

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IA DIVISION-INDUSTRY-2 SECTOR)

Dated: 01.09.2020

MINUTES OF THE 22nd MEETING OF THE
EXPERT APPRAISAL COMMITTEE
(INDUSTRY-2 SECTOR FOR CHEMICAL BASED PROJECTS),
HELD DURING 17th to 19th August, 2020

Venue: Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003 through Video Conferencing (VC)

Time: 10:30 AM

(i) Opening Remarks by the Chairman:

The Chairman made hearty welcome to the Committee members and appreciated the efforts of the Committee. After opening remarks, the Chairman opened the EAC meeting for further deliberations.

(ii) Confirmation of the Minutes of the 21st Meeting of the EAC (Industry-2 Chemical) held during 14-16 July, 2020 at MoEFCC through VC.

The EAC, having taken note that final minutes were issued after incorporating comments offered by the EAC members on the minutes of its 21th Meeting of the EAC (Industry-2) held during 14-16, July, 2020 conducted through Video Conferencing (VC), confirmed the same.

(iii) Issues related to the Corporate Environment Responsibility (CER).

The Member Secretary informed to the Committee that the Ministry has issued Office Memorandum No. F-22-65/2017-IA.III dated 1st May 2018 regarding to the Corporate Environment Responsibility (CER). The OM, inter-alia, provides the details of CER to be imposed as per slab. However, in some proposal the CER was not as per prescribed OM. Accordingly, the Ministry has further examined such proposals after EAC recommendations and rectified the same during grant of ECs to the Project Proponents. The Committee deliberated the issues and taken the note of it.

(iv) Issues related to the Optimization of EC conditions.

The Member Secretary informed to the Committee that the issues related to optimization/standardization of EC conditions was deliberated in the Ministry and accordingly the EAC has optimized the EC conditions. Further, now the Ministry, while issuance of ECs, are imposing such optimized conditions which shall be specific and

monitorable in nature in time bound manner. The Committee deliberated the issues and taken the note of it.

After welcoming the Committee Members, discussion on each of the agenda items was taken up ad-seriatim.

Details of the proposals considered during the meeting **conducted through Video Conferencing (VC)**, deliberations made and the recommendations of the Committee are explained in the respective agenda items as under:-

DAY 1: 17th August, 2020 (Monday)

Consideration of Environmental Clearance

Agenda No. 21.1

Expansion of Metallic Stearate (Wet Process), Metallic and Non Metallic Stearate (Dry Process) and Calcium Phosphate by M/s Harihar Organics Pvt. Ltd at Plot No. C1- 1901/19,1901/20 Phase III, Notified Industrial Area, GIDC Vapi, Taluka Pardi, District Valsad (Gujarat) - Environmental Clearance - reg [IA/GJ/IND2/148372/2019, IA-J-11011/166/2020-IA-II(I)]

The project proponent and their accredited consultant M/s Eco Chem Sales & Services (ECSS) made a detailed presentation on the salient features of the project through Video Conferencing (VC).

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for expansion of Metallic Stearate (Wet Process), Metallic and Non Metallic Stearate (Dry Process) and Calcium Phosphate by M/s Harihar Organics Pvt. Ltd in an area of 1565.84 sqm at Plot No. C1-1901/19,1901/20 Phase III, Notified Industrial Area, GIDC Vapi, Taluka Pardi, District Valsad (Gujarat).

The details of products and capacity as under:

S. No.	Product	CAS Number	Capacity, TPM		
			Existing	Proposed	Total
1.	Metallic Stearates (Wet Process)	300-92-5/ 6865-35-6/ 1592-23-0/ 557-04-0/ 557-05-1	9.0	16.0	25.0
2.	Metallic and Non-Metallic Stearates (Dry Process)	300-92-5/ 6865-35-6/ 1592-23-0/ 557-04-0/ 557-05-1/	00	200.0	200.0

		822-16-2/ 593-29-3/ 2223-93-0			
3.	Calcium Phosphate (Dry Process)	7758-23-8/ 7758-87-4/ 7757-93-9	00	100.0	100.0
	Total		9.0	316.0	325.0

All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'B' to be appraised at State level. However, being the project is located inside the critically polluted area, the project appraised at Central level in the Ministry.

PP reported that there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River Kolak flows at a distance of 3.80 km in North.

The terms of reference was granted by the SEIAA Gujarat vide letter No. SEIAA/GUJ/TOR/5(f)/968/2019 dated 25th June, 2019. PP reported that the unit has started before year of 2006 with valid CTE & CTO from GPCB as a small scale unit. Existing land area is 1565.84 m² and no additional land will be required for proposed expansion. Green belt will be developed in an area of 40.04 % i.e.627 sqm. out of total area of the project. The estimated project cost is Rs.156.83 Lakhs including existing investment of Rs. 73.83 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 5 Lakhs and the recurring cost (operation & maintenance) will be about Rs.12.25 Lakhs per annum. Total Employment will be 30 persons after expansion.

The Committee noted that as the project location comes under critically polluted area and PP is not proposing the complete ZLD. As per provisions of OM dated 31.10.2019 (CPA), the PP should come with the compliances of the said OM. The Committee also observed that it is not like an expansion it is like setting up a new unit basically a huge expansion.

The EAC, after detailed deliberation, suggested that PP shall first conduct an alternate site analysis or to choose another location for the project as in this small plot such project does not seem feasible. The Committee also noted that PP has not submitted the certified compliance report of CTO from SPCB, however in Form 2, PP/consultant uploaded the forwarding letter of SPCB to RO SPCB for certified compliance status of CTO. The Committee is of the view as per Standard TOR PP has to submit the TOR compliance status duly certified by SPCB. The Certified compliance report is awaited. **The Committee also observed that the Consultant is not well prepared and suggested that the PP shall revise the report as per standard TOR as well as compliances of OM dated 31.10.2019 (CPA). The Consultant agreed his mistake for not preparing the**

report adequately as per provisions of the EIA Notification, 2006 and guidelines issued from time to time.

The EAC, after detailed deliberations, therefore **returned** the proposal in present form and suggested that PP shall revise the report accordingly and upload on Parivesh Portal.

Agenda No. 22.2

Expansion of bulk drug manufacturing unit by addition of Ethoxylates, Metformin & other organic products by M/s Gujarat Dyestuff Industries (Pharma Unit) at Plot No. 133/4, 133/5, 133/6, GIDC Nandesari, Nandesari, District Vadodara (Gujarat) - Consideration of Environmental Clearance

[IA/GJ/IND2/133405/2018, IA-J-11011/20/2020-IA-II(I)]

The project proponent and their consultant M/s. Eco-Care Solutions made a detailed presentation on the salient features of the project through Video Conferencing (VC).

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for expansion of bulk drug manufacturing unit by addition of Ethoxylates, Metformin & other organic products by M/s Gujarat Dyestuff Industries (Pharma Unit) in an area of 3691.1 sqm at Plot No. 133/4, 133/5, 133/6, GIDC Nandesari, Nandesari, District Vadodara (Gujarat). The details of existing and proposed products are as under:-

S. No.	Product Details	Existing Quantity MT/Month	Proposed Quantity MT/Month	Total Quantity MT/Month
1.	CIFIXIME TRIHYDRATE or	10	0	10
2.	CEFUROXIME AXETIL or			
3.	CEFPODOXIME PROXETIL or			
4.	AMPICILIN or	20	0	20
5.	AMOXICILLIN TRYDRYDATE or	20	0	20
6.	CLOBETASOLE PROPIONATE or	0.5	0	0.5
7.	BETAMETHASONE DIPROPIONATE or	0.5	0	0.5
8.	BETAMETHASONE VALERATE or	0.5	0	0.5
9.	BETAMETHASONE SODIUM PHOSPHATE or	0.5	0	0.5
10.	DEXAMETHASONE SODIUM PHOSPHATE or	0.5	0	0.5
11.	BECLOMETHASONE	0.5	0	0.5

	DIPROPIONTE			
12.	MOMETASONE FUROATE or	0.5	0	0.5
13.	METHYLCOBALAMINE or	0.5	0.5	1.0
14.	OFLOXACIN or	20	0	20
15.	LEVOFLOXACIN or	20	0	20
16.	QUINON SULPHATE or	20	0	20
17.	CLOXACILLIN SODIUM or	20	0	20
18.	OXACILLIN SODIUM or	20	0	20
19.	DI CLOXACILLIN SODIUM or	20	0	20
20.	FLUCOXACILLIN SODIUM or	20	0	20
21.	Ethoxylates			
a.	POLYETHYLENE GLYCOL or	0	1000	1000
b.	HYDROGENATED CASTOR OIL or	0		
c.	CASTOR OIL ETHOXYLATES or	0		
d.	NONYL PHENOL ETHOXYLATES or	0		
e.	OCTYL PHENOL ETHOXYLATES or	0		
f.	CARD PHENOL ETHOXYLATES or	0		
g.	STYRUNATED PHENOL ETHOXYLATES or	0		
h.	LAURYL ALCOHOL ETHOXYLATES or	0		
i.	TRIDECYL ALCOHOL ETHOXYLATES or	0		
j.	CESTOSTYRYL ALCOHOL ETHOXYLATES or	0		
k.	TALLOW ALCOHOL ETHOXYLATES or	0		
l.	STEARYL AMINE ETHOXYLATES or	0		
m.	COCO AMINE ETHOXYLATES or	0		
n.	OLEYL AMINE ETHOXYLATES or	0		
o.	POLY SORBATE ETHOXYLATES or	0		
p.	STEARIC ACID ETHOXYLATES or	0		
22.	METFORMIN HYDROCHLORIDE	0	500	500
	Total (MT/ Month)	20	1500.5	1520.5

All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of

Schedule of Environment Impact Assessment (EIA) Notification under category 'B' to be appraised at State level. However, being the project is located inside the critically polluted area, the project appraised at Central level in the Ministry.

Ambient air quality monitoring was carried out at 10 locations during October 2018 to December 2018 and the baseline data indicates the ranges of concentrations as: PM10 (77.35 - 71.94 $\mu\text{g}/\text{m}^3$), PM2.5 (47.49 - 40.65 $\mu\text{g}/\text{m}^3$), SO2 (22.19 - 13.11 $\mu\text{g}/\text{m}^3$) and NO2 (19.15 - 11.07 $\mu\text{g}/\text{m}^3$). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 76.59 $\mu\text{g}/\text{m}^3$, 19.16 $\mu\text{g}/\text{m}^3$ and 17.43 $\mu\text{g}/\text{m}^3$ with respect to PM10, Sox and NOx. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 287 m^3/day of which fresh water requirement of 247 m^3/day will be met from Nandesari Water & Utilities Limited. Effluent of 40 m^3/day quantity will be treated through in-House Effluent Treatment Plant followed by RO & MEE Plant. The plant will be based on Zero Liquid discharge system.

Power requirement after expansion will be 1600 KVA including existing 600 KVA and will be met from Madhya Gujarat Vij Company limited (MGVCL). Existing unit has 0 DG sets of 0 capacity, additionally 1 Nos - 385KVA DG sets are used as standby during power failure. Stack (height 5m) will be provided as per CPCB norms to the proposed DG sets. Existing unit has 20 Lac. K.Cal FO/LDO fired Thermic Fluid Heater. Additionally, 40 Lac. K.Cal Natural Gas fired Thermic Fluid Heater will be installed. Caustic Scrubber installed in the existing Thermic Fluid Heater with a stack of height of 30 m will be installed for controlling the particulate emissions within the statutory limit of 115 mg/Nm^3 for the proposed Thermic Fluid Heater.

Details of Certified compliance report submitted by RO, MoEF&CC. Site was visited by RO MoEFCC on 1st of February 2019 & Compliance report was submitted vide No: 18-A-112/2014(SEAC)/156, dated 6th March 2019. Out of 65 conditions, 28 are seen fully complied, 30 are compiled subject to condition, 2 are not complied, 1 is agreed to comply, 4 are noted. Reply from GDI Vide Ref.No. :GDI/ENV/ECC/2019/12 Dated 26th April 2019. The Committee deliberated and noted that there is still non compliances and not completed after grant of EC in 2014 and observed that the PP is not serious about the compliances of the EC conditions.

The Committee, during deliberations, noted that the quality of the EIA/EMP report prepared by the consultant and its presentation made during the meeting was of very poor quality and not providing any scientific and technical inputs and its mitigation measures for protection of environment. The EAC also noted that the consultant is not accredited and submitted application as per Hon'ble Court Order stay. Also the values of GLC are not in line with the AAQ data.

The Committee, after detailed deliberations, has desired for following requisite information/inputs in respect of the following: -

- (i) Action Taken Report on non-compliance points in the existing EC conditions which needs to be forwarded by the Regional Office of the Ministry;

- (ii) Revised prediction of GLC due to the proposed project;
- (iii) Revised water balance and details of waste water needs to be submitted;
- (iv) Revised layout plan showing greenbelt along the periphery of the plant.
- (v) Revise the EIA/EMP Report and includes the observation of the EAC as mentioned above.

The proposal was accordingly **DEFERRED** for the needful.

Agenda No.22.3

Expansion of Resins and Adhesive manufacturing unit by M/s Shivam Chemical Industries at Plot No.- C1B/2501/1, Phase: III Notified Industrial Area, GIDC Vapi, Taluka Pardi, District Valsad, Gujarat- Consideration of Environmental Clearance

[IA/GJ/IND2/148857/2019, IA-J-11011/167/2020-IA-II(I)]

The project proponent and their accredited consultant M/s Eco Chem Sales & Services (ECSS) made a detailed presentation on the salient features of the project through Video Conferencing (VC).

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for expansion of Resins and Adhesive manufacturing unit by M/s Shivam Chemical Industries in an area of 1088 sqm at Plot No.- C1B/2501/1, Phase: III Notified Industrial Area, GIDC Vapi, Taluka Pardi, District Valsad (Gujarat).

All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'B' to be appraised at State level. However, being the project is located inside the critically polluted area, the project appraised at Central level in the Ministry.

The terms of reference was granted by the SEIAA (Gujarat) vide letter No.SEIAA/GUJ/ToR/5(f)/941/2019; dated 19th June, 2019. Existing land area is 1088 m² and no additional land will be required for the proposed expansion.

The Committee noted that as the project location comes under critically polluted area and PP is not proposing the complete ZLD. As per provisions of OM dated 31.10.2019 (CPA),

the PP should come with the compliances of the said OM. The Committee also observed that it is not like an expansion it is like setting up a new unit basically a huge expansion.

The EAC, after detailed deliberation, suggested that PP shall first conduct an alternate site analysis or to choose another location for the project as in this small plot such project does not seem feasible. The Committee also noted that PP has not submitted the certified compliance report of CTO from SPCB, however in Form 2, PP/consultant uploaded the forwarding letter of SPCB to RO SPCB for certified compliance status of CTO. The Committee is of the view as per Standard TOR PP has to submit the TOR compliance status duly certified by SPCB. **The Committee also observed that the Consultant is not well prepared and suggested that the PP shall revise the report as per standard TOR as well as compliances of OM dated 31.10.2019 (CPA). The Consultant agreed his mistake for not preparing the report adequately as per provisions of the EIA Notification, 2006 and guidelines issued from time to time.**

The EAC, after detailed deliberations, therefore **returned** the proposal in present form and suggested that PP shall revise the report accordingly and upload on Parivesh Portal.

Agenda No. 22.4

Proposed Expansion of Sugar from 4500 TCD to 7500 TCD, Cogeneration from 14.5 to 40 MW & Proposed New Molasses Based Distillery Capacity of 100 KLPD at Malwati - Kasarkhed Road, Malawati, Latur, Maharashtra M/s Twentyone Sugars Ltd - Consideration of Environmental Clearance

[IA/MH/IND2/151796/2015, IA-J-11011/168/2020-IA-II(I)]

The project proponent has requested for withdrawn as the project now requires appraisal at the State level by the SEAC/SEIAA. The Committee has accordingly decided not to consider the proposal and recommended to **RETURN** in present form as PP want to withdraw.

Agenda No. 22.5

Setting up of Dyes, Intermediates and Pigments manufacturing unit by M/s Colosperse Dyes and Intermediates (UNIT-4) at Plot No. 355, GIDC Sachin, Taluka Chorasi, District Surat (Gujarat)- Consideration of Environmental Clearance [IA/GJ/IND2/127845/2019, IA-J-11011/371/2019-IA-II(I)]

The project proponent and their accredited consultant M/s. ENPRO Enviro Tech and Engineers Pvt. Ltd made a detailed presentation on the salient features of the project through Video Conferencing (VC).

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project of setting up of Dyes, Intermediates and Pigments manufacturing unit of capacity 590 TPM by M/s Colospere Dyes and Intermediates (UNIT-4) in an area of 3000 sqm at Plot No. 355, GIDC Sachin, Taluka Chorasi, District Surat (Gujarat).

The details of products and capacity as under:

Sr. No.	Product Name	CAS No.	Production Capacity
			MT/Month
Group 1	Basic Liquid Dyes (Zero Discharged)		350
1.1	Basic Violet 1 Liquid	8004-87-3	
1.2	Basic Violet 3 Liquid	548-62-9	
1.3	Basic Violet 4 Liquid	2390-59-2	
1.4	Basic Green 1 Liquid	633-03-4	
1.5	Basic Green 4 Liquid	13425-25-7	
1.6	Basic Yellow 96 Liquid	78181-99-4	
1.7	Basic Yellow 90 Liquid	71550-24-8	
1.8	Basic Orange 60 Liquid	30112-70-0	
1.9	Basic Violet 14 Liquid	632-99-5	
1.10	Basic Violet 16 Liquid	64346-30-1	
1.11	Basic Red 12 Liquid	6320-14-5	
1.12	Basic Red 14 Liquid	12217-48-0	
1.13	Basic Red 18.1 Liquid	42373-04-6	
1.14	Basic Blue 1 Liquid	--	
1.15	Basic Blue 3 Liquid	4444-00-3	
1.16	Basic Violet 7 Liquid	6441-82-3	
1.17	Basic Red 13 Liquid	6320-14-5	
Group 2	Pigment Tonner		50
2.1	Pigment Violet 3	1325-82-2	
2.2	Pigment Blue 14	1325-88-8	
2.3	Pigment Red 81.3	68310-07-6	
2.4	Pigment Violet 1	1326-03-0	
2.5	Pigment Violet 27	12237-62-6	
Group 3	Basic Dyes Powder		20
3.1	Basic Violet 1 Powder	8004-87-3	
3.2	Basic Green 1 Powder	633-03-4	
3.3	Basic Green 4 Powder	2437-29-8	
3.4	Basic Violet 14 Powder	632-99-5	
3.5	Basic Violet 2 Powder	3248-91-7	
3.6	Basic Yellow 28	54060-92-3	
3.7	Basic Violet 11:1	39393-39-0	
Group 4	Solvent Dyes Base		15
4.1	Solvent Blue 4 (Basic Blue 26 Base)	6786-83-0	
4.2	Solvent Violet 8 (Methyl Violet 1	52080-58-7	

Sr. No.	Product Name	CAS No.	Production Capacity
			MT/Month
	Base)		
4.3	Solvent Violet 9 (Crystal Violet Base)	467-63-0	
4.4	Solvent Red 49 (Rhodamine Base)	509-34-2	
Group 5	Intermediates		
5.1	BDSA (Benzaldehyde 2, 4 Disulphonic Acid)	509-34-2	60
5.2	OBSA (Ortho Benzaldehyde Disulphonic Acid)	1008-72-6	
5.3	Fischer's Base	118-12-7	
5.4	Quinizarin	81-64-1	
5.5	1-5 Di chloroanthraquinone	602-25-5	
5.6	1-8 Di chloroanthraquinone	82-43-9	
Group 6	Solvent Dyes		
6.1	Solvent Blue 128	688321-65-5	35
6.2	Solvent Violet 13	81-48-1	
6.3	Solvent Yellow 33	8003-22-3	
6.4	Solvent Blue 104	116-75-6	
6.5	Solvent Green 3	128-80-3	
6.6	Solvent Blue 35	17354-14-2	
6.7	Solvent Blue 36	14233-37-5	
6.8	Solvent Blue 58	61814-09-3	
6.9	Solvent Blue 59	6994-46-3	
6.10	Solvent Blue 79	64553-79-3	
6.11	Solvent Blue 97	32724-62-2	
6.12	Solvent Blue 98	71819-49-3	
6.13	Solvent Blue 101	6737-68-4	
6.14	Solvent Blue 102	15403-56-2	
6.15	Solvent Blue 122	67905-17-3	
6.16	Solvent Green 33	10671-57-8	
6.17	Solvent Violet 14	8005-40-1	
6.18	Solvent Violet 38	63512-14-1	
Group 7	Solvent Liquid Dyes		
7.1	Solvent Red 164 Liquid	71819-51-7	50
7.2	Solvent Blue 98 Liquid	71819-49-3	
7.3	Solvent Green 33 Liquid	10671-57-8	
Group 8	D & C Dyes		
8.1	Acid Yellow 73 Powder (D & C Yellow 8)	518-47-8	10
8.2	Acid Red 33 (D & C Red 33)	3567-66-6	
8.3	D & C Red 6	5858-81-1	
8.4	D & C Red 7	5281-04-9	

Sr. No.	Product Name	CAS No.	Production Capacity
			MT/Month
8.5	Acid Red 52	3520-42-1	
8.6	Food Blue V Powder (Acid Blue 3)	20262-76-4	
	Total		590

All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'B' to be appraised at State level. However, being the project is located inside the critically polluted area, the project appraised at Central level in the Ministry.

The Standard ToR has been issued by the Ministry vide letter dated 12th December 2019. Public hearing is exempted as per para 7(i), III. Stage (3), (i)(b) of the EIA Notification, 2006, and in accordance with the Ministry's OM dated 27th April 2018, as the project site is located in the notified industrial area. No litigation is pending against the proposal.

Total land area for the proposed project is 3000 sqm. Green belt will be developed in an area of 1210 sqm. i.e. 40.3 % of the total plot area. The Estimated project cost is Rs. 12 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 248 Lakh and the recurring cost (operation & maintenance) will be about Rs.152 lakh per Annum. Proposed project will generate 85 employments.

PP reported that there are no National Parks, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc within 10 km. Mindhola River flows at 3.9 km in South.

Ambient air quality monitoring was carried out at 8 locations during 1st October 2019 to 31st December 2019 and the baseline data indicates the ranges of concentrations as: : PM₁₀ (34.7 – 115 µg/m³), PM_{2.5} (13.9 – 59.4 µg/m³), SO₂ (4.3 – 49.1 µg/m³) and NOx (12.9 – 51.1 µg/m³), CO (0.03 – 0.68mg/m³), NH₃ (1.20 – 9.20 µg/m³).. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be PM₁₀ - 0.12 µg/m³, PM_{2.5} - 0.07 µg/m³, SO₂ – 2.91 µg/m³, NOx – 0.2 µg/m³and VOC – 0.07 µg/m³. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 130.5 cum/day (122 m³/day for industrial + 3.5 m³/day for domestic + 5 m³/day for gardening). Unit will recycle and reuse 48 m³/day water from RO plant. Thus, fresh water requirement will be reduced to 82.5 m³/day. Fresh water will be met from Sachin Notified Area Authority (Sachin GIDC). Domestic waste water (3 m³/day) will be sent to septic tank and soak pit system while, industrial process wastewater 62 m³/day (53 m³/day Concentrated effluent shall be generated from manufacturing process & 9 m³/day waste water generated from Boiler, cooling, washing and scrubber activities) will be sent to stripper followed by MEE plant. MEE condensate

water shall be further treated into biological treatment followed by RO plant. Here, RO permeate water (48 m³/day) shall be reused within plant premises and RO reject water shall be sent to MEE plant again. MEE concentrated water shall be sent to spray dryer for final disposal.

Power requirement will be 250 kVA proposed to be met from Dakshin Gujarat Vij Company Limited (DGVCL). Proposed unit shall keep DG sets of 225 kVA capacity which will be used as standby during power failure/ emergency. Stack (height 10 m) will be provided as per CPCB norms to the proposed D.G. Set. Steam Boiler (4 MT/Hr) and Spray Dryer (1500 Lit/Hr) shall be installed. In which, 5500 SCM/Day (For both boiler & spray dryer)) Natural gas shall be used as a fuel. Thermo pack having capacity of 200 U shall be installed in which, 500 SCM/Day natural gas shall be used as a fuel. One standby DG set shall be installed having capacity of 225 KVA in which 68 Lit/Hr LDO shall be used as a fuel. There shall be one stack for process gas emission for SO_x pollutant. In which, two stage alkali scrubber shall be provided as a APCM.

Details of Process emissions generation and its management is mentioned below.

FLUE GAS EMISSION					
Sr. No.	Stack Attached to	Stack Height and Diameter	Pollutants	Fuel Consumption	Air Pollution Control System
1.	Steam Boiler (Capacity: 4 MT/Hr)	Height: 35 Meters Diameter: 800 mm	PM, SO _x , NO _x	Natural Gas - 5500 SCM/Day (Total with spray Dryer)	35 m Stack Height Shall Be Provided
2.	Spray Dryer (Capacity: 1500 Litres/Hr)	Height: 12 Meters Diameter: 500 mm	SO _x , NO _x , VOCs		Ventury Scrubber with 12 m stack
3.	Thermopack (Capacity: 200 U)	Height: 30 m Diameter: 300 mm	PM, SO _x , NO _x	Natural Gas - 500 SCM/Day	30 m Stack Height Shall Be Provided
4.	D. G. Set (Stand By) Capacity : 225 KVA	Height: 10 Meters Diameter: 150 mm	PM, SO _x , NO _x	LDO - 68 Lit/Hr	10 m Stack Height Shall Be Provided
Note: Unit will supply steam from proposed boiler to its sister units located near project site.					
PROCESS GAS EMISSION					
Sr. No.	Vent Attached To	Vent Height & Diameter	Pollutants	Air Pollution Control System	

1.	Reaction Vessel	Height: 12 Meters Diameter: 500 mm	SO _x	Two Stage Alkali Scrubber
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Details of Solid waste/ Hazardous waste generation and its management is given below.

Cat. No.	Hazardous Waste	Source of Waste	Generation Quantity	Disposal
			Proposed Total	
5.1	Used Oil	From plant & machinery	100 Litres/Year	Collection / Storage / Transportation / send to authorized recycler
33.1	Discarded barrels/ containers/ liners	From raw material packaging	300 Nos./Month i.e. 2.4 MT/Year	Collection / Storage / Transportation / send to authorized recycler
35.3	ETP Sludge	From ETP	16.7 MT/Month i.e. 200.4 MT/Year	Collection / Storage / Transportation / send to CHWTSDF Site for Landfilling
	Salt	From Spray Dryer	1.5 MT/Day i.e. 45 MT/Month i.e. 540 MT/Year	Collection / Storage / Transportation / send to CHWTSDF for Landfilling
20.2	Distillation Residue	From manufacturing of Group 3 - Basic Violet 2 Powder, Group 6 - Solvent Blue 128, Solvent Violet 13, Solvent Yellow 33, Solvent Blue 104, Solvent Green 3, Solvent Blue 79, Group 7 - Solvent Blue 98 Liquid)	5 MT/Month i.e. 60 MT/Year	Collection / Storage / Transportation / Sent to CHWTSDF for incineration
26.1	Process Sludge	From Manufacturing of Group 1 - Basic Blue 1 Liquid, Basic	20 MT/Month i.e. 240 MT/Year	Collection / Storage / Transportation / send to CHWTSDF Site for incineration

Cat. No.	Hazardous Waste	Source of Waste	Generation Quantity	Disposal
			Proposed Total	
		Blue 3 Liquid, Basic Red 13 liquid, Group 8 – Acid Red 52, Acid Blue 3)		
	Gypsum	From Manufacturing of Acid Red 52 & Acid Blue 3	17 MT/Month i.e. 204 MT/Year	Collection / Storage / Transportation / Sell to Authorized Dealer
	Bleed Liquor (Wastewater)	From Scrubber	1.5 KL/Day	Send to stripper with MEE plant followed by biological treatment and RO plant.
	Mixed Solvent	From stripper column	93 MT/Year	Collection / Storage / Transportation / Send to Registered Recycler or TSDF Site for Landfilling

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006 and the guidelines issued by the Ministry on critically polluted area and accordingly made the recommendations to the proposal. **The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.**

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be

followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25th October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.
- (ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iv) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (v) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (vi) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (viii) Total fresh water requirement shall not exceed 82.5 cum/day, proposed to be met from GIDC supply. Necessary permission obtained in this regard shall be

renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.

