Minutes of 5th meeting of Technical Committee (2020-21) for assessment of application of under change in product-mix

Date : 25/7/2020

Venue : CISCO WEBEX 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.	Shri. Tuhin Banarjee,Scientist, NEERI, Mumbai	Member
6.	Shri N.N.Gurav, Regional Officer, HQ, MPCB	Member convener

Dr. Anurag Garg, Prof. IIT, Mumbai & Dr. Prakash P. Wadgaonkar, Chief Scientist, NCL, Pune could not attend the meeting. Leave of absence was granted to them.

The Chairman of the Committee welcomed the Committee members and the minutes of the 4th meeting of the Technical Committee (2020-21) were confirmed. Committee deliberated on the agenda items and following decisions were taken.

Agenda Item No.	1
Proposal No.	**MPCB-CONSENT-0000092277**
Project Details	**Innovassynth Technologies (I) Limited** Survey No.-9-24, Wasarang 34-36, Chinchwali,At-Khopoli, Tal.-Khalapur, Dist.-Riagad-410203
NIPL Certificate	NIPL Certificate issued by M/s. Goldfinch Engineering Systems Private Limited vide letter dated 29/4/2020

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000092277 alongwith the copies of documents seeking amendment in existing consent to operate under change in product-mix under the provisions of EIA Notification 2006 amended on 23/11/2016.

Existing Clearances:

1. Environmental Clearance is granted to the unit vide No. F. No. J-11011/20/2017-IA-II(I)) dated 12/04/2018

2. Consent to Operate is granted by MPC Board vide No. Format 1.0/BO/CAC-Cell/UAN No. 0000048838/3rd CAC-1808000653 dated 16/08/2018 valid up to 31.08.2023

Project Details:

A. Products with change in product mix as below:

Sr. No.	Name of the Product	Existing Production quantity in MT/M	Production quantity after change in product mix in MT/M
1	4–Fluoro Isoquinoline	0.00500	0.00000
2	Isosulfan Blue (2,5–Disulfophenyl Isomer)	0.00100	0.00000
3	2-(4-Morpholinyl)-8-Phenyl-[4H-1] - benzopyran-4-one	0.00840	0.00840
4	Cyclopropyl Methyl Bromide (CMB) OR CPMB	0.20000	0.05000
5	3'-Amino-5' OH Thymidine (Amino – T)	0.00050	0.00050
6	Substituted Triazine Derivative / CG 29-1127 / 4-[4,6-bis(2,4-dimethyl phenyl) - 1,3,5-triazine-2yl]-1,3 Benzenediol	75.00000	68.6710
7	Ethyl 2-Methyl-4-Pentenoate (EMPE)	0.00830	0.00000
8	Ethyl-4-Pentenoate	0.00830	0.00000
9	Norcamphor	0.01660	0.00660
10	5-Bromo-Indole	0.03000	0.00000
11	4-Pentenoic Acid	0.50000	0.02000
12	Methyl Tiglate	0.01660	0.00000
13	Ethyl-2-Methyl 3-4-Pentadienoate (EMPD)	0.00100	0.00000
14	3-3 Dimethyl Cyclohexanone (DMCH)	0.50000	0.05000
15	2-6 Diamino-9-(b-D-Ribo) Purine (DAP)	0.00500	0.00500
16	N-Bz-DMTMOE C OR (N-Benzoyl-(4,4'-dimethyoxytrityl)(methoxy ethyl)-cytidine) (PNS)	0.0833	0.0333
16.01	2'-MOE Cytidine		
16.02.	2'-MOE N-Benzoyl Cytidine (Diol)		
16.03	5'-ODMT-2'-MOE N-Benzoyl Cytidine-3'-OCEPA (Amidite)		
17	N-Benzoyl – 3 – Tritylamino 5 Phosphoramidite 2 – deoxy Adenosine (dA)	0.00050	0.00050
18	3 – Tritylamino 5 – Phosphoramidite N-Bz-Dc	0.00050	0.00050
19	N – Isobutyryl – 3- Tritylamino 5 – Phosphoramidite 2 – deoxy Guanosine (dG)	0.00050	0.00050
20	3 – Tritylamino 5 – Phosphoramidite Thymidine (dT)	0.00050	0.00050
21	4-Methyl –2-Thiomethyl Pyrimidine	0.04000	0.04000
22	4-Hydroxy isoleucine	0.10000	0.00000

23	4-HEXYL RESORCINOL	2.00000	2.00000
24	N^2 Phenyl Acetyl Guanosine OR N-iPAC dG OR dG(iPAC)	0.00400	0.00400
25	5' – ODMT, 2' – O – Cpep, 6N – Pivaloyl Adenosine	0.00100	0.00000
26	5' – ODMT, 2' – O – Cpep, N^2 – Ph – Ac – Guanosine	0.00100	0.00000
27	5' – ODMT, 2' – O – Cpep, 4 – N – Bz Cytidine	0.00100	0.00000
28	5' – ODMT, 2' – O – Cpep, Uridine	0.00100	0.00000
29	p-Nitro Phenyl Phosphate – Disodium Salt Hexahydrate OR PNPP DiNa	0.20000	0.20000
30	p-Nitro Phenyl Phosphate – Ditris Salt OR PNPP Ditris	0.01000	0.01000
31	5'-ODMT-2'MOE-T OR [5'-0 (4,4'-DIMETHOXY TRITYL) – 2'-0-(2-METHOXYETHYL) – THYMIDINE] (PNS)	0.1000	0.0500
31.01	2'-MOE Thymidine (Diol)		
31.02	5'-ODMT-2'-MOE Thymidine-3'-OCEPA (Amidite)		
32	N – BZ – 5' – ODMT – 2' – MOE – 5 – Me – C OR (5'-0 (4,4'-DIMETHOXY TRITYL)–2'-0-(2-METHOXYETHYL) N^4 –BENZOYL–5-METHYL- CYTIDINE) (PNS)	1.0000	0.0500
32.01	2'-MOE N-Benzoyl 5-Methyl Cytidine (Diol)		
32.02	5'-ODMT-2'-MOE N-Benzoyl 5-Methyl Cytidine 3'-OCEPA (Amidite)		
32.03	3'-ODMT-2'-MOE N-Benzoyl 5-Methyl Cytidine (Reverse PNS)		
32.04	3'-ODMT-2'-MOE N-Benzoyl 5-Methyl Cytidine 5'-OCEPA (Reverse Amidite)		
33	2' – FU AMIDITE OR (5'-0-(4,4'-DIMETHOXY TRITYL)-2'-FLUORO URIDINE-3'-[(2-CYANOETHYL)-(N,N-DI ISOPROPYL)]-PHOSPHORAMIDITE)	0.0020	0.0020
33.01	5'-ODMT-2'-Fluoro Uridine (PNS)		
33.02	5'-ODMT-N-Ac-2'-Fluoro Cytidine-3'-OCEPA (Amidite)		
33.03	5'-ODMT-N-Ac-2'-Fluoro Cytidine (PNS)		
34	5'-DMT-2'-OTBDMS-RNA PHOSPHORAMITE AND DERIVATIVES	0.400	0.0500
34.01	3',5'-Triflate Adenosine		
34.02	3',5'-Triflate 2'-OTBDMS-Adenosine		
34.03	N6-Benzoyl Adenosine (N6-Bz-A)		
34.04	3',5'-Triflate 2'-OTBDMS-N6-Benzoyl Adenosine		

