cinacalcet HCl etc.		
	Total	**70.560**	**70.560**

Overall total production quantity will remain same i.e. 70.56 MT/A after product mix.

B. Pollution load Details:

(i) Water & Wastewater Aspect

Before Product Mix

Sr. No.	Particulars	Quantity in CMD	Effluent generation in CMD		COD		TDS	
			Strong	Weak	Mg/l	Kg/Day	Mg/l	Kg/Day
1	Water Consumption	350 *		Not Applicable				
2	Trade Effluent Generation							
A	Process Activity	95.5	120		1706	204.77	1870	224.41
B	Cooling Tower & Boiler	24.5						
	Total	120	120		1706	204.77	1870	224.41
3	Domestic Effluent Generation, CMD	60	---		--	--	--	---

*** Domestic- 70 CMD + Industrial- 220 CMD + Gardening- 60 CMD**

After Product Mix

Sr. No.	Particulars	Quantity in CMD	Effluent generation in CMD		COD		TDS	
			Strong	Weak	Mg/l	Kg/Day	Mg/l	Kg/Day
1	Water Consumption	349.42 *	Not Applicable					
2	Trade Effluent Generation							
A	Process Activity	95.33	119.83		1684	201.82	1834	219.83
B	Cooling Tower & Boiler	24.5						
	Total	119.83	119.83		1684	201.82	1834	219.83
3	Domestic Effluent Generation, CMD	60	---		--	--	--	--

*** Domestic- 70 CMD + Industrial- 219.42 CMD + Gardening- 60 CMD**

- Water Consumption will reduce by 0.58 CMD
- Effluent generation will reduce by 0.17 CMD

- Average COD Load will reduce by 2.95 Kg/Day

Treatment System

Trade Effluent:
Industry has provided Effluent Treatment Plant comprising Primary (Equalization Tank, Neutralization Tank, Flash Mixer, Primary Settling Tank), Secondary (Activated Sludge Process) and Tertiary (Primary Sand Filter & Activated Carbon Filter). Treated effluent is connected to CETP.

Domestic Effluent:
Sewage primary treated in septic tank and its overflow connected to secondary treatment of Effluent Treatment Plant.

(ii) Air Emission Load:

Sr. No.	Source	Fuel	Before Product- mix	After Product Mix	Remarks
01	Boiler (2 MT/A)	FO/PNG	FO-105 Kg/Hr & PNG- 41.6 SCM/Hr	LDO (option)- 105 Kg/Hr & PNG- 41.6 SCM/Hr	FO replaced to LDO, qty remain same, SO2 generation will reduce from 226 Kg/day to 90.72
02	DG Set (625 KVA)	Diesel	Diesel-104 Kg/Hr	Diesel-104 Kg/Hr	**No Change**
03	Process Stack (5 nos)	NA	Not Applicable	Not Applicable	**NA**
04	Solvent Loss	NA	207.35 Kg/day	206.74 Kg/day	**Reduction**

- Existing utilities will not be changed. SO2 generation will reduce from 226 Kg/day to 90.72 Kg/day.
- Industry has provided scrubbers to control the process emissions. Process emissions will be SO_2, HCl/Acid Mist, H_2S.
- Solvent loss will reduce by 0.61 Kg/day

(iii) Hazardous Waste Load

Sr. No.	Type of Waste	Category No.	Before Product Mix(MT/A)	After product Mix(MT/A)	Remarks
1	Sludge & Filters contaminated with oil	3.3	3.0	3.0	No change
2	Used / Spent Oil	5.1	1.44	1.44	No change
3	Distillation Residue	20.3	5.4	5.12	Reduction
4	Process waste & Residue	28.1	323.0	322.64	Reduction
5	Spent Catalyst	28.2	1.5	1.03	Reduction
6	Spent Carbon	28.3	30.0	29.48	Reduction
7	Off Specification Products	28.4	0.72	0.72	No Change
8	Date expired, discarded & off specification drugs	28.4/28.5	2.88	2.88	No Change
9	Spent Solvent	28.6	186.56	184.37	Reduction
10	Mixed Solvent		671.0	667.69	Reduction
11	Empty Barrels / Containers/ Liners contaminated with Hazardous Chemicals/ Wastes	33.1	12.0	12.0 + 672 (mentioned in Non HW)	No Change
12	Spent Ion Exchange Resin containing Toxic Metals	35.2	0.36	0.36	No Change
13	Chemical sludge from wastewater treatment	35.3	40.0	40.0	No Change
14	Oil & Grease skimming residues	35.4	2.0	2.0	No change
15	Used Batteries	-----	0.36	0.36	No Change
16	E-Wastes	-----	2.5	2.5	No Change
17	Bio-Medical Waste (Category: Yellow & White Translucent)	-----	0.0	0.012	Newly introduced

Out of 17 category of Hazardous wastes, 9 category waste remains unchanged and quantity of 6 category waste will be reduced and BMW newly introduced. Total Hazardous Waste quantity will be reduced after product mix.