- (ix) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (x) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xi) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xii) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xiii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiv) As proposed green belt of at least 10-20 m width shall be developed mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. As committed by the project proponent, the greenbelt area shall be developed and maintained in an area of 40% out of the total project area.
- (xv) As proposed 4% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER) as per Ministry's OM dated 1st May 2018 & CPA OM dated 31.10.2019. As proposed, the CER allocation shall be spent

mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.

- (xvi) As committed, at least 20% of power requirement shall be met from solar power.
- (xvii) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No. 22.6

Expansion of existing unit by adding pesticides chemical (6600 TPM) by M/s Meridian Chem-bond Pvt Ltd at Plot No.C-378,379,380, GIDC Saykha District Bharuch (Gujarat) - Consideration of Environmental Clearance

[IA/GJ/IND2/129031/2019 , IA-J-11011/94/2019-IA-II(I)]

The project proponent and their accredited consultant M/s. Bhagwati Enviro Care Private Limited made a detailed presentation on the salient features of the project through Video Conferencing (VC).

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for expansion of existing unit by adding pesticides chemical (6600 TPM) by M/s Meridian Chem-bond Pvt Ltd at Plot No.C-378,379,380, GIDC Saykha District Bharuch (Gujarat).

The details of existing and proposed products and capacity are as under:

Prod. Code.	Name of Products	CAS No.	Capacity, TPM		
			Phase-I	Phase-II	Total
☞ Phase-I: Synthetic Organic Chemicals					
A-1	Mono Chloro Acetic Acid	79-11-8	3,000	-	3,000
A-2	Try Chloro Acetylene Chloride	76-02-8	1,500	-	1,500
A-3	Chloro Acetylene Chloride	79-04-9	750	-	750
A-4	Sulphur Mono Chloride	10025-67-9	500	-	500
A-5	Sodium Mono Chloro acetate	3926-62-3	500	-	500
A-6	Isopropylene Chloro Acetate	105-48-6	500	-	500
A-7	Mono Methylene chloro acetate	96-34-4	500	-	500
A-8	Chlorinated paraffin wax	85535-85-	2,000	-	2,000

		9			
A-9	Benzal Chloride	98-87-3	1,068	-	1,068
	Benzyl Chloride	100-44-7			
	Benzo Tri Chloride	98-07-7			
A-10	Benzaldehyde	100-52-7	500	-	500
A-11(a)	Ortho Nitro Chloro Benzene And/Or	38-37-3	500	-	500
A-11(b)	Para Nitro Chloro Benzene	100-00-5	500	-	500
A-12	Meta Nitro Chloro Benzene (MNCB)	121-73-3	500	-	500
A-13	Glycine	56-40-6	1,000	-	1,000
Total - Phase I (Prod. A1 to A13)			13,318	-	13,318
↪ Phase I: Inorganic Chemicals					
A-14	Calcium Chloride	10043-52-4	5,000	-	5,000
A-15	Di Calcium Phosphate	7757-93-9	5,000	-	5,000
A-16	Chlorosulphonic Acid	7790-94-5	5,000	-	5,000
A-17	Chemical Gypsum	13397-24-5	350	-	350
A-18	Ferrous Sulphate	7720-78-7	1,000	-	1,000
Total - Phase I (Prod. A14 to A18)			16,350	-	16,350
↪ Phase-II: Pesticides					
B-1	2,4-dichlorophenoxyacetic acid (2-4 D Acid)	94-75-7	-	3,000	3,000
B-2	2,4-Dichlorophenoxy acetic acid dimethylamine (2-4 D Amine)	2008-39-1	-	2,600	2,600
B-3	Glyphosate	1071-83-6	-	1,000	1,000
Total - Phase II (Prod. B1 to B3)			-	6,600	6,600
Grand Total – (Phase I + Phase II)			29,668	6,600	36,268

The ToR has been issued by Ministry vide letter dated 18th April, 2019. The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' and item 5(f) 'Synthetic organic chemicals industry' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

State Environment Impact Assessment Authority (SEIAA), Gujarat had issued EC earlier vide letter no. SEIAA/GUJ/EC/5(f)/989/2018 dated 29th September 2018 for the Phase-I project for manufacturing of synthetic organic chemicals with total production capacity of 13,318 TPM as listed at S.N. 5(f) of Schedule of Environment Impact Assessment (EIA)

Notification under category 'B' in favour of Meridian Chem-Bond Pvt. Ltd. However, the project in Phase-I is not yet commissioned and nothing happened on ground.

The Committee noted that as the earlier EC was granted by the SEIAA in 2018 for Phase-1 and the said Phase yet not completed/commissioned/executed, the EAC suggested to complete/start production for the phase-1 and then apply for expansion i.e. phase-2. The EAC, after detailed deliberations, noted that this proposal is at immature stage and therefore EAC **return the proposal in present form.**

Agenda No.22.7

Modification in the existing distillery unit by M/s Siddapur Distilleries Limited (SDL) at village Siddapur, Taluk Jamkhandi, District Bagalkot (Karnataka)- Consideration of Environmental Clearance

[IA/KA/IND2/153620/2020, J-11011/274/2003-IA-II(I)]

The project proponent and their consultant M/s Samrakshan made a detailed presentation on the salient features of the project through Video Conferencing (VC). During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for Modification in the existing distillery unit by M/s Siddapur Distilleries Limited (SDL) at village Siddapur, Taluk Jamkhandi, District Bagalkot (Karnataka).

The project/activities are covered under category B of item 5 (g) 'Distilleries' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at State level. However, due to being a modification of EC proposal and as the production capacity is not increasing, the proposal appraised at central level in the Ministry.

The proposal has been submitted under para 7 (ii) of the EIA Notification, 2006 requesting exemption from ToR, public hearing and EIA report. The proposed modifications/additions are as under:-

- (i) Addition of a boiler of capacity 18 TPH, ESP as air pollution control equipment for boiler
- (ii) Addition of MEE for concentration of spent wash,
- (iii) Installation of captive power generation plant of 1.5 MW and
- (iv) Installation of 2 MW bio gas based power plant within the existing premises.

Existing land area of distillery plant is 30 Acres. Industry has already developed greenbelt 33% of total area of the project. About 50,000 Nos. of trees have been planted so far in and around the industry. The estimated project cost for addition of MEE, boiler, co gen plant and bio gas genset plant is Rs. 14.42 Crores. Existing investment is Rs. 23 Crores. Capital cost earmarked towards environmental pollution control measures is Rs. 1698

Lakhs and the Recurring cost (operation and maintenance) will be about Rs. 84 Lakhs per annum. Total existing number of employees is 120 persons, 25 additional persons are proposed during the modification of the project.

There are no National Parks, wildlife sanctuaries, biosphere reserves, Tiger/ Elephant Reserves, wildlife corridors etc., within 10km distance from the plant site.

Total water requirement of the industry is 600 KLD after addition of Boiler and MEE (addition of 40 KLD of water to the present approved quantity of 560 KLD). The water requirement will be met from Krishna River located at about 22 km towards North East of the project site. Permission for water withdrawal is given by Krishna Bhagyajala Nigam, Government of Karnataka. Spent wash will be treated in Multi Effect Evaporator (MEE) to concentrate the spent wash. Concentrated spent wash generation is 84 KLD. Concentrated spent wash will be used for bio composting process. The utility effluents such as spent lees, evaporator condensate will be treated by Physicochemical treatment unit and re-used in process/molasses dilution or cooling tower make-up. Power requirement of the distillery plant is 800 KW/h. During Off season the industry depends on 1000 kVA capacity DG set only. Process emissions is mainly CO₂ from fermentation it will be scrubbed, recovered and bottled.

The Ministry has issued EC earlier vide letter dated 9th July, 2018 to the existing project in favor of M/s Siddapur Distilleries Limited. The Certified compliance report submitted by the Ministry's Regional office at Bangalore vide letter dated 13th August, 2019. The Action taken report submitted by the project proponent on 5th September, 2019. The Committee noted that since the instant proposal has submitted under provisions of para 7 (ii) of the EIA Notification, 2006, therefore the Committee deliberated the compliance status of earlier EC submitted by PP and found in order. There is no litigation pending against the project. There is no change in production capacities.

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with PFR report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The Committee has noted that there is no increase in production due to the proposed modification. The said modification is required as the steam requirement for the distillery was earlier sourced from adjacent unit of M/s Sri Prabhulingeshwar Sugars and Chemicals Limited. Since the parent sugar plant operates only 3 to 4 months during crushing season, it is not possible to run the distillery for remaining period of the year due to non-availability of steam. There is no major impact envisaged on the environment due to the modernization of the plant.

The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the PFR report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will

be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the Form 1/PFR report is in compliance of the notification/guidelines/OMs issued by the Ministry for such projects, reflecting the present environmental concerns and the projected scenario for all the environmental components. The compliance of the existing EC conditions found to be satisfactory. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of Environmental Clearance as per para 7(ii) of the EIA Notification, 2006 exempting ToR, fresh public hearing and EIA report. The Committee also suggested that that there shall not be any composting after 3 years.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions mentioned in the earlier EC dated 9th July, 2018 and general terms of conditions at **Annexure**.

Agenda No. 22.8

Expansion cum Modification of Synthetic Organic Chemicals (Dyes and Intermediates) manufacturing unit by M/s Colosperse Dyes and Intermediates (Unit-3) at Plot No.487, GIDC Sachin, Taluka Chorasi, District Surat (Gujarat) - Consideration of Environmental Clearance

[IA/GJ/IND2/153460/2019, SEIAA/GUJ/TOR/5(f)/810/2019]

The project proponent and their accredited consultant M/s. ENPRO Enviro Tech and Engineers Pvt. Ltd. made a detailed presentation on the salient features of the project through Video Conferencing (VC).

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for expansion cum Modification of Synthetic Organic Chemicals (Dyes and Intermediates) manufacturing unit from 248 TPM to 713 TPM by M/s Colosperse Dyes and Intermediates (Unit-3) at Plot No.487, GIDC Sachin, Taluka Chorasi, District Surat (Gujarat).

The details of products and capacity as under:

Sr. No.	Name of Product	CAS no.	Production Capacity	
			Existing (MT/Month)	Proposed Total (MT/Month)
1	Ortho Benzaldehyde Sulfonic Acid	--	15	Removed
2	Benzaldehyde 2,4 Disulfonic Acid	88-39-1	25	
3	Acid Blue 1	129-17-9	3	
4	Acid Blue 7	3486-30-4	5	
5	Acid Red 52	3520-42-1	10	
6	Direct Red 239	60202-35-9	25	
7	Bronner's Acid	93-00-5	10	
8	Direct Red 239 Liq.	60202-35-9	50	
9	Acid Blue 15	5863-46-7	20	
10	Acid Violet 17	4129-84-4	20	
11	Acid Violet 49	1694-09-3	20	
12	Acid Black 194	61931-02-0	20	
13	Reactive Black 5	12225-25-1	25	
	Total		248	
1	Group 1: Basic Liquid Dyes (Zero Discharged)			
1.1	Basic Violet 1 Liquid	8004-87-3	Nil	250
1.2	Basic Violet 3 Liquid	548-62-9		
1.3	Basic Violet 4 Liquid	2390-59-2		
1.4	Basic Green 1 Liquid	633-03-4		
1.5	Basic Green 4 Liquid	13425-25-7		
1.6	Basic Yellow 96 Liquid	78181-99-4		
1.7	Basic Yellow 90 Liquid	71550-24-8		
1.8	Basic Orange 60 Liquid	--		
1.9	Basic Violet 14 Liquid	632-99-5		
1.10	Basic Violet 16 Liquid	64346-30-1		
1.11	Basic Red 12 Liquid	6320-14-5		
1.1	Basic Blue 3 Liquid	33203-82-6		

2				
1.1 3	Basic Red 14 Liquid	12217-48-0		
1.1 4	Basic Red 18.1 Liquid	--		
2	Group 2: Liquid Dyes (Acid + Direct + Basic)			
2.1	Acid Yellow 23 Liquid	1934-21-0		
2.2	DT. Orange 102 / 118 Liquid	6598-63-6		
2.3	DT. Yellow 147 Liquid	4118-16-5		
2.4	DT. Yellow 157 Liquid	72705-26-1		
2.5	Direct Violet 35 - Liquid	--		
2.6	Direct Violet 51 - Liquid	5489-77-0	Nil	250
2.7	Direct Brown 44 Liquid	6252-62-6		
2.8	Basic Blue 140 Liquid	61724-62-7		
2.9	Basic Blue 26 Liquid	2580-56-5		
2.1 0	Acid Blue 9 Liquid	Sodium Salt (2650-18-2) Ammonium Salt (3844-45-9)		
3	Group 3: Liquid Dyes & Lakes Colours			
3.1	Dt. Yellow 11 Liquid	1325-37-7		
3.2	Direct Black 19 Liquid	--		
3.3	DT. Blue 267 Liquid	--		
3.4	Acid Red 87 Liquid	17372-87-1		
3.5	Direct Blue 279 Liquid	72827	Nil	50
3.6	Direct Blue 301 Liquid	--		
3.7	DT. Blue 290 Liquid	110444-91-2		
3.8	Acid Yellow 73 Liquid	CI-45350		
4	Group 4: D & C Dyes			
4.1	Acid Blue 80	4474-24-2		
4.2	Acid Green 25 (D & C Green 5)	4403-90-1	Nil	20
4.3	Acid Blue 140	12219-21-5		
4.4	Acid Violet 19	3244-88-0		
4.5	Solvent Blue 43	61813-75-0		

4.6	Solvent Black 46	65294-17-9		
4.7	Solvent Blue 67	12226-78-7		
4.8	Solvent Blue 70	12237-24-0		
4.9	Acid Blue 83	6104-59-2		
4.10	Acid Blue 90	6104-58-1		
5	Group 5			
5.1	Acid Violet 43 [External D & C Violet 2 (1:1:2)]	4430-18-6	Nil	8
5.2	Solvent Blue 38	1328-51-4		
6	Group 6: Liquid Dyes			
6.1	Acid Orange 7 Liquid	633-96-5		
6.2	Acid Yellow 36 - Liquid	587-98-4		
6.3	DT. Orange 15 Liquid	--		
6.4	DT. Red 253 Liquid	12222-51-4	Nil	110
6.5	Basic Brown 1 Liquid	8005-77-4		
6.6	Basic Brown 4 Liquid	8005-78-5		
6.7	Basic Violet 10 Liquid	81-88-9		
7	Group 7: Solvent Dyes Base			
7.1	Solvent Brown 41 (Basic Brown 1 Base)	1052-38-6	Nil	15
7.2	Solvent Brown 12 (Basic Brown 4 Base)	4482-25-1		
8	Group 8			
8.1	EBA Aldehyde	--		
8.2	DMA Aldehyde	90-87-9		
8.3	DEA Aldehyde	111-42-2		
8.4	Fischer Aldehyde	84-83-3	Nil	10
8.5	N-Methyl N - Cynoethyl 4 - Amino Benzaldehyde	94-21-3		
8.6	DEMAP Aldehyde	17754-90-4		
			Total (MT/Month)	713

All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'B' to be

appraised at State level. However, being the project is located inside the critically polluted area, the project appraised at Central level in the Ministry.

The Standard ToR was granted by the SEIAA vide letter SIA/GUJ/TOR/5(f)/810/2019 dated 24th May 2019. Public hearing is exempted as per para 7(i), III. Stage (3), (i)(b) of the EIA Notification, 2006, and in accordance with the Ministry's OM dated 27th April 2018, as the project site is located in the notified industrial area. No litigation is pending against the proposal.

Earlier SEIAA had issued EC vide letter No SEIAA/GUJ/EC/5(f)/235/2017; dated 24th April 2017 to the existing project – in favor of M/s Sachin Dyestuff Pvt. Ltd.

Existing land area is 765.28 sqm. Proposed expansion will be carried out within the existing premises. Green belt will be developed in an area of 100 sqm out of total area within plant premises of the project. As the proposed project is for an expansion project, unit does not have sufficient space available within plant premises for development of green belt. Thus, Unit has decided to develop green belt in COP of Sachin, GIDC area and unit has obtained NOC certificate for the same from Notified Area Authority (Sachin GIDC). The total estimated cost of the proposed expansion is Rs. 2 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 70 Lakh and the Recurring cost (operation and maintenance) will be about Rs 48.8 lakh per Annum. Total existing employment is 20. Proposed expansion project will generate 20 additional employments.

There are no National Parks, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km distance from the project site. Mindhola River flows at a distance of 3.9 km in South.

Ambient air quality monitoring was carried out at eight locations during 1st March 2019 to 31st May 2019 and the baseline data indicates the ranges of concentrations as: PM10 (40.4 – 123 $\mu\text{g}/\text{m}^3$), PM2.5 (20.7 – 70.8 $\mu\text{g}/\text{m}^3$), SO₂ (11.3 – 56.1 $\mu\text{g}/\text{m}^3$) and NO_x (20.1 – 58.2 $\mu\text{g}/\text{m}^3$), CO (0.19 – 0.91 mg/m^3), NH₃ (2.3 – 14.7 $\mu\text{g}/\text{m}^3$). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be PM10 - 0.048 $\mu\text{g}/\text{m}^3$, PM2.5 - 0.024 $\mu\text{g}/\text{m}^3$, SO₂ - 0.296 $\mu\text{g}/\text{m}^3$, NO_x - 0.044 $\mu\text{g}/\text{m}^3$. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Existing water requirement is 58 cum/day (53 cum/day for industrial + 5 cum/day for domestic activities). After proposed expansion, total water requirement will be 81.5 cum/day (76 cum/day for industrial + 5 cum/day for domestic + 0.5 cum/day for gardening). Unit will recycle and reuse 11.4 cum/day water from RO plant. Thus, fresh water requirement will be reduced to 70.1 cum/day. Fresh water will be met from Sachin Notified Area Authority (Sachin GIDC). Existing effluent generation is 26.3 cum/day (21.3 cum/day from industrial activities + 5 cum/day from domestic activities). Unit is sending 21.3 cum/day industrial effluent to common MEE facility of MEEPL. After proposed expansion, quantity of waste water shall be 37.7 cum/day (32.7 cum/day Industrial + 5 cum/day Domestic). 5 cum/day domestic waste water shall be disposed through soak

pit/septic tank. Domestic sewage of 5 cum/day will be disposed off through septic tank/soak pit system. The Committee deliberated the issue.

Existing energy required for the plant is 100 kVA and after proposed modification, project will consume total energy of 200 kVA which shall be obtained from Dakshin Gujarat Vij Company Limited (DGVCL). For power back up existing DG Set of 125 kVA is proposed to be replaced with new DG set with capacity of 150 kVA. Stack (height 10 m) will be provided as per CPCB norms to the proposed D.G. Set.

At present, unit has one stand-by boiler having capacity of 700 Kg/hr in which natural gas is used as fuel (2000 SCM/Day). One DG set having capacity of 125 KVA in which LDO (24 Lit/hr) is used as a fuel. After proposed expansion, stand by boiler will remain same and 30 m stack height shall be provided to the same. 125 KVA capacity DG set shall be replaced by 150 KVA capacity DG set in which 30 Lit/Hr LDO shall be used as a fuel. Industry is also member of common steam house facility and using steam from the Common Boiler Facility (Steam House). After proposed expansion/modification, industry will continue to use steam from common boiler facility.

Details of process emissions generation and its management is mentioned below:-

A FLUE GAS EMISION (EXISTING)				
S. No.	Stack attached to	Stack Height & Diameter	Fuel Consumption	Air Pollution Control System
1.	Steam Boiler* Capacity: 700 Kg/Hr. (Stand By)	Height - 10 Meters Diameter - 150 mm	Natural Gas @ 2000 SCM/Day	As Natural Gas is used as a fuel, about 10 meters stack height is provided
2	D. G. Set - Stand By Capacity: 125 KVA	Height - 5 Meters	LDO - 24 Litres/Hr	As LDO is used as a fuel, about 5 meters stack height is provided
B PROCESS GAS EMISION (EXISTING)				
S. No.	Stack attached to	Stack Height & Diameter	Pollutants	Air Pollution Control System
3	Process Vent (reaction vessel)	12 Meters	SO2	Two Stage Caustic Scrubber is provided
A FLUE GAS EMISION (PROPOSED TOTAL)				
S. No.	Stack attached to	Stack Height & Diameter	Fuel Consumption	Air Pollution Control System

1.	Steam Boiler* Capacity: 700 Kg/Hr. (Stand By)	Height - 30 Meters Diameter - 250 mm	Natural Gas @ 2000 SCM/Day	As Natural Gas is used as a fuel, about 30 meters stack height shall be provided as per CPCB Guidelines
2	D. G. Set - Stand By Capacity: 150 KVA	Height - 10 Meters	LDO - 30 Litres/Hr	As LDO is used as a fuel, about 10 meters stack height is provided
*Note: Industry is also member of common steam house facility and using steam from the Common Boiler Facility (Steam House). After proposed expansion/modification, industry will continue to use steam from common boiler facility.				
B PROCESS GAS EMISISON (PROPOSED TOTAL)				
S. No.	Stack attached to	Stack Height & Diameter	Pollutants	Air Pollution Control System
3	Process Vent (reaction vessel)	12 Meters	SO2	Two Stage Caustic Scrubber is provided
There will be no change in existing Process Vent & its Air Pollution Control System.				

Details of Solid waste/ Hazardous waste generation and its management is given below:-

S. no.	Type/ Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity (MT/year)			Management of HW
				Existing	Proposed	Total	
1	Used Oil	From Plant & Machinery	5.1	50 Litres/Year	0	50 litres/Year	Collection/ Storage/ Transportation / send to authorized Recycler
2	Discarded barrels/ containers/ liners	From Raw Material Packaging	33.1	120 Nos./Year	0	120 Nos./Year	Collection / Storage / Transportation / send to authorized Recycler
3	ETP Sludg	From Effluent	35.3	151.2 MT/Yea	58.8 MT/Ye	210 MT/Ye	Collection / Storage / Transportation / send to

S. no.	Type/ Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity (MT/year)			Management of HW
				Existing	Proposed	Total	
	le	Treatment Plant		r	ar	ar	TSDf Site for Landfilling
4	Spent Solvent (Nitro Benzene & TNBA)	From manufacturing of Dt. Yellow 11 Liquid (From Group 3) and DT. Orange 15 Liquid (From Group 6)	26.4	0	720 MT/Year	720 MT/Year	Collection / Storage / Reuse in to Same Process
5	Distillation Residue	From manufacturing of Dt. Yellow 11 Liquid (From Group 3) and DT. Orange 15 Liquid (From Group 6)	20.3	0	18 MT/Year	18 MT/Year	Collection / Storage / Transportation / Sent to CHWTSDf for Incineration/ Sent for Cement Co-Processing
6	Process Sludge	From Manufacturing of Acid Blue 9 Liquid (Group 2), Direct Black 19 Liquid & Acid Red 87 Liquid	26.1	102 MT/Year	-42 MT/Year	60 MT/Year	Collection / Storage / Transportation / Sent to CHWTSDf for Incineration/ Sent for Cement Co-Processing

S. no.	Type/ Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity (MT/year)			Management of HW
				Existing	Proposed	Total	
		(Group 3), Acid Violet 19 (Group 4), Acid Yellow 36 - Liquid (Group 6)					

The certified EC compliance report has been obtained by Ministry's Regional office at Bhopal vide File No. 18-A-12/2019(SEAC)/414 dated 02/07/2019 and date of site visit was Jun 21 2019 12:00AM. The Committee deliberated the compliance status of earlier EC conditions and found to be satisfactory.

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006 and the guidelines issued by the Ministry on critically polluted area and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be

followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, **subject to transfer of existing EC** in the name of M/s Colosperse Dyes and Intermediates (Unit-3) from M/s Sachin Dyestuff Pvt Ltd., and further, to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25th October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.
- (ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iv) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (v) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (vi) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (viii) Total fresh water requirement shall not exceed 70.1 cum/day, proposed to be met from GIDC supply. Necessary permission obtained in this regard shall be renewed

from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.

- (ix) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (x) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xi) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xii) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xiii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiv) As proposed green belt of at least 10-20 m width shall be developed mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. As committed by the project proponent, the greenbelt area shall be developed and maintained in an area of 40% out of the total project area.
- (xv) As proposed 4% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER) as per Ministry's OM dated 01.05.2018 & CPA OM dated 31.10.2019.

- (xvi) As proposed, the CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.
- (xvii) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Reconsideration of Environment Clearance.

Agenda No.22.9

Expansion of Ethyl Chloride (From Ethyl Alcohol), Ethyl Chloride (From Mixed Solvent of Existing Process), Methyl Chloride (From Methyl Alcohol) & Hydroxy Propyl Methyl Cellulose (HPMC) manufacturing unit from 96.54 TPM to 1028.54 TPM by M/s Asha Cellulose (I) Pvt Ltd. located at S. No. 303/2, 303/P, 273/2, 275/1 Village Abrama, Taluka Valsad, District Valsad, (Gujarat) - Reconsideration of Environmental Clearance

[IA/GJ/IND2/118582/2019, J-11011/316/2011-IA II (I)]

The project proponent and their consultant M/s Eco Chem Sales & Services (ECSS) made a detailed presentation through Video Conferencing (VC) on the salient features of the project.

The proposal was earlier considered by the EAC in its meeting held during 21-23 January, 2020. The additional information desired by the Committee and response from the project proponent is as under:

S. No.	Query Raised in earlier EAC meeting	Query Reply Given by PP	Observation of EAC
1.	CRZ map to be submitted to establish the fact whether CRZ is involved in the project. The comments from CRZ division of this Ministry may be obtained	Asha cellulose (I) Pvt. Ltd. owns land vide survey No. 303/2, 302/P, 273/2, 275/1. Some part of survey no. 303/2 and 302/P is falls under NDZ (No Development Zone) as per CRZ. In existing unit NDZ area is developed as greenbelt and same will be maintained after expansion. The proposed expansion	The EAC deliberated the report of the Institute of Remote Sensing (IRS) – Anna University, Chennai and CRZ map prepared by IRS and found the report to be satisfactory and suggested that a condition may be imposed as “no

		<p>project will be constructed outside of NDZ (100 Meters from HTL). We herewith confirm again that no construction will be carried out in NDZ.</p> <p>For prove the fact, fresh GPS survey of our site was carried out on 14th March 2020 by the representatives of Institute of Remote Sensing (IRS) – Anna University, Chennai and site plan is superimposed on CRZ map prepared by IRS which is approved agency by MOEFCC for preparation of CRZ map. Hence, no construction will be carried out during the proposed expansion in NDZ area.</p>	<p>construction will be carried out during the proposed expansion of the project in No Development Zone (NDZ) area”.</p>
2.	Onsite emergency plan as per MSIHC Rules and occupational health plan	<p>On-Site Emergency Plan has been prepared as per guidelines of MSIHC Rules and Gujarat Factory Rules And in accordance with proposed expansion. This on-site emergency plan has been prepared taking into consideration;</p> <ul style="list-style-type: none"> • Health & Safety Policy • Storage of Haz chemicals • Fire and toxicity control • Medical Arrangements • Post emergency control • Major risk and control etc. • Copy of the same in PDF uploaded in ministry’s portal. 	The EAC found the reply to be satisfactory
3.	Alternate source of fresh water other than ground water to be submitted	<p>Presently, we are using 37.48 KLD of fresh water from our own bore well. After proposed expansion, we will use only 37.48 KLD fresh water from our bore well. There will be no additional fresh water required</p>	The EAC found the reply to be satisfactory

		<p>for proposed expansion. Additional fresh water will be obtained from Raw material like 30% HCl, Caustic lye. Entire waste water generated from process as water of reaction, washing, cooling tower and boiler blow down will be treated in primary, secondary and tertiary ETP followed by RO and MEE. RO permeate and MEE condensate will be recycled\reused to compensate fresh water consumption.</p> <p>Thus, there will be no requirement of additional fresh water.</p> <p>To minimize ground water consumption, we are planning to collect rain water during monsoon season and will be utilized for process operations. We have allocated seven lakh rupees for this purpose.</p>	
4.	Action Taken Report on non-compliance points in the existing EC conditions to be forwarded by the Regional Office of the Ministry	<p>Certified action Taken Report on non-compliance points in the existing EC conditions has been obtained from RO-Bhopal. All conditions have been complied. Only one condition related to ESC is partly complied. A time targeted action plan under Enterprise Social Commitment for various welfare activities till 2023-24 is already made available in the Action Taken Report submitted by the PP in compliance of Condition no. xxi. As the implementation of such action plan is to be ensured accordingly in a time bound manner. The implementation of the action</p>	The EAC found the reply to be satisfactory

		plan has been directed to be reported regularly in the six-monthly compliance report to be furnished to MOEFCC, RO Bhopal. Copy of the same is uploaded in portal.	
5.	Issues raised during public hearing, response by the project proponent, action plan with budgetary allocation and its time lines needs to be submitted	Issues raised during public hearing, response by the project proponent, action plan with budgetary allocation has been submitted.	The EAC found the reply to be satisfactory
6.	Committee noted that there is no qualified person in the EMC. PP needs to submit the clarification and appoint the adequate person in the EMC	We have recruited an Environmental Engineer (M.Tech) in January 2020	The EAC found the reply to be satisfactory
7.	PP needs to identify the alternate source of water	Same as s. no.3	The EAC found the reply to be satisfactory
8	Details of activities related to CER, as committed @ 5%, needs to be submitted	Revised CER plan has been submitted.	The EAC found the reply to be satisfactory. The EAC also decided to imposed CER as per the Ministry's OM dated 31 st May, 2018

During deliberations, the EAC noted the following: -

The proposal is for environmental clearance to the project for expansion of Ethyl Chloride (From Ethyl Alcohol), Ethyl Chloride (From Mixed Solvent of Existing Process), Methyl Chloride (From Methyl Alcohol) & Hydroxy Propyl Methyl Cellulose (HPMC) manufacturing unit from 96.54 TPM to 1028.54 TPM by M/s Asha Cellulose (I) Pvt Ltd in an area of 31,874 sqm at S. No. 303/2, 303/P, 273/2, 275/1 Village Abrama, Taluka Valsad, District Valsad, (Gujarat).