34.05	2'-OTBDMS-N6-Benzoyl Adenosine		
34.06	5'-O-Dimethoxytrityl 2'-OTBDMS-N6-Benzoyl Adenosine (PNS)		
34.07	5'-O-Dimethoxytrityl 2'-OTBDMS-N6-Benzoyl Adenosine 3'-CEPA (Amidite)		
34.08	5'-O-Dimethoxytrityl 2'-OTBDMS-N6-Benzoyl Adenosine 3'-Succinate TEA salt		
34.09	3',5'-Triflate Guanosine		
34.10	N2-isobutyryl-Guanosine		
34.11	3',5'-Triflate 2'-OTBDMS-N2-Isobutyryl Guanosine		
34.12	2'-OTBDMS-N2-Isobutyryl Guanosine		
34.13	5'-O-Dimethoxytrityl 2'-OTBDMS-N2-Isobutyryl Guanosine (PNS)		
34.14	5'-O-Dimethoxytrityl 2'-OTBDMS-N2-Isobutyryl Guanosine 3'-CEPA (Amidite)		
34.15	5'-O-Dimethoxytrityl 2'-OTBDMS-N2-Isobutyryl Guanosine 3'-Succinate TEA salt		
34.16	N2-dmf-Guanosine		
34.17	3',5'-Triflate 2'-OTBDMS-N2-dmf Guanosine		
34.18	2'-OTBDMS-N2-dmf Guanosine		
34.19	5'-O-Dimethoxytrityl 2'-OTBDMS-N-DMF-Guanosine (PNS)		
34.20	5'-O-Dimethoxytrityl 2'-OTBDMS-N-DMF-Guanosine 3'-CEPA (Amidite)		
34.21	5'ODMT-2'OTBDMS-NAc-CYTIDINE		
34.22	3'5'-(Di-t-butyl-silyl) 2'-OTBDMS Cytidine (Triflate 2'-OTBDMS-Cytidine)		
34.23	Triflate 2'-OTBDMS-N4-Acetyl Cytidine		
34.24	2'-OTBDMS-N4-Acetyl Cytidine		
34.25	5'-O-Dimethoxytrityl-N4-Acetyl 2'-OTBDMS-Cytidine (PNS)		
34.26	5'-O-Dimethoxytrityl-2'-OTBDMS-N4-Acetyl Cytidine 3'-CEPA (Amidite)		
34.27	5'-O-Dimethoxytrityl-2'-OTBDMS-N-Ac-Cytidine 3'-O-succinate TEA salt		
34.28	3'5'-Triflate Uridine		
34.29	3'5'-Triflate 2'-OTBDMS-Uridine		
34.30	2'-OTBDMS Uridine		
34.31	5'-O-Dimethoxytrityl-Uridine		
34.32	5'-O-Dimethoxytrityl-2'-OTBDMS Uridine (PNS)		
34.33	5'-O-Dimethoxytrityl-2'-OTBDMS Uridine 3'-CEPA (Amidite)		
34.34	5'-O-Dimethoxytrityl-2'-OTBDMS-Uridine 3'-O-Succinate TEA salt		

34.35	5'ODMT-2'OTBDMS-N-Bz-Adenosine-3'-Isopropyl Phosphoramidite (Impurity)		
34.36	5'ODMT-2'OTBDMS-NiBu-Guanosine-3'-Isopropyl Phosphoramidite (Impurity)		
34.37	5'ODMT-2'OTBDMS-Ndmf-Guanosine-3'-Isopropyl Phosphoramidite (Impurity)		
34.38	5'ODMT-2'OTBDMS-N-Ac-Cytidine-3'-Isopropyl Phosphoramidite (Impurity)		
34.39	5'ODMT-2'OTBDMS-Uridine-3'-Isopropyl Phosphoramidite(Impurity)		
35	SODIUM BETA GLYCERO PHOSPHATE	1.00000	1.00000
36	7-BROMO 1HEPTENE	0.20000	0.20000
37	2,2 BIS [-(2INDENYL)BIPHENYL]ZICRONIUM(IV) CHLORIDE	0.05000	0.05000
38	L-METHIONINE SULFOXIME	0.01000	0.01000
39	4,4'--DIMETHOXYTRITYL CHLORIDE (DMT-CL)	1.00000	1.00000
40	1-CYANO CYCLOBUTANE-1,2-DICARBOXYLIC ACID DIMETHYL EASTER / TRANSDIACID	0.02000	0.02000
41	5'-DMT-C-ETHYL N-PROTECTED NUCLEOSIDE AND PHOSPHORAMIDITE	0.0304	0.0304
41.01	cEt N-Benzoyl Adenosine (Diol)		
41.02	5'-ODMT cEt N-Benzoyl Adenosine (PNS)		
41.03	5'-ODMT cEt N-Benzoyl Adenosine-3'-OCEPA (Amidite)		
41.04	cEt N-isobutryl Guanosine (Diol)		
41.05	5'-ODMT cEt N-isobutryl Guanosine (PNS)		
41.06	5'-ODMT cEt N-isobutryl Guanosine-3'-OCEPA (Amidite)		
41.07	cEt N-dmf Guanosine (Diol)		
41.08	5'-ODMT cEt N-dmf Guanosine (PNS)		
41.09	5'-ODMT cEt N-dmf Guanosine-3'-OCEPA (Amidite)		
41.10	cEt N-Benzoyl Cytidine (Diol)		
41.11	5'-ODMT cEt N-Benzoyl Cytidine (PNS)		
41.12	5'-ODMT cEt N-Benzoyl Cytidine-3'-OCEPA (Amidite)		
41.13	cEt N-Benzoyl 5-Methyl Cytidine (Diol)		
41.14	5'-ODMT cEt N-Benzoyl 5-Methyl Cytidine (PNS)		
41.15	5'-ODMT cEt N-Benzoyl 5-Methyl Cytidine-3'-OCEPA (Amidite)		