Technical Committee Deliberations:

The proposed project was discussed on the basis of documents – NIPL Certificate and presentation made by the industry. Product wise load calculation in terms of wastewater, Air emissions & Hazardous waste generation were discussed. Existing consent to

operate, Environmental Clearance, NIPL Certificate issued by Goldfinch Engineering Systems Pvt. Ltd and product –mix Proforma are taken on the record.

After due deliberations Committee noticed that:

(I) The total production quantity will be remaining same after product mix i.e. 70.56 MT/ A.

(II) The water consumption, trade effluent generation & organic load will be reduced after product mix by 0.58 CMD, 0.17 CMD & 2.95 Kg/day respectively.

(III) Committee noticed that, industry has not segregated trade effluent into strong & weak stream and not provided separate treatment for segregated trade effluent. PP agreed to submit the proposal for upgradation of ETP.

(IV) Air emission- SO2 emission will reduce from 226 Kg/day to 90.72 Kg/day and solvent loss will reduce by 0.61 Kg/day. Committee noticed that, there is possibility of NOx emissions as process involves Nitration process. PP informed that, there will be NOx generation and it will be added as process emissions & details of it will be submitted.

(V) The overall Hazardous Waste quantity after product mix will be reduced. Committee noted that, PP has not bifurcated 33.1 Category waste for Liners & Discarded containers separately. PP agreed for the same.

(VI) The overall pollution load will not be 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.

(ii) Industry shall submit the upgradation plan of Effluent Treatment Plant by segregating effluent stream into strong & weak stream.

(iii) Industry shall submit the NOx generation details.

(iv) Industry shall bifurcate 33.1 Category waste for Liners & Discarded containers separately and submit the details of the same.

(v) Industry should not manufacture any other product for which permission is not granted by the MPCB

(vi) Industry shall ensure connectivity of OCEMS data to Boards server and transmit the data continuously.

Agenda item No	**04**
Proposal No.	**MPCB-CONSENT-0000113613**
Project Details	**M/s. Ashu Organics(India) Pvt Ltd.,** Plot No.- A-64,MIDC SBI Bank, Badlapur, Tal.-Ambernath, Dist.-Thane
NIPL Certificate	NIPL certificate issued by Goldfinch Engineering Systems Pvt. Ltd.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000113613 along with the copies of documents seeking amendment in existing consent to operate under change in product –mix under the provision of EIA Notification 2006 amended on 02/3/2021

Exiting Clearances:

1. Environmental Clearance is granted to the industry vide SEAC-2013/CR-103/TC-2 dtd 27.06.2016 and amended on 31/5/2018
2. The unit has valid consent to operate vide No. Format 1.0/BO/AS(T)/UAN No. 0000069748/O/1909000057 dated 03.09.2019 & valid till 31/08/2024.
3. Industry has submitted proposal on PARIVSH portal on 19/7/2021

Project details:

A. Products with change in product mix as below:

Existing i.e. Before Product Mix

Sr. No.	Name of Product	Production (MT/M)
1	3 Thio Phenyl Thalo Nitrile	30
2	4 Amino 4 Carbamido Benzamide	40
3	6 Methyl Benzimidazolone	40
4	5 Nitro 6 Methyl Benzimidazolone	
5	meta nitro benzamide	
6	1-(2,4 Dichloro Phenyl)-1,2,4 Triazol-5 onl	40
7	Para Amino Benzamide	100
8	5 Amino 6 Methyl Benzimidazolone	
9	3 amino 4 carbmethoxy 2',5' dichloro benzanilide	

10	5 Amino Dimethyl Isophthalate	
11	Amino Terphthalic Acid Dimethyl Ester	
12	Amino Phenoxy Ester	
13	Amino Methyl Digo	
14	8 Amino Quinaldine	
15	3 Amino 4 Methyl Dimethyl Ester	
16	5 Amino Isophthalic Acid	
17	3 nitro 4 carbmethoxy nitrile	100
18	5 Nitro Isophthalic Acid	
19	5 Nitro Isophthalic Acid Dimethyl Ester	
	Total Production	350

Proposed: After Product Mix

Sr. No.	Name of Product	Production (MT/M)
1	3 Thio Phenyl Thalo Nitrile	1
2	3 nitro 4 carbmethoxy nitrile	1
3	2,4 dihydroxy 5 methoxy 4 methyl 3H 1,2,4 triazol3-one	20
4	3 nitro 4 chloro benzanilide	25
5	4 Amino 4 Carbamido Benzamide	
6	3 Nitro 4 methoxy benzanilide	
7	3 Nitro 4 carbmethoxy 2',5' dichloro benzanilide	
8	para nitro benzamide	60
9	Benzimidazolone	
10	nitro benzimidazolone	
11	6 Methyl Benzimidazolone (Path Change)	
12	5 Nitro 6 Methyl Benzimidazolone	
13	5-Aminobenzimidazolone (Amilon)	
14	meta nitro benzamide	
15	1-(2,4 Dichloro Phenyl)-1,2,4 Triazol-5 onl	1