The standard ToR for the project was granted on 18th March, 2019. Public hearing was conducted by the State Pollution Control Board on 20th August, 2019. The Public hearing was chaired by the Collector & District Magistrate.

There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance of the project site. Auranga River is at a distance of 0.24 km in North direction.

The Ministry had issued EC earlier vide letter no. J-11011/316/2011-IA-II (I); dated 25th June 2015 to the existing project in favour of M/s. Asha Cellulose (I) Pvt. Ltd. Certified compliance report has been submitted by the Regional Office of the Ministry, Bhopal and also the action Taken Report were examined and deliberated by the Committee and found in order.

Existing land area is 31,874 sqm. and no additional land will be required for proposed expansion. Industry has already developed/ will develop greenbelt in an area of 32 % i.e. 10,125 sqm out of total area of the project. The estimated project cost is Rs. 3054.27 lacs including existing investment of Rs.1516.27 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 402.5 Lakhs and the recurring cost (operation & maintenance) will be about Rs214 Lakhs per annum. Total Employment will be 50 persons as direct & 15 persons indirect after expansion. Industry proposes to allocate Rs15.3 Lakhs towards Corporate Environment Responsibility which is 1% of the project cost as per the OM F.No.22-65/2017-IA.III dated 1st May 2018.

Ambient air quality monitoring was carried out at 8 Nos. locations during December 2018 to February 2019 and the baseline data indicates the ranges of concentrations as: PM10 (62.5–87.3µg/m³), PM2.5 (32.1 – 48.4µg/m³), SO₂ (8.6 – 17.8µg/m³) and NO₂ (13.2 – 23.6µg/m³). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be a. 1.14µg/m³, b. 1.83µg/m³ and 1.70µg/m³ with respect to PM10, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards. (NAAQS).

Total water requirement is 244.9 cum/day (Fresh: 37.48 cum/day + Recycled from RO/MEE is 207.5 cum/day) of which fresh water requirement of 37.48 cum/day will be met from own Bore Well. Effluent (Industrial) of 218.015 KLD quantity will be treated through ETP followed by RO & MEE. The plant will be based on Zero Liquid discharge system (if applicable). Total Industrial waste water generation will be 218.015 KLD. 10.55 KLD high TDS water will be directly sent to MEE. Balance 207.465 KLD water will be treated in primary, secondary and tertiary treatment plant. Treated water will be taken to Reverse Osmosis. 173 KLD RO permeate will be recycled in the process. Balance 30 KLD of RO rejected will be taken to MEE. 34.5 KLD of MEE condensate will be recycled in the process. Thus there will be no discharge of industrial effluent on land.

Power requirement after expansion will be 1000 kVA including existing 650 kVA and will be met from Dakshin Gujarat Veej Co. Ltd. Existing unit has 02 DG sets of 110 kVA capacity and another of 35 kVA. No additional DG set will be installed. DG sets will be used as standby during power failure. Stack (height 11 m) will be provided as per CPCB norms to the proposed DG sets. Existing unit has one number of natural gas/FO fired boiler of 3 TPH capacity. Existing three numbers of 800 kg/h capacity of boiler will be discontinued. Existing two numbers of hot air generator will be continued. Additional one number of coal fired boiler of 3.5 TPH capacity and one number of FO/natural gas fired 6 lakhs k cal/h capacity of thermospak and one number of natural gas/LDO fired hot air generator of 6 lakhs k cal/h capacity will be installed. 30 meters height of chimney with SMF provided to 3 TPH boiler, 15 meters common chimney provided for three HAG. 30

meters chimney with ESP will be provided to 3.5 TPH coal fired boiler. 11 meters height of chimney will be provided to 6 lakhs k cal/h capacity of thermo pack.

There will be no process gas emission from the reaction. Vent attached to spin flash dryer is considered as process gas emission. Existing two numbers of spin flash dryer having capacity of 50 kg/h and 100 kg/h will be used. One additional spin flash dryer having a capacity of 100 kg/h will be installed. Adequate capacity of separate cyclone separator and bag filter along with 11 meters chimney for each spin flash dryer will be provided.

Details of Solid waste/ Hazardous waste generation and its management:

S. No.	Process waste	Category	Source	Quantity, TPA			Mode of disposal
				Existing	Proposed	Total	
1	Used oil	Sch: I/5.1	Machinerie s/ D.G.Set	0.092	0.018	0.11	Incineration at common incineration system of BEIL, Ankleshwar / sold to authorized recyclers
2	Discarded containers /bags	Sch: I/33.1	Raw Material Storage area & Utility Area	50	12	62	reused for packing of solid waste or sold to registered recyclers
3	ETP waste	Sch: I/35.3	ETP	109	21	130	Collection, Storage, transportation and Disposed off into TSDF site of BEIL, Ankleshwar or VGEL, Vapi
4	MEE waste	Sch:I/3 5.3	MEE	234	714	948	Collection, Storage, transportation and Disposed off into TSDF site of BEIL, Ankleshwar or VGEL, Vapi
5	Dust from air	Sch:I/2 6.2	air filtration	0.22	0	0.22	Recycled in process

	filtration system		system				
6	Salt from process	Sch:I/2 6.1	Manufacturing process	1703	0	1703	Collection, Storage, transportation and Disposed off into TSDF site of BEIL, Ankleshwar or VGEL, Vapi.
7	Mixed Solvent from the process	Sch:I/2 6.4	Manufacturing process	1787.44	9.98 + 51.96 (vent condenser and HPMC product)	1849.38 61.9	1787.44 MTPA of mix solvent from solvent process and aqua process will be utilized for manufacture of Ethyl chloride product within the premises and balance 61.9 MTPA of mixed solvent will be sold to actual distillator
8	Distillation Residue / & Laboratory organic waste	Sch:I/2 6.1	Manufacturing process	23.0	- 18.78	4.22	Collection, storage transportation, disposal to BEIL incineration facility.
9	Spent carbon from ETP & Chimney	Sch:I/3 6.2	ETP/Chimney	4.8	1.2	6.0	Collection, storage transportation, disposal to BEIL incineration facility.
10	Date-Expired, Discarded and off-specification Material & floor	Sch:I/2 8.5	Product Storage area	1.0	1.0	2.0	Collection, storage transportation, disposal to BEIL incineration facility.

	sweeping						
11	Spent Filter cloth & filter material	Sch:I/3 6.2	From process plant	1.0	0	1.0	Collection, storage transportation, disposal to BEIL incineration facility.
12	Spent Resins from D M plant	Sch:I/3 5.2	D M plant	1.0	0.2	1.2	Collection, storage transportation, disposal at TSDf/BEIL Collection, storage transportation, disposal at TSDf/BEIL
13	Used hot & cold insulation material	Schedule: X/02	Manufacturing process	0.5	0.1	0.6	Collection, storage transportation, disposal at TSDf/BEIL
14	Weak caustic soln (18-20%)	Sch: II/C2	Manufacturing process	4430.4	0	4430.4	Sell to actual/authorized users
Solid Waste							
15	Fly ash	-	Boiler	0	179	179	Sell to Brick manufacturer

The details of existing products and proposed capacity are as under:

Sr. No.	Product	CAS No.	Capacity, TPM			End-Use
			Existing	Proposed	Total	
1.	Ethyl Cellulose (Aqua Process)	9004-57-3	20.0	0	20.0	Used in the manufacture of printing inks, solar paste, specialty paints, in electronic applications, as a binder and coating agent in pharma industry besides
2.	Ethyl Cellulose (Solvent Process)	9004-57-3	31.72	0	31.72	
3.	Ethyl Cellulose Aqueous Dispersion- Non Plasticized	9004-57-3	20.124	0	20.124	

4.	Ethyl Cellulose Aqueous Dispersion-Plasticized	9004-57-3	24.70	0	24.70	defense purposes. Used for coating application in Pharmaceutical Industries
5.	Ethyl Chloride (From Alcohol)	75-00-3	0	322.0	322.0	Used as a raw material in the manufacture of Ethyl cellulose and other chemical synthesis.
6.	Ethyl Chloride (From existing mix solvent)	75-00-3	0	160.0	160.0	
7.	Methyl Chloride	74-87-3	0	250.0	250.0	Used as a raw material in the manufacture of HPMC and other chemical synthesis.
8.	Hydroxy propyl methyl cellulose (HPMC)	9004-65-3	0	200.0	200.0	Used in pharmaceutical coating applications
Total		---	96.544	932.000	1028.544	

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the public hearing issues, action plan and CER plan and found to be addressing the issues in the study area and the issues raised during the public hearing. Additional information submitted by the project proponent to be satisfactory and addressing the concerns of the Committee. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the

proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of Environmental Clearance (EC).

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance and to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i). No construction will be carried out during the proposed expansion of the project in the No Development Zone (NDZ) area as per CRZ Notification.
- (ii). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii). Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (iv). As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (v). Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (vi). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vii). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.

- (viii). Total fresh water requirement shall not exceed 37.48 cum/day, proposed to be met from bore well. Prior permission in this regard shall be obtained from the concerned regulatory authority/CGWA.
- (ix). Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system. All the vent pipes should be above the roof level.
- (x). Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xi). Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xii). Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xiii). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiv). The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xv). As proposed 1% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.

- (xvi). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No.22.10

Proposed Dyes and Dye Intermediates Manufacturing Unit - Universal Dyes and Intermediates at Vadodara (Gujarat) by M/s UNIVERSAL DYES AND INTERMEDIATES - Reconsideration of Environment Clearance

[IA/GJ/IND2/131290/2019, IA-J-11011/423/2019-IA-II(I)]

The Project Proponent and their consultant M/s Aqua-Air Environmental Engineers Pvt. Ltd. (Hon'ble High Court of Gujarat stay order), made a detailed presentation through Video Conferencing (VC) on the salient features of the project.

The proposal was earlier considered by the EAC in its meeting held during 15-17 June, 2020, wherein the EAC observation was as under:

- (i) Revised water balance with details of total water and fresh water requirement and details of water recycling and reuse.
- (ii) Effluent treatment mechanism with plan for Zero Liquid Discharge.
- (iii) Revised layout plan with 40% greenbelt area.
- (iv) Revised the EMP cost as the same is not adequate for the same.

In response of the same the project proponent has submitted the point wise reply as under:

S. No.	Additional information sought by the EAC	Reply submitted by the project proponent	Observation of EAC
1.	Revised water balance with details of total water and fresh water requirement and details of water recycling and reuse	Total water requirement for the unit will be 112 KL/Day (Fresh: 38 KL/Day + Reuse: 74 KL/Day) of which fresh water requirement of 38 KL/Day will be met from GIDC Water Supply.	EAC found the reply to be satisfactory
2.	Effluent	83 KL/Day Industrial Effluent from	EAC noted that

	treatment mechanism with plan for Zero Liquid Discharge	process and utilities will be treated in ETP-1 followed by RO and 74 KL/Day RO Permeate will be re-used within premises in Boiler (10 KL/Day), Cooling (3 KL/Day), Washing (1 KL/Day) and Process (60 KL/Day). 13 KL/Day Industrial effluent from Process, 3.01 KL/Day from Scrubber along with 9 KL/Day RO Reject will be treated in ETP-2 and 25 KL/Day treated effluent will be disposed to CETP of M/s Nandesari Industries Association, Nandesari. ETP details has been submitted.	the unit is not complete zero liquid discharge.
3.	Revised layout plan with 40% greenbelt area	Total 1650 sq. meter land area is available at site; out of this area about 160 sq. m. (9.60 %) area will be covered as greenbelt and other forms of greenery. Remaining 500 sq. m. (30.4%) of Green belt will be developed in GIDC area and permission is obtained vide Letter No. NIA/BCP/2020-21 dated 02nd May 2020. Plot layout is attached as Annexure3 and GIDC permission letter is attached	EAC found the reply is satisfactory
4.	Revised the EMP cost as the same is not adequate for the same.	Revised EMP cost after including cost of waste water treatment is attached	EAC found the reply to be satisfactory

The proposal is for environmental clearance to the project for Setting up of dyes and dyes intermediates manufacturing unit of capacity 35 TPM by M/s. Universal Dyes and Intermediates in an area of 1650 sqm., located at Plot No.136, GIDC Nandesari, District Vadodara (Gujarat).

The details of products and capacity as under:

S. No.	Name of the Products	CAS no. /CI no.	Total Quantity MT/Month	End-use of products

Group-A						
1	Vat Golden Yellow GK or Vat Golden Yellow RK	1324-11-4	7.5	Textile industries		
2	Vat Magenta B or Vat Red Violet RRN or CCI Vat Violet 3	379-75-1				
3	Vat Pink R or D & C Red 30 (CI Vat Red 1)	2379-74-0				
4	Vat Orange RF or CCI Vat Orange 5	552-75-8				
5	Vat Yellow 5G	129-09-9				
AND/ OR						
Group-B						
6	Vat Violet 2R	522-75-8	35			
7	Vat Olive T	4395-53-3				
8	Vat Olive Green B	3271-76-9				
9	Vat Blue RSN	81-77-6				
10	Vat Navy Blue BR or CI Vat Blue 4	1324-54-5				
11	Vat Brown BR or CCI Vat Brown 1	2475-33-4				
12	Ortho Benzoyl Benzoic Acid	85-52-9				
13	Benzanthrone	82-05-3				
14	Anthraquinone	84-65-1				
15	1- Nitro Anthraquinone	82-34-8				
16	1- Amino Anthraquinone	82-45-1				
17	1- Acetyl Napthalene or αNaphthyl methyl ketone	941-98-0				
18	BromoBenzanthrone	81-96-9				
19	DibromoBenzanthrone	81-98-1				
20	Vat Blue 20 (Dark Blue BO)	116-71-2				
21	Indigo Sols (Solubelize Vat Dyes)	482-89-3				
TOTAL					35	

Note: Either of Group-A and/ or Group-B will be manufactured and maximum of 35 MT/Month shall be manufactured.

1	Hydrochloric Acid Solution (3%)	7647-01-0	23.33	Organic Chemical Production
2	HBr (5%)	10035-10-6	38.33	Bromine recovery
3	Sodium Bromide Solution	7647-15-6	35.00	Bromine recovery
4	Potassium Sulphate Solution	7778-80-5	71.00	Dilution purpose in dyes industries
5	Copper Sulphate	7758-98-7	34.00	Copper recovery & for different salt production
6	Aluminium Chloride	7446-70-0	525.00	PAC production, Treatment of wastewater
7	Zinc Sulphate	7733-02-0	69.00	Zinc Hydroxide & Carbonate
8	Nitric Acid 30%	7697-37-2	292.00	Reuse in plant
9	Sodium Chloride Solution	7440-23-5	17.34	Dyes industries
	Total		1105	

Note: In case above mentioned by-products are not saleable, it can also be treated in ETP.

All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'B' to be appraised at State level. However, being the project is located inside the critically polluted

area, the project appraised at Central level in the Ministry. The project proposal was granted Standard TORs by Ministry vide letter No. IA-J-11011/423/2019-IA-II(I); dated 10th March, 2020.

PP reported that 1,650 m² Land area will be used for proposed project. Greenbelt will be developed in an area of 9.6% in the premises and remaining greenbelt of 30.4% i will be developed in GIDC area and permission is obtained vide Letter No. NIA/BCP/2020-21 dated 02nd May 2020. The estimated project cost is Rs. 2.0 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 0.4 Crores and the Recurring cost (operation and maintenance) will be about Rs. 0.7 Crores per annum. Total Employment will be 30 persons. PP reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.

Ambient air quality monitoring was carried out at 9 locations during October, 2018 to December, 2018 and submitted baseline data indicates that ranges of concentrations of PM10 (77.35 – 72.38 µg/m³), PM2.5 (47.49 – 42.3 µg/m³), SO₂ (19.15 – 11.07 µg/m³) and NO₂ (22.19 – 13.11 µg/m³) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.09 µg/m³, 0.17 µg/m³, and 0.06 µg/m³ with respect to PM10, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement for the unit will be 112 KL/Day (Fresh: 38 KL/Day + Reuse: 74 KL/Day) of which fresh water requirement of 38 KL/Day will be met from GIDC Water Supply. 83 KL/Day Industrial Effluent from process and utilities will be treated in ETP-1 followed by RO and 74 KL/Day RO Permeate will be re-used within premises in Boiler (10 KL/Day), Cooling (3 KL/Day), Washing (1 KL/Day) and Process (60 KL/Day). 13 KL/Day Industrial effluent from Process, 3.01 KL/Day from Scrubber along with 9 KL/Day RO Reject will be treated in ETP-2 and 25 KL/Day treated effluent will be disposed to CETP of M/s Nandesari Industries Association, Nandesari. ETP details has been deliberated by the EAC.

Power requirement for proposed project will be 125 KVA and will be met from MGVCCL. DG set of 20 KVA capacity shall be used as standby during power failure. Stack (height 3 m) will be provided as per CPCB norms to the proposed DG sets of 20 KVA which will be used as standby during power failure. Unit shall have 1 Nos. of 1 TPH Briquettes of Biocoal = 3 MT/Day fired boiler, 1 Nos. of 4 Lakh Kcal/Hr Briquettes of Biocoal = 4 MT/Day fired Thermic Fluid Heater, 1 Nos. of Briquettes of Biocoal = 2 MT/Day fired Hot Air Dryer will be installed. Cyclone separator with a stack of height of 11 m for Boiler and 10 m for Thermic Fluid Heater and Hot Air Dryer respectively will be installed for controlling the Particulate emissions (within statutory limit of 150 mg/Nm³) respectively.

Details of Process emissions generation and its management.

1) Flue Gas Stack

Sr. No.	Source of Emission	Stack Height (meter)	Type of Fuel	Quantity of Fuel MT/Day	Type of Emission	Air Pollution Control Equipment
1.	Boiler (1 TPH)	11	Briquettes of Bio-Coal	4.5 MT / day	SPM SO ₂ NO _x	Cyclone separator
2.	Hot Air Dryer	10	Briquettes of Bio-Coal	2 MT / day		Cyclone separator
3.	Thermic Fluid Heater (4 Lac KCal)	10	Briquettes of Bio-Coal	4 MT / day		Cyclone separator
4.	D. G. Set (20 KVA)	3	HSD	100 Lit./ day		Adequate Stack Height

Process Stack

Sr. No.	Source of Emission	Type of Emission	Stack Height (meter)	Air Pollution Control Equipment
1.	Process Vent-1	HCl Cl ₂	9	Two Stage Water + Alkali Scrubber followed by Dipped Caustic tank.
2.	Process Vent-2	SO ₂		
3.	Process Vent-3	NH ₃		
4.	Process Vent-4	NO _x		
5.	Process Vent-5	Br ₂		

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006 and the guidelines issued by the Ministry on critically polluted area and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, and further, to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25th October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.
- (ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii) Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iv) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (v) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (vi) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (viii) Total fresh water requirement shall not exceed 112 KLD, proposed to be met from GIDC supply. Necessary permission obtained in this regard shall be taken and renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.

- (ix) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (x) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xi) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xii) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xiii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiv) As proposed green belt of at least 10-20 m width shall be developed mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. As committed by the project proponent, the greenbelt area shall be developed and maintained in an area of 40% out of the total project area.
- (xv) As proposed 4% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER) as per Ministry's OM dated 01.05.2018 & CPA OM dated 31.10.2019. As proposed, the CER allocation shall be spent mainly for addressing the issues including education/skill development, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.

- (xvi) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Amendment in Environment Clearance

Agenda No.22.11

Setting up fine chemicals and Agro Intermediates manufacturing unit by M/s Neogen Chemicals Limited at Plot No. Z/109, SEZ Dahej, Tehsil Vagra, District Bharuch (Gujarat) – Amendment in Environment Clearance

[IA/GJ/IND2/153198/2020, IA-J-11011/117/2019-IA-II(I)]

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide letter no. J-11011/117/2019-IA-II(I) dated 7th January, 2020 for the Project of setting up fine chemicals and Agro Intermediates manufacturing unit at Plot No. Z/109, SEZ Dahej, Tehsil Vagra, District Bharuch (Gujarat) in favour of M/s Neogen Chemicals Ltd. The project proponent has requested for amendment in the EC with the details are as under;

Sr. No.	Para of EC issued by MoEF&CC	Details as per EC	To be revised/Read as	Justification/ reasons
1.	Condition No. 6 (2 nd Para, Page 5 of 10)	Three D.G. Sets of 250 kVA capacity each will be installed and used as standby during power failure.	One D.G. Set of 750 kVA will be installed and used as standby during power failure.	Better thermal and fuel efficiency
2.	Condition No. 6 (2 nd Para, Page 5 of 10)	Proposed unit will have 3 nos. of PNG/FO fired Boiler of 2 TPH each.	Proposed unit will have One PNG/FO/Agro Briquettes fired boiler of 6 TPH. and Addition of Two PNG/FO/Agro briquettes fired 3 TPH Boilers*(of which one will be stand by) are being proposed. Stack	Consolidation of 3 small capacity boilers into one bigger capacity and better thermal and fuel efficiency MEE operations to achieve ZLD

			height of 30 m will be provided for the proposed boiler.	
<p>Note: * At the time of EIA-EMP proposal, PP had proposed treated effluent discharge into sea through GIDC drainage. During appraisal presentation, committee insisted to achieve ZLD and we agreed to do so. But additional Boiler was not covered in Granted EC letter. At the time of acceptance of ZLD, we have proposed 4 nos. of stand by boilers (2 TPH each, out of which 3 for process and 1 for MEE). However, our recent calculations show that additional boiler will be required for the MEE operation to achieve ZLD. Two 3 TPH boilers (of which one will be stand by) are being proposed for the MEE operations to achieve ZLD.</p>				

The Committee, after detailed deliberations, **recommended the amendments in EC, as proposed by the project proponent, with all other terms and conditions remain unchanged.**

Agenda No. 22.12

Expansion of Pesticides and Pesticide Specific Intermediates manufacturing unit at E51-1&2, E52, MIDC Notified Industrial Estate Tarapur, Boisar, District Palghar (Maharashtra) by M/S UPL Ltd (Unit 10) - Amendment in Environment Clearance

[IA/MH/IND2/150671/2020, IA-J-11011/7/2017-IA II(I)]

The proposal is for amendment in the Environmental Clearance granted by Ministry vide letter dated 17th January, 2020 to the project for Expansion of Pesticide & Pesticide Specific Intermediates Manufacturing Unit Located at Plot No E-51-1&2, E52, MIDC Notified Industrial Estate Tarapur, Boisar, District Palghar (Maharashtra) in Favour of M/s UPL Limited (Unit 10).

The project proponent has requested for amendment in the EC with the details are as under:

S. No	Para of EC issued by MoEF&CC	Details as per EC	To be Revised / Read as	Justification (Reasons)
1	EC Condition No 12 (xix) –	At least 5 % of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along	At least 1.5 % of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-	<ul style="list-style-type: none"> The competitive landscape post COVID 19 is becoming economically challenging with both shrinking demand and competitive prices. Entire chemical industry including new projects are passing

		<p>with time bound action plan shall be prepared and submitted to the Ministry's Regional Office</p>	<p>wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office</p>	<p>through critical time for their business viability.</p> <ul style="list-style-type: none"> • The high CER % of our projects are becoming unviable in current challenging market situation. On the other hand, our above projects once implemented will support substituting imports currently done from China. • We like to Inform, in response to COVID-19 pandemic situation, UPL has already contributed Rs. 75 Crores to PM Cares Fund in April 2020. <p>Additionally, following contributions have also been made by UPL</p> <ul style="list-style-type: none"> • Handed over almost 1.75 Lakhs Personal Protective Equipment (PPE) Kit to Ministry of Health and Family Welfare New Delhi for distribution across the country. • Sponsored several states by providing sanitising services using our several large number of mechanised spraying machines. Each machine costs around 25-30 Lakhs. The sanitisation work in the vicinity of public services like hospitals and police stations has been done in collaboration with frontline local health officers. • UPL Continues to spend
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				<p>CSR Activities much beyond the mandatory requirements of 2% Annually.</p> <ul style="list-style-type: none"> We request to consider Lower CER as per MoEF&CC OM F-22-65/2017-IA.III dated 1st May 2018.
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The EAC noted the project proponent has requested for revision in CER amount as per the Ministry's Office Memorandum dated 1st May, 2018. The EAC during deliberation suggested that the request of project proponent for consideration of CER as per the Ministry's OM dated 1st May, 2018 may be accepted.

The Committee, after detailed deliberations, **recommended** the **amendments in EC**, as proposed by the project proponent, with all other terms and conditions remain unchanged, as below:

Para 12(xix) of EC w.r.t. shall be read as, "Funds Allocation for the Corporate Environment Responsibility (CER) shall be 1.5 % of the total project cost as per slabs mentioned in the Ministry's OM dated 01.05.2018. Item-wise details along with time bound action plan shall be implemented and submitted to Ministry's Regional Office".

DAY 2: 18th August, 2020 (Tuesday)

Consideration of Environmental Clearance

Agenda No. 22.13

New Pesticide Plant at Plot No. IC-50 MIDC Butibori Industrial Estate, Village Pahi Tal: Hingana, Dist: Nagpur (Maharashtra) by M/s Universal Agro Chemical Industries- Consideration of Environmental Clearance

[IA/MH/IND2/124589/2019, IA-J-11011/333/2019-IA-II(I)]

The Project Proponent and their accredited Consultant M/s EQMS India Pvt Ltd made a detailed presentation on the salient features of the project and informed that:

The proposal is for environmental clearance to the project for Setting up Pesticide Manufacturing Plant of capacity 3600 TPA at Plot no. IC-50, MIDC Butibori Industrial Estate, Village Pahi Taluka Hingana, District Nagpur, Maharashtra by M/s Universal Agro Chemical Industries.

The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

Standard Terms of Reference (TOR) was issued by MoEF&CC vide letter no. dated 12.12.2019. Total plot area will be 12500 m². Industry will develop greenbelt in an area of 33.5 % i.e., 4177 m² out of total area of the project. The estimated project cost is Rs 17.7 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs 163 Lakhs and the Recurring cost (operation and maintenance) will be about Rs 25 Lakhs per annum. Total Employment generation will be 400 persons as direct & indirect for the proposed project. Industry propose to allocate Rs 0.354 Crores @ of 2 % towards Corporate Environment Responsibility.

There are no Wildlife sanctuary, National parks, Biosphere Reserves, Tiger/Elephant Reserves, etc. within 10 km distance from the project site. There are seven reserve forests (Nearest- Bid Sukli RF at a distance of 1.26 km NW) within 10 km distance from the project site. Vena River is flowing at a distance of 4.31 km in East direction.