41.16	cEt N-Acetyl Cytidine (Diol)		
41.17	5'-ODMT cEt N-Acetyl Cytidine (PNS)		
41.18	5'-ODMT cEt N-Acetyl Cytidine-3'-OCEPA (Amidite)		
41.19	cEt N-Acetyl 5-Methyl Cytidine (Diol)		
41.20	5'-ODMT cEt N-Acetyl 5-Methyl Cytidine (PNS)		
41.21	5'-ODMT cEt N-Acetyl-5-Methyl Cytidine-3'-OCEPA (Amidite)		
41.22	cEt Uridine (Diol)		
41.23	5'-ODMT cEt Uridine (PNS)		
41.24	5'-ODMT cEt Uridine-3'-OCEPA (Amidite)		
41.25	cEt Thymidine (Diol)		
41.26	5'-ODMT cEt Thymidine (PNS)		
41.27	5'-ODMT cEt Thymidine-3'-OCEPA (Amidite)		
42	NAP SUGAR	0.1000	0.0500
42.01	Aldol Sugar		
43	ENA -PROTECTED NUCLEOSIDE & PHOSPHORAMIDITE		
43.01	ENA N-Bz Adenosine (Diol)		
43.02	5'-ODMT ENA N-Bz Adenosine (PNS)		
43.03	5'-ODMT ENA N-Bz Adenosine-3'-OCEPA (Amidite)		
43.04	ENA N-iBu Guanosine (Diol)		
43.05	5'-ODMT ENA N-iBu Guanosine (PNS)		
43.06	5'-ODMT ENA N-iBu Guanosine-3'-OCEPA (Amidite)		
43.07	ENA N-Bz Cytidine (Diol)		
43.08	5'-ODMT ENA N-Bz Cytidine (PNS)		
43.09	5'-ODMT ENA N-Bz Cytidine-3'-OCEPA (Amidite)		0.0010
43.10	ENA Thymidine (Diol)		
43.11	5'-ODMT ENA Thymidine (PNS)		
43.12	5'-ODMT ENA Thymidine-3'-OCEPA (Amidite)	0.0010	
44	E-TETRACETATE	0.2000	0.05000
45	TAC PROTECTED NECLEOSIDE & PHOSPHORAMIDITE		
45.01	N-Tac deoxy Cytidine (Diol)		
45.02	5'-ODMT N-Tac deoxy Cytidine (PNS)		
45.03	5'-ODMT N-Tac deoxy Cytidine 3'-CEPA (Amidite)	0.0500	0.0500
45.04	N-Tac deoxy Adenosine (Diol)		
45.05	5'-ODMT N-Tac deoxy Adenosine (PNS)		
45.06	5'-ODMT N-Tac deoxy Adenosine 3'-CEPA (Amidite)		

45.07	N-Tac deoxy Guanosine (Diol)		
45.08	5'-ODMT N-Tac deoxy Guanosine (PNS)		
45.09	5'-ODMT N-Tac deoxy Guanosine 3'-CEPA (Amidite)		
45.10	2'-OTBDMS N-Tac Cytidine (Diol)		
45.11	5'-ODMT 2'-OTBDMS N-Tac Cytidine (PNS)		
45.12	5'-ODMT 2'-OTBDMS N-Tac Cytidine 3'-CEPA (Amidite)		
45.13	2'-OTBDMS N-Tac Adenosine (Diol)		
45.14	5'-ODMT 2'-OTBDMS N-Tac Adenosine (PNS)		
45.15	5'-ODMT 2'-OTBDMS N-Tac Adenosine 3'-CEPA (Amidite)		
45.16	2'-OTBDMS N-Tac Guanosine (Diol)		
45.17	5'-ODMT 2'-OTBDMS N-Tac Guanosine (PNS)		
45.18	5'-ODMT 2'-OTBDMS N-Tac Guanosine 3'-CEPA (Amidite)		
45.19	2'-OMe N-Tac Cytidine (Diol)		
45.20	5'-ODMT 2'-OMe N-Tac Cytidine (PNS)		
45.21	5'-ODMT 2'-OMe N-Tac Cytidine 3'-CEPA (Amidite)		
45.22	2'-OMe N-Tac Adenosine (Diol)		
45.23	5'-ODMT 2'-OMe N-Tac Adenosine (PNS)		
45.24	5'-ODMT 2'-OMe N-Tac Adenosine 3'-CEPA (Amidite)		
45.25	2'-OMe N-Tac Guanosine (Diol)		
45.26	5'-ODMT 2'-OMe N-Tac Guanosine (PNS)		
45.27	5'-ODMT 2'-OMe N-Tac Guanosine 3'-CEPA (Amidite)		
46	5'-DMT-2'-MOE PROTECTED NUCLEOSIDE & PHOSPHORAMIDITE	0.1000	0.1000
46.01	2'-MOE N-Benzoyl Adenosine (Diol)		
46.02	5'-ODMT-2'-MOE N-Benzoyl Adenosine (PNS)		
46.03	5'-ODMT-2'-MOE N-Benzoyl Adenosine-3'-OCEPA (Amidite)		
46.04	2'-MOE N-Isobutryl Guanosine (Diol)		
46.05	5'-ODMT-2'-MOE N-Isobutryl Guanosine (PNS)		
46.06	5'-ODMT-2'-MOE N-Isobutryl Guanosine-3'-OCEPA (Amidite)		
46.07	2'-MOE N-dmf Guanosine (Diol)		
46.08	5'-ODMT-2'-MOE N-dmf Guanosine (PNS)		