16	4 hydrazino benzoic acid	
17	Para Amino Benzamide	100
18	5 Amino 6 Methyl Benzimidazolone	
19	3 amino 4 carbmethoxy 2',5' dichloro benzanilide	
20	5 Amino Dimethyl Isophthalate	
21	Amino Terphthalic Acid Dimethyl Ester	
22	Amino Phenoxy Ester	
23	Amino Methyl Digo	
24	8 Amino Quinaldine	
25	3 Amino 4 Methyl Dimethyl Ester	
26	5 Amino Isophthalic Acid	
27	3 amino 4 methoxy benzanilide	
28	3 nitro 4 carbmethoxy nitrile	50
29	5 Nitro Isophthalic Acid	
30	5 Nitro Isophthalic Acid Dimethyl Ester	
31	3 Nitro 4 carbmethoxy Benzoic Acid	
32	4 Nitro benzyle nitrile	
33	methyl diamine	35
34	2,3 diamine	53
35	4 Nitro Phenyl acetic acid	4
	Total Production	**350**

Overall total production quantity will remain same i.e. 350 MT/M after product mix.

B. Pollution load Details:

(i) Water & Wastewater Aspect

Before Product Mix

r. No.	Particulars	Quantity in CMD	Effluent generation in CMD		COD				TDS			
					Mg/l		Kg/Day		Mg/l		Kg/Day	
			Strong	Weak	Strong	Weak	Strong	Weak	Strong	Weak	Strong	Weak
1	Water Consumption	96.77	Not Applicable									
2	Trade Effluent Generation											
A	Process Activity	65.74	24.92	40.82	20409	615	508.6	37.4	48042	663	1197.2	40.3
B	Cooling Tower & Boiler	20.0	--	20	--		--		--		--	
	Total	85.74	24.92	60.82	20409	615	508.6	37.4	48042	663	1197.2	40.3
3	Domestic Effluent Generation, CMD	5.0		---	--		--		--		---	

After Product Mix

Sr. No.	Particulars	Quantity in CMD	Effluent generation in CMD		COD				TDS			
					Mg/l		Kg/Day		Mg/l		Kg/Day	
			Strong	Weak	Strong	Weak	Strong	Weak	Strong	Weak	Strong	Weak
1	Water Consumption	96.2	Not Applicable									
2	Trade Effluent Generation											
A	Process Activity	64.14	26.70	37.44	18738	635	500.3	36.5	44386	702	1185.1	40.3
B	Cooling Tower & Boiler	20.0	--	20	--		--		--		--	
	Total	84.14	26.70	57.44	18738	635	500.3	36.5	44386	702	1185.1	40.3
3	Domestic Effluent Generation, CMD	5.0		---	--		--		--		---	

- Water Consumption will reduce by 0.57 CMD
- Effluent generation is reduced by 1.60 CMD
- Average COD Load will reduce by 9.2 Kg/Day

Treatment System

a) Trade Effluent:

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

- **Strong Stream:** High TDS stream will be treated separately in MEE.
- **Weak Stream:** Condensate from MEE along with Low TDS stream from washing and utility blowdowns will be treated in conventional effluent treatment plant having Primary, Secondary and tertiary treatment.

Industry will dispose treated effluent to CETP for treatment and disposal as per existing CTO.

b) Domestic Effluent:

The domestic effluent is primarily treated in septic tank. Overflow from the septic tank pumped to bioreactor of Effluent Treatment Plant.

(ii) Air Emission Load:

Sr. No.	Source	Fuel	Before Product-mix	After Product Mix	Remarks
1	Boiler	Coal	100 Kg/Hr	100 Kg/Hr	No Change in fuel
		Briquette	200 Kg/Hr	200 Kg/Hr	
2	Thermopack	FO	20.83 Kg/Hr	20.83 Kg/Hr	No Change in fuel
3	D.G. Set (500 KVA)	Diesel	50 Kg/Hr	50 Kg/Hr	No Change in fuel
4	Solvent Loss	NA	945.8 Kg/day	801 Kg/day	Reduction

- Existing utilities will not be changed. Industry shall adopt cleaner fuel instead of Furnace Oil or install scrubber with 90% SO2 removal efficiency as per Board Circular
- Industry has provided scrubbers to control the process emissions.
- Solvent loss will reduce by 144.8 Kg/day

(iii) Hazardous Waste Load

Sr. No.	Type of Waste	Category No.	Before Product Mix(MT/M)	After product Mix(MT/M)
1	Spent Solvent	20.2	50	24.85
2	Distillation Residue	20.3	2.5	26.52
3	Spent Catalyst/ Spent Carbon	28.2/ 28.3	0.6	1.49
4	Discarded Container	33.1	2500 Nos/M	2500 Nos/M
5	ETP sludge	35.3	2.0	1.95
6	Residue & Waste- Mixed Salt From Evaporator	37.3	30.0	29.63

Out of 6 Hazardous wastes only one HW remains unchanged and 3 HWs will be reduced. Quantity of two categories will increase in post product mix. Total Hazardous Waste quantity will be reduced 520 Kg/M after product mix.