Ambient air quality monitoring was carried out at 8 locations during 1st October to 31st December, 2019 and the baseline data indicates the ranges of concentrations as: PM10 (84-120 µg/m³), PM2.5 (38-65 µg/m³), SO₂ (8.6-15.1 µg/m³) and NO₂ (16.6-24.4 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.132 µg/m³, 0.112 µg/m³ and 0.369 µg/m³ with respect to PM10, SO_x and NO_x respectively. PM10 is higher at one location (Wateghat) out of eight with respect to NAAQS and rest parameter concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement will be 74 m³/day, which includes fresh water requirement of 39 m³/day supplied by MIDC and rest from in-house treated water (35 m³/day). Effluent of 48 m³/day (including domestic and industrial) will be treated through MEE, ETP, STP and RO. The plant will be based on Zero Liquid Discharge System. Power requirement will be 1250 kWh will be met from Maharashtra State Electricity Corporation Limited (MSEDCL). D.G. sets of capacity 3x400 kVA will be provided. Stack (height- 4.7 m) will be provided as per CPCB norms to the proposed DG sets.

Agro-briquette (Rice briquette) based Boiler (1x5MT/hr) will be installed in the unit. LDO based Thermic Fluid Heater (5 nos.- 6,00,000 Kcal/hr each) & Hot water unit (5 nos.- 6,00,000 Kcal/hr each) will be installed. In-built internal cyclone and bag filter with a stack height of 30 m will be installed for controlling the particulate emissions within the statutory limit of 150 mg/Nm³ for the proposed boilers, thermic fluid heater and hot water unit.

Details of Process emissions generation and its management is mentioned below-:

S. No.	Stack Attached to	Stack height (m)	Fuel Used	APCM	Expected Pollutants	Concentration in outlet Flue gas (mg/Nm ³)
1	Boilers 5 MT/hr (1no.)	30	Rice Briquette	Inbuilt internal cyclones and bag filters	PM	150
2	Thermic Fluid Heater (5 nos.) 6,00,000 Kcal/hr each	30	LDO	Multi-cyclone + bag filters	PM SO ₂ NO _x	100 600 300
3	Hot water unit (5 nos.) 6,00,000 Kcal/hr each	30	LDO	Multi-cyclone + bag filters	PM SO ₂ NO _x	100 600 300
Process Stacks / Vents						
1	Process Reactor - I Vents - Combined into one (2.0 No's)	15	-	Two stage scrubber Alkali Scrubber + water scrubber	HCl SO ₂ NH ₃ HBr	20 mg/Nm ³ 40 mg/Nm ³ 30 mg/Nm ³ 5 mg/Nm ³
2	Process Reactor - II Vents - Combined into one (2.0 No's)	15	-	Two stage scrubber Alkali Scrubber + water scrubber	HCl SO ₂ NH ₃	20 mg/Nm ³ 40 mg/Nm ³ 30 mg/Nm ³
DG Sets stacks						
4	DG Sets 3 X 400 KVA	4.7	Diesel - 250 Lt/hr	Adequate Stack Ht.	PM SO ₂ NO _x	Ash content 0.07% of HSD Sulphur content 0.25% of HSD Nitrogen content 0.08% of HSD

Industrial hazardous wastes will be sent to TSDF site while other solid wastes will be segregated in salable and non-salable waste. Salable waste will be sold off. Non-salable waste will be sent to land fill.

Public Hearing is exempted as the project site is located in the notified Industrial area. There is no litigation is pending against the proposal.

The details of products and capacity as under:

Sr. No	Name of Products	CAS no.	End Use	Total Capacity (TPA)
1.	Diafenthiuron	80060-90-9	Pesticides & Insecticides	3600 TPA (Either individual or total of all 48 products)
2.	Thiamethoxam	153719-23-4		
3.	Buprofezin	69327-76-0		
4.	Pymetrozine	123312-89-0		
5.	Imidacloprid	138261-41-3		
6.	Bifenthrin	82657-04-3		
7.	Acephate	30560-19-1		
8.	Thiophanate methyl	23564-05-8		
9.	Acetamiprid	135410-20-7		
10.	Chlorpyrifos	2921-88-2		
11.	Fipronil	120068-37-3		
12.	Thiacloprid	111988-49-9		
13.	Chlorantraniliprole	500008-45-7		
1.	Tricyclazole	41814-78-2	Fungicides	
2.	Azoxystrobin	131860-33-8		
3.	Hexaconazole	79983-71-4		
4.	Ciproconazole	94361-06-5		
	Metalaxyl	57837-19-1		
	Metalaxyl M	70630-17-0		
	Prothioconazole	178928-70-6		
5.	Difenoconazole	119446-68-3		
6.	Tebuconazole	107534-96-3		
7.	3-phenoxybenzyl alcohol	13226-35-2		
8.	Copper Oxychloride	1332-65-6		

9.	Picoxystrobin	117428-22-5			
10.	Myclobutanil	88671-89-0			
11.	Flubendiamide	272451-65-7			
12.	Epoxiconazole	135319-73-2			
13.	Bixafen	581809-46-3			
14.	Propineb	12071-83-9			
15.	Isopyrazam	881685-58-1			
1.	Clodinafop-Propargyl	105512-06-9	Herbicide		
	Pretilachlor	51218-49-6			
	Bispyribac sodium	125401-92-5			
	Quizalofop-P-ethyl	100646-51-3			
	Metribuzin	21087-64-9			
	Imazethapyr	81335-77-5			
	Aclonifen	74070-46-5			
2.	Clomazone	81777-89-1			
3.	Glufosinate	51276-47-2			
4.	Metsulfuron methyl	74223-64-6			
5.	Sulfosulfuron	141776-32			
6.	Tembotrione	335104-84-2			
7.	Atrazine	1912-24-9			
8.	Oxyfluorfen	42874-03-3			
	Metamitron	41394-05-2			
	2,4 d ethyl ester	533-23-3			
	Penoxsulam	219714-96-2			
Total					3600

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will

be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards, except for PM10. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The Committee has suggested that the storage of toxic/explosive raw material shall be bare minimum in quantity and inventory.

The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii). As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iii). Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

- (iv). The storage of toxic/explosive raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
- (v). Implementation of outcome of Process safety and risk assessment studies which carried out by using advanced models, and the mitigating measures shall be undertaken/implemented accordingly.
- (vi). Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (vii). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (viii). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (ix). Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (x). Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.99% with effective chillers/modern technology.
- (xi). Total fresh water requirement shall not exceed 39 cum/day to be met from MIDC water supply. Necessary permission in this regard shall be obtained from the concerned regulatory authority.
- (xii). Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (xiii). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiv). The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall

be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.

- (xv). As committed Rs. 0.354 crores shall be allocated for Corporate Environment Responsibility (CER), and shall be utilized for addressing the socio-economic and environmental issues in the study area. The CER plan shall be completed before commissioning of the project.
- (xvi). The project proponent shall prepare a site specific conservation plan and wildlife management plan in case of the presence of Schedule-1 species in the study area, as applicable to the project, and submit to Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest/Wildlife Department in a time bound manner.
- (xvii). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No.22.14

Setting up of synthetic resin adhesive manufacturing unit by M/s Maruti Mica at Survey No.88, Plot No. 7, Hadamtala Industrial Zone, Gondal Highway, Taluka KotdaSangani, District Rajkot (Gujarat)-Consideration of Environmental Clearance

[IA/GJ/IND2/92387/2019, IA-J-11011/38/2019-IA-II(I)]

The project proponent and their accredited consultant M/s. Green Circle Inc. made a detailed presentation on the salient features of the project through Video Conferencing (VC).

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for setting up of synthetic resin adhesive manufacturing unit of capacity 710 TPM by M/s Maruti Mica in an area of 10410 sqm at Survey No.88, Plot No. 7, Hadamtala Industrial Zone, Gondal Highway, Taluka KotdaSangani, District Rajkot (Gujarat)

The details of products and capacity as under:

S. No.	Name of Product	CAS NO.	Quantity MT/Month	End use of Product
1	Urea Formaldehyde Resin	9011-05-6	350	End use applications include fiberglass insulation,
2	Melamine Formaldehyde Resin	9003-08-1	60	
3	Cardanol Phenol Formaldehyde Resin	37330-39-5	150	

4	Phenol Formaldehyde Resin	9003-35-4	150	decorative and industrial laminates and under-the-hood components in automobiles
TOTAL			710	
Unit has valid CCA for manufacturing of Laminated Sheets & Details as follow,				
Laminated Sheets		855 MT/Month	CCA No. AWH-30545, Valid Up to 31/03/2023	
Existing manufacturing activity/ Products is not covered under EIA Notification 2006. So unit has not available EC in past. *Cardanol Phenol Formaldehyde & Phenol Formaldehyde contains water from the process. *Raw Material & Product will be transported by road.				

All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and requires appraisal/approval at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

The standard terms of reference (ToR) was granted by the Ministry vide file no No. IA-J-11011/38/2019-IA-II(I) on 5th March, 2019. The public hearing was conducted by the Gujarat Pollution Control Board on 15th October, 2019. The public hearing was presided over by the Resident Additional District Collector & Additional District Magistrate. The main issues raised during the public hearing are regarding Green Belt Development, waste water generation management Plan and Employment. No litigation is pending against the proposal.

Total land area is 10410.0 sqm. Greenbelt will be developed in an area of 33.8 % i.e., 3520.2sqm. out of total area of the project. The estimated project cost is Rs 159.4 Lakh. Total capital cost earmarked towards environmental pollution control measures Rs 37.2 Lakh and the Recurring cost (operation and maintenance) will be about Rs 8 Lakh per annum. Total Employment will be 18 persons as direct. Industry proposes to allocate Rs3.985 Lakh @ of 2.5 % towards Corporate Social Responsibility.

There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc within 10 km distance of the project site. River/ water body Near Soliyais flowing at a distance of 7.3 km in ESE direction.

Ambient air quality monitoring was carried out at 10 locations during March-19 to May-19 and the baseline data indicates the ranges of concentrations as: PM10 (51.49-94.10µg/m³), PM2.5 (22.6- 40.5µg/m³), SO2 (5.79- 10.4 µg/m³) and NO2 (10.2-20.2µg/m³). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 1.04 µg/m³, 0.26 µg/m³ and

0.4086 µg/m³ with respect to PM10, Sox and NOx. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 41 cum/day of which fresh water requirement of 41 m³/day will be met from Bore-well. Effluent of 11.6 KLD quantity will be treated through ETP followed by Evaporator. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement will be 100 kVA and will be met from Uttar Gujarat Vij Company Ltd. (UGVCL). Unit will have 1 DG sets of 100 kVA capacity, which will be used as standby during power failure. Stack (height 6m) will be provided as per CPCB norms to the proposed DG sets. Unit will have 3 tonne White Coal/ Briquettes/ Agro waste fired boiler will be installed. Stack of height of 30 m will be installed for controlling the particulate emissions within the statutory limit of 150 mg/Nm³ for the proposed boilers. Generated fly-ash will be sold to paver block / bricks manufacturers.

Details of Solid waste/ Hazardous waste generation and its management is as follow

Sr. No.	Particulars	Category	Total Qty.	Management
1.	ETP Sludge/Evaporation Residue	35.3	20 MT/Annum	Collection, Storage, Disposal at Approved TSDF Site / co - processing
2.	Used Oil	5.1	10-15 LP/Annum	Collection, Storage and used within premises as a lubricant / sold to registered recycler/ co processing
3.	Discarded containers /Barrels	33.1	6 MT/Annum	Collection, Storage & sold to authorized vendor
4.	Edge cutting waste	23.1	12 MT/Annum	Collection, Storage & send to common incineration facility/ co processing

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the public hearing issues, action plan and CER plan and found to be addressing the issues in the study area and the issues raised during the public hearing. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of Environmental Clearance (EC).

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iii) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (iv) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (v) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.

- (vi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (vii) Total fresh water requirement shall not exceed 41 cum/day, proposed to be met from bore well. Necessary permission shall be obtained in this regard from concerned regulatory authority/CGWA. The fresh water demand shall be reduced by 10% using rain water harvesting system.
- (viii) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (ix) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (x) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xi) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiii) As proposed green belt of at least 10-20 m width shall be developed mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State

Forest Department. As committed by the project proponent, the greenbelt area shall be developed and maintained in an area of 33% out of the total project area.

- (xiv) As proposed 2% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.
- (xv) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No. 22.15

Setting up of resin and acrylic base emulsion manufacturing unit by M/s Maruti Polymers at Plot No.423/1, Village Ravdapura, Taluka Anand, District Anand (Gujarat) - Consideration of Environmental Clearance

[IA/GJ/IND2/149160/2018, IA-J-11011/88/2018-IA-II(I)]

The project proponent and their accredited consultant M/s. Green Circle Inc made a detailed presentation on the salient features of the project through Video Conferencing (VC).

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for setting up of resin and acrylic base emulsion manufacturing unit of capacity 480 TPM by M/s Maruti Polymers in an area of 1225 sqm at Plot No.423/1, Village Ravdapura, Taluka Anand, District Anand (Gujarat).

The details of products and capacity as under:

Sr. No.	Group	Name of Products	CAS No.	Proposed Quantity (MT/M)
A.	Acrylic Based Emulsion	Styrene acrylic emulsion	25085-34-1	250
		Pure acrylic emulsion	25085-34-1	
		Vinyl acrylic emulsion	25067-01-0	
	Alkyd Resin	Soya long oil	68333-62-0	

B.				200
		D.C.O long oil	63148-69-6	
		D.C.O rosinated	63148-69-6	
		Linseed long oil	67785-26-6	
C.	Amino Resin	Melamine formaldehyde	9003-08-1	30
Total				480

All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and required appraisal/approval at Central level in the Ministry.

The standard terms of reference (ToR) was granted by the Ministry vide file no No.IA-J-11011/88/2018-IA-II (I) dated 08-04-2018. The public hearing was conducted by the Gujarat Pollution Control Board on 27/02/2019 at 11:00 hrs. The main issues raised during the public hearing are regarding employment & education of poor children of surrounding villages of project site

Total land area is 1225 sqm. Greenbelt will be developed in an area of 33 % i.e., 404.2 m² out of total area of the project. The estimated project cost is Rs 4.0 Crore. Total capital cost earmarked towards environmental pollution control measures Rs 65 Lakh and the Recurring cost (operation and maintenance) will be about Rs 10 Lakh per annum. Total Employment will be 19 persons as direct.

There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance of the project site. River/ water body is Near Samarkha flowing at a distance of 3.6 km in ENE direction.

Ambient air quality monitoring was carried out at 8 locations during March-18 to May-18 and the baseline data indicates the ranges of concentrations as: PM₁₀ (46.1- 94.8 µg/m³), PM_{2.5} (21.2- 43.6 µg/m³), SO₂ (5.10- 10.4 µg/m³) and NO₂ (9.70- 19.90 µg/m³). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.7 µg/m³, 0.23 µg/m³ and 0.49 µg/m³ with respect to PM₁₀, Sox and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 11.03 cum/day of which fresh water requirement of which 5.0 KLD will be met through Ravdapura gram panchayat. Rest of the water requirement will be met through tanker. Effluent of 1.31 KLD quantity will be treated through ETP followed by Evaporator. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement will be 56 kVA and will be met from Madhya Gujarat Vij Company Limited (MGVCL). Unit will have 1 DG sets of 30 kVA capacity, which will be used as

standby during power failure. Stack (height 4 m) will be provided as per CPCB norms to the proposed DG sets.

Unit will have 0.2 TPH Bio-coal/ Briquettes fired boiler will be installed. Stack of height of 11 m will be installed for controlling the particulate emissions within the statutory limit of 150 mg/Nm³ for the proposed boilers. Generated fly-ash will be sold to paver block / bricks manufacturers.

Details of Solid waste/ Hazardous waste generation and its management is as follows:-

Sr. No.	Type of waste	Category	Waste generating process	Physical Characteristics	Quantity	Management
1.	ETP Sludge	35.3	ETP	Solid/Semi-solid	0.5 Kg/day	Collection, Storage, Transportation, Disposal at TSDF site.
2.	Used/spent oil	5.1	D.G set	Liquid	20 Liters/Year	Sold to authorized re processor
3.	Discarded containers	33.1	Production processes	-	25 Nos./ Month	Return back to raw material supplier/ Handover to authorized re processor
4.	Distilled Residue	28.1	Process	Solid/Semi-solid	450 Kg/Month	TSDF

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee has

also deliberated on the public hearing issues, action plan and CER plan and found to be addressing the issues in the study area and the issues raised during the public hearing. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of Environmental Clearance (EC).

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iii) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (iv) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (v) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.

- (vii) Total fresh water requirement shall not exceed 5 cum/day, proposed to be met from Ravidapura gram panchayat. Necessary permission shall be obtained in this regard from concerned regulatory authority/CGWA.
- (viii) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (ix) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (x) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xi) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiii) As proposed green belt of at least 10-20 m width shall be developed mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. As committed by the project proponent, the greenbelt area shall be developed and maintained in an area of 33% out of the total project area.
- (xiv) As proposed 2% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed within 5 years.

The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.

- (xv) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No. 22.16

Expansion of active pharmaceutical ingredients (API) manufacturing unit at Gut No.378, Plot No 8, Aurangabad -pune Highway, Village-Waluj, Taluka. Gangapur, District. Aurangabad by M/s Ajanta pharma Ltd. - Consideration of Environmental Clearance

[IA/MH/IND2/125305/2008, J-11011/359/2008-IA-II(I)]

The Project Proponent and their accredited Consultant M/s Building Environment (India) Pvt Ltd., made a detailed presentation on the salient features of the project and informed that:

The proposal is for environmental clearance to the project for Increasing the number active pharmaceutical ingredients (API) products from 85 to 258 within the total production capacity of 21.042 MTPM at Gut No.378, Plot No. 8, Aurangabad -Pune Highway, Village Waluj, Taluka Gangapur, District Aurangabad, Maharashtra by M/s Ajanta pharma Ltd.

Terms of References (ToRs) for the Project has been issued by Ministry vide letter No. No.IA-J-11011/33/2018-IA-II(I) dated 11th March 2018. The project/activities are covered under category A of 5(f) 'Synthetic organic chemicals industry' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

The Ministry had issued EC earlier vide letter no. J-11011/359/2008-IA-II(I); dated 10th June 2009 to the existing project for Active pharmaceutical ingredients (API) Industry in favour of M/s Ajanta Pharma Ltd.

Existing land area is 3200.5 m². No Additional land requirement will be used for proposed expansion. Industry has already developed 790 m² of plot as green belt out of total project area 3200.5 m². In addition that project proponent already has developed 1 acre of private land adjacent to the project site. The estimated project cost is Rs 1.5 Cr. The existing investment is Rs 13.40 crores. Total capital cost earmarked towards environmental pollution control measures including the existing unit is Rs. 1.737 crores and the Recurring cost (operation and maintenance) will be about Rs.0.565 crores per annum. Total Employment will be 10-15 persons as direct.

There are no National Parks, Wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, Reserve forests within 10 km from the project site. Reserve forest near Nakshatrawadi – 9.0 km from project site is noted as per Survey of India geographical map. Main water bodies are Kham River – 1.4km East; Nagjhari River - 6.6km West, Kohli Nallah- 8.9km South, Jogeshwari Talav – 1.8km North West direction.

Ambient air quality monitoring was carried out at 8 locations during March 2018 to May 2018 and the baseline data indicates the ranges of concentrations as: PM10 (53.73-70.45 µg/m³), PM2.5 (26.16-34.56 µg/m³), SO₂ (11.00-26.35 µg/m³) and NO₂ (22.49-30.64 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 82.2 m³/day of which fresh water requirement of 60 m³/day will be met from MIDC Waluj. Effluent of 20.2 m³/day will be treated through 25 KLD ETP. The plant will be based on Zero Liquid discharge system. Industry has proposed to install RO followed by Evaporator System to achieve Zero Liquid Discharge

There is no additional power requirement. Existing power requirement is 450 kW and connected load is 720 kW. Source of power is MSEDCL. Existing unit has 1 DG sets of 400 kVA capacity and 100 kVA is proposed, additionally DG sets are used as standby during power failure. Stack (height 4.5m) will be provided as per CPCB norms to the proposed DG sets. Existing unit has 850 kg/hr diesel boiler. Additionally, no boiler will be required in proposed capacity utilization. Existing boiler is diesel fired with 30-meter stack height.

The process/fugitive emission are scrubbed with the help of Venturi Scrubber. The same scrubber shall be used for control of process/ fugitive emission arising due to the proposed expansion. Ammonia sensor is installed within the plant area to raise alarm situation if ammonia level increases beyond permissible limit. Process emission contains solvent only hence efforts should be taken recovery as much as possible. Monthly work zone & ambient air quality monitoring will be carried out to ensure quality index of air.

Details of Solid waste/ Hazardous waste generation and its management-

Non- Hazardous Waste

Dry Waste-1.5 kg

Wet Waste-2.5 kg

Sr No	Description	UOM	Existing	Proposed	Total	Treatment
1	Wooden Material	Kg/M	200	200	400	Sale to Authorised recycler
2	Glass Scrap	Kg/M	200	200	400	
3	HDPE Drums	Kg/M	75	50	125	

4	Plastic Scrap	Kg/M	100	100	200	
5	Paper waste	Kg/M	100	50	150	
6	E-waste	Kg/M	0	100	100	

Hazardous Waste

Sr No	Description	Cat	UOM	Existing	Proposed	Total	Treatment
1	Spent Oil/Used Waste	5.1	Kg/M	25	5	30	Sale to Authorised recycler
2	Spent Solvents	20.2	Kg/M	7500	8000	15500	
3	Distillation residue	20.3	Kg/M	500	1300	1800	
3	Spent catalysts/Spent Carbon.	28.2	Kg/M	500	250	750	
4	Discarded Containers	33.3	no/M	125	140	265	
5	Sludge from waste water treatment	34.3	Kg/M	150	50	200	
6	Off Specification Product	28.3	Kg/M	0	1200	1200	
7	Spent Organic Solvent	28.5	Kg/M	0	10000	10000	

Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 14/06/2019, which was presided over by the District Magistrate. The main issues raised during the public hearing are related to additional air pollution load, green belt development, employment, reactions in the process, water pollution, water conservation and socio economic status, etc.

Certified compliance report on the existing EC has been forwarded by the Ministry's Regional Nagpur vide letter no. F.No.5-71/2010(ENV)/4829 dated 28.01.2019. It was informed by the project proponent that there is no litigation pending against the proposal.

The details of products and capacity as under:

Sr. No	Product Details	Existing Quantity (MT/Month)	Proposed Quantity (MT/Month)	Total Quantity (MT/Month)
1	Lumefantrine	2.5	-2.5	0
2	Artemether			
3	Nepafenac	2.8	-1.2	1.6
4	Loteprednol Etabonate	---	--	

5	Bromfenac Sodium			
6	Prednisolone Acetate			
7	Tafluprost			
8	Iguratimod			
9	Desonide 21 - Phosphate			
10	Levobetaxolol HCl			
11	Apremilast			
12	Difluprednate			
13	Mesalamine			
14	Nimesulide			
15	Indomethacin			
16	Meclofenamate Sodium			
17	Fenspiride Chlorhydrate			
18	Fluorometholone acetate			
19	Roflumilast			
20	Mometasone Furoate Monohydrate			
21	Crisaborole	0	0.8	0.8
22	Polmacoxib			
23	Piclidenoson			
24	Lifitegrast			
25	Betaxolol HCL			
26	Cyclosporine			
27	Dexamethasone			
28	Propyphenazone			
29	Dimethyl Fumarate			
30	Triamcinolone			
31	Apabetalone			
32	Amtolmetin Guacil	1.1	-0.4	0.7
33	Naproxcinod			
34	Neramaxane Mesylate			
35	Tofacitinib Citrate			
36	Nadifloxacin			
37	Zucapsaicin			
38	Nalbuphine Sebacate	0	0.2	0.2
39	Sufentanil Citrate			
40	Penicillamine	0	0.4	0.4
41	Hydroxychloroquine			
42	Baricitinib			
43	Benvitimod			
44	Ilaprazole	1.2	-0.6	0.6
45	Lansoprazole Sodium			
46	Lafutidine			
47	Dexlansoprazole	0	0.2	0.2
48	Omeprazole Sodium			

49	Tegoprazan			
50	Diquafosol Tetrasodium			
51	Omidenepag Isopropyl	0	0.1	0.1
52	Metaxalone	0	0.05	0.05
53	Rebamipide	0.2	-0.1	0.1
54	Linacotide	0	0.1	0.1
55	Elobixibat			
56	Nitroglycerin	0	0.05	0.05
57	Olopatadine HCL	0.452	-0.12	0.332
58	Bilastine			
59	Bepotastine Besilate			
60	Tacalcitol MH			
61	Palonosetron HCL			
62	Flupirtine Maleate			
63	Cetilistat	0	0.1	
64	Silodosin	0.1	0	0.1
65	Fexapotide	0	0.1	0.1
66	Mirabegron	0	0.1	0.1
67	Colestipol HCL	0	0.1	0.1
68	Aripiprazole	0.2	0	0.2
69	Olanzapine	0	0.05	0.05
70	Ropinirol HCl	0	0.1	0.1
71	Latanoprost	0.12	0	0.12
72	Brinzolamide			
73	Bimatoprost			
74	Ripasudil Hydrochloride Hydrate	0	0.38	0.38
75	Limaprost			
76	Netarsudil			
77	Latanoprostene Bunod			
78	Travoprost			
79	Brimonidine Tartrate			
80	Tavilermide			
81	Glycerol	0	0.05	0.05
82	Cortexolone 17a- Propionate	0	0.05	0.05
83	Vilanterol trifenate	0	0.05	0.05
84	Rolapitant	0	0.05	0.05
85	Varenicline Tartrate	0	0.05	0.05
86	Ulipristal Acetate	0	0.05	0.05
87	Dabigatran Etxilate Mesylate	0.1	0	0.1
88	Rivaroxaban	0	0.6	0.6
89	Edoxaban			

90	Betrixaban			
91	Pentosan Polysulfate			
92	Elinogrel			
93	Divalproex Sodium	0	0.05	0.05
94	Ursodiol	0.01	0	0.01
95	Raltegravir Potassium	0	0.35	0.35
96	Maraviroc			
97	Daclatasvir Dihydrochloride			
98	Valganciclovir			
99	Simeprevir			
100	Gemifloxacin Mesylate	0.9	-0.25	0.65
101	Minocycline HCL			
102	Besifloxacin HCL			
103	Retapamulin			
104	Sodium hyaluronate			
105	N-acetyl-L-carnosine			
106	Ospemifene	0	1	1
107	Ozenoxacin			
108	Solithromycin			
109	Erythromycin Ethyl			
110	Moxifloxacin HCL			
111	Tobramycin			
112	Rifaximin			
113	Doxycycline Hyclate			
114	Doxycycline Monohydrate			
115	Levofloxacin Hemihydrate			
116	Sarecycline			
117	Nemonoxacin			
118	Flucloxacillin Sodium			
119	Amadacycline			
120	Omadacycline			
121	Finafloxacin hydrochloride			
122	Cethromycin			
123	Almotriptan	0	1	1
124	Sumatriptan			
125	Frovatriptan Succinate			
126	Lasmiditan			
127	Eletriptan HBr			
128	Zolmitriptan			
129	Rimegepant			
130	Sevelamer Carbonate			
131	Aclidinium Bromide	2.51	-1.1	1.41
132	Solifenacin Succinate			
133	Azelnidipine			
134	Cilnidipine			

135	Azilsartan Medoxomil Potassium			
136	Metoprolol succinate			
137	Fimasartan Potassium Trihydrate			
138	Rosuvastatin calcium			
139	Efonidipine Hydrochloride Ethanolate			
140	Olmesartan			
141	Perindopril Arginine			
142	Phentermine Hydrochloride	0	0.8	0.8
143	Sacubitril			
144	Nifedipine			
145	Chlorthalidone			
146	Diltiazem Hydrochloride			
147	Telmisartan			
148	Timolol maleate			
149	Dalcetrapib			
150	Valsartan			
151	Ambrisentan			
152	Sacubitril-Valsartan			
153	Sacubitril-Telmisartan			
154	Polaprezinc	0	0.05	0.05
155	Bempedoic Acid	0	0.05	0.05
156	Cholestyramine			
157	Ivabradine HCL	0.2	-0.1	0.1
158	Delmopinol Hydrochloride	0	0.1	0.1
159	Octinidine HCL			
160	Bibrocathol			
161	Lanthanum Carbonate	0	0.05	0.05
162	Asenapine Maleate	0	0.1	0.1
163	Clozapine			
164	Propafenone HCL	0	0.05	0.05
165	Deferasirox	0.1	-0.05	0.05
166	Trientine Hydrochloride	0	0.05	0.05
167	Cinacalcet HCl	0	0.03	0.03
168	Tavaborole	0.5	-0.1	0.4
169	Efinaconazole			
170	Luliconazole			
171	Fenticonazole Nitrate	0	0.2	0.2
172	Flucytosine			
173	Voriconazole			
174	Bremelanotide			
175	Topiroxostat			
176	L- Methyl folate	0.2	-0.1	0.1

	Glucosamine			
177	Odanacetib	0	0.02	0.02
178	Sapropterin Dihydrochloride	0	0.04	0.04
179	Dendrimer	0	0.05	0.05
180	Colesevelam HCL	1.2	-0.3	0.9
181	Teneligliptin Hydrobromide Hydrate			
182	Sitagliptin Phosphate			
183	Alogliptin			
184	Vildagliptin			
185	Linagliptin			
186	Chiglitazar			
187	Canagliflozin Hemihydrate	0	1.2	1.2
188	Dapagliflozin Propanediol Monohydrate			
189	Anagliptin			
190	Trelagliptin Succinate			
191	Empagliflozin			
192	Ipragliflozin			
193	Saxagliptin			
194	Mirogabalin			
195	Sotagliflozin			
196	Canagliflozin			
197	Dapagliflozin Propanediol			
198	Dapagliflozin			
199	Lobeglitazone			
200	Luseogliflozin			
201	Tofogliflozin			
202	Gemigliptin			
203	Evogliptin			
204	Emixustat Hcl			
205	Retagliptin Phosphate			
206	Ertugliflozin			
207	Omarigliptin			
208	Semaglutide			
209	Vardenafil HCL Trihydrate	2.7	- 2	0.7
210	Sildenafil citrate Mask Complex	0	0.3	0.3
211	Mirodenafil			
212	Sildenafil citrate			
213	Tadalafil			
214	Dapoxetine HCL	0.2	-0.1	0.1
215	Ticagrelor	0	0.05	0.05

216	Voclosporin			
217	Alcaftadine	0.1	0	0.1
218	Azelastine HCL	0	0.1	0.1
219	Cloperastine Fendizoate			
220	Acotiamide Hydrochloride Hydrate	0.2	0	0.3
221	Obeticholic Acid	0	0.05	0.05
222	Ibrutinib	0	0.05	0.05
223	Pirfenidone	0	0.05	0.05
224	Vortioxetine HBr	0	0.05	0.05
225	Hypochlorous Acid	0		0
226	Apixaban			
227	Dienogest	0	0.05	0.05
228	Carboxymethyl cellulose Sodium	0	0.05	0.05
229	Hydroquinone	0	0.05	0.05
230	Pyridoxine HCL	0	0.05	0.05
231	Ivacaftor	0	0.05	0.05
232	Febuxostat	1.5	-1.3	0.2
233	Lesinurad	0	0.1	0.1
234	Netupitant	0	0.05	0.05
235	Indacaterol Maleate	0	0.05	0.05
236	Vilazodone Hydrobromide	0	0.1	0.1
237	Duloxetine Hydrochloride			
238	Potassium Citrate	0	0.05	0.05
239	Alosetron HCL	0	0.05	0.05
240	Tizanidine HCL	0	0.05	0.05
241	Isosorbide Mononitrate	0	0.07	0.07
242	Entacapone	0.2	-0.15	0.05
243	Cytidine-5'-disodium monophosphate	0	0.1	0.1
244	Uridine Diphosphate			
245	Phloroglucinol Dihydrate	0	0.1	0.1
246	Trimethyl Phloroglucinol			
247	Spironolactone	0	0.07	0.07
248	Triamcinolone Acetonide	0	0.07	0.07
249	Vadadustat	0	0.05	0.05
250	Suvorexant	0	0.08	0.08
251	Finerenone	0	0.05	0.05
252	Vilaprisan	0	0.05	0.05
253	Olumacostat Glasaretil	0	0.06	0.06
254	Nolasiban	0	0.05	0.05
255	Picotamide	1	-0.6	0.4
256	Clopidogrel Bisulfate	0.5	-0.2	0.3

257	Montelukast Sodium	0.2	0	0.2
258	R&D Project for study purpose	0	0.3	0.3
	TOTAL	21.042		

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the public hearing issues, action plan and the CER plan and found to be addressing the issues in the study area. The Committee noted that the project site is located in the Severely Polluted Area and opined that the CER amount shall be fixed at 2% of the project as per the Ministry's OM and guidelines on CPA/SPA. Certified report on compliance of existing EC conditions also found to be satisfactory.