46.10	5'-ODMT-2'-MOE N-dmf Guanosine-3'-OCEPA (Amidite)		
46.11	2'-MOE Uridine (Diol)		
46.12	5'-ODMT-2'-MOE Uridine (PNS)		
47	5'-DMT-2'-O-METHYL PROTECTED NUCLEOSIDE & PHOSPHORAMIDITIES		
47.01	2'-OMe N-Benzoyl Adenosine (Diol)		
47.02	5'-ODMT-2'-OMe N-Benzoyl Adenosine (PNS)		
47.03	5'-ODMT-2'-OMe N-Benzoyl Adenosine-3'-OCEPA (Amidite)		
47.04	2'-OMe N-isobutryl Guanosine (Diol)		
47.05	5'-ODMT-2'-OMe N-isobutryl Guanosine (PNS)		
47.06	5'-ODMT-2'-OMe N-isobutryl Guanosine-3'-OCEPA (Amidite)		
47.07	2'-OMe N-dmf Guanosine (Diol)		
47.08	5'-ODMT-2'-OMe N-dmf Guanosine (PNS)		
47.09	5'-ODMT-2'-OMe N-dmf Guanosine-3'-OCEPA (Amidite)		
47.10	2'-OMe N-Benzoyl Cytidine (Diol)		
47.11	5'-ODMT-2'-OMe N-Benzoyl Cytidine (PNS)		
47.12	5'-ODMT-2'-OMe N-Benzoyl Cytidine-3'-OCEPA (Amidite)		
47.13	2'-OMe N-Acetyl Cytidine (Diol)	0.1000	0.0500
47.14	5'-ODMT-2'-OMe N-Acetyl Cytidine (PNS)		
47.15	5'-ODMT-2'-OMe N-Acetyl Cytidine-3'-OCEPA (Amidite)		
47.16	5'-ODMT-2'-OMe Thymidine (PNS)		
47.17	5'-ODMT-2'-OMe Thymidine-3'-OCEPA (Amidite)		
47.18	5'-ODMT-2'-OMe Uridine (PNS)		
47.19	5'-ODMT-2'-OMe Uridine-3'-OCEPA (Amidite)		
47.20	2'-OMe-2,6-Diaminopurine Riboside or 2'-OMe DAPR		
47.21	3'-ODMT-2'-OMe N-Benzoyl Adenosine (Reverse PNS)		
47.22	3'-ODMT-2'-OMe N-Benzoyl Adenosine-5'-OCEPA (Reverse Amidite)		
47.23	3'-ODMT-2'-OMe N-isobutryl Guanosine (Reverse PNS)		
47.24	3'-ODMT-2'-OMe N-isobutryl Guanosine-5'-OCEPA (Reverse Amidite)		
47.25	3'-ODMT-2'-OMe N-Benzoyl Cytidine (Reverse PNS)		

47.26	3'-ODMT-2'-OMe N-Benzoyl Cytidine-5'-OCEPA (Reverse Amidite)		
47.27	3'-ODMT-2'-OMe N-Acetyl Cytidine (Reverse PNS)		
47.28	3'-ODMT-2'-OMe N-Acetyl Cytidine-5'-OCEPA (Reverse Amidite)		
47.29	3'-ODMT-2'-OMe Thymidine (Reverse PNS)		
47.30	3'-ODMT-2'-OMe Thymidine-5'-OCEPA (Reverse Amidite)		
47.31	3'-ODMT-2'-OMe Uridine (Reverse PNS)		
47.32	3'-ODMT-2'-OMe Uridine-5'-OCEPA (Reverse Amidite)		
48	ALLOFURANOSE SUGAR	0.01000	0.01000
49	TINUVIN -400	1.00000	0.50000
50	P-Anisyl Propanal	4.00000	0.50000
	ANETHOL	15.00000	15.00000
51	ALLOFURANOSE SUGAR	0.01000	0.01000
52	5'-ODMT-DEOXYNUCLEOSIDES, PHOSPHORAMIDITES AND SUCCINATE SALTS		
52.01	N-Benzoyl deoxy Adenosine (Diol)		
52.02	5'-ODMT N-Benzoyl deoxy Adenosine (PNS)		
52.03	5'-ODMT N-Benzoyl deoxy Adenosine-3'-OCEPA (Amidite)		
52.04	5'-ODMT N-Benzoyl deoxy Adenosine-3'-O-Succinate TEA Salt		
52.05	N-isobutryl deoxy Guanosine (Diol)		
52.06	5'-ODMT N-isobutryl deoxy Guanosine (PNS)		
52.07	5'-ODMT N-isobutryl deoxy Guanosine-3'-OCEPA (Amidite)		
52.08	5'-ODMT N-isobutryl deoxy Guanosine-3'-O-Succinate TEA Salt	**0.2000**	**0.2000**
52.09	N-dmf deoxy Guanosine (Diol)		
52.10	5'-ODMT N-dmf deoxy Guanosine (PNS)		
52.11	5'-ODMT N-dmf deoxy Guanosine-3'-OCEPA (Amidite)		
52.12	5'-ODMT N-dmf deoxy Guanosine-3'-O-Succinate TEA Salt		
52.13	N-Benzoyl deoxy Cytidine (Diol)		
52.14	5'-ODMT N-Benzoyl deoxy Cytidine (PNS)		
52.15	5'-ODMT N-Benzoyl deoxy Cytidine-3'-OCEPA (Amidite)		
52.16	5'-ODMT N-Benzoyl deoxy Cytidine-3'-O-Succinate TEA Salt		

52.17	N-Acetyl deoxy Cytidine (Diol)		
52.18	5'-ODMT N-Acetyl deoxy Cytidine (PNS)		
52.19	5'-ODMT N-Acetyl deoxy Cytidine-3'-OCEPA (Amidite)		
52.20	N-Benzoyl 5-Methyl deoxy Cytidine (Diol)		
52.21	5'-ODMTN-Benzoyl 5-Methyl deoxy Cytidine (PNS)		
52.22	5'-ODMT N-Benzoyl 5-Methyl deoxy Cytidine-3'-OCEPA (Amidite)		
52.23	5'-ODMT N-Benzoyl 5-Methyl deoxy Cytidine-3'-O-Succinate TEA Salt		
52.24	N-Acetyl 5-Methyl deoxy Cytidine (Diol)		
52.25	5'-ODMT N-Acetyl 5-Methyl deoxy Cytidine (PNS)		
52.26	5'-ODMT N-Acetyl-5-Methyl deoxy Cytidine-3'-OCEPA (Amidite)		
52.27	5'-ODMT N-Acetyl-5-Methyl deoxy Cytidine-3'-O-Succinate TEA Salt		
52.28	5'-ODMT deoxy Uridine (PNS)		
52.29	5'-ODMT deoxy Uridine-3'-OCEPA (Amidite)		
52.30	5'-ODMT deoxy Uridine-3'-O-Succinate TEA Salt		
52.31	5'-ODMT deoxy Thymidine (PNS)		
52.32	5'-ODMT deoxy Thymidine-3'-OCEPA (Amidite)		
52.33	5'-ODMT deoxy Thymidine-3'-O-Succinate TEA Salt		
52.34	deoxy Cytidine Monophosphate		
52.35	3'-ODMT N-Benzoyl deoxy Adenosine (Reverse PNS)		
52.36	3'-ODMT N-Benzoyl deoxy Adenosine-5'-OCEPA (Reverse Amidite)		
52.37	3'-ODMT N-isobutryl deoxy Guanosine (Reverse PNS)		
52.38	3'-ODMT N-isobutryl deoxy Guanosine-5'-OCEPA (Reverse Amidite)		
52.39	3'-ODMT N-Benzoyl deoxy Cytidine (Reverse PNS)		
52.40	3'-ODMT N-Benzoyl deoxy Cytidine-5'-OCEPA (Reverse Amidite)		
52.41	3'-ODMTN-Benzoyl 5-Methyl deoxy Cytidine (Reverse PNS)		
52.42	3'-ODMT N-Benzoyl 5-Methyl deoxy Cytidine-5'-OCEPA (Reverse Amidite)		
52.43	3'-ODMT N-Acetyl 5-Methyl deoxy Cytidine (Reverse PNS)		
52.44	3'-ODMT N-Acetyl-5-Methyl deoxy Cytidine-5'-OCEPA (Reverse Amidite)		
52.45	3'-ODMT deoxy Uridine (Reverse PNS)		