Technical Committee Deliberations:

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

After due deliberations Committee noticed that:

(I) The total production quantity will be remaining same after product mix i.e. 350 MT/M.

(II) The water consumption, trade effluent generation & organic load will be reduced after product mix by 0.57 CMD, 1.60 CMD & 9.2 Kg/day respectively.

(III) There is difference in cooling tower blowdown & boiler blowdown compared to Environmental Clearance. PP informed that, effluent due to cooling tower blow down is more however, the blow down of boiler is maintained as per EC (6.5 CMD). Hence, there will not be any fuel increment as blow downs of boiler is same. Cooling tower blow down is considered based on the standard norms (as per EC it is 4 CMD while in application it is considered as 13.5 CMD). Cooling towers blow down is not containing pollutants which will increase

pollution load. The total quantity of effluent from all sources put together is same as per EC.

(IV) Air emission- solvent loss will reduce by 144.8 Kg/day.

(V) The overall Hazardous Waste quantity after product mix will be reduced by 520 Kg/M.

(VI) The overall pollution load will not be 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.

(ii) 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's server and transmit the data continuously.

Agenda item No	**05**
Proposal No.	**MPCB-CONSENT-0000114571**
Project Details	**M/s. Deepak Nitrite Ltd.,** Plot No.- K-9 & K-10, MIDC Taloja, Tal.-Panvel, Dist.-Raigad.
NIPL Certificate	NIPL certificate issued by Goldfinch Engineering Systems Pvt. Ltd.

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000114571 along with the copies of documents seeking amendment in existing consent to operate under change in product –mix under the provision of EIA Notification 2006 amended on 02/3/2021

Exiting Clearances:

1. Environmental Clearance is granted to the industry vide F. No. J-11011/367/2016-IA-II(I) dated 03/1/2018 and amended on 05/4/2018.
2. The unit has valid consent to operate vide No. Format 1.0/AS(T)/UAN No. 0000005748/2103000011 dated 05.03.2021) & valid upto 28.02.2024
3. Industry has submitted proposal on PARIVSH portal on 13/7/2021

Project details:

A. Products with change in product mix as below:

Sr. No.	Name of product	Existing Production Quantity in [MT/M)	Production quantity after change in product mix (MT/M)
1	Toluidine (Ortho or Meta or Para)	150	125
2	Xylidine (2,3 or 2,4 or 2,5 or 2,6 or 3,5 or 3,4) or Xylidine Derivatives as Xylenol (2,3 or 2,4 or 2,5 or 2,6 or 3,5 or 3,4)	295	200
3	Cumidine (Ortho or Meta or Para)	270	200
4	Phenylenediamine (Ortho or Meta or Para)	50	30
5	Dimethylcyclohexanone (DMCH)	425	300

Sr. No.	Name of product	Existing Production Quantity in [MT/M)	Production quantity after change in product mix (MT/M)
6	Aminobenzotrifluoride (Ortho or Meta or Para) (Isomerization Stage Added)	150	360
7	Benzhydrol OR Cyclohexenylethylamine (CHEA) OR Homoveratrylamine (HVA OR 4-(2-Methoxyethyl) Phenol.(4 MEP)	100	85
8	a. Butanol, b. 3-Methyl Anisole, c. Aniline, d. 4-Bromo-3-Methyl Anisole OR Nitroxylene Nitrocumene OR Nitrotoluene OR	0	140
	Total	**1440**	**1440**

Overall total production quantity will remain same i.e. 1440 MT/M after product mix.

B. Pollution load Details:

(i) Water & Wastewater Aspect

Before Product Mix

Sr. No.	Particulars	Quantity in CMD	Effluent generation in CMD		COD		TDS	
			Strong	Weak	Mg/l	Kg/Day	Mg/l	Kg/Day
1	**Water Consumption**	**308**		Not Applicable				
2	**Trade Effluent Generation**							
A	**Process Activity**	60.6	74.6		924	68.9	2080	155.2
B	**Cooling Tower & Boiler**	14						
	Total	**74.6**	**74.6**		924	68.9	2080	155.2