The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the

recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

- (ii). Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (iii). As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iv). Effluent/residue of API/drugs shall not be allowed to mix with the waste water.
- (v). Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (vi). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vii). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (viii). Total fresh water requirement shall not exceed 60 cum/day, proposed to be met from MIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (ix). Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system. All the vent pipes should be above the roof level.
- (x). Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xi). Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with

breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.

- (xii). Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xiii). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiv). The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xv). At least 2 % of the project cost of expansion shall be allocated for Corporate Environment Responsibility (CER), and shall be utilized for meeting requirement in the study area/public hearing issues. The CER plan shall be completed within three year of the expansion of the project.
- (xvi). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No. 22.17

Setting up of specialty chemicals manufacturing unit by M/s Sulfa Chem Industries at Plot No.1916, GIDC Estate, Panoli, Dist Bharuch (Gujarat) - Consideration of Environmental Clearance [IA/GJ/IND2/161927/2017, IA-J-11011/348/2017-IA-II(I)]

The project proponent and their consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd (High Court Stay) made a detailed presentation on the salient features of the project through Video Conferencing (VC).

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project of setting up of specialty chemicals manufacturing unit of capacity 80 TPM by M/s Sulfa Chem Industries in an area of 1140 sqm at Plot No.1916, GIDC Estate, Panoli, Dist Bharuch (Gujarat)

The details of products and capacity as under:

S. No.	Products	CAS No.	Production Capacity (MT/MONTH)	End Use
GROUP-1				
1	4 - Methoxy 2 Nitro Aniline (Bourdex G.P. Base)	96-96-8	20	Textile Dyes
2	4 - Methylene 2 Nitro Aniline (M.N.P.T.)	89-62-3		
3	2-Methoxy 4-Nitro Aniline (Red B Base) and 2-Methoxy 5-Nitro Aniline (Scarlet R Base)	97-52-9 99-59-2		
GROUP-2				
4	Napthol AS (3 Hydroxy - 2 Napthanilide)	92-77-3	25	Textile Dyes
5	Napthol ASBS (3 Hydroxy - 3 Nitro - 2 Napthanilide)	135-65-9		
6	Napthol ASD (3 Hydroxy - 2 Naptho - O Toludine)	131-61-5		
7	Napthol ASE (4 Chloro - 3 Hydroxy - 2 - Napthanilide)	92-78-4		
8	Napthol- ASOL (3 Hydroxy - 2 - Napth - o - Anisidine)	135-62-6		
9	Napthol ASBO (3 - Hydroxy - N - 1 - Napthyl - 2 -Naphthamide)	132-68-3		
10	Napthol ASSW (3 Hydroxy - N - 2 - Napthyl - 2 -Naphthamide)	90-15-3		
GROUP-3				
11	3,4 DichloroNitroBenzene	99-54-7	25	Textile Dyes
12	5 Nitro 1,2,4 Tri Chloro Benzene	89-69-0		
13	2,5 Dichloro Nitro Benzene	89-61-2		
14	M-Dinitro Benzene	99-65-0		
GROUP-4				
15	2,4,5 Tri chloro Aniline	636-30-6		Textile Dyes
16	3,4 Dichloro Aniline	95-76-1		

17	M-Nitro Aniline	99-09-2	10	
Total			80	

All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'B' to be appraised at State level. However, being the project is located inside the critically polluted area, the project appraised at Central level in the Ministry.

The Standard ToR has been issued by the Ministry vide letter dated 24th Aug, 2017. Public hearing is exempted as per para 7(i), III. Stage (3), (i)(b) of the EIA Notification, 2006, and in accordance with the Ministry's OM dated 27th April 2018, as the project site is located in the notified industrial area. No litigation is pending against the proposal.

Total land area for the proposed project is 1140 sqm. Green belt will be developed in an area of 33%% in the unit and also 7% in GIDC allocated area to the PP as the unit is located at CPA. The Estimated project cost is Rs.1.0 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.16 Lakh and the recurring cost (operation & maintenance) will be about Rs. 78.44 lakh per Annum. Proposed project will generate 30 employments. There are no National Parks, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc within 10 km.

Ambient air quality monitoring was carried out at 10 locations during March 2019 to May, 2019 and submitted baseline data indicates that ranges of concentrations of PM10 (76.63 – 95.94 µg/m³), PM2.5 (44.39 – 58.1 µg/m³), SO₂ (17.52 – 26.72 µg/m³) and NO₂ (19.98 – 28.53 µg/m³) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.44524 µg/m³, 0.77836 µg/m³, 0.27258 µg/m³, 0.00635 µg/m³ with respect to SPM, Sox, NO_x, & HCL. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 12.35 cum/day of which fresh water requirement of 11.35 cum/day + Rain Water Harvesting 1.0 cum/day and will be met from GIDC Water Supply. Total wastewater generation will be 9.11 KL/Day. Total Industrial wastewater (7.96 KL/Day) From Process, Boiler, Cooling, Washing will be sent to ETP consists of primary treatment and then treated effluent shall be sent to Common Spray Dryer, Panoli for the further treatment and final disposal.

Power requirement will be 125 kVA proposed to be met from DGVCL. 1 Nos. DG set of 125 KVA capacity shall be used as standby during power failure. Stack (height 11 m) will be provided as per CPCB norms to the proposed DG sets of 125 KVA which will be used as standby during power failure. Unit shall have 1 Nos. of Steam Boiler (400 kg/Hr) Natural Gas = 150.0 Nm³/Day, 1 Nos. of Hot Air Generator 1 LakhKcal/Hr Natural Gas = 100 Nm³/Day, 1 Nos. of D.G Set Diesel - 150 Liter/Day will be installed. Adequate Stack

height will be provided. Stack of height of 11 m will be installed for controlling the Particulate emissions (within statutory limit of 150 mg/Nm³) respectively.

Details of Process emissions generation and its management is mentioned below.

Sr. No.	Source Of Emission With Capacity	Stack Height (Meter)	Type Of Fuel	Quantity of Fuel Mt/Day	Type Of Emissions I.E. Air Pollutants	Air Pollution Control Measures (APCM)
1	Steam Boiler (400 kg/hr)	11 meter	Natural Gas	150 M3/Day	PM=150 mg/Nm ³ SO ₂ =100 ppm NO _x =50 ppm	Adequate Height Provided
2	Hot Air Generator (1 Lac. Kcal/Hr)	11 meter	Natural Gas	100 M3/Day	PM=150 mg/Nm ³ SO ₂ =100 ppm NO _x =50 ppm	Adequate Height Provided
3	DG Set 125 KVA	11 meter	Diesel	150.0 Lit/Day	PM=150 mg/Nm ³ SO ₂ =100 ppm NO _x =50 ppm	Adequate Height Provided

Process Stack

Sr. No.	Stack Attached To	Stack Height	Air Pollution Control System	Parameter	Permissible Limit
1	Process Vent - 1	12 m	Two Stage Scrubber (Water + Alkali)	HCl	20 mg/Nm ³

Details of Solid waste/ Hazardous waste generation and its management.

There are few categories of hazardous waste has been generated viz. ETP Sludge, Discarded Drums/Bags/liners, Used oil, Iron sludge, Distillation Residue, Spent Solvents, Dil. HCl sol. (30%), Dil. Sulphuric Acid, Acetic Acid etc. Disposal of Hazardous Waste :ETP Sludge, Iron Sludge-sent to common TSDF site, Discarded Drums/Bags/liners-sell to GPCB approved recyclers/vendors. Used oil-& sell to GPCB approved recyclers or use as lubricant within unit's premises, Distillation Residue for co-processing or incineration at common incinerator site, Spent Solvent-recovery by in-house distillation & reuse within the premises, Dil. Sulphuric Acid, Dil.HCl sol. (30%), Acetic Acid will be sell to authorized end user registered under rule-9 or captivate consumption.

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted

by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006 and the guidelines issued by the Ministry on critically polluted area and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25th October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.
- (ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.

- (iv) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (v) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (vi) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (viii) Total fresh water requirement shall not exceed 11.35 cum/day, proposed to be met from GIDC supply. Necessary permission obtained in this regard shall be renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.
- (ix) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (x) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xi) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xii) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.

- (xiii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiv) As proposed green belt of at least 10-20 m width shall be developed mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. As committed by the project proponent, the greenbelt area shall be developed and maintained in an area of 40% out of the total project area.
- (xv) As proposed 4% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER) as per Ministry's OM dated 1st May 2018 & CPA OM dated 31.10.2019. As proposed, the CER allocation shall be spent mainly for addressing the issues raised during various issues including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.
- (xvi) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No. 22.18

Expansion of pigments and pigment related products by M/s Supreme Dyechem Private Limited at plot No. A-6/3 in SIPCOT Industrial Complex, village Pachayakuppam, District Cuddalore (Tamilnadu) -Environmental Clearance

[IA/TN/IND2/156865/2017, J-11011/172/2017- IA.II(I)]

The project proponent and their accredited consultant ABC Techno Labs India Private Limited made a detailed presentation on the salient features of the project through Video Conferencing (VC).

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for expansion of pigments and pigment related products from 10.25 TPM to 530 TPM by M/s Supreme Dyechem Private

Limited in an area of 5000 sqm at plot No. A-6/3 in SIPCOT Industrial Complex, village Pachayakuppam, District Cuddalore (Tamilnadu).

The details of products and capacity as under:

S. No	Name of the Product	Production Capacity (MT/Month)	
		Existing	After Expansion
1	Alpha Blue (Solid)	5.25	150
2	Beta Blue (Solid)	5.0	5
3	CPC Blue Crude	-	300
4	Blue Additives	-	75
Total		10.25	530
By Products			
1	Ammonium Carbonate	-	255
2	Ammonium Sulphate	-	150
3	Copper Sulphate	-	6
4	Spent acid	-	6750

All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'B' to be appraised at State level. However, being the project is located inside the critically polluted area, the project appraised at Central level in the Ministry.

The ToR has been issued by Ministry vide letter number. F.No. J-11011/172/2017-IA.II.(I) dated 30.05.2017 and ToR Amendment has been applied due to change in production capacity, water requirement and treatment/disposal of waste water to MoEFCC and proposal was considered in its 34th meeting held during 26 to 28th Feb 2018 and issued ToR Amendment on 07.05.2018.

Public hearing is exempted as per para 7(i), III. Stage (3), (i)(b) of the EIA Notification, 2006, and in accordance with the Ministry's OM dated 27th April 2018, as the project site is located in the notified industrial area. No litigation is pending against the proposal.

Ambient air quality monitoring was carried out at 9 locations during June to August 2017 and the baseline data indicates the ranges of concentrations as: PM10 (62.8- 31.7 $\mu\text{g}/\text{m}^3$), PM2.5 (31.6- 15.1 $\mu\text{g}/\text{m}^3$), SO2 (9.14- 5 $\mu\text{g}/\text{m}^3$) and NO2 (18.6- 7.55 $\mu\text{g}/\text{m}^3$). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 63.08 $\mu\text{g}/\text{m}^3$, 10.26 $\mu\text{g}/\text{m}^3$ and 20.93 $\mu\text{g}/\text{m}^3$ with respect to PM10, Sox and NOx. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total Water requirement during operation of the proposed expansion for both domestic and industrial purposes will be 768 KLD. The fresh water requirement of 436 KLD will be

met through SIPCOT water supply and 332 KLD of water will be recycled water. Process Effluent of 375 KLD quantity will be treated through RO and MEE to achieve ZLD. The plant will be based on Zero Liquid discharge system.

Power requirement after expansion will be 2500 KVA. The power will be sourced from TANGEDCO. Existing unit has 1 DG set of 65 kVA capacity which is used as standby during power failure and for the expansion, 1 number of 500 KVA DG set is proposed. Adequate stack (height 15 m) is provided as per CPCB norms. Existing unit has 1T Boiler, Additionally 4 TPH Wood/ Coal/ Bio briquette fired boiler will be installed. Cyclone Separator with Water scrubber followed by height a stack of height of 22m will be installed for controlling the particulate emissions with in the statutory limit of 115 mg/Nm³ for the proposed boiler.

Details of Process emissions generation and its management.

S. No	Stack Attached to	Stack Height (m)	Type of Fuel	Fuel consumption	Type of emission & Limit	Air Pollution Control Measures
Existing Flue Gas Emission						
1	Boiler (IBR) (1TPH)	15	Wood/Coal/White Coal	1Ton/day	SPM-150 mg/Nm ³ SO ₂ -100 ppm NO _x - 50 ppm	Adequate stack height
2	D.G.Set (65KVA) (1 No.)	15	Diesel	15 Litre/hr	SPM-150 mg/Nm ³ SO ₂ - 100ppm NO _x - 50 ppm	Adequate stack height
3	Hot Air Generator with Spin Flash Dryer	15	Diesel	400 lit/Day	SPM-150 mg/Nm ³ SO ₂ - 100ppm NO _x - 50 ppm	Adequate stack Height
Proposed Flue Gas Emission						
1	Steam Boiler (4 TPH)(1 No.)	22	Wood/Coal/Bio briquette	30 MT/day	SPM-115 mg/Nm ³ SO ₂ - 100ppm NO _x -50 ppm	Cyclone Separator, Water scrubber adequate stack height

2	D.G.Set (500KVA)	15	Diesel	100 Litre/hr	SPM-150 mg/Nm ³ SO ₂ - 100ppm NO _x - 50 ppm	Adequate stack height
3	Thermic Fluid Heater- 2 Nos (20 Lac Kcal)	15	LDO/Die sel/woo d	400 lit/day	SPM-150 mg/Nm ³ SO ₂ - 100ppm NO _x - 50 ppm	Adequate stack Height

Details of Solid waste/ Hazardous waste generation and its management

Non Hazardous waste generation

S.No	Nature of Solid Waste	Quantity		Mode of Disposal
		Existing	Proposed	
1	Municipal Solid Waste	4 kg/day	15 MT/Yr.	Municipal Disposal.
2	Fly ash	1 MT/Month	120 MT/Yr	Collection, Storage, Transportation, Sold to Cement manufacturer

Hazardous waste generation

S. No	Type of Waste	Existing Quantity	Propose Quantity	Total Quantity	Method of Treatment & Disposal
1.	ETP/Gypsum sludge	150 MT/Yr	3900 MT/Yr	4050 MT/Yr	Collection, Storage, Transportation, Disposal at by Cement factory or authorized by the TNPCB solid waste disposal site
2	MEE salt	-	2500 MT/Yr	2500 MT/Yr	
3.	Used oil	0.01 MT/Yr	0.5 MT/Yr	0.51 MT/Yr	
4.	Discarded containers	1200	6000 Nos./Yr	7200 Nos./Yr	

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the

project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006 and the guidelines issued by the Ministry on critically polluted area and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25th October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.
- (ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iv) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (v) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.

- (vi) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (viii) Total fresh water requirement shall not exceed 436 cum/day, proposed to be met from SIPCOT supply. Necessary permission obtained in this regard shall be renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.
- (ix) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (x) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xi) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xii) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xiii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

- (xiv) As proposed green belt of at least 10-20 m width shall be developed mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. As committed by the project proponent, the greenbelt area shall be developed and maintained in an area of 40% out of the total project area.
- (xv) As proposed 4% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER) as per Ministry's OM dated 1st May 2018 & CPA OM dated 31.10.2019. As proposed, the CER allocation shall be spent mainly for addressing the various issues including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.
- (xvi) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Reconsideration of Environment Clearance.

Agenda No. 22.19

Setting up of pesticide intermediates and specialty chemicals manufacturing unit in existing inorganic chemical manufacturing unit by M/s Acetochem Private Limited at Plot No.274/3/1, GIDC Estate, Pandesara, District Surat (Gujarat) - Consideration of Environment Clearance

The Project Proponent and their consultant M/s Aqua-Air Environmental Engineers Pvt. Ltd. (Hon'ble High Court of Gujarat stay order), made a detailed presentation through Video Conferencing (VC) on the salient features of the project.

The proposal was earlier considered by the EAC in its meeting held during 15-17 June, 2020. Wherein the EAC noted that the project proponent has proposed only 20% area land for greenbelt inside the plant premises and 20% green belt will be developed at outside the premises in nearby area. The committee suggested to submit the revised layout plan with greenbelt area and other facilities. In response of the same the project proponent has informed that the total 2700.0 sq. meter land area is available at site; out of this area about 1080 sq. meter area is covered as greenbelt and other forms of greenery. Therefore, total green belt will be 40%.

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for setting up of pesticide intermediates and specialty chemicals manufacturing unit in existing inorganic chemical manufacturing unit from 600.08 TPM TO 2387.9 TPM by M/s Acetochem Private Limited at Plot No.274/3/1, GIDC Estate, Pandesara, District Surat (Gujarat).

The details of existing and proposed products and capacity as under:

Sr. No.	Product Name	CAS No.	Production (MT/Month)			LD 50 (mg/Kg)
			Existing	Proposed	Total	
1	Nyrosyl Sulphuric Acid (from Sulfur) *	7782-78-7	132.08	467.92	600	2140
2	Nyrosyl Sulphuric Acid (from Sodium Thio Sulphate Solution and Spent Acid (H2SO4)) **	7782-78-7	468	00	468	2140
3.1	4-Methyl Acetophenone	122-00-9	00	60	60	1400
3.2	Acetyl Furan	1192-62-7				1130
4.0	Diethyl Ketone	96-22-0	00	179	179	2737
5.1	Methyl Propyl Ketone	107-87-9	00	100	100	20001
5.2	Dipropyl Ketone	123-19-3				20001
5.3	Propiophenone	93-55-0				4500
6	Alpha Nitro Napthalene	86-57-7	00	100	100	2560
7	Alpha Naphthylamine	134-32-7	00	165	165	2000
8	Phenyl Alpha Naphthylamine (PANA)	90-30-2	00	90	90	2000
9	Epichlorohydrin Based Polyamide resin	106-89-8	00	116	116	1580
10	2,4-Dichloro Acetophenone	2234-16-4	00	60	60	1800
11	Acetophenone	98-86-2	00	60	60	815
12.1	IGBA - 3-(2-methylpropyl) pentanedioic acid	75143-89-4	00	68.2652	68.2652	3580
12.2	KSM - 3-(2-amino-2-oxoethyl)-5-methylhexanoic acid	181289-15-6				5000
13	Anisole	100-66-3	00	100	100	3700
Pesticide Interemediates						
14	3, 5 Dichloro aniline	626-43-7	00	50	50	2870
15	D- Allethrollone	43917-8-56	00	10	10	5000
16	3-Methyl 4- Nitro Imino Per hydro1,3,5 Oxidiazine	153719-38-1	00	20	20	2000
17	Transfluthrin Acid Chloride	118712-89-3	00	30	30	5000
18	1,2,4 Triazole	288-88-0	00	50	50	1750
19	2- Chloro 5- Chloromethyl Pyridine	70258-18-3	00	30	30	1289
20	4-Methoxy Acetophenone	100-06-1	00	60	60	1720
Total			600.08	1787.82	2387.9	

The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

The Standard ToR has been issued by the Ministry vide letter IA-J-11011/23/2019-IA-II (I); dated 6th April, 2019. Public hearing is exempted as per para 7(i), III. Stage (3), (i)(b) of the EIA Notification, 2006, and in accordance with the Ministry's OM dated 27th April 2018, as the project site is located in the notified industrial area. No litigation is pending against the proposal.

Total land area for the proposed project is 2700sqm. Green belt will be developed in an area of 40 % of the total plot area. The Estimated project cost is Rs.3 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.33 Lakh and the recurring cost (operation & maintenance) will be about Rs.26 Lakh per Annum. Proposed project will generate employment for 40 persons as direct & indirect. There are no National Parks, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km.

Ambient air quality monitoring was carried out at 9 locations during December, 2019 to February, 2020 and submitted baseline data indicates that ranges of concentrations of PM10 (77.08 – 84.41 µg/m³), PM2.5 (44.22 – 51.8 µg/m³), SO₂ (14.72 – 18.45 µg/m³) and NO_x (12.89 – 16.30 µg/m³) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the propose expansion project would be 0.024 µg/m³, 0.043 µg/m³, and 0.015 µg/m³ with respect to PM10, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS)

Total water requirement is 140 cum/day will be met from SMC Water Supply Authority. Total wastewater generation will be send to In-house MEE. Salt generates from ATFD will sent to TSDF Site. The domestic waste water is discharged in to the septic tank / soaks pit system.

Power requirement will be 90 HP proposed to be met from Dakshin Gujarat Vij Company Limited (DGVCL). Proposed unit shall keep DG sets of 250kVA capacity which will be used as standby during power failure/ emergency. Stack (height 7 m) will be provided as per CPCB norms to the proposed D.G. Set. Existing unit has Thermo Pack 600 U Natural gas boiler. Additionally, 2 TPH Natural Gas Steam boiler will be installed. Common Stack attached to Thermo Pack & Steam Boiler. Adequate stack height of 12 m is installing for controlling the Particulate emissions (within statutory limit of 150 mg/Nm³) respectively.

Details of Process emissions generation and its management.

Sr. No.	Stack attached to	Stack height	Name of the fuel & consumption	Type of emission	Apcm
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EXISTING					
1	Thermo pack Unit Cap.: 600 U	12 Meter	Natural Gas 82 M3/Hr	SPM SO2 NOX	Adequate Stack Height
2.	D. G. Set (Stand By) Capacity : 250 KVA	7 Meters	Diesel 30 Liter/Hr	SPM SO2 NOX	Adequate Stack Height
ADDITIONAL					
1.	Steam Boiler Cap.: 2 MT/Hr (Gas Based)	12 Meter (Common Stack with existing stack)	Natural Gas 166 M3/Hr	SPM SO2 NOX	Adequate Stack Height
PROPOSED TOTAL					
1.	Common Stack attached to Steam Boiler Cap.: 2 MT/Hr (Gas Based)	12 Meter	Natural Gas 166 M3/Hr	SPM SO2 NOX	Adequate Stack Height
	Thermo pack Unit Cap.: 600 U		Natural Gas 82 M3/Hr		
2.	D. G. Set (Stand By) Capacity : 250 KVA	7 Meter	Diesel 30 Liter/Hr	SPM SO2 NOX	Adequate Stack Height

Process Stack

PROCESS EMISSION				
Vent No.	Vent Attached To	Vent Height	Pollutants	APCM
EXISTING				
1.	Acidification Vessels	12 Meter	SO2	Two Stage Scrubber (i.e. Ventury Scrubber &Verticle column packed scrubber) is
2.	Acidification Vessels			

				provided
ADDITIONAL				
1	Condensate vessel (for PANA)	12 Meter	NH3	Two Stage Alkali Scrubber
PROPOSED TOTAL				
1.	Acidification Vessels	12 Meter	SO2	Two Stage Scrubber (i.e. Ventury Scrubber & Verticle column packed scrubber) is provided
2.	Acidification Vessels			
3	Condensate vessel (for PANA)	12 Meter	NH3	Two Stage Alkali Scrubber

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance. The EAC also found the additional information to be satisfactory.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention

and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure**:-

- (i) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. All the waste water to be collected and to be reused after treatment.
- (ii) Total fresh water requirement shall not exceed 140 cum/day, proposed to be met from SMC Water Supply Authority. Necessary permission obtained in this regard shall be renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.
- (iii) As proposed 2% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for education including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR. Preference shall be given to local villagers for employment in the unit.
- (iv) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (v) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (vi) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (vii) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.