52.46	3'-ODMT deoxy Uridine-5'-OCEPA (Reverse Amidite)		
52.47	3'-ODMT deoxy Thymidine (Reverse PNS)		
52.48	3'-ODMT deoxy Thymidine-5'-OCEPA (Reverse Amidite)		
52.49	5'-ODMT N-Acetyl deoxy Cytidine (PNS) (Pharma Grade)		
52.50	5'-ODMT N-isobutryl deoxy Guanosine (PNS) (Pharma Grade)		
52.51	5'-ODMT deoxy Thymidine (PNS) (Pharma Grade)		
52.52	3'-O-Phthalimido-thymidine (dT)		
52.53	3'-O-Phthalimido-2'-Deoxy Cytidine		
52.54	3'-O-Phthalimido-2'-Deoxy Adenosine		
52.55	3'-O-Phthalimido-2'-Deoxy Guanosine		
53	DMT-LNA-NUCLEOSIDES & PHOSPHORAMIDITES		
53.01	LNA N-Benzoyl Adenosine (Diol)		
53.02	5'-ODMT LNA N-Benzoyl Adenosine (PNS)		
53.03	5'-ODMT LNA N-Benzoyl Adenosine-3'-O-CEPA (Amidite)		
53.04	5'-ODMT LNA N-Benzoyl Adenosine-3'-O-Succinate TEA salt		
53.05	LNA N-DMF Guanosine (Diol)		
53.06	5'-ODMT LNA N-DMF Guanosine (PNS)		
53.07	5'-ODMT LNA N-DMF Guanosine-3'-O-CEPA (Amidite)		
53.08	5'-ODMT LNA N-DMF Guanosine-3'-O-Succinate TEA salt		
53.09	LNA N-Benzoyl 5-Methyl Cytidine (Diol)		
53.10	5'-ODMT LNA N-Benzoyl 5-Methyl Cytidine (PNS)	0.1000	0.1000
53.11	5'-ODMT LNA N-Benzoyl 5-Methyl Cytidine-3'-O-CEPA (Amidite)		
53.12	5'-ODMT LNA N-Benzoyl 5-Methyl Cytidine-3'-O-Succinate TEA salt		
53.13	LNA Thymidine (Diol)		
53.14	5'-ODMT LNA Thymidine (PNS)		
53.15	5'-ODMT LNA Thymidine-3'-O-CEPA (Amidite)		
53.16	5'-ODMT LNA Thymidine-3'-O-Succinate TEA salt		
53.17	LNA Uridine (Diol)		
53.18	5'-ODMT LNA Uridine (PNS)		
53.19	5'-ODMT LNA Uridine-3'-O-CEPA (Amidite)		

53.20	5'-ODMT LNA Uridine-3'-O-Succinate TEA salt		
53.21	LNA N-Benzoyl Cytidine (Diol)		
53.22	5'-ODMT LNA N-Benzoyl Cytidine (PNS)		
53.23	5'-ODMT LNA N-Benzoyl Cytidine-3'-O-CEPA (Amidite)		
53.24	5'-ODMT LNA N-Benzoyl Cytidine-3'-O-Succinate TEA salt		
53.25	3'-ODMT LNA N-Benzoyl Adenosine (Reverse PNS)		
53.26	3'-ODMT LNA N-Benzoyl Adenosine-5'-O-CEPA (Reverse Amidite)		
53.27	3'-ODMT LNA N-DMF Guanosine (Reverse PNS)		
53.28	3'-ODMT LNA N-DMF Guanosine-5'-O-CEPA (Reverse Amidite)		
53.29	3'-ODMT LNA N-Benzoyl 5-Methyl Cytidine (Reverse PNS)		
53.30	3'-ODMT LNA N-Benzoyl 5-Methyl Cytidine-5'-O-CEPA (Reverse Amidite)		
53.31	3'-ODMT LNA Thymidine (Reverse PNS)		
53.32	3'-ODMT LNA Thymidine-5'-O-CEPA (Reverse Amidite)		
54	GALNAC ACYCLIC SUCCINATE	0.0028	0.0028
54.01	TriGalNAc CBz		
54.02	GalNAc Hydroxy Proline Succinate		
54.03	THA(PA-DAP)3-CBz		
54.04	(GalNAC-2'-O-PA-DAP)3 THA. TFA Salt)		
54.05	5-ODMTr-3-OTBS-N-Oxododecanoic Acid.TEA Salt		
55	NOOTKATONE	0.40000	0.46670
56	4-AMINOBENZONITRILE	0.16600	0.16600
57	Diethyl L-(+) tartrate	0.16600	0.04600
58	DL -LACTIDE	0.00830	0.00830
59	DIETHYLAMINO MALONATE HCl	0.25000	0.25000
60	ACRYLAMIDE PURIFIED	0.10000	0.50000
61	ETHYLENEDIAMINETETRAACETIC ACID METAL CHELATE SALTS	0.00300	0.00050
62	SODIUM SELENITE PENTAHYDRATE	0.00300	0.00050
63	2,4Dihydroxy Benzophenone	1.00000	0.00100
64	Peonile	1.00000	0.00100
65	R&D Products (Intermidiate chemicals)	0.4000	0.4000
65.01	TC U Amidite		
65.02	2-Isopentyl-2-Isopropyl-1,3-Dimethoxy propane (R5)		
65.03	4-Butyl Resorcinol		
65.04	3G Metallocene		
65.05	4-Hydroxy Cinnamic acid		