3	**Domestic Effluent Generation, CMD**	7	---	--	--	--	---

After Product Mix

Sr. No.	Particulars	Quantity in CMD	Effluent generation in CMD		COD		TDS	
			Strong	Weak	Mg/l	Kg/Day	Mg/l	Kg/Day
1	**Water Consumption**	**305.7**	Not Applicable					
2	**Trade Effluent Generation**							
A	**Process Activity**	58.8	72.8		937	68.2	1691	123.1
B	**Cooling Tower & Boiler**	14						
	Total	**72.8**	**72.8**		937	68.2	1691	123.1
3	**Domestic Effluent Generation, CMD**	7	---		--	--	--	--

- Water Consumption will reduce by 2.3 CMD
- Effluent generation will reduce by 1.8 CMD
- Average COD Load will reduce by 0.7 Kg/Day

Treatment System

Trade Effluent:

Industry has provided Effluent Treatment Plant comprising Primary (Collection Tank, Equalization Tank, Flash Mixer, Primary Settling Tank), Secondary (Activated Sludge Process) and Tertiary (Primary Sand Filter & Activated Carbon Filter). Treated effluent is connected to CETP.

Domestic Effluent:

Sewage primary treated in septic tank and its overflow connected to secondary treatment of Effluent Treatment Plant.

(ii) Air Emission Load:

Sr. No.	Source	Fuel	Before Product - mix	After Product Mix	Remarks
01	Boiler-1 (IAEC), 4 TPH & TFH	FO	220.0 Kg/Hr	220.0 Kg/Hr	No Change in fuel
02	Boiler-2 (NESTLER), 5 TPH	FO	220.0 Kg/Hr	220.0 Kg/Hr	No Change in fuel
03	Hydrogenator-1 (Stream-ST-1A)	Nil	--	--	No Change
04	Hydrogenator-2 (Stream-ST-1B)	Nil	--	--	No Change
05	Hydrogenator-3 (Stream-ST-II)	Nil	--	--	No Change
06	D.G. Set (750 KVA)	HSD	450 Lit/Day	450 Lit/Day	No Change
07	Solvent Loss	---	87.2 Kg/Day	74 Kg/day	Reduction

- Existing utilities will not be changed. Industry shall adopt cleaner fuel instead of Furnace Oil or install scrubber with 90% SO2 removal efficiency as per Board Circular
- Solvent loss will reduce by 13.2 Kg/day

(iii) Hazardous Waste Load

Sr. No.	Type of Waste	Category No.	Before Product Mix(MT/M)	After product Mix(MT/M)
1	Used of Spent Oil	5.1	1.75	1.75
2	Distillation Residues	20.3	5.84	5.75
3	Exhaust Air or Gas Cleaning Residue	35.1	0.67	0.67
4	Chemical Sludge from wastewater treatment	35.3	1.29	1.27
5	Spent Chemicals/Spent Catalyst	32.1	0.42	0.42
6	By-Product: 2- Amino Benzo Trifluoride (2-ABTF)	20.4	24	21.7
7	By-Product: 4- Amino Benzo Trifluoride (4-ABTF)	20.4	35	34.7
	Total		68.97	66.26

Out of 7 category of Hazardous wastes, 03 HW remains unchanged and quantity of 4 category of HWs will be reduced in post product mix. Total Hazardous Waste quantity will be reduced after product mix.

Technical Committee Deliberations:

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

After due deliberations Committee noticed that:

(I) The total production quantity will be remaining same after product mix i.e. 1440 MT/M.
(II) The water consumption, trade effluent generation & organic load will be reduced after product mix by 2.3 CMD, 1.8 CMD & 0.7 Kg/day respectively.
(III) Air emission- solvent loss will reduce by 13.2 Kg/day. Committee noticed that, as per existing consent there is generation of process emissions in the form of Acid Mist/HCl. PP informed that, there will be no source of Acid Mist/HCl.
(IV) The overall Hazardous Waste quantity after product mix will be reduced.
(V) The overall pollution load will not be 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 segregate trade effluent into strong & weak stream and provide separate treatment for segregated effluent stream.
(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 should not manufacture any other product for which permission is not granted by the MPCB
(iv) Industry shall dispose the By-product as per the guidelines stipulated by CPCB & MPCB.
(v) Industry shall ensure connectivity of OCEMS data to Board's server and transmit the data continuously.

Agenda item No	**06**
Proposal No.	**MPCB-CONSENT-0000112073**
Project Details	**M/s. Godrej Industries Ltd.** Plot No. N-73, Additional Ambernath MIDC, Anand Nagar, Ambernath, District -Thane, Pincode – 421506
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-0000112073 along with the copies of documents seeking amendment in existing consent to operate under change in product –mix under the provision of EIA Notification 2006 amended on 02/3/2021

Exiting Clearances:

1. Environmental Clearance is granted to the industry vide F. No. J-11011/612/2010-IA II (I) dated 13th September 2012.
2. The unit has valid consent to operate vide No. Format 1.0/CAC/UAN No. 0000087690/CR-2006000744 dated 17.06.2020 valid upto 28.02.2025

Project details:

A. Products with change in product mix as below:

Sr. No.	Name of product	Existing Production Quantity in [MT/A)	Production quantity after change in product mix (MT/M)
1	Monocarboxylic Fatty Acid		
i	Fractionated Fatty Acid	16000	16000
ii	Distilled Fatty Acid & Specialty Fatty Acid	2000	2000
iii	Oleic Acid	10000	10000
iv	Stearic Acid	32000	31500
	Sub Total	60000	55000
2	Organic surface-active agent (Surfactants), detergent	17000	17000
3	Glycerin	10800	10800

Sr. No.	Name of product	Existing Production Quantity in [MT/A)	Production quantity after change in product mix (MT/M)
4	Fatty Easters and condensates	0	500
	Total	**87800**	**87800**

Overall total production quantity will remain same i.e. 87800 MT/M after product mix.

B. Pollution load Details:

(i) Water & Wastewater Aspect

Before Product Mix

Sr. No.	Particulars	Quantity in CMD	Effluent generation in CMD		COD		TDS	
			Strong	Weak	Mg/l	Kg/Day	Mg/l	Kg/Day
1	Water Consumption	991.5	Not Applicable					
2	Trade Effluent Generation							
A	Process Activity	460	460		2264.37	1041.61	660	303.43
B	Cooling Tower & Boiler							
	Total	**460**	**460**		**2264.37**	**1041.61**	**660**	**303.43**
3	Domestic Effluent Generation, CMD	50	---		--	--	--	---

After Product Mix

Sr. No.	Particulars	Quantity in CMD	Effluent generation in CMD		COD		TDS	
			Strong	Weak	Mg/l	Kg/Day	Mg/l	Kg/Day
1	Water Consumption	991.5	Not Applicable					
2	Trade Effluent Generation							
A	Process Activity	460						

B	**Cooling Tower & Boiler**		460	2260.28	1039.73	659.10	303.19
	Total	**460**	**460**	2260.28	1039.73	659.10	303.19
3	**Domestic Effluent Generation, CMD**	50	---	--	--	--	--

- Water Consumption will remain same
- Effluent generation will remain same
- Average COD Load will reduce by 1.88 Kg/Day

Treatment System

Trade Effluent:

Industry has provided Effluent Treatment Plant comprising Primary, Secondary and Tertiary Treatment system followed by Reverse Osmosis & Multi Effect Evaporator. Treated effluent is recycled in process so as to achieve ZLD.

Domestic Effluent:
Sewage primary treated in septic tank and its overflow connected to secondary treatment of Effluent Treatment Plant.

(ii) Air Emission Load:

Sr. No.	Source	Fuel	Before Product - mix	After Product Mix	Remarks
01	Hot Air generator (10 Lakh/Kcal)	LDO/PNG	85 Lit/Hr/100 SCM/Hr	85 Lit/Hr/100 SCM/Hr	No Change in fuel
02	HP Boiler (2 Nos. - 1 Standby)	FO + Pitch oil / LSHS + Pitch oil (70:30 ratio)	136 Lit/Hr	136 Lit/Hr	No Change in fuel
		PNG	171 SCM/Hr	171 SCM/Hr	
03	MP Boiler	FO + Pitch oil / LSHS + Pitch oil (70:30 ratio)	392 Lit/Hr	392 Lit/Hr	No Change

		PNG	493 SCM/Hr	493 SCM/Hr	
04	LP Boiler	FO + Pitch oil / LSHS + Pitch oil	1446 Lit/Hr	1446 Lit/Hr	No Change
		PNG	1820 SCM/Hr	1820 SCM/Hr	
05	LP Boiler	Briquette	65 MT/Day	65 MT/Day	No Change
06	Thermic fluid heater for erucic plant (15 Lakh Kcal/Hr)	FO / LDO	200 Lit/Hr	200 Lit/Hr	No Change
		PNG	305 SCM/Hr	305 SCM/Hr	No Change
07	Thermosyphon heater for distillation plant (10 Lakh Kcal/Hr)	FO / LDO	58 Lit/Hr	58 Lit/Hr	No Change
		PNG	89 SCM/Hr	89 SCM/Hr	No Change
08	Thermosyphon heater for distillation plant (4 Lakh Kcal/Hr)	FO / LDO	65 Lit/Hr	65 Lit/Hr	No Change
		PNG	99 SCM/Hr	99 SCM/Hr	No Change
09	Briquettes Fired Thermic Fluid Heater	Briquette	300 Kg/Hr	300 Kg/Hr	No Change
10	Process Stack of AOS	NA	NA	NA	No Change
11	Process stack for spray dryer	NA	NA	NA	No Change
12	DG Set (1.5 MW)	HSD	300 Lit/Hr	300 Lit/Hr	No Change

- Existing utilities will not be changed.