- (viii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (ix) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (x) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (xi) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xii) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xiii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiv) The green belt of at least 5-10 m width shall be developed in nearly 40% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xv) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda 22.20

Manufacturing unit of Formaldehyde (37%) (100 TPD), Melamine Formaldehyde Resin (42.5 TPD), Phenol Formaldehyde Resin (15.0 TPD), Urea Formaldehyde Resin (42.5 TPD) at Village- Hambran, Near Murti Agro Foods, Hambran Road, Tehsil & District -Ludhiana, Punjab by M/S Balaji Overseas- Reconsideration of Environmental Clearance

[IA/PB/IND2/127321/2019, IA-J-11011/56/2019-IA-II (I)]

The Project Proponent and their accredited Consultant M/s Eco Laboratories & Consultants Pvt Ltd made a detailed presentation on the salient features of the project and informed that:

The proposal was earlier placed before the EAC in its meeting held during 21-23 January, 2020. Based on the request of the project proponent, the proposal was deferred earlier. The proposal was again placed before the Committee in its meeting held during 13-15 April, 2020. The EAC during deliberations noted that the project is proposed to be located in the ground water over exploited area. The project proponent has not given proper water balance diagram and effluent treatment mechanisms. Further incremental values of the air quality parameters are found to be at higher level. The Committee after detailed deliberations, deferred the proposal and desired for certain requisite information/inputs. Information desired by the EAC and response submitted by the project proponent is as under:

S. No.	Observation of EAC	Reply of PP
1.	During PH, there were issues related to pollution in Buddha Nala as the Industries are polluting the Nala. The committee want the detailed action plan on this issue and other issues raised during PH.	During PH the issues raised with respect to Buddha Nala were generic. However the distance of proposed project is more than 20km from Budha Nala. Distance on Google imagery is attached.
2.	Details/ report of the alternate site analysis study needs to be conducted.	No alternate site is examined.
3.	Revised water balance scheme with details of total water AND fresh water requirement.	Revised water balance is attached.
4.	Detailed effluent treatment with ZLD.	Detailed report of the same is attached and presented.
5.	The Committee noted that the proposed project site comes under over exploited area regard to	Water will be sourced from surface water (Kotli Miner 2-R Rajwaha Burji 9200 left

	availability of water. In this context PP needs to explore the alternate water source and commitment/MOU from the concerned authority.	side). Permission letter is attached as.
6.	Recalibration of incremental GLCs due to the proposed project needs to redone as there is some error in the air quality modeling.	Revised air quality modeling is provided and presented.
7.	Detailed CER plan along with activities and its timeline and budget needs to be submitted.	Revised CER activities are provided and presented.
8.	The Committee noted that initially the report was prepared by the M/S Shivalik Consultant and now new consultant M/s Eco Laboratories & Consultants Pvt Ltd. has come for presentation. The Committee suggested that as per the laid down procedure the new consultant shall redone some of the studies for data validation and own the report and the correction accordingly.	Data revalidation is attached as and presented.

The proposal is for environmental clearance to the project for setting up Resin Manufacturing unit of capacity 200 TPD by M/s Balaji Overseas in an area of 7365.27 sqm., located at Village Hambran, Tehsil & District Ludhiana, Punjab.

The project/activity is covered under category A of item 5(f) 'Synthetic organic chemicals industry' of the schedule to the Environment Impact Assessment (EIA) Notification, 2006 and requires appraisal at central level by sectoral Expert Appraisal Committee (EAC) in the Ministry.

Standard TORs were issued vide letter dated 24th march, 2019. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on dated 17.09.2019. The main issues raised during the public hearing are related to employment to locals, pollution & odour, etc.

Land area available for the project is 1.82 acres (7365.27sqm). Industry will develop greenbelt in an area of 2428.11 sqm covering 33% of project area. The estimated project cost is Rs. 4 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 9 lakh and the recurring cost (operation and maintenance) will be about Rs. 4.8 lakhs per annum. The project will provide employment for 25 persons. Industry proposes to allocate Rs. 8 lakh @ of 2 % of project cost towards Corporate

Environmental Responsibility.

There are no National parks, Wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km from the project site. Satluj River is flowing at 7Km in North direction and Sirhind Canal is flowing at 3km in South direction from the project site.

Ambient air quality monitoring was carried out at 8 locations during 15th March, 2019 to 15th June, 2019 and the baseline data indicates the ranges of concentrations as: PM₁₀ (72.3-82.2µg/m³), PM_{2.5} (33.5-44.4.µg/m³), SO₂ (7.1-12.5µg/m³) and NO₂ (20.2-30.2µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project are within the National Ambient Air Quality Standards.

Total water requirement is estimated to be 258 cum/day, which includes fresh water requirement of 244 cum/day, proposed to be met from surface water (Kotli Miner 2-R Rajwaha Burji 9200 left side). Permission has been obtained vide letter dated 25.6.2020 issued by Superintendent Engineer, Sirhind Canal Area, Punjab.

The proposed plant will be based on Zero Liquid Discharge. No process waste water will be generated. The wastewater collected is evaporated in a multi-effect evaporator using the waste steam from the formaldehyde process. The evaporated water is condensed in an indirect condenser and the condensate of the all the effects are collected and recycled to the raw water tank. Thus, there is Zero Liquid Discharge from the plant Water.

Power requirement for the plant will be 200KW. The power will be sourced from PSPCL (Punjab State Power Corporation Limited). Solar panel for outer lighting, LED lights for inner lighting will be used as power saver. One DG set of 350 KVA capacity will be used as standby during power failure. Stack (height 4m) will be provided as per CPCB norms to the proposed DG sets.

Two boilers with capacity 600 kg/hr or 0.600TPH each of 20m stack height are proposed to be installed. Wet Scrubber will be installed as for process vent. Multiple dust cyclone separators with adequate height controlling the particulate emissions within the statutory limit of 150 mg/Nm³ for the proposed boilers will be installed.

S. No.	Particular	Details
1.	Capacity of boiler	2×600kg/hr or 2× 0.600TPH
2.	Type of fuel	HSD/wood briquette
3.	Fuel Consumption	20lt/hr
4.	Stack height (Common chimney)	20m

5.	APCD:- a) Boiler b) Process vent	a) Cyclone & bag filter b) Wet scrubber
The particulate emissions are controlled installation of multiple dust cyclone separators. Wet Scrubber will be installed as APCD for control of process/fugitive emission vent.		

Waste salt as Hazardous waste will be generated @ 171Kg/day and used oil @ 50lt/year from DG set will be generated. The waste salt will be collected, stored separately and disposed off at TSD site & used oil will be sold to authorized recyclers. No litigation is pending against the project.

The details of products and capacity as under:

S. No	Product Details	Total Quantity
1.	Formaldehyde (37%)	100 TPD
2.	Melamine Formaldehyde Resin	42.5 TPD
3.	Phenol Formaldehyde Resin	15 TPD
4.	Urea Formaldehyde Resin	42.50 TPD

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the public hearing issues, action plan and the CER plan and found to be addressing the issues in the study area. The Committee noted that the additional information submitted by the project proponent in response to its last meeting found to be addressing the concerns raised and satisfactory. Additional details provided related to the plan for procurement of surface water, quality of the water and laying of pipeline from the source to the unit has also been deliberated by the Committee and found to be satisfactory.

The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (iii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iv) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (v) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (vii) Total fresh water requirement shall not exceed 244 cum/day, proposed to be met from surface water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority and renewed from time to time.

- (viii) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system. All the vent pipes should be above the roof level.
- (ix) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (x) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xi) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiii) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xiv) As proposed Rs 8 lakhs shall be allocated for Corporate Environment Responsibility (CER), and shall be utilized for meeting requirement in the study area/public hearing issues (like infrastructure to schools, sanitation etc,). The CER plan shall be completed before commissioning of the project.
- (xv) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No. 22.21

Expansion of agrochemicals and their intermediates manufacturing unit by M/s Bharat Rasayan Limited (Unit-II) at Plot No. 42/4, Amod Road, Dahej-I GIDC Industrial Estate, Dahej, District Bharuch, (Gujarat) - Consideration of Environmental Clearance

[IA/GJ/IND2/114039/2008, J-11011/961/2008-IA-II (I)]

The project proponent and their accredited consultant M/s. Siddhi Green Excellence Pvt. Ltd. made a detailed presentation through Video Conferencing (VC) on the salient features of the project.

The proposal was earlier considered by the EAC in its meeting held during 11-13 May, 2020, wherein the EAC, after deliberation, sought the following information:

- (1) During deliberations PP could not produce the PI Diagram as desired by the EAC committee to show the chilling systems installed at various locations which have been realizing toxic VOC in the environment. Also, VOC monitoring and detection systems not presented.
- (2) PP also failed to submit a detailed risk management report by using Process Safety and Risk Management (PSMR) using advanced 3D modeling with location of detectors and number of detectors
- (3) The industry being hazardous in nature and considering the recent Chemical Accident that took place in Visakhapatnam and other places, the PP can wait till the compliance of the above requirement.
- (4) PP is making an excuse in the name of Pandemic and is unable to show any evidence of compliances as sought by the Sub-Committee and EAC- Industry -II and therefore the EC cannot be recommended at this stage for risking the community and infrastructure.
- (5) PP could not present how 33% greenery share with planted in light of very high TDS in the ground water.
- (6) Committee suggested PP to present action taken on all the points indicated in the visit report.
- (7) The Committee informed PP that the Visit report has been alarming needing closure of the factory and thus, the points indicated in the visit report has to be complied with in letter and spirit.

In response of the same the project proponent has submitted the point wise reply as under:

S. No.	Additional information sought by the EAC	Reply submitted by the project proponent	Observation of EAC
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1.	During deliberations PP could not produce the PI Diagram as desired by the EAC committee to show the chilling systems installed at various locations which have been realizing toxic VOC in the environment. Also, VOC monitoring and detection systems not presented.	PI Diagram showing of modification done in chilling systems installed at various locations for better control of VOC is attached	The EAC found the reply to be satisfactory
2.	PP also failed to submit a detailed risk management report by using Process Safety and Risk Management (PSMR) using advanced 3D modeling with location of detectors and number of detectors	A detailed report of Risk Management(PSMR) using advanced 3D modeling is attached	The EAC found the reply to be satisfactory
3.	The industry being hazardous in nature and considering the recent Chemical Accident that took place in Visakhapatnam and other places, the PP can wait till the compliance of the above requirement	3D Modeling has been done by Gexcon India Pvt. Ltd. and details study for the same has been completed. Details report of risk management using advanced 3D modeling is attached	The EAC found the reply to be satisfactory
4.	PP is making an excuse in the name of Pandemic and is unable to show any evidence of compliances as sought by the Sub-Committee and EAC-Industry -II and therefore the EC can	All points mentioned have been complied and detailed report is attached	The EAC found the reply to be satisfactory

	not be recommended at this stage for risking the community and infrastructure		
5.	PP could not present how 33% greenery share with planted in light of very high TDS in the ground water	The species of Plants used for developing greenbelt area are able to grow In light of very high TDS in the ground water. So it is possible to develop & maintain existing greenbelt area (33% of the plot area) at this location Photographs of greenbelt with name & number of species attached	The EAC found the reply to be satisfactory
6.	Committee suggested PP to present action taken on all the points indicated in the visit report	Action Taken on all the points indicated in the visit reports is attached	The EAC found the reply to be satisfactory
7.	The Committee informed PP that the Visit report has been alarming needing closure of the factory and thus, the points indicated in the visit report has to be complied with in letter and spirit	All points have been studied in detail and after for compliance we hereby appraise again.	The EAC found the reply to be satisfactory

During deliberations the EAC noted the following:

The proposal is for environmental clearance to the project for expansion of agrochemicals and their intermediates manufacturing unit from 12300 to 29200 TPA by M/s Bharat Rasayan Limited (Unit-II) in an area of 105106.75 sqm at Plot No. 42/4, Amod Road, Dahej-I GIDC Industrial Estate, Dahej, District Bharuch, (Gujarat).

Details of existing and proposed products are as under:

	Name of Product	CAS No.	Existing (TPA)	Proposed (TPA)	Total (TPA)	End Use	LD50 – Oral (Rat) mg/kg	Remarks

1.	2,4-D-Ethyl Ester	533-23-3	0	700	700	Weedicide	650 – 800	New Product
2.	4-acetyl-2-methylbenzoic acid (AMBA)	55860-35-0	0	50	50	Intermediate	>300 (Mouse)	New Product
3.	Atrazine	1912-24-9	0	400	400	Herbicide	2220	New Product
4.	Azoxystrobin Technical	131860-33-8	0	200	200	Fungicide	>2000	New Product
5.	Bispyribac Sodium salt	125401-92-5	0	200	200	Herbicide	2635	New Product
6.	Butachlor Technical	23184-66-9	0	1000	1000	Herbicide	1740	New Product
7.	Carfentrazone-ethyl	128639-02-1	0	50	50	Herbicide	5143	New Product
8.	Cartap Hydrochloride	15263-52-2	0	300	300	Insecticide	250	New Product
9.	Cypermethric acid chloride (CMAC)	52314-67-7	0	2000	2000	Intermediate	>600	New Product
10.	Isopropyl 5-chloro-4-Methyl-2-nitrobenzoate (CMNBP)	1204518-43-3	0	100	100	Intermediate	>500	New Product
11.	Cymoxanil Technical (98%)	57966-95-7	0	300	300	Fungicide	1100	New Product
12.	3,6-dichloropyridazin-4-ol (DCHD)	2779-81-9	0	100	100	Intermediate	>200 (Fish)	New Product
13.	Deltamethrin Technical	52918-63-5	0	300	300	Insecticide	>5000	New Product
14.	Fenoxaprop-P-ethyl	71283-80-2	0	200	200	Herbicide	3150 – 4000	New Product
15.	Fenpropathrin Technical (90% min)	64257-84-7	0	150	150	Insecticide	1000 (Skin & Eye)	New Product
16.	Halosulfuron-methyl	100784-20-1	0	50	50	Herbicide	8866	New Product
17.	2-hydroxy propyloxymine hydrochloride (HPOA HCl)	950595-72-9	0	100	100	Intermediate	>300 (Mouse)	New Product
18.	Icaridin	119515-38-7	0	15	15	Insecticide	4743	New Product
19.	Imibenconazole	86598-92-7	0	100	100	Fungicide	2800	New Product
20.	Isofetamid	875915-78-9	0	100	100	Fungicide	1302 – 6690	New Product
21.	Lambda Cyhalothric Acid	72748-35-7	0	1000	1000	Intermediate	980	New Product

22.	M,N,O-1,2 dimethyl-N-nitrosoarea	255708-80-8	0	100	100	Intermediate	>500	New Product
23.	Paclobutrazol	76738-62-0	0	50	50	Plant growth regulator	1300	New Product
24.	Penoxsulam	219714-96-2	0	100	100	Herbicide	>5000	New Product
25.	Picoxystrobin Technical	117428-22-5	0	50	50	Fungicide	>5000	New Product
26.	Pymetrozine	123312-89-0	0	100	100	Insecticide	>5000	New Product
27.	Pyriithiobac Sodium	123343-16-8	0	50	50	Herbicide	3300	New Product
28.	Spiromesifen Technical	283594-90-1	0	50	50	Insecticide	>2500	New Product
29.	Thiifluzamide	130000-40-7	0	170	170	Fungicide	>6500	New Product
30.	Thiodicarb Technical (94%)	59669-26-0	0	150	150	Insecticide	120	New Product
31.	Thiophanate-methyl	23564-05-8	0	200	200	Fungicide	6640	New Product
32.	Tolfenpyrad	129558-76-5	0	50	50	Insecticide	260 – 386	New Product
33.	Topramezone	210631-68-8	0	50	50	Herbicide	>2000	New Product
34.	Zeta Cypermethrin	52315-07-8	0	350	350	Insecticide	>5000	New Product
35.	Zineb	12122-67-7	0	200	200	Fungicide	1850 – 8900	New Product
36.	Dimefluthrin Technical	271241-14-6	0	15	15	Insecticide	>2000	New Product
37.	Meperfluthrin Technical	915288-13-0	0	8	8	Insecticide	>2000	New Product
38.	Pilot products#	--	0	100	100	--	--	New Product
39.	Acetamiprid Technical	135410-20-7	100	500	600	Insecticide	217	Expansion
40.	Alpha Cypermethrin Technical	67375-30-8	100	300	400	Insecticide	>2000 (Skin & Eye)	Expansion
41.	4-acetyl-2-methylbenzamide (AMBAD)	1095275-06-1	25	75	100	Intermediate	>300 (Mouse)	Expansion
42.	Bifenthrin Technical	82657-04-3	100	600	700	Insecticide	>2000 (Rabbit) (Dermal)	Expansion
43.	Chlorpyrifos-methyl Technical	5598-13-0	100	400	500	Insecticide	3000	Expansion
44.	Clodinafop	105512-06-	250	50	300	Herbicide	1392	Expansion

	Propargyl Technical	9						
45.	Cypermethrin Technical	52315-07-8	400	800	1200	Insecticide	7180	Expansion
46.	Chlorimuron Ethyl Technical (95%)	90982-32-4	10	15	25	Herbicide	4102	Expansion
47.	Diafenthiuron Technical	80060-09-9	300	500	800	Insecticide	2068	Expansion
48.	Propanil Technical	709-98-8	50	100	150	Herbicide	367	Expansion
49.	Diuron Technical	330-54-1	900	300	1200	Herbicide	3400	Expansion
50.	Difenoconazole Technical	119446-68- 3	50	250	300	Fungicide	1453	Expansion
51.	3',5'-Dichloro- 2,2,2- trifluoroacetophe none (DCAP)	130336-16- 2	25	75	100	Inter- mediate	>300 (Mouse)	Expansion
52.	Ethion Technical	563-12-2	700	300	1000	Insecticide	1084	Expansion
53.	Fipronil Technical	120068-37- 3	60	540	600	Insecticide	>2000 (Skin & Eye)	Expansion
54.	Fenpyroximate Technical	134098-61- 6	15	10	25	Insecticide	245	Expansion
55.	Isoprothiolane Technical (96%)	50512-35-1	100	50	150	Fungicide	1190	Expansion
56.	Imidacloprid Technical	138261-41- 3	250	350	600	Insecticide	410	Expansion
57.	Indoxacarb Technical	144171-61- 9	20	80	100	Insecticide	268	Expansion
58.	Imazethapyr Technical (97%)	81335-77-5	50	50	100	Herbicide	>5000	Expansion
59.	Lambda Cyhalothrin Technical	91465-08-6	600	400	1000	Insecticide	632 – 696 (Skin & Eye)	Expansion
60.	m- Phenoxybenzalde hyde	39515-51-0	2200	90	2290	Inter- mediate	1222	Expansion
61.	Metsulfuron- methyl Technical	74223-64-6	20	10	30	Herbicide	>5000	Expansion
62.	Metribuzin Technical	21087-64-9	300	600	900	Herbicide	1100	Expansion
63.	Novaluron Technical	116714-46- 6	10	90	100	Insecticide	>5000	Expansion
64.	Propargite Technical	2312-35-8	25	75	100	Insecticide	2800	Expansion
65.	Pendimethalin Technical	40487-42-1	600	400	1000	Herbicide	3956	Expansion
66.	Phenthoate Technical	2597-03-7	400	100	500	Insecticide	435	Expansion

67.	Permethrin Technical	52645-53-1	250	250	500	Insecticide	383	Expansion
68.	Pretilachlor Technical	51218-49-6	100	400	500	Herbicide	2200	Expansion
69.	Pyrazosulfuron- ethyl Technical (97%)	93697-74-6	25	25	50	Herbicide	>5000	Expansion
70.	Sulfosulfuron Technical	141776-32- 1	20	30	50	Herbicide	>5000	Expansion
71.	Tricyclazole Technical	41814-78-2	200	100	300	Fungicide	250	Expansion
72.	Transfluthrin Technical	118712-89- 3	60	90	150	Insecticide	>5000	Expansion
73.	Thiamethoxam Technical	153719-23- 4	600	400	1000	Insecticide	1563	Expansion
74.	Tebuconazole Technical (93%)	107534-96- 3	100	500	600	Fungicide	1700	Expansion
75.	Flumethrin Technical	69770-45-2	15	15	30	Insecticide	500 – 1000	Expansion
76.	Imiprothrin Technical	72963-72-5	8	12	20	Insecticide	2400	Expansion
77.	Metofluthrin Technical	240494-70- 6	4	18	22	Insecticide	>2000	Expansion
78.	Flumethric Acid	88419-72-1	15	35	50	Inter- mediate	>5000	Expansion
79.	Propoxy Ethyl Chloride	42149-74-6	100	100	200	Inter- mediate	204	Expansion
80.	Fenvalerate Technical	51630-58-1	200	0	200	Insecticide	451	No change
81.	Hexaconazole Technical	79983-71-4	150	0	150	Fungicide	>2000 (Dermal)	No change
82.	m- Phenoxybenzyl Alcohol	13826-35-2	400	0	400	Inter- mediate	1496	No change
83.	Myclobutanil Technical	88671-89-0	15	0	15	Fungicide	1600	No change
84.	Prallethrin Technical	23031-36-9	25	0	25	Insecticide	640	No change
85.	Profenofos Technical	41198-08-7	200	0	200	Insecticide	358	No change
86.	Propiconazole Technical	60207-90-1	150	0	150	Fungicide	1517	No change
87.	Cloquintocet- mexyl Technical (Safener Technical)	99607-70-2	50	0	50	Herbicide	>2000	No change
88.	Temephos Technical	3383-96-8	50	0	50	Insecticide	1000	No change
89.	Triclopyr Technical	55335-06-3	50	0	50	Herbicide	630	No change

90.	Methanesulfonamide, N-(2-cyanophenyl)-1,1,1-trifluoro (TSBN)	53718-42-6	50	0	50	Intermediate	>300 (Mouse)	No change
91.	Amitraz Technical	33089-61-1	60	0	60	Insecticide	400	No change
92.	Bromobenzene	108-86-1	250	0	250	Intermediate	2383	No change
93.	Buprofezin Technical	69327-76-0	140	(-140)	0	Insecticide	2198	Discontinue
94.	Chlorpyrifos Technical	2921-88-2	910	(-910)	0	Insecticide	135 – 163	Discontinue
95.	Dichlorvos Technical	62-73-7	150	(-150)	0	Insecticide	435	Discontinue
96.	Glyphosate Technical	1071-83-6	50	(-50)	0	Herbicide	>5000	Discontinue
97.	Paraquat Technical	4685-14-7	43	(-43)	0	Herbicide	113	Discontinue
98.	Triazophos Technical	24017-47-8	100	(-100)	0	Insecticide	>2000 (skin & eye)	Discontinue
Total			12300	16900	29200			
Formulation Products								
1.	Pesticide Formulation (Solid)		6000	0	6000	--	--	No Change
2.	Pesticide Formulation (Liquid)		6000	0	6000	--	--	No Change
Note: # Pilot products shall be carried out for the betterment of proposed products (Sr. No.1 to 37) only. Hence, Total pollution load from Pilot products shall be disposed to common incinerator.								

The project/activity is covered under category A of item 5 (b) 'Pesticides industry and pesticide specific intermediates (excluding formulations)' of the schedule to the EIA Notification, 2006 and requires appraisal/approval at Central level in the Ministry.

The Terms of References (TORs) for the Project has been issued by the Ministry vide letter dated 11th April, 2019. Public hearing is exempted as per para 7(i), III. Stage (3), (i)(b) of the EIA Notification, 2006, and in accordance with the Ministry's OM dated 27th April 2018, as the project site is located in the notified industrial area. It was informed to the Committee that this proposal was earlier considered in four EAC meetings held during October 2019, February 2020, April 2020 & 11-13 May, 2020 and followed by site visit. The Sub-Committee, in its report recommended for consideration of project for grant of EC with certain actions/compliances.

Existing land area is 105106.75 sqm. No additional land area will be required. Industry has already developed greenbelt in an area of ~33.10 % i.e. 34792.00 sqm out of total area of the project. The estimated project cost is Rs.200 Crore (for expansion only) & existing investment is Rs.90.15 Crore. Total capital cost earmarked towards environmental pollution control measures is Rs.16 Crore and the Recurring cost (operation and maintenance) will be about Rs. 27.20 Crore per annum (for expansion only). Total Employment will be 850 Nos. persons as direct & 650 Nos. persons indirect after

expansion. Industry proposes to allocate Rs. 1.5 Crore @ 0.75 % of project cost towards Corporate Environment Responsibility.

There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, rivers etc. within 10 km distance. Dahej Reserve Forest is covered at a distance of ~6 km towards West direction. Narmada Estuary is flowing at a distance of ~7 km towards South direction.

Ambient air quality monitoring was carried out at 10 locations including project site during January 2019 to March 2019 and the baseline data indicates the ranges of concentrations as PM10 (85-95 µg/m³), PM2.5 (33-45 µg/m³), SO₂ (17-31 µg/m³) and NO_x (26-33 µg/m³) (98th percentile values) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed expansion project would be 0.669 µg/m³, 5.717 µg/m³ and 2.343 µg/m³ with respect to PM10, SO₂ and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 3122 m³/day of which fresh water requirement of 1512 m³/day will be met from GIDC supply. Industrial Effluent of 1815 m³/day will be treated through Effluent Treatment Plant (ETP) having Primary, Secondary & Tertiary Treatment, MEE and RO. 150 m³/day cooling tower blowdown will be treated through RO/Filtration and approx 130 m³/day RO permeate shall be used as makeup water for cooling tower. 20 m³/day RO reject shall be treated in MEE system. 800 m³/day industrial effluent will be treated through pre-treatment, stripper and MEE system. 760 m³/day MEE condensate and 865 m³/day industrial effluent shall be treated in ETP. 783 m³/day ETP treated effluent will be treated through RO, MEE and approximately 564 m³/day RO permeate and 209 m³/day MEE condensate shall be used as make-up water in Boiler. Treated effluent (837 m³/day) from ETP shall be passed through cartridge filter and 700 KLD shall be used for processing, APCM and washing purpose and 137 KLD shall be used as cooling tower make-up. Domestic effluent of 100 m³/day will be treated through Sewage Treatment Plant (STP).

Power requirement after expansion will be 7000 KVA including existing 2500 KVA and will be met from M/s. Dakshin Gujarat Vij Company Ltd. (DGVCL). Existing unit has 2 Nos. DG set of 750 KVA capacity of each, additionally 2 Nos. DG sets of 1500 KVA of each will be used as standby during power failure for proposed expansion. Existing 1 No. DG set of 750 KVA shall be discontinued after expansion. Stack (15 m Height) will be provided as per CPCB norms to the proposed DG Set.

Existing unit has Multi fuel boilers (1 No. 18 MT/h & 1 No. 12 MT/h standby) and Thermic Fluid Heaters (2 Nos. 4 Lakh kcal/h each - 1 operational + 1 standby). Additionally, Multi fuel boiler (1 No. 25 MT/h) and Thermic Fluid Heaters (2 Nos. 4 Lakh kcal/h each) will be installed. ESP shall be provided to Boilers and Bag filter shall be provided to Thermic Fluid Heaters with online CEMS on its stack (40 m height) for continuous monitoring. Natural gas OR Furnace Oil & Coal is used as Fuel for MFBs & TFHs, HSD is used as Fuel for DG Set and same will be used after expansion.

Ministry had issued EC earlier vide letter No. No. J-11011/961/2008-IA-II(I); dated 13th July, 2009 for manufacturing of agrochemicals manufacturing unit in favour of M/s Siris Crop Science Limited, the said EC further transferred in the name of M/s. Bharat Rasayan Limited (Unit-II) on 5th September, 2012 and amendment in EC granted for product mix change on 5th September, 2012. Further, the corrigendum granted on 10th January, 2013

The Certified report dated 2nd July, 2019 on the compliance status of the EC conditions has been forwarded by the Ministry's Regional Office at Bhopal. Further, the Regional office of the Ministry has forwarded the Action taken report on non/partial complied points vide email dated 15th April, 2020. The Committee deliberated the compliance report and found in order.

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards.

Additional information submitted by the project proponent to be satisfactory and addressing the concerns of the Committee. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The Sub-Committee of EAC has visited the Unit and suggested certain actions/compliances. The Project Proponent shall implement all the recommendations of the Sub-Committee w.r.t. control of emission, layout design, risk assessment & its mitigation measures. The Committee, after deliberation, also recommended that the layout of the project shall be audited by reputed Organization to safeguard of the environment. The audited report shall be submitted before the EAC/Ministry within 6 months.
- (ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. All the waste water to be collected and to be reused after treatment.
- (iv) Total fresh water requirement shall not exceed 1512 cum/day, proposed to be met from GIDC. Necessary permission obtained in this regard shall be renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.
- (v) As proposed 0.75% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for education including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.
- (vi) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (vii) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (viii) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (ix) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.

- (x) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (xi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (xii) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (xiii) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xiv) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xv) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xvi) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xvii) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Amendment in Environment Clearance

Agenda No.22.22

Expansion of Specialty Chemicals, Pesticide, Fluoro Chemicals & Captive Power Plant by M/s SRF Limited at Plot No. D-2/1, Village Suva, GIDC Phase II, Dahej, Taluka Vagra, District Bharuch (Gujarat) – Amendment in Environment Clearance.

[IA/GJ/IND2/128318/2019, J- 11011/379/2016-IA.II(I)]

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide letter F.No. J-11011/379/2016-IA II (I) dated 19th December 2017 for the project Expansion of Specialty Chemicals, Pesticide, Fluoro Chemicals & Captive Power Plant in favour of M/s SRF Limited at Plot No. D-2/1, Village Suva, GIDC Phase II, Dahej, Taluka Vagra, District Bharuch (Gujarat).