65.06	6-Amino Hexanol		
65.07	1,2-Bis(3-indenyl)ethane (EBI)		
65.08	3-Methyl cyclopent-2-en-1-one (3MCO)		
65.09	4-Methyoxy Trityl Chloride		
65.10	2-Cyanoethyl-N,N,N',N'-tetraisopropylphosphorodiamidite (Phos Reagent)		
65.11	Sec Butyl Cyclopentadiene Lithium		
66	4,5-Dichloro pthalic acid	0.00830	0.00030
67	4-Tert-butylphenoxyAceticAcid	0.15000	0.04000
68	6-Bromo-Iso-indolin-1-one	0.00830	0.00830
69	Trans aconiticAcid	0.00830	0.00830
70	2,2 BIS [-(2INDENYL)BIPHENYL]ZICRONIUM(IV) CHLORIDE ON SILICA SUPPORT	0.10000	0.10000
71	N,N-Dimethylbenzamide (DMBA)	1.00000	1.00000
72	4-(methylamino)pentan-2-ol dibenzoate (AB)	1.00000	1.00000
73	9,9-bis(methoxymethyl)fluorene (FLU)	1.00000	1.00000
74	2-AminoBenzonitrile	1.00000	0.38000
75	GAFL-158	1.00000	0.25000
76	3,5-Bis(2-Cyanoprop-2-yl)benzyl bromide Anastrazole intermediate	0.00830	0.00030
77	3,5-Bis(2-Cyanoprop-2-yl)Toluene Anastrazole intermediate	0.00830	0.00030
78	2,2'-Azobis(2-methylpropionamidine)dihydrochloride	0.01000	0.00500
79	CMPT	0.04000	0.04000
80	CMIMT	0.04000	0.01000
81	MTSCNE	0.10000	0.01000
82	ONT-7-D & ONT-7-L	0.10000	0.01000
83	UNA Phosphoramidites & Derivatives		
83.01	UNA-U-Amidite		
83.02	5'ODMT-2',3' Seco- 2'OBz-Uridine		
83.03	UNA-C-Amidite		
83.04	5'ODMT-N-Ac -2',3' Seco -2'OBz - Cytidine		
83.05	UNA-ABz-Amidite		
83.06	5'ODMT- N-Bz -2',3' Seco-2'OBz- - Adenosine	0.0400	0.0050
83.07	UNA-Gibu Amidite		
83.08	5'ODMT- N-iBu -2',3' Seco-2'OBz-Guanosine		
83.09	UNA Seco cytidine		
83.10	UNA Seco Adenosine		
83.11	UNA Seco Guanosine		
83.12	UNA-U-Monophosphate		
84	Morpholino Phosphoramidites & Derivatives	0.1000	0.0050

84.01	Morpholino – A Subunit OR (N-trityl morpholino-N-Bz Adenine dimethylamido phosphoramidic chloride)		
84.02	Morpholino – G Subunit OR (N-trityl morpholino-N-iBu Guanine dimethylamido phosphoramidic chloride)		
84.03	Morpholino – U Subunit OR (N-trityl morpholino-Uracil dimethylamido phosphoramidic chloride)		
84.04	Morpholino – C Subunit OR (N-trityl morpholino-N-Bz Cytosine dimethylamido phosphoramidic chloride)		
85	Chiral Phosphoramidites & Derivatives	0.10000	0.00100
86	5'-ODMT-2' OMe NiBu-Guanosine O6 CE	0.08400	0.00500
87	Bis TAc dG	0.08400	0.01000
88	5'-ODMT-NiBu-deoxycytidine	0.05000	0.00500
89	5'-Biotin Phosphoramidite	0.00100	0.00020
90	5-Iodo dC	0.00080	0.00080
91	2'-Fluoro-GiBu-3'-CEPA OR (5'-ODMT-2'-Fluoro-GiBu-3'-CEPA (Amidite))	0.0008	0.00084
91.01	5'-ODMT-2'-Fluoro-GiBu (PNS)		
92	5'-ODMT-N6-Bz-2'-Fluoro Adenosine-3'-OCEPA (Amidite)	0.0008	0.00084
92.01	5'-ODMT-N6-Bz-2'-Fluoro Adenosine (PNS)		
93	5'ODMT-NiBu-dG (O6 CE)	0.05000	0.00500
94	Ethyl -2,2 -difuropropionate	0.0416	0.04160
	Proposed Products		
1	Jalshakti	0.00000	0.00100
2	(1-Hydroxy-3-methylbutylidene)-5,5-dimethyl -1,3-cyclohexanedione (ivDde-OH)	0.00000	0.07000
3	Propargyl methacrylate	0.00000	0.00100
4	NPNPN / CRD6 ligand	0.00000	0.00400
5	2-Isopropyl-1H-Indene	0.00000	0.00100
6	Diboronic Acid	0.00000	0.00100
7	Uracil	0.00000	0.04100
8	Phosphorous Oxychloride (Rec)	0.00000	0.00100
9	(R)-1-[(4-Chlorophenyl)phenylmethyl]pipe	0.00000	0.00100
10	Lutencryl 250	0.00000	2.70000
11	5-Methyl-1,3-Benzenediacetonitrile	0.00000	0.00100
12	N-PAC deoxy Adenosine (PAC dA)	0.00000	0.01100
13	Phenyl-(2-pyridyl) acetamide (PPA)	0.00000	0.79333
14	4-Chloro-4'-hydroxybenzophenone or CHBP or 4-CHBP	0.00000	7.20860

15	Dimethyl-2,2-Diisobutylmalonate	0.00000	0.00100
16	GalNAc-2-O-pentanoic Acid OR GalNAc Acetoxy Pentanoic acid	0.00000	0.0110
16a	GalNAc Benzyloxy Pentanoic acid	0.00000	
17	Santalol	0.00000	1.66666
18	Non-hazardous synthetic compounds for research analysis and data OR (Bis Benzyl Ribo Sugar)	0.00000	0.03000
19	L-RA AMIDITE OR 2'-TBDMS 5'-DMT protected L-rA(Bn) amidite	0.00000	0.00200
20	Para chloro Meta Xylenol (PCMX)	0.00000	0.15000
21	4-(2-Chloroethyl) Morpholine Hydrochloride (CEM HCl)	0.00000	1.70000
22	Biocide 950	0.00000	0.8000
22a	2-Methyl-4-isothiazolin-3-one (MIT)	0.00000	
23	Biocide 300	0.00000	0.8000
23a	5-Chloro-2-Methyl-4-isothiazolin-3-one : 2-Methyl-4-isothiazolin-3-one (CMIT/MIT) (3:1)	0.00000	
24	1-[2-Amino-1-(4-methoxy-phenyl)-ethyl]-cyclohexanol (Venlafaxine Step 2 Free Base)	0.00000	0.20000
25	[RS]-1-[2-Dimethylamino-1-(4-methoxyphenyl)-ethyl]cyclohexanol (Venlafaxine Base)	0.00000	1.00000
26	1-[2-Amino-1-(4-methoxy-phenyl)-ethyl]-cyclohexanol-hcl (Venlafaxine Stage 2 HCl)	0.00000	0.10000
27	N - Ethyl Caprolactam	0.00000	0.20000
	Total	**113.0510**	**113.0510**
	Trading of Chemical Products	**0.00000**	**41.6667**

Overall total production quantity remains unchanged after product-mix.