(iii) Hazardous Waste Load

Sr. No.	Type of Waste	Category No.	Before Product Mix(MT/A)	After product Mix(MT/A)
1	Used / Spent oil	5.1	03	03
2	Wastes / residue containing oil	5.2	01	01
3	Discarded asbestos gasket	15.2	02	02

4	Spent catalyst (Vanadium Pentoxide)	17.2	01	01
5	Empty barrels / containers / liners contaminated with hazardous chemicals / wastes	33.1	500	500
6	Spent ion exchange resin containing toxic metals	35.2	03	03
7	Chemical sludge from waste water treatment	35.3	1000	1000
8	Concentration or evaporation residues	37.3	600	600
9	Used RO membrane	35.1	1.2	1.2
10	Spent carbon or filter medium	36.2	01	01
11	Used glass wool	Other	05	05
12	Used filter bags	Other	02	02
13	Oil filters / Oil separators	5.2	01	01
14	ESP residue	Other	72	72
15	Sch II-A-68 Spent Nickel Catalyst	Other	85	85
16	By Product- Sulphuric Acid	Other	240	240

Total Hazardous Waste quantity will be reduced from 157 MT/A to 156.29 MT/A after product mix.

Technical Committee Deliberations:

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

After due deliberations Committee noticed that:

(I) The total production quantity will be remaining same after product mix i.e. 87800 MT/M.
(II) The water consumption & trade effluent generation will remain same & organic load will be reduced after product mix by 1.88 Kg/day.
(III) Industry has unable to show operational procedure of Effluent Treatment Plant. PP agreed to submit the same.
(IV) Air emission- Existing utilities will not be changed and there is no additional load.
(V) The overall Hazardous Waste quantity after product mix will be reduced.
(VI) The overall pollution load will not be 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 submit operational procedure of Effluent Treatment Plant.
(ii) Industry shall segregate trade effluent into strong & weak stream and provide separate treatment for segregated effluent stream.
(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 should not manufacture any other product for which permission is not granted by the MPCB
(v) Industry shall dispose the By-product as per the guidelines stipulated by CPCB & MPCB.
(vi) Industry shall ensure connectivity of OCEMS data to Board's server and transmit the data continuously.

Agenda Item No.	**7**
Proposal No.	MPCB-CONSENT-0000107143
Project Details	**Aarti Industries Ltd (SPACK),** Plot no. D-18, MIDC Tarapur, Tal.Palghar, Dist.: Palghar- 401 506
NIPL Certificate	NIPL Certificate issued by M/s. Aditya Environmental Services Private Limited vide letter dated 21st January 2021

Introduction:

Online proposal is received vide No. MPCB-CONSENT-0000107143 along with the copies of documents seeking amendment in existing consent to operate under change in product –mix under the provision of EIA Notification 2006 amended on 02/3/2021

Existing Clearances:

1. Environmental Clearance is granted to the unit vide SEIAA-EC -0000000258 dated 26th April 2018.

2. Consent to Operate is granted by MPC Board vide No. Format 1.0/BO/AST/UAN No. 0000059120/O/CC-1905000056 dated 02.05.2019, valid upto 31.12.2021

3. Industry has submitted proposal on PARIVSH portal on 13/7/2021

Project Details:

A. Products with change in product mix as below:

Sr. No	Product	Before Product Mix in MT/M	After Product Mix in MT/M
1	Sulphuric acid/ Oleum 25%/ Oleum 65%/ Liquid SO3 (Sulphuric anhydride)	6000	6000
2	Di Methyl Sulphate (DMS)	2000	2500
3	Di Ethyl Sulphate (DES)	1200	700
4	Di Methyl Urea (DMU)	600	600
5	Monomethyl Urea (MMU)	100	100
6	Sodium Vinyl Sulphonate (SVS)	300	300
7	Cyano Acetic Acid (CAA)	500	250
8	Cyano Acetyl Methyl Urea (CAMU)	300	50
9	Nitrosourasil	300	300
10	Di Methyl Aniline	18	518
11	Captive power plant	500 KW	500 KW
12	Spent acid (from DMS) [By-product]	45	53
13	Spent acid (from DES) [By-product]	2060	1199

14	20% Liquor Ammonia [By-product]	1305	1305
15	Ammonium Sulphate [By-product]	2550	1488
16	Sodium sulphate [By-product]	110	110
17	95% Acetic Acid [By-product]	318	138
18	35% Acetic Acid [By-product]	111	64
	Total *(excluding Captive power plant)*	**17817**	**15675**

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	1281	Not applicable					
2	**Trade Effluent generation**							
a	Process Activity	12	12	0	14800	180	48900	594
b	Cooling Tower & Boiler	140	37	103	880	123	17620	2467
	Total	**152**	**49**	**103**	**1995**	**304**	**20124**	**3062**
3	Domestic sewage	7	0	7	400	2.8	500	3.5

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	1242	Not applicable					
2	**Trade Effluent generation**							
a	Process Activity	8	8	0	12400	103	31800	264
b	Cooling Tower & Boiler	137	36	101	788	108	12700	1751
	Total	**145**	**44**	**101**	**1454**	**211**	**13873**	**2016**
3	Domestic sewage	7	0	7	400	2.8	500	3.5