The project proponent has requested for amendment in the EC with the details are as under:

S. No.	Para of EC issued by MoEF&CC	Details as per the EC	To be revised as/ read as	Justification/ reasons by PP
1.	Condition No. 12 Sub-Condition : (t)	Raw Materials Storage should not exceed 3 days at any point of time	Raw Materials Storage should be kept in a safe manner at any point of time	We are using raw materials, which are either imported or procured from various corners of India. It is practically not possible to store inventory of only 3 days for following reasons: 1. Lot size: If RMs are imported (ISOs or containers), minimum inventory would be about 20 MT. How many days of inventory is sufficient would then depend upon plant capacity. Many of our key RMs are not available domestically, so it is practically not possible to avoid imports. 2. Campaigns: If the company is taking a campaign, RMs are ordered based on planned production. a. Delayed startup: If the startup of the campaign is delayed due to any reason, inventory would build up initially and eventually get consumed when the campaign is taken.

				<p>b. Delayed achievement of yield/capacity: If a new product is being commercialized, sometimes it takes some time to achieve design yield/capacity. While the plant is yet to achieve design capacity, the same quantity of inventory can represent many more days of consumption.</p> <p>c. Delayed achievement of product quality: If a new product is being commercialized, sometimes it takes some time to achieve the right product quality. In the interim, we may have some work-in-progress that is to be reprocessed and/or blended with subsequent good material before dispatch. Until the batch is completed, the work-in-progress reflects as inventory.</p> <p>d. Better than expected solvent recovery: The company does its best to recover solvents and estimates requirement conservatively. To the extent, actual recovery is better than plan, solvent inventory would be more than plan, and the impact may be substantial.</p> <p>3. Extended BCTs: We have processes that may take 7,10, 15, 20, even 45 days before the final product comes out. The RM consumption would reflect as on-site inventory till such time production is declared. It is practically impossible to have not more than 3 days of RM inventory if we have 45 days' of RMs in the process.</p> <p>4. Safety and Ownership of Hazardous Inventory: The company would prefer to keep hazardous inventory on-site rather than leaving it at dealers, suppliers or (bonded) warehouses as we feel we are much more competent and equipped to ensure safe storage and handling of hazardous chemicals. On-site inventory may therefore be higher than what other</p>
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				<p>industries (e.g., automobiles) may find necessary.</p> <p>5. Reduction of Risk: Some key RMs are made by very few suppliers, or specially for us against an order. Further, customer contracts sometimes have heavy penalties for non-delivery (e.g., 5 million dollars for late or incomplete delivery). To protect itself and minimize risk of breach of contract, the company may be forced to take and keep inventory at the time it is available to ensure we are able to produce and dispatch in line with commitments. e.g.: BTF, mABTF.</p> <p>6. Safeguard against Unplanned Plant Downtimes: There are gaps in production due to unplanned plant downtimes. Some inventory is kept to safeguard against unplanned downtime of a feedstock plant based on statistical analysis of historical downtimes. e.g.: 1,1,2,2-Tetrafluoroethyl Methyl Ether.</p> <p>7. Safeguard against Planned Plant Downtimes: Specific inventory may be built up to feed downstream plants if an upstream plant will be shut down for planned maintenance, enhancement in capacity, improvement in process to improve yield and/or production capacities. To keep the downstream plant operating while the upstream plant is down, RM inventory for the downstream plant would be built up before the shutdown, and this would be more than 3 days' worth.</p> <p>8. Some raw materials are dispatched in standard packing/ container /packing size hence we can break consignments as per our consumption pattern of three days.</p> <p>9. Import of some material happens in bulk containers – in this case unloading of</p>
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				<p>inventory of more than three days comes by default. For example, daily consumption of one material in ONE ton and packing size is of TWENTY TONS then how it will be possible to import and store inventory of THREE TONS</p> <p>10. Strategic Raw material (i.e. Fluorspar), availability worldwide is challenge so procured with bulk ordering and imported in bulk. Spar is not available locally.</p> <p>11. In house AHF/TCE/PCE generation and consumption. Critical raw material for all HFC plants and Speciality Chemicals. AHF/TCE/PCE plant goes in shutdown once in every 35 ~ 40 days during this period; stock goes down. So, this minimum seven-day stock margin will be needed.</p>
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The EAC noted that the proposal was earlier considered by the EAC in its meeting held on 30-31 December, 2019 & 1st January, 2020 and 11-13 May, 2020, wherein, the EAC suggested that PP should come with proper preparation and necessary presentation before coming to the EAC. The project proponent also needs to submit the inventory in respect of the raw materials required for the project.

In response of the same the project proponent has now submitted the details of inventory in respect of the raw material required for the project. The Committee has made detailed deliberations.

The EAC, after detailed deliberations, **recommended** the amendment in environmental clearance as proposed by the project proponent.

Agenda No.22.23

Synthetic organic chemical manufacturing unit (1550 MTPM) at Survey No.455 &456, Village Neja, Taluka Khambhat, District Annd, Gujarat by M/s Karan Intermediates Pvt. Ltd.- Amendment in Environment Clearance [IA/GJ/IND2/162377/2020, J-11011/91/2015-IA II (I)]

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide letter no. J-11011/91/2015-IA-II(I) dated 30.06.2016 for the project of Synthetic Organic Chemicals manufacturing located at Survey No. 455 & 456, Village Neja, Taluka Khambhat, District Anand, Gujarat in favour of M/s Karan Intermediates Pvt. Ltd.

The project proponent has requested for amendment in the EC with the details are as under;

Sr. No.	Para of EC issued by MoEF&CC	Details as per EC	To be revised/Read as	Justification/ reasons
1.	Condition No. 3 (Page 2)	<p>Multi cyclone followed by Bag filter along with adequate stack height will be provided to biofuel fired boiler to control Particulate emissions.</p> <p>Total water requirement will be 99.0 m³/day. Out of which, fresh water requirement will be met from ground water source will be 90.5 m³/day and remaining water requirement (8.5 m³/day) will be met from treated wastewater/recycled. Total effluent generation will be 13 m³/day and treated in the effluent treatment plant. Treated effluent will be recycled/reused in the process. No effluent will be discharged outside the plant premises and Zero effluent discharge concept will be followed. ETP sludge will be sent to TSDF for landfill. Used oil, discarded container and Spent</p>	<p>Multi cyclone followed by Bag filter along with adequate stack height will be provided to biofuel fired 1 Steam boiler (6 TPH)to control Particulate emissions.</p> <p>Total water requirement will be 116.0 m³/day. Out of which, fresh water requirement will be met from ground water source will be 104.0 m³/day and remaining water requirement (12.0 m³/day) will be met from treated wastewater/recycled. Total effluent generation will be 16.5 m³/day and treated in the effluent treatment plant. Treated effluent will be recycled/reused in the process. No effluent will be discharged outside the plant premises and Zero effluent discharge concept will be followed. ETP sludge will be sent to TSDF for landfill. Used oil, discarded container and Spent</p>	<p>EC was granted without mentioning capacity of boiler i.e. 1 TPH and Thermic Fluid Heater of (4 lac Kcal/hr.), which was proposed in the EIA report.</p> <p>Proposed to increase Boiler capacity from 1 TPH to 6 TPH and dismantle Thermic Fluid Heater (4 lac Kcal/hr.)*</p>

		catalyst or spent oil will be sent to the authorized recycler/re-processors.	catalyst or spent oil will be sent to the authorized recycler/re-processors.	
<p>* We proposed to increase steam generation capacity of Boiler from 1 TPH to 6 TPH. After granting the permission, 1 TPH boiler will be dismantled.</p> <p>At the time of EC application, there were wrong assumption of energy requirements made due to industry started by fresh and Young Entrepreneur (Chemical Engineer) based on advice of technocrat of the field. Additionally, safety point of view, plan to drop Thermic Fluid Heater and energy source from Boiler with capacity of 6.0 TPH. Currently, unable to exceed production more than 40% of installed capacity due to limited source of steam instead of actual demand.</p>				
2.	Specific Condition A (ii)	Multi cyclone followed by Bag filter along with adequate stack height will be provided to biofuel fired boiler to control particulate emissions.	Multi cyclone followed by Bag filter along with adequate stack height will be provided to biofuel fired 1 Steam boiler (6 TPH) to control Particulate emissions.	--
3.	Specific Condition A (viii)	Total water requirement from ground water source should not exceed 99 m³/day and prior permission should be obtained from the CGWA/SGWA.	Total water requirement from ground water source should not exceed 104 m³/day and prior permission should be obtained from the CGWA/SGWA.	
4.	Specific Condition A (ix)	Effluent generation shall not exceed 13 m³/day and in the ETP comprising primary, secondary and tertiary treatment facility. Treated effluent will be recycled/ reused. Domestic sewage should be treated in STP.	Effluent generation shall not exceed 16.5 m³/day (12.0 KLD industrial + 4.5 KLD domestic) and in the ETP comprising primary and tertiary treatment facility. Treated effluent will be recycled/reused. Domestic sewage should be disposed into soak pit through septic	

			tank.	
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The EAC, after detailed deliberation, the Committee accepted the request of PP and **recommended** the proposal for amendments in EC.

DAY 3: 19th August, 2020 (Wednesday)

Consideration of Environmental Clearance

Agenda No. 22.24

Expansion of Sugar 6000 TCD to 7500 TCD Sugar Plant and Molasses based Distillery 90 KLPD to 120 KLPD At Gut No.99, Village-Alegaon, Taluka- Daund, District-Pune State-Maharashtra by M/s Daund Sugar Pvt. Ltd- Consideration of Environmental Clearance

[IA/MH/IND2/132134/2017, IA-J-11011/467/2017-IA-II(I)]

The Proposal is for Environmental Clearance to the project for Expansion of Sugar 6000 TCD to 7500 TCD Sugar Plant and Molasses based Distillery 90 KLPD to 120 KLPD At Gut No.99, Village Alegaon, Taluka Daund, District Pune, Maharashtra by M/s Daund Sugar Pvt. Ltd.

The project/activity is covered under category A of item 5 (g) 'Distilleries' and item 5(j) 'Sugar Industry' of the Schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal at central level by the sectoral EAC in the Ministry. Standard TOR has been granted by Ministry vide letter No. IA-J11011/467/2017-IA-II (I) dated 16th November 2017.

The existing sugar mill crushing capacity will be increased from 6000 TCD to 7500 TCD. Existing power generation of 18 MW will not be increased as it is sufficient to run the entire complex including expansion. Existing distillery of 90 KLPD will be increased to 120 KLPD. So, earlier EC has been allotted on 22nd March, 2016.

Existing land area is 1,04,944 m²; additional 738 m² (DSPL is having sufficient land i.e. 2,14,544 m²) acres land area will be utilized for proposed expansion. Proposed plant committed to develop green belt in approximately 33% (1, 94,300 m²) of total area (19.43 ha @ 5000 plantation). The estimated project cost for expansion is Rs 1992.73 Lakh with existing investment of 11782 Lakh. Total capital cost earmarked towards environmental pollution control measures is Rs 709 lakhs and the Annual Recurring cost will be about Rs 136 lakhs per annum. Current employment is 577 persons and new expansion will propose direct 42 persons employment. Thus total 619 persons will be employed Industry proposes to allocate Rs 3.92 Crore @ of 2.5% towards Corporate Social Responsibility.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km radial distance. River/ water body Bhima River is flowing at a distance of 2.5 km in North direction is flowing in North direction.

Ambient air quality monitoring was carried at Total 8 sampling locations during December 2017 to February 2018. The minimum and maximum range of PM 10 was 55.2 $\mu\text{g}/\text{m}^3$ – 73.6 $\mu\text{g}/\text{m}^3$, the range of PM2.5 was 16.5 $\mu\text{g}/\text{m}^3$ to 32.6 $\mu\text{g}/\text{m}^3$, the SO₂ was 11.3 $\mu\text{g}/\text{m}^3$ – 20.5 $\mu\text{g}/\text{m}^3$, the NO_x was 12.5 $\mu\text{g}/\text{m}^3$ – 37.2 $\mu\text{g}/\text{m}^3$ and CO concentrations was 0.11 to 0.88 mg/ m^3 . AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.4 $\mu\text{g}/\text{m}^3$, 7.2 $\mu\text{g}/\text{m}^3$ and 1.0 $\mu\text{g}/\text{m}^3$ with respect to PM₁₀, SO_x and NO_x. All the results of air quality were observed below the standard limits prescribed by NAQMS. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 603 m³/day (Water requirement for sugar mill with cogeneration unit is 8225 m³/day. This much amount of water will be required only during first time use, startup after shut down later when production is on, by installing efficient water conservation measures, 4006 m³/day is recycled. Since in sugar industry water is generated due to cane crushing additional 5250 m³/day is available. In this way entire amount is available internally and 1031 m³/day is in excess. It is supplied to nearby farmers or own composing unit for irrigation and manure making. During offseason time water requirement will be 938 for operation of cogen plant. For distillery fresh water requirement will be 603 m³/day) of which fresh water requirement of 603 m³/day and will be met through Bhima River (Daund Village).

Effluent of 403m³/day from sugar, quantity will be treated through existing 750 m³/day capacity ETP plant and sober effluent from distillery 10m³/day will be treated in 700 m³/day capacity ETP plant. The majority of water generated is recycled back either directly into the process or after treatment in CPU. The ETP has been designed to treat capacity 750 m³ /day of Sugar effluent and 700 m³ /day of Distillery effluent. The plant will be based on Zero Liquid discharge system.

Power requirement after expansion will be 4 MW (additional) including existing cogen plant is of 18000 KVA, is sufficient to supply power for existing as well as proposed expansion and will be met from Maharashtra State electrical distribution corporation limited (MSEDCL). Existing unit has 2 DG sets of 1010 capacity, additionally 2 (All DG sets shall be HSD fired. When operated, each DG set will consume 270 liters per hour of fuel.) DG sets are used as standby during power failure. Stack (height 70m & 81m) will be provided as per CPCB norms to the proposed DG sets.

Existing sugar & cogen unit has 100 & 15 TPH Fired Boiler. Additionally 40 TPH fired boiler will be installed for Distillery Unit. ESP with a stack of height of 81m will be installed for controlling the particulate emissions within the statutory limit of 115 mg/Nm³ for the proposed boilers.

Details of Process emissions generation & management

The critical SPM concentration in the flue gas will be less than 150.0 mg/Nm³. Majority of the particulates (about 60-70%) will have sizes in the range of 2-10 µm. The emissions are expected to have temperature in the range of 140-150°C.

- (i) Electrostatic Precipitator (ESP) for Existing Sugar Mill: SSSSKL has installed ESP of 99.9% efficiency for control of particulate emission.
- (ii) Electrostatic Precipitator (ESP) for Proposed Distillery (50 KLPD): SSSSKL is proposing ESP of 99.9% efficiency for control of particulate emission.
- (iii) Gaseous Emissions SO_x and NO_x: are generated from boiler and diesel generator. As steam requirement for distillery unit will be met from boiler of co-gen plant in sugar mill there will not be any air discharges on this account due to operation of distillery.
- (iv) CO₂ Generation: The CO₂ produced from fermenters after scrubbing will be bottled to avoid air pollution.
- (v) Diesel Generators: are used only during power failure to meet the supply of power to essential services. Hence, emission due to running of D G set shall be insignificant.
- (vi) Transportation: The main raw material and product shall be brought and dispatched by road and it will be ensured that the vehicle owners must have valid PUC Certificate.

Mitigation Measures

- (i) It will be ensured that vehicles are not overloaded during transportation
- (ii) Dust suppression on internal roads will be done at regular intervals
- (iii) Boiler ash will be transferred in closed bulkers to the end users to avoid any spillage
- (iv) Better housekeeping by regular steaming of all fermentation equipment, Control of temperature during fermentation and use of efficient biocides to control bacterial contamination will help to control odor
- (v) Air Treatment Technology using Electrostatic Precipitator will manage aerial emission prior to discharge to the atmosphere via a stack. The existing stack of sugar mill plant with 72m height is adequate for particulate dispersion during the trial period of proposed Distillery Plant.
- (vi) Later, a dedicated boiler of 50TPH will be used for distillery for which a stack of 60m height is proposed which is adequate to aid dispersion to the point where emissions will not impact on any receptors
- (vii) Adequate green belt will be developed over an extent of 33% of total plot area (i.e. 20 Acres).

Details of Solid waste/ Hazardous waste generation and its management.

The Industry will generate following amount and type of wastes:-

About 960 KLD spent wash will be generated from the distillery process, that will be treated in bio-digester as primary treatment and MEE will be used for bio-compost as secondary treatment. Biocompost 300 TPD will be generated and will be sold to nearby farmers as fertilizer. Total ash generated is estimated to be around 30 TPD out of which 24 TPD will be fly ash and 6 TPD will be bottom ash and it will be collected in ash silo. Collected bottom ash will be used as manure and fly ash will be sold to brick manufacturers.

Spent Oil from the gear boxes, DG set is being reused for chains, bullock carts, and conveyor belts and if in excess is disposed to the authorized vendors as per the Hazardous Wastes (Management and Handling) Amendment Rules, 2003.

Mitigation Measures

- Generated waste will be deposited as per Municipal Solid Waste Management rule 2016 and its subsequent amendments.
- Segregated municipal solid waste shall be recycled, reused or disposed off as per norms.
- Bio-degradable waste from colony and canteen and garden trash will be composted & used as manure.
- Non-biodegradable and office waste shall be sent to authorize recycle and inert sent for low land filling.
- Fly ash & bottom ash generated from ESP & Boiler is collected in a silo. The ash is supplied to nearby brick manufacturers.

Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 19th June, 2019. The main issues raised during the public hearing are related to waste water, employment to local people, ash management, fire accidents, protection of environment, infrastructure development in school/village, etc.

A certified copy of the latest Monitoring Report of the Regional Office of the MoEFCC as per circular dated 30th May, 2012. It is informed that no litigation is pending against the project.

The details of products and capacity as under:-

S. No.	Name of Products and By-products	Capacity		
		Existing	Proposed	Total
PRODUCTS				
1.	Sugar (TCD)	6000	1,500	7,500

2.	Co-generation Power Plant (MW)	18	Nil	18
3.	Alcohol (ENA/RS/AA) (KLPD)	90	30	120
BY-PRODUCTS				
1.	Bagasse (TPD)	1680	420	2100
2.	Molasses (TPD)	270	65	335
3.	Press mud (Filter cake) (TPD)	240	60	300

The EAC during deliberations noted that the project proponent is **not achieving ZLD in letter and spirit and has proposed for bio-composting and to send treated waste water outside. It is suggested that the treated industrial effluent shall not be send outside the premises/not to be used for greenbelt inside the premises. PP can use treated domestic water for greenbelt development. The Committee has also observed that the issues raised in the public hearing required detailed deliberations along with action plan.**

The Committee, after detailed deliberations desired for following additional information/inputs in respect of the following:

- (i) Plan for achieving complete Zero Liquid Discharge System.
- (ii) This is expansion case and as per Ministry's OM May 2012, Latest certified compliance report from the Regional Office of the Ministry, and details of compliance status thereof needs to be submitted.
- (iii) Revised water balance with reduction in freshwater consumption.
- (iv) Details of power utilization from solar sources.
- (v) Ash management plan.
- (vi) Public hearing issues, action plan with CER allocation as per Ministry's OM dated 01.05.2018 needs to be submitted.
- (vii) PP uploaded the water approval in Regional language. The Committee also noted that PP/Consultant needs to be uploaded the legible document and in case of document issued in regional language then English translation copy needs to be uploaded.

- (viii) The EAC during deliberations noted that the consultant has not prepared adequate report. The Committee also suggested that the Consultant shall do proper study and then submit the report so that proposal is not delayed.

*The proposal was accordingly **DEFERRED** for the needful.*

Agenda No. 22.25

**Expansion of distillery unit from 60 KLPD to 150 KLPD & sugar unit from 7500 TCD to 12000 TCD at Ambika nagar, A/P Jagdamba Factory, Taluka Karjat, District Ahmednagar (Maharashtra) by M/s Ambalika Sugar Pvt. Ltd.-
Consideration of Environmental Clearance**

[IA/MH/IND2/153652/2020, J-11011/35/2014-IA-II(I)]

The Project Proponent and their accredited Consultant M/s Ultra-Tech made a detailed presentation on the salient features of the project and informed that:

The proposal is for environmental clearance to the project for expansion of Distillery unit from 60 KLPD to 150 KLPD & Sugar Unit from 7500 TCD to 12000 TCD at Village Ambika Nagar, A/P- Jagdamba Factory, Taluka Karjat, District Ahmednagar, Maharashtra by M/s Shri Ambalika Sugar Pvt Ltd.

The project/activity is covered under category A of item 5 (g) 'Distilleries' and item 5(j) 'Sugar Industry' of the Schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal at central level by the sectoral EAC in the Ministry.

The Standard ToR has been issued by Ministry vide letter No. No.J-11011/35/2014-IA II (I) dated 18th October 2019. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 16th meeting held during 21st-23rd January 2020 and recommended amendment in Terms of References (ToRs) for the exemption in Public consultation. Public hearing has been exempted vide Ministry's letter dated 15th April, 2020.

Ministry had issued EC earlier vide letter no. F.No. J-11011/35/2014-IA II (I); dated 14th February 2015 to the existing project of sugar unit (7500 TCD), Cogeneration Power Plant (38 MW) & Molasses based distillery unit (60 KLPD) in favour of M/s. Shri Ambalika Sugar Pvt. Ltd.

Existing land area is 1195440.86 m². Additional 79876.95 m² land will be used for proposed expansion. Industry has already developed / will develop greenbelt in an area of 33 % i.e., 503619 m² out of total area of the project. The estimated project cost is Rs 540.7241 Crore including existing investment of Rs 371.6712 crores. Total capital cost earmarked towards environmental pollution control measures is Rs 50.5 crores and the Recurring cost (operation and maintenance) will be about Rs 9.98 crores per annum. Total Employment will be 652 persons as direct & 1500-2000 persons indirect after expansion.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River/ water body Bhima is flowing at a distance of 6.6 Km in south direction.

Ambient air quality monitoring was carried out at Nine locations during October 2019 to December 2019 and the baseline data indicates the ranges of concentrations as: PM10 22 –82 $\mu\text{g}/\text{m}^3$), PM2.5 (21-38 $\mu\text{g}/\text{m}^3$), SO₂ (11-21 $\mu\text{g}/\text{m}^3$) and NO₂ (16-36 $\mu\text{g}/\text{m}^3$). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 2.8 $\mu\text{g}/\text{m}^3$, 8.8 $\mu\text{g}/\text{m}^3$ and 1 $\mu\text{g}/\text{m}^3$ with respect to PM10, Sox and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards.

Total water requirement is 5706 m³/day of which fresh water requirement of 3716 m³/day will be met from Ujani Dam Management Department Bhimanagar. Effluent of quantity 1684 m³/d (Sugar unit) & 1064 m³/d (Distillery) will be treated through Condensate Polishing Unit. & Spent wash of quantity 980 m³/d will be treated by Evaporation in MEE and CSW sent to incineration The plant will be based on Zero Liquid discharge system.

Power requirement after expansion will be 18905 kVA including existing 11480 kVA and will be met from existing 38 MW Co-generation unit. Existing unit has 1 No. of DG sets of 1010 kVA & 2 No of 750 kVA capacity, additionally no DG sets are used as standby during power failure. Stack (height 5.) will be provided as per CPCB norms to the proposed DG sets.

Existing sugar unit has 90 & 110 TPH bagasse fired boiler & distillery unit has 28 TPH concentrated spent wash & coal fired boiler. Additionally, for sugar unit 40 TPH bagasse fired boiler will be installed. & for proposed distillery expansion existing 28 TPH boiler upgraded to 30 TPH concentrated spent wash & coal fired boiler. Electrostatic precipitator (ESP) with a stack of height of 72 m, 78 m, 72m & 73m will be installed for boiler of capacity 90 TPH, 110 TPH, 40 TPH & 30 TPH respectively for controlling the particulate emissions within the statutory limit of 115 mg/Nm³ for the proposed boilers..

Details of Process emissions generation and its management – Gaseous emissions from process are mainly PM10, PM2.5, Sox, NO_x, from Boiler & DG set & CO₂ from fermentation process.

Management of Process Emissions as follows

- There are three sources of CO₂ namely,
- (1) burning of fuel in proposed boiler, and
 - (2) Generation in fermentation step and
 - (3) ETP on biological principle.

The emissions are controlled as follows

In the boiler indicators are provided to have proper air-fuel ratio for maximum combustion efficiency. Thus CO₂ will be found but not CO. the emissions are liberated at a stack height designed as per MoEF. In the surrounding, greenery is provided to absorb the residual CO₂.

The CO₂ is generated in the biological fermentation step by the help of yeast. This fermentation tank is not kept open to sky but is kept closed, so that CO₂ is collected and then scrubbed in water and after filtration it is recover bottling plant which is after which sold for commercial use.

From the effluent treatment whether by aerobic/ anaerobic, CO₂ is generated as an end result. As the BOD leading to is reduced by prevention and abatement method. The CO₂ is controlled.

The greenery maintained around is capable to reduce above. At this location there is no other CO₂ liberating activity.

Existing Air pollution control measures

Sr.No	Source	Fuel	Pollutant	Control Equipment
1	90 TPH Boiler	Baggase	PM	72 m stack height and ESP is provided
2	110 TPH Boiler	Baggase	PM	78 m stack height and ESP is provided
3	28 TPH Incineration boiler	CSW & Coal	PM, SO ₂ & Nox	73 m stack height and ESP is provided
4	D. G. Sets 1 Nos of 1010 kVA & 2 No of 750 kVA	HSD	PM & SO ₂	5 m Stack Height is provided 1010 kVA DG set & 2.5 m Stack Height is provided to 750 kVA DG set to each

Proposed Air pollution control measures

Sr. No	Source	Fuel	Pollutant	Control Equipment
1	Existing Distillery Boiler of 28 TPH will be upgraded to 30 TPH	CSW & Coal	PM, SO ₂ & Nox	73 m stack height already provided as per CPCB Norms with ESP to achieve maximum collection of fly ash
2	Proposed 40 TPH Boiler	Baggase	PM, SO ₂ & Nox	72 m stack height will be provided as per CPCB Norms with ESP to achieve maximum collection of fly ash

Details of Solid waste/ Hazardous waste generation and its management

S. No.	Type of Waste	Quantity				Treatment	Disposal	Remark
		Existing	Proposed	Total	Unit			
1	Canteen Waste	2.0	2.0	4.0	CuM/d	Compost	Own Garden	Organic
2	Domestic (Colony) Waste	4.0	1.0	5.0	CuM/d	Compost	Factory farm	Mixed
3	Press Mud	300	180	480	MT/d	Compost	Sold to farmer	Organic
4	ETP sludge	55	45	100	kg/d	--	Used as soil conditioner	Organic, Non-Haz
5	Office	2	--	2	CuM/d	--	Sales	Non-Haz.
6	Packing Sec.	1	--	1	CuM/d	--	Sales	Non-Haz.
7	Yeast Sludge	3	0.75	3.75	MT/d	Composting	On green belt	Organic, and Non-Haz.
8	Bagasse ash from Sugar & cogen Unit	60	12	72	TPD	Composting/sale	Partly for Composting & partly will be sold to brick manufacturer	Takers available
9	Incineration Boiler ash	12	150	162	TPD	Sale	Sold to farmers & brick manufacturer	Organic & high nutrient value
9	Spent oil	25	30	55	Kg/d	Burn in own boiler as fuel	Burn in own boiler as fuel	In season

PP obtained Certified EC compliance report from Regional Officer, MoEF&CC, Nagpur vide File No.EC-1085/RON/2019-NGP/6091 Dated 20th January 2020. Site visit of RO was carried out on 11.12.2019. Partial compliance issued against Condition No. V, xii for Not having Website. Industry complied the partial compliance.It is informed that no litigation is pending against the proposal.

The details of products and capacity as under:

Product Details	Existing Quantity	Proposed Quantity	Total Quantity
Distillery	60 KLPD	90 KLPD	150 KLPD
Cogeneration plant	38 MW	--	38 MW
Sugar Unit	7500 TCD	4500 TCD	12000 TCD

The EAC during deliberations noted that the utilization of the fresh water is at very higher level, in spite the fact that better technologies are available to reduce the same. It is suggested that the treated industrial effluent shall not be send outside the premises/not to be used for greenbelt inside the premises. PP can use treated domestic water for greenbelt development.