B. By-Product Generation:

Sr. No.	By-product Name	Before Product mix (MT/Yr)	After Product mix (MT/M)
01	Hydrochloric Acid	106.15	99.1
02	Sulphuric Acid	127.9	119
03	Mixed Solvent	149.5	231.1
04	Aqueous AlCl3 Solution	1100	1031.9
	Total	**1483.55**	**1481.1**

Overall total by-production quantity reduced by 2.45 MT/M

C. 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	568.7	--	---				
2	**Trade Effluent Generation**							
a	Process Activity	35.5	35.5	0	51287	1820.7	38293	1359.4
b	Washing Activity	160	0	160	189.5	36	947.4	180
c	Cooling Tower & Boiler	30	0	30				
d	Total	225.5	35.5	190	...	1856.7	...	1539.4
3	Domestic Effluent Generation, CMD	30	0	30	...	....	...	...

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	566.6	--	---				
2	**Trade Effluent Generation**							
a	Process Activity	35.3	35.3	0	44343	1565.3	38025	1342.3
b	Washing Activity	160	0	160	189.5	36	947.4	180
c	Cooling Tower & Boiler	30	0	30				
d	Total	225.3	35.3	190	...	1601.3	...	1522.3
3	Domestic Effluent Generation, CMD	30	0	30	...	....	...	...

- **Water consumption & effluent generation is reduced by 2.1 CMD & 0.2 CMD respectively**
- **COD & TDS reduced by 255.4 Kg/day & 17.1 kg/day respectively**

Treatment System:

a) **Trade Effluent:**
Industry has segregated effluent in two streams high COD/TDS and low COD/TDS stream and provided separate treatment system as below:

High COD/TDS Stream: from process along with RO reject treated in MEE

Low COD/TDS Stream: Primary, Secondary and Tertiary Treatment system followed by RO (260 KLD capacity) and MEE (48 KLD capacity) to achieve Zero Liquid Discharge (ZLD) and treated effluent will be recycled totally (100 %)

b) **Domestic Effluent:** Industry has provided the Sewage Treatment system with design capacity of 41 CMD for the treatment of 30 CMD sewage and treated sewage shall be used on land for gardening within premise.

(ii) Air Emission Load:

Sr. No.	Particular	Before Product mix	After Product mix	Remarks
01	Fuel Consumption	Briequate-30 MT/D HSD- 675 Kg/Hr	Briequate-30 MT/D HSD- 675 Kg/Hr	No Change
02	Process Emission, Kg/Day	55.5	52.7	Reduction by 2.8
03	Solvent Losses, Kg/day	1171.4	660.8	Reduction by 510.6

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

(iii) Hazardous Waste Load:

Sr. No.	Type of Waste	Cat. No.	Before Product mix (MT/Yr)	After Product mix (MT/Yr)	Remarks
01	Used Oil/ Spent Oil	5.1	02	02	No Change
02	Distillation Residue	20.3	427	424.7	Reduced by 2.3 MT/Yr
03	MEE Solids	37.3	490	483.2	Reduced by 6.8 MT/Yr
04	Chemical Containing Residue from decontamination	34.1	2.5	2.5	No Change

05	Chemical Sludge from wastewater Treatment plant	35.3	254	246	Reduced by 08 MT/Yr
06	Discarded Containers/ bags/liners	33.1	70	70	No Change
07	Off specification Chemicals	28.4	4	4	No Change

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. Goldfinch Engineering Systems Private Limited vide letter dated 29/4/2020 and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

(i) PP has applied for trading of chemicals alongiwth product mix applications. Committee opined that; it should be applied separately.

(ii) PP has shown all intermediate steps as products. Committee suggested that, PP show only intermediate which to be commercially proposed to sale.

(iii) Height of the stack attached to Boiler is 30.0 mtr which is less than the height mentioned in Environmental Clearance i.e. 48 mtr. PP informed that, stack attached to Boiler is calculated on the basis of dust emissions. Committee opined that, PP either increase the stack height as per EC or make necessary amendment in Environmental Clearance

(iv) PP not submitted dust concentration at outlet of the Boiler i.e. Source emissions of Boiler.

(v) PP not installed OCMS to the stack emission as per Environmental Clearance condition.

(vi) PP shown by-products which seems to be contaminated, hence, committee opine that, by-products to be shown in Hazardous Waste

(vii) 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) PP shall specify the combination of quantities of intermediates and finished products for which consent amendment is requested. Quantity of finished product should be reduced in proportionate to its intermediates quantity such that in no case quantity of finished products or intermediates either individually or combined together shall exceed the equivalent quantity of finished product granted through earlier consent/proposed under product mix.

(ii) Industry shall either increase the stack height as per Environmental Clearance or make necessary amendment in Environmental Clearance.

(iii) Industry shall install OCMS for stack emissions as per EC conditions

(iv) Industry shall apply separately for Trading of chemicals and shall not mix up with product-mix application.

(v) Industry shall dispose/sale the fly ash as non-hazardous waste to Brick Manufacturer and submit the copy of agreement/MoU with brick manufacturers to MPCB immediately

(vi) Industry shall dispose the by-product following Rule no. 9 as per the provision of HW Rules 2016 for sale /disposal of by-products. Hence, byproducts will be shifted under Hazardous waste schedule in Consent to Operate.

(vii) Industry shall ensure development of green belt (as per CPCB guidelines) on 33 % of the total plot area of the unit and confirm to MPCB accordingly.

(viii) 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

MAHARASHTRA POLLUTION CONTROL BOARD

Agenda Item No.	**2**
Proposal No.	**MPCB-CONSENT-0000093409**
Project Details	**M/s. Mangalam Organics Limited** At/Po- Kumbhivali, Savroli kharpada road, Tal- Khalapur, Dist- Raigad
NIPL Certificate	NIPL Certificate issued by M/s. MITCON Consultancy and Engineering Services Ltd. vide letter dated Nil

Introduction:

This has reference to the online proposal submitted vide No. MPCB-CONSENT-0000093409 alongwith the copies of documents seeking amendment in existing consent to operate under change in product-mix under the provisions of EIA Notification 2006 amended on 23/11/2016.