- Water consumptions reduce by 39 CMD
- Effluent generation reduce by 07 CMD
- Organic Load will reduce by 92 kg/day

Treatment System:

Industry has provided combined Effluent Treatment Plant for domestic and trade effluent comprising Primary, Secondary & tertiary treatment system which consists of Collection tank, Neutralization tanks, dosing tanks, primary clarifier, aeration tank, secondary

clarifier tank, treated water collection tank, sand filter & carbon filter. For high TDS stream- Reverse osmosis plant and for high TDS/ COD- Evaporator has been provided.

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

- **Strong Stream:** For high TDS stream- Reverse osmosis plant and for high TDS/ COD- Evaporator provided
- **Weak Stream: ETP** comprising Primary, Secondary & tertiary treatment system which consists of Collection tank, Neutralization tanks, flash mixer, primary clarifier, aeration tank, secondary clarifier tank, treated water collection tank, sand filter & carbon filter.

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

b) **Domestic Effluent:**

The domestic effluent is primarily treated in septic tank. Overflow from the septic tank connected to secondary treatment of Effluent Treatment Plant.

(ii) Air Emission Load:

Fuel burning emissions

Sr. No.	Source	Fuel	Before Product - mix	After Product Mix	Remarks
01	Boiler (6 TPH)	Coal	1200 Kg/Hr	1200 Kg/H	No Change in fuel
02	Thermic Fluid Heater (4 Lakh Kcal/Hr)	FO	21 Kg/H	21 Kg/Hr	No Change in fuel
03	DG Set (500 KVA)	HSD	30 Lit/Hr	30 Lit/Hr	No Change
04	DG Set (1500 KVA)	HSD	60 Lit/Hr	60 Lit/Hr	No Change

No additional fuel burning source for proposed product mix.

Process emissions

Sr. No.	Source	Before Product-mix	After Product-mix
1.	Process reactor (H_2SO_4 plant)	Acid mist- 90 mg/Nm^3 SO_2- 250 mg/Nm^3	Acid mist- 90 mg/Nm^3 SO_2- 250 mg/Nm^3
2.	Sulphonation Reactor (DMS Plant)	SO_2- 50 ppm	SO_2- 50 ppm
3.	DES Reactor	SO_2- 50 ppm	SO_2- 50 ppm
4.	Sodium Vinyl Plant	SO_2- 50 ppm	SO_2- 50 ppm
5.	DMU/MMU Plant	SO_2- 50 ppm	SO_2- 50 ppm
6.	Ammonium Sulphate Plant	SO_2- 50 ppm	SO_2- 50 ppm

- Existing utilities will not be changed- Steam requirement will be reduced from 14.3 TPH to 14.2 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.

(iii) Hazardous Waste Load:

Sr. No.	Type of Waste	Category (As per Schedule)	Generation per Year		Remark
			Existing	After Change in Product Mix	
1.	Distillation Residues/ sludge and filter cake	17.1	6 MT/A	6 MT/A	No change
2.	Spent catalyst	17.2	255 Lit/A	255 Lit/A	No change
3.	Spent carbon	28.3	500 MT/A	25 MT/A	Reduction in quantity
4.	Discarded containers/ barrels/ liners	33.1	6 MT/A	1 MT/A	Reduction in quantity
5.	Chemical sludge from waste water treatment	35.3	100 Kg/M	100 Kg/M	No change

6.	Sludge from concentration technique (MEE)	37.3	330 MT/A	330 MT/A	No change
7.	Distillation Residues	20.3	0	14.4 MT/A	slight increase

There will be decrease in qty. of spent carbon (category 28.3) from 500 to 25 MT/A and Discarded containers/ barrels/ liners (category 33.1) from 6 to 1 MT/A.

There will be slight increase in qty. of Distillation Residues (category 20.3) by 14.4 MT/A. There will be overall reduction in Hazardous waste generation.

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 21st January 2021 and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

(i) Project proponent informed that there will be downward revision in some products quantity and proposed additional increase in some products quantity. The change will be carried out in existing plant with upgradation of plant equipment for which budget of Rs. 5.2 Cr is proposed.
(ii) The water consumption, trade effluent generation & organic load will be reduced after product mix by 39 CMD, 07 CMD & 92 Kg/day respectively.
(iii) There will be no change in flue gas emissions and process emissions.
(iv) The overall Hazardous Waste quantity after product mix will be reduced.
(v) The overall pollution load will not be 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.
(ii) Industry should not manufacture any other product for which permission is not granted by the MPCB

(iii) Industry shall dispose the By-product as per the guidelines stipulated by CPCB & MPCB.

(iv) Industry shall ensure connectivity of OCEMS data to Board's server and transmit the data continuously.

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