The Committee, after detailed deliberations desired for following additional information/inputs in respect of the following:

- (i) Details of products.
- (ii) Detailed Plan for achieving complete Zero Liquid Discharge System.
- (iii) Revised water balance with reduction in freshwater consumption (@2KL/KL of alcohol).
- (iv) Details of power utilization from solar sources.
- (v) CER allocation and plan as per Ministry's OM dated 01.05.2018.
- (vi) Compliance status of the existing EC conditions.
- (vii) PP uploaded the water approval in Regional language. The Committee also noted that PP/Consultant needs to be uploaded the legible document and in case of document issued in regional language then English translation copy needs to be uploaded.
- (viii) The EAC during deliberations noted that the consultant has not prepared adequate report. The Committee also suggested that the Consultant shall do proper study and then submit the report so that proposal is not delayed.

*The proposal was accordingly **DEFERRED** for the needful.*

Agenda 22.26

Manufacturing activity of API and API- Intermediate on Plot No. D-10, MIDC Paithan, Taluka: Paithan, Aurangabad, Maharashtra by M/s Shalini Organics Pvt. Ltd - consideration of Environment Clearance [IA/MH/IND2/153491/2020]

The Project Proponent and their accredited Consultant M/s Green Circle inc, made a detailed presentation on the salient features of the project & informed that:

The proposal is for environmental clearance to the project for Manufacturing of API & API Intermediates at Plot No. D-10, MIDC Paithan, Taluka: Paithan, Dist. Aurangabad, Maharashtra, by M/s. Shalini Organics Pvt. Ltd.

It is informed that the proposal is submitted as per the Ministry's Notification dated 27th March, 2020 considering the project is for manufacturing API, under category B2. As the Jayakwadi Bird sanctuary is located at 4.46 Km from the project site, the proposal was submitted at the central level.

The Committee during deliberations noted that, as per the Ministry's notification dated 27th March, 2020; *"All proposals for projects or activities in respect of **Active Pharmaceutical Ingredients (API)**, received up to the 30th September 2020, shall be appraised, as Category 'B2' projects, provided that any subsequent amendment or expansion or change in product mix, after the 30th September 2020, shall be considered as per the provisions in force at that time."*

It was noted that the special lenience provided by the Ministry is to expedite the prior Environmental Clearances to the projects or activities, as a part of comprehensive and robust system to handle the Novel Corona Virus (COVID-19) outbreak, to ensure drug availability or production to reduce the impact of the Novel Corona Virus (COVID-19), the Ministry has categorized projects of 'Active Pharmaceutical Ingredients (API)' as Category 'B2'.

It was also observed that the consultant M/s Green Circle inc has misguided the project proponent in this regard. The Committee has noted that earlier also, it was proposed to initiate action against the consultant for poor quality of technical reports and wrong doings. The Committee took serious note on the matter and decided that, if it continue to do the same, the EAC shall not be listening the proposal presented by M/s Green Circle inc in the upcoming meetings and would lead to debar.

It was noted that the intermediate proposed to manufacture found utilization in many other applications other than APIs. The Committee, after detailed deliberations, desired that the project requires appraisal at the central level as Category B1. The project proponent shall submit the proposal for ToR, prepare EIA/EMP report for consideration for environmental clearance.

*The proposal was accordingly **RETURNED** in its present form.*

Agenda No.22.27

Setting up pesticide & pesticide intermediate manufacturing unit of capacity 100 TPM by M/s Saga Chemie Pvt. Ltd in an area of 1000 sqm at Plot No. 201/3, GIDC Industrial Estate-Panoli, Taluka Ankleshwar, District Bharuch (Gujarat) - consideration of Environment Clearance

IA/GJ/IND2/78833/2018, IA-J-11011/280/2018-IA-II(I)]

The Project Proponent and their consultant M/s Aqua-Air Environmental Engineers Pvt. Ltd. (Hon'ble High Court of Gujarat stay order), made a detailed presentation through Video Conferencing (VC) on the salient features of the project.

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for setting up pesticide & pesticide intermediate manufacturing unit of capacity 100 TPM by M/s Saga Chemie Pvt. Ltd in an area of 1000 sqm at Plot No. 201/3, GIDC Industrial Estate-Panoli, Taluka Ankleshwar, District Bharuch (Gujarat).

The details of existing and proposed products and capacity as under:

S. No	Product	CAS no.	Quantity MT/Month			End use of product	LD50 (mg/kg)
			Existing	Proposed	Total		
1.	Repacking of PGA, EDTA, SBS powder, Phosphoric acid, 2,6 Dipicolonic acid, SBS solution, Acetic acid derivatives, Indicator & stain powder, Metheline Blue, Butyric acid, Citrazinic Acid, HydroxylamineHydrochloride, 1-Hydroxy Benzotrizole, 2-Hydroxy quinoxaline	--	1000	-950	50	--	--
2.	Formulation of Emulsifier	--	250	-50	200	Used by agro industries	--
3.	Pesticide & Agrochemicals formulation and Repacking (job work & own manufacturing)	--	300	-100	200	Used by agro industries	--
4.	Sodium Hydrogen Sulphide	1672 1-80-	500.00	-200	300	Industrial use	4090

		05					
5.	Formulation of herbal powder		100	-100	00	--	--
6.	Para Chloro Meta Cresol	59-50-7	--	100	100	Specialty Chemicals	50
7.	Para Chloro Meta Xylenol	88-04-0	--			Specialty Chemicals	3830
8.	Para Chloro Ortho Cresol	1570-64-5	--			Used as intermediate of phenoxy herbicides	1320
9.	Para Chloro Meta Toludine	95-69-2	--			intermediate of pesticide	4000
10.	Chloro phenol	108-95-2	--			Used in pesticide, Herbicide	670
11.	Cyclopentanone	120-92-3	--			used in perfume industries	1820
12.	Benzophenone 3	131-57-7	--			Used in cosmetics	7400
13.	Benzophenone 4	4065-45-6	--			Used in cosmetics	2895
14.	Tertiary Butyl Isocynate	1609-86-5				Used as intermediate	2000
15.	Tertiary Butyl Chloride	507-20-0	--			Used as intermediate	1250
16.	Tertiary Butyl Carbitol Phosphite	235-996-8	--			Used to prepare antioxidant and fragrance	2743
17.	Tris Tridecyl Phosphite	2929-86-4	--			Used in Dyes	16100
18.	Ethyl Benzyl Meta Sulphonic Acid	101-11-1	--			Intermediate of Azoxystrobin	5000
19.	2-Cyano Phenol	611-20-1	--				450
20.	4,6 Dichloro Pyrimidine	1193-21-1	--				1000
21.	2-Hydroxy Phenyl Acetic Acid	614-75-5	--				2000
22.	Saga 545	70445-33-9	--			Cosmetics ingredient	2000
23.	1,2 Octane Diol (Capryl	1117-	--			Used in	1250

	Glycol)	86-8				skin conditionin g agent	
24.	1,2 Hexane Diol	629- 11-8	--			Cosmetics & personal ingredient	1760
25.	1,2 Pentane Diol	5343- 92-0	--			Intermedia te of pharma	3200
26.	2-Hydroxy Quinoxaline	1196- 57-2	--			Intermedia te of pesticide	1260
27.	Dipicolinic Acid	499- 83-2	--			Used as catalyst	322
28.	Meta Nitro Aniline	99- 09-2	--			Intermedia te of dyes	1838
29.	Aldehyde or Ketone to Alcohol	100- 51-6	--			Intermedia te of pesticide	1230
30.	2,4 Dichloroacetophenone	2234 -16-4	--			Chemical & Pharma	2000
31.	3 Hydroxyacetophenone	121- 71-1	--			Organic synthesis	1500
32.	1 ChloroAdamantane	935- 56-8	--			Chemical	700
33.	1 AcetamidoAdamantane	880- 52-4	--			Pharma	700
34.	1 BromoAdamantane	768- 90-1	--			Pharma	700
35.	1 Amino adamantane	768- 94-5	--			Pharma	700
36.	Anisole	110- 66-3	--			Pesticide	2800
37.	2 Methyl anisole	578- 58-5	--			Pharma	4850 mg/k g
38.	4 Methyl anisole	104- 93-8	--			Synthetic flavor	1920
TOTAL			2050	-1200	850		

The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

The Standard ToR has been issued by the Ministry vide letter dated 4th November, 2018. Public hearing is exempted as per para 7(i), III. Stage (3), (i)(b) of the EIA Notification, 2006, and in accordance with the Ministry's OM dated 27th April 2018, as

the project site is located in the notified industrial area. No litigation is pending against the proposal.

Total land area for the proposed project is 1000 sqm. Green belt will be developed in an area of 30 % of the total plot area. The Estimated project cost is Rs.5 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 73 Lakhs and the Recurring cost (operation and maintenance) will be about Rs. 10.23 Crores per annum. Proposed project will generate employment for 25 persons as direct & indirect.

There are no National Parks, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km. PP reported that the conservation plan for schedule-I species were prepared and submitted to Wildlife Department State Govt. for approval. The Committee deliberated the same.

Ambient air quality monitoring was carried out at 8 locations during March 2019 to May, 2019 and submitted baseline data indicates that ranges of concentrations of PM10 (75.38 – 95.94 µg/m³), PM2.5 (42.9 – 49.87 µg/m³), SO₂ (10.87 – 26.72 µg/m³) and NO₂ (19.22 – 28.53 µg/m³) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.14738 µg/m³, 0.25853 µg/m³, 0.0905 µg/m³, 0.00256 µg/m³ with respect to SPM, Sox, NO_x, & HCL. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 26 m³/day of which fresh water requirement of 26 m³/day + Rain Water Harvesting 1.0 m³/day and will be met from GIDC Water Supply. Total wastewater generation will be 11 KL/Day. Total Industrial wastewater (7.5 KL/Day) From Process, Boiler, Cooling, Washing, Scrubber will be sent to ETP consists of primary treatment and then treated effluent shall be sent to Common MEE, Panoli for the further treatment and final disposal. 3.5 KLD Domestic wastewater will be disposed through Septic Tank/Soak Pit.

Power requirement for proposed project will be 500 KVA and will be met from DGVCL. 1 Nos. DG set of 100 KVA capacity shall be used as standby during power failure. Stack (height 11 m) will be provided as per CPCB norms to the proposed DG sets of 100 KVA which will be used as standby during power failure. Unit shall have 1 Nos. of Steam Boiler (850 kg/Hr) Natural Gas = 8.0 Nm³/Hr., 1 Nos. of Thermopack 6 Lakh Kcal/Hr Natural Gas = 140 Nm³/Hr., 1 Nos. of D.G Set Diesel - 30 Liter/Hr. will be installed. Adequate Stack height will be provided. Stack of height of 11 m will be installed for controlling the Particulate emissions (within statutory limit of 150 mg/Nm³) respectively.

Details of Process emissions generation and its management.

2) Flue Gas Stack

S. No.	Source Of Emission With	Stack Height (Meter)	Type Of Fuel	Quantity Of Fuel Mt/Day	Type Of Emissions I.E. Air	Air Pollution Control Measures
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	Capacity				Pollutants	(APCM)
Existing						
1	Thermopack-1 Nos. (Existing) Capacity: (6 lacs kcal/H)	30 meter	Natural Gas	140 NM ³ /Hr	PM=150 mg/Nm ³ SO ₂ =100 ppm NO _x =50 ppm	Adequate Height Provided
Proposed						
2	Steam Boiler -1 Nos. (Proposed) Capacity: (850 kg/H)	30 meter	Natural Gas	8 NM ³ /Hr	PM=150 mg/Nm ³ SO ₂ =100 ppm NO _x =50 ppm	Adequate Height Provided
3	DG Set 100 KVA	11 meter	Diesel	30.0 Lit/Hr	PM=150 mg/Nm ³ SO ₂ =100 ppm NO _x =50 ppm	Adequate Height Provided

3) Process Stack

S. No.	Stack attached to	Stack Ht.(in m)	Probable pollutants Limits	Air Pollution Control System
Existing				
1	Spray Dryer	Stack ht: 11 m. Diameter: 100 mm	SPM <100 mg/Nm ³	Cyclone Separator + Wet scrubber
Proposed				
1	Reactor Vessel	Stack ht: 11 m. Diameter: 100 mm	HCl <20 mg/Nm ³	Two stage Water Scrubber
2	Reactor Vessel	Stack ht: 11 m. Diameter: 100 mm	SO ₂ <40 mg/Nm ³	Two stage alkali scrubber

Details of Solid waste/ Hazardous waste generation and its management area as under:-

Twelve categories of hazardous waste ETP Sludge, Discarded Drums/Bags/liners, Used oil, Organic residue, Distillation Residue, spent solvent, Dil. HCl sol. (30%), Sodium bisulfite (28%), Chromium salt, spent sulfuric acid, Cresylic acid, TEA H₃PO₄ salt will be generated.

Disposal of Hazardous Waste: ETP Sludge sent to common TSDF site, Discarded Drums/Bags/liners-sell to GPCB approved recyclers/vendors. Used oil-& sell to GPCB approved recyclers. Organic residue is reused in next batch after recovery. Distillation Residue-sent for co-processing or incineration at common incinerator site. Spent

Solvent-recovery by in-house distillation & reuse within the premises., Dil. HCl sol. (30%) & Sodium bisulphite (28%) treated in ETP. Spent Sulphuric Acid, Chromium salt, Cresylic acid, TEA H₃PO₄ salt-will be sold to authorized end user.

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006 and the guidelines issued by the Ministry on critically polluted area and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25th October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.
- (ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental

management, and risk mitigation measures relating to the project shall be implemented.

- (iii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. All the waste water to be collected and to be reused after treatment.
- (iv) Total fresh water requirement shall not exceed 26 cum/day, proposed to be met from GIDC supply. Necessary permission obtained in this regard shall be renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.
- (v) As proposed 4% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER) as per Ministry's OM dated 1st May 2018 & CPA OM dated 31.10.2019. As proposed, the CER allocation shall be spent mainly for education including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR. Preference shall be given to local villagers for employment in the unit.
- (vi) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (vii) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (viii) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (ix) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (x) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (xi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.

- (xii) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (xiii) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xiv) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xv) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xvi) The green belt of at least 5-10 m width shall be developed in nearly 40% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xvii) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No. 22.28

Expansion of Dyes, Intermediates and Pigments manufacturing unit by M/s Waxoils Pvt Ltd at Plot No. 13,14,15,20,21 &22,Bharuch Ind.Co-Op. Estate, Bholav, Taluka & District Bharuch (Gujarat) - Consideration of Environmental Clearance

[IA/GJ/IND2/127845/2019, IA-J-11011/371/2019-IA-II(I)]

The project proponent and their consultant Aqua Air Environmental Engineers Pvt. Ltd. made a detailed presentation on the salient features of the project through Video Conferencing (VC).

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project of Expansion of Dyes, Intermediates and Pigments manufacturing unit by M/s Waxoils Pvt Ltd in an area of 6040 sqm at Plot No. 13,14,15,20,21 &22, Bharuch Ind. Co-Op. Estate, Bholav, Taluka & District, Bharuch, (Gujarat)

The details of products and capacity as under:

Sr. No.	Product Name.	Existing Capacity (MT/Month)	Additional Capacity (MT/Month)	Total Capacity (MT/Month)	CAS Nos
1.	Bees Wax	25	-	25	8012-89-3
2.	Petroleum Jelly	100	-	100	8009-03-8
3.	Liquid Parafin	100	-	100	8012-95-1
4.	Emulsifying Wax	50	-	50	8014-38-8 6772-27-0 68439-49-6 9004-99-3 123-94-4 25383-94-7 2197-63-9 9004-95-9
5.	Petro Waxes	23	-	23	6472-61-6
6.	Hard Paraffin Wax	30	-	30	8002-74-2
7.	Micro Crystalline Wax	30	-	30	63231-60-7
8.	Glyceryl Mono Stearate	0	25	25	123-94-4
9.	Glyceryl Cocoate	0	25	25	8033-99-6
10.	CeatoStearyl Stearate	0	25	25	93820-97-4
11.	Stearyl Stearate	0	25	25	2778-96-3
12.	CetylRicinoelate	0	25	25	--
13.	Cetyl Palmitate	0	25	25	540-10-3
14.	MyristylMyristate	0	25	25	3234-85-3
15.	CetylOleate	0	25	25	22393-86-8
16.	Myristyl Stearate	0	25	25	177661-50-56
17.	Sodium StearoylLactylate	0	25	25	2583-94-7
18.	Candelilla Wax	0	15	15	8006-44-8
19.	Cocoa Butter	0	10	10	8002-31-1
20.	Shea Butter	0	10	10	68424-60-2
21.	Carnauba Wax	0	15	15	8015-86-9
22.	VEGANCERAS NJ	0	15	15	8001-21-6 8001-78-3

					8001-79-4
23.	Veganceras SBW	0	25	25	71243-51-1
24.	VEGANCERAS DL	0	25	25	8050-09-7
25.	Ozokerite Wax	0	25	25	84136-31-2
26.	Ceresine Wax	0	25	25	84136-31-2
27.	Chapstick Base	0	25	25	63231-60-7 84836-98-6 8015-86-9 8006-44-8 84136312
28.	Hard Fat	0	25	25	123-94-4 52622-27-2
29.	Emulsifying Ointment	0	25	25	8009-03-8 8012-95-1 8014-38-8
Total		358	490	848	

All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and required appraisal/approval at Central level in the Ministry.

The Standard ToR has been issued by the Ministry vide letter dated 23 April, 2018. Public Hearing for the expansion project has been conducted by the Gujarat State Pollution Control Board on 7th August, 2019 which was presided over by Additional District Magistrate & Additional District Collector. The main issues raised during the public hearing are related to Publicity of PH. It is reported that no litigation is pending against the proposal.

Total land area for the proposed project is 6040sqm. Green belt will be developed in an area of 2000sqm i.e. 33% of the total plot area. The estimated expansion cost of the project is Rs.10 Lakh. Total capital cost earmarked towards environmental pollution control measures and the recurring cost (operation & maintenance) is included in the total project cost. Proposed expansion project will generate 05 additional employments.

There are no National Parks, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc within 10 km. PP reported that the conservation plan for schedule-I species were prepared and submitted to Wildlife Department State Govt. for approval. The Committee deliberated the same.

Ambient air quality monitoring was carried out at 10 locations during Mar 2018 to May 2018 and the baseline data indicates the ranges of concentrations as: PM10 (71.95 – 81.6 µg/m³), PM2.5 (41.98– 53.3µg/m³), SO₂ (11.8 – 18.95µg/m³) and NO_x (11.56– 18.95µg/m³). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be PM10 - 80.7 µg/m³, PM2.5 - 53.7 µg/m³, SO₂ – 19.3 µg/m³ and NO_x – 21.8 µg/m³. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 7.2 cum/day. Fresh water will be met from the Bharuch Udhog nagar Sahakari Sang Ltd. Bharuch. Effluent of 3.1 cum/day quantity will be treated through ETP. The unit is based on complete ZLD. Power requirement will be 170 kVA proposed to be met from Dakshin Gujarat Vij Company Limited (DGVCL). Proposed unit shall keep DG sets of 85 kVA capacity which will be used as standby during power failure/ emergency. Stack (height 9 m) will be provided as per CPCB norms.

Details of Process emissions generation and its management is mentioned below

S. NO.	STACKS ATTACHED TO	HEIGHT FROM GROUND LEVEL (M)	CONSUMPTION OF FUEL (KL/HR)	DIAMETER (M)	EXPECTED POLLUTANTS
1.	BABY BOILER & THERMIC FLUID HEATER	11	4.58 SCM/HR NATURAL GAS	0.2	PM 150 MG/NM3 SO2 100 PPM NOX 50 PPM
2.	BABY BOILER	11	10.41 KG/HR FIRE WOOD*	0.2	
3.	85 KVA (STAND-BY DG SET)	9	0.625 LIT/HR. DIESEL	0.12	

Note: existing utility sufficient for manufacturing additional new products.

* fuel will be changed from fire wood to agro waste briquette in baby boiler.

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the

EAC have found the proposal in order and have recommended for grant of environmental clearance.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iii) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (iv) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (v) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (vii) Total fresh water requirement shall not exceed 7.2 cum/day, proposed to be met from the Bharuch Udhoygnagar Sahakari Sang Ltd. Bharuch. Necessary

permission obtained in this regard shall be renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.

- (viii) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (ix) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (x) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xi) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiii) As proposed green belt of at least 10-20 m width shall be developed mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. As committed by the project proponent, the greenbelt area shall be developed and maintained in an area of 33% out of the total project area.
- (xiv) As proposed 1% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed

within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.

- (xv) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No. 22.29

Hemani Intermediates Pvt. Ltd (Unit-II) - PROPOSED EXPANSION OF SPECIALITY CHEMICALS, AGROCHEMICALS, AGROCHEMICAL INTERMEDIATES & FORMULATION IN EXISTING UNIT- consideration of Environment Clearance

[IA/GJ/IND2/62687/2017, IA-J-11011/111/2017-IA-II(I)]

The Committee noted that PP was absent and no documents w.r.t. presentation and others as per agenda was forwarded to the Committee and accordingly Committee could not deliberate the proposal and therefore the proposal was **deferred** and may be placed after the request of PP.

Agenda No. 22.30

Expansion project for manufacturing of API and Intermediates at Plot No N-211/2/3 MIDC Tarapur, Palghar, Maharashtra by M/s Amarjyot Chemical Corporaton - consideration of Environment Clearance

[IA/MH/IND2/160124/2020, IA-J-11011/155/2020-IA-II(I)]

The Project Proponent and their accredited Consultant M/s Goldfinch Engineering Systems Private Limited, made a detailed presentation on the salient features of the project and informed that:

The proposal is for environmental clearance to the project for expansion project for manufacturing of API Intermediates at Plot No. N-211/2/3, MIDC Tarapur, Dist-Palghar, Maharashtra by M/s. Amarjyot Chemical corporation, Tarapur.

M/s. Amarjyot Chemical Corporation was incorporated in the year 1991 and The Company commenced its commercial production of Para Nitro Phenol in the year 1994. For the said activity EC was not applicable to the unit as the unit was established before the EIA notification 14th September 2006.

It is informed that the proposal is submitted as per the Ministry's Notification dated 27th March, 2020 considering the project is for manufacturing API, under category B2. As the project is located within 5 km for Critically Polluted Area, the proposal was submitted at the central level.

The Committee during deliberations noted that, as per the Ministry's notification dated 27th March, 2020; "All proposals for projects or activities in respect of **Active Pharmaceutical Ingredients (API)**, received up to the 30th September 2020, shall be appraised, as Category 'B2' projects, provided that any subsequent amendment or expansion or change in product mix, after the 30th September 2020, shall be considered as per the provisions in force at that time."

It was noted that the special lenience provided by the Ministry is to expedite the prior Environmental Clearances to the projects or activities, as a part of comprehensive and robust system to handle the Novel Corona Virus (COVID-19) outbreak, to ensure drug availability or production to reduce the impact of the Novel Corona Virus (COVID-19), the Ministry has categorized projects of 'Active Pharmaceutical Ingredients (API)' as Category 'B2'.

It was also observed that the consultant M/s Goldfinch Engineering Systems Private Limited has misguided the project proponent in this regard. The Committee also noted that the existing unit is in operation without obtaining environmental clearance and needs justification with proper documents. It was noted that the intermediate proposed to manufacture found utilization in many other applications other than APIs.

The Committee after detailed deliberations, desired that the project requires appraisal at the central level as Category B1. The project proponent shall submit the proposal for ToR, prepare EIA/EMP report for consideration for environmental clearance.

*The proposal was accordingly **RETURNED** in its present form.*

Agenda No. 22.31

Manufacturing of API Intermediates at Plot No E-69, MIDC Tarapur, Dist- Palghar, Maharashtra – by M/s Prolific Chemicals Pvt. Ltd.- consideration of Environment Clearance

[IA/MH/IND2/160296/2020, IA-J-11011/154/2020-IA-II(I)]

The Project Proponent and the accredited Consultant M/s Goldfinch Engineering Systems Private Limited, made a detailed presentation on the salient features of the project and informed that:

The proposal is for environmental clearance to the project of expansion project for manufacturing of API Intermediates at Plot No. E -69, MIDC Tarapur, Dist- Palghar, Maharashtra by M/s. Prolific Chemicals Pvt. Ltd.

Ministry had issued EC earlier vide letter no. SEAC-2012/CR-265/TC-2; dated 31st December 2015 to the existing project for manufacturing of API Intermediates in favour of M/s. Prolific Chemicals Pvt. Ltd.

It is informed that the proposal is submitted as per the Ministry's Notification dated 27th March, 2020 considering the project is for manufacturing API, under category B2. As the project is located within 5 km for Critically Polluted Area, the proposal was submitted at the central level.

The Committee during deliberations noted that, as per the Ministry's notification dated 27th March, 2020; "*All proposals for projects or activities in respect of **Active Pharmaceutical Ingredients (API)**, received up to the 30th September 2020, shall be appraised, as Category 'B2' projects, provided that any subsequent amendment or expansion or change in product mix, after the 30th September 2020, shall be considered as per the provisions in force at that time.*".

It was noted that the special lenience provided by the Ministry is to expedite the prior Environmental Clearances to the projects or activities, as a part of comprehensive and robust system to handle the Novel Corona Virus (COVID-19) outbreak, to ensure drug availability or production to reduce the impact of the Novel Corona Virus (COVID-19), the Ministry has categorized projects of 'Active Pharmaceutical Ingredients (API)' as Category 'B2'.

It was also observed that the consultant M/s Goldfinch Engineering Systems Private Limited has misguided the project proponent in this regard. It was noted that the intermediate proposed to manufacture found utilization in many other applications other than APIs.

The Committee after detailed deliberations, desired that the project requires appraisal at the central level as Category B1. The project proponent shall submit the proposal for ToR, prepare EIA/EMP report for consideration for environmental clearance.

*The proposal was accordingly **RETURNED** in its present form.*

Reconsideration of Environment Clearance.

Agenda No.22.32

Setting up pesticide manufacturing unit of capacity 757.2 TPA by M/s Synergia Sciences Pvt. Ltd at Plot No. 18, Survey No. 300, Village Indrad, Taluka Kadi, District Mehsana (Gujarat) - Consideration of Environment Clearance

[IA/GJ/IND2/105675/2019, IA-J-11011/197/2019-IA II (I)]

The project proponent and their consultant M/s. Bhagwati Enviro Care Pvt. Ltd made a detailed presentation on the salient features of the project through Video Conferencing (VC).

The proposal was earlier considered by the EAC in its meeting held on 13-15 April, 2020, wherein the EAC observed that the in the proposal it is proposed that fresh water will be met from ground water source. However, as per the CGWA this area is comes

under critical area and as per Hon'ble NGT order permission for ground water withdrawal will not be issued from CGWA. The EAC was therefore suggested to find out alternate source of fresh water and submit plan to achieve Zero Liquid Discharge and accordingly revise the EIA/EMP Report.

In response of the same the project proponent has informed that fresh water will be sourced from Gujarat Water Supply & Sewerage Board. The project proponent also confirmed that the plant will be based on Zero Liquid Discharge system. During initial phase of the project, high concentrated effluent after primary treatment will be sent for Common Spray Drying at Chhatral Enviro Management System Pvt. Ltd. till the effluent quantity reaches 15 m³/day which is located at about 1 km distance from project site. As the project gradually advances and effluent generation increases beyond 15 m³/day, unit will switch over to in-house MEE for effluent treatment and Zero Liquid Discharge.

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for Setting up pesticide manufacturing unit of capacity 757.2 TPA by M/s Synergia Sciences Pvt. Ltd in an area of 5,769.28 sqm., located at Plot No. 18, Survey No. 300, Village Indrad, Taluka Kadi, District Mehsana, Gujarat.

The details of products and capacity as under:

Prod. Code	Products	Capacity, Ton/Annum
A1	Transfluthrin &/OR	240.0
A2	Imiprothrin MUP &/OR	
A3	Meperfluthrin &/OR	
A4	Metofluthrin &/OR	
A5	Dimefluthrin &/OR	
A6	Permethrin Tech.	
B	Flumethrin MB	18.0
C1	Icaridin &/OR	300.0
C2	Amitraz	
D	S-Trans Cypermethric Acid (STCMA)	187.2
E	R&D and Pilot Plant	12.0
Total		757.2

The project/activity is covered under category A of item 5 (b) 'Pesticides industry and pesticide specific intermediates (excluding formulations)' of the schedule to the EIA Notification, 2006 and requires appraisal/approval at Central level in the Ministry. The Standard ToR has been issued by the Ministry vide letter dated 27th June, 2019.

Public Hearing for the expansion project has been conducted by