Existing Clearances:

1. Environmental Clearance is granted to the unit vide No. F. No. J-11011/154/2012-IA-II(I)) dated 31/3/2016

2. Consent to Operate is granted by MPC Board vide No. Format 1.0/CAC/UAN No. 0000089093/CO-2005000260 dated 08/5/2020

Project Details:

A. Products with change in product mix as below:

Sr. No.	Name of the Product	Existing Production quantity in MT/M	Production quantity after change in product mix in MT/M
1	Camphor	550	1250
2	Sodium Acetate	500	1250
3	Carene, Lg, DP, Pine Tar, IBA, Camphene, Beta Pinene, Terpene Chemicals, Camphor Sulphonic acid, Camphor Aldehyde, Isoborneol and derivatives	300	1500
4	Phenolic Resin OR	950	1000
5	Alkyd Resin OR	300	
6	Polyester Resin OR	100	
7	Polyamide Resin OR	100	
8	Ketonic Resin OR	100	
9	Alkyl Phenol Formaldehyde Resin OR	50	
10	Rosin Ester OR	150	
11	Maleic Modified OR	75	
12	Phenolic Modified Resin	75	
13	Camphene	200	0
14	Dipentene	350	0
15	Alpha Pinene	200	0

16	Coating	500	0
17	PVC Chemical	500	0
	Total MT/M	5000	5000
	Annual Production in MT	60000	60000

D. 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	212	Not applicable					
2	**Trade Effluent Generation**							
a	Process Activity	50.8	Not segregated		8760	602.7	1660	114.21
B	Cooling Tower & Boiler	18						
c	Total	68.8	---	---	...	602.7	...	114.21
3	Domestic Effluent Generation, CMD	17	0	30	...	....	...	...

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	204.2	Not Applicable					
2	**Trade Effluent Generation**							
a	Process Activity	44.8	Not segregated		8000	550.4	1583	108.91
b	Cooling Tower & Boiler	24						
c	Total	68.8	--	--	...	550.4	...	172
3	Domestic Effluent Generation, CMD	17	0	17	...	....	...	...

- **Water consumption is reduced by 7.8 CMD.**

- **There is no change in hydraulic load effluent. Trade effluent generation is 68.8 CMD.**
- **COD load reduced by 52.3 Kg/day and TDS load decreased by 5.3 Kg/day.**

Treatment System:

a) **Trade Effluent:**
Industry has provided Effluent Treatment Plant comprising Primary, Secondary (Two Stage Aeration System) & tertiary treatment system followed by UF, RO, MEE & ATFD. Treated effluent 100% recycled in the process so as to achieve Zero Liquid Discharge.

b) **Domestic Effluent:** Industry has provided the Sewage Treatment system (MBBR) with design capacity of 40 CMD for the treatment of 17 CMD sewage and treated sewage shall be used on land for gardening within premise.

(ii) Air Emission Load:

Sr. No.	Source	Fuel	**Before Product-mix**	**After Product Mix**
01	DG Set 1500 KVA	HSD	220 Lit/Hr	220 Lit/Hr
02	DG Set 750 KVA (Standby)	HSD	250 Lit/Hr	250 Lit/Hr
03	Boiler 10TPH	Coal	17 MT/Day	17 MT/Day
04	Thermopack 40 Lac/Kcal	Coal	17 MTDay	17 MTDay
05	Boiler (05 TPH)	Coal	17 MT/Day	17 MT/Day
06	Thermopack 20 Lac/Kcal (Standby)	Coal	17 MT/Day	17 MT/Day
07	Boiler (05 TPH) (Standby)	Furnace Oil	416 Kg/Hr	416 Kg/Hr
08	Thermopack 60 Lac/Kcal	Coal	833 Kg/Hr	833 Kg/Hr
09	Boiler (25 TPH)	Coal	1041 Kg/Hr	1041 Kg/hr

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

(iii) Hazardous Waste Load:

Sr. No.	**Type of Waste**	**Cat. No.**	**Before Product mix (MT/Yr)**	**After Product mix (MT/Yr)**	**Remarks**
01	ETP Sludge	35.3	152.5	152.5	No Change
02	Resin Residue	23.1	0.5	0.5	No Change
03	Spent Catalyst	17.2	09	09	No Change
04	Contaminated Filter Cloth	35.1	01	01	No Change
05	Discarded Containers	33.1	750	750	No Change
06	Contaminated cotton rags or other cleaning material	33.2	0.25	0.25	No Change

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. MITCON Environmental & Engineering Services Ltd. vide letter dated Nil and product-mix proforma are taken on the record.

Committee after due deliberations noticed that:

(i) The production capacity of camphor& Sodium Acetate will be increased approx. 02 times. PP informed that, EC sanctioned for Resin manufacturing of 2700 MT/M out of which will produce only 1000 MT/M of Resins after Product Mix, wherein additional spares reactors installed for Resin will be utilized for camphor manufacturing in the present setup only. Also, proposed to reduce the time cycle of the reactor by changing catalyst which will help to enhance the production capacity using same reactor.

(ii) Environmental Clearance granted on the name of M/s. Dujodwala Products Ltd and applied product mix on the name of M/s. Mangalam Organic Ltd. PP Informed that, they have already intimated the change in name to MoEF in six monthly compliance report and also obtained consent to operate dated 11.03.2016 with change in name. PP also informed that, they will apply for change in name.

(iii) The production quantity as per Environmental Clearance is 4141.66 MT/M and applied for change in product with quantity 5000 MT/M. PP informed that, they have accorded Environmental Clearance by taking into consideration only proposed products for which expansion seeked i.e. existing product 691.66 MT/M and proposed expansion of 3450 MT/M, which comes to 4141.66 MT/M. However existing product like camphor (350 MT/M), sodium acetate (275 MT/M) and other intermediate (233.34 MT/M) i.e. of 858.34 MT/M for which expansion not seeked have been not taken into consideration. Prior to EC, sanctioned consent and sum total of EC after expansion would be 5000 MT/M for which product mix applied.

(iv) The TDS concentration will be increased 1660 mg/l to 2500 mg/l which ultimately increase the pollution load. PP informed that, there is typographical mistake wherein TDS of effluent is calculated by adding all the resin quantities. For 1000 MT/M of Resin manufacturing, maximum effluent generated is of Alkyl phenol formaldehyde Resin. Hence in proposed calculation by considering Alkyl Phenol formaldehyde resin effluent, the TDS comes to be 1583 mg/lit in place of 2500 mg/lit.

(v) The Hazardous quantity shown unchanged even there is change in COD & TDS concentration of trade effluent.

(vi) PP not installed OCMS to the stack emission as per Environmental Clearance condition. PP informed that, we will verify the EC conditions and comply the same.

(vii) 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 install OCMS for stack emissions as per EC conditions, if applicable

(ii) Industry shall dispose/sale the fly ash as non-hazardous waste to Brick Manufacturer and submit the copy of agreement/MoU with brick manufacturers to MPCB immediately

(iii) Industry shall obtain amendment in Environmental Clearance for change in name.

(iv) Industry shall submit the details of spare reactors available with them.
(v) Industry shall re-examine the HW quantity and submit the revised HW quantity.
(vi) 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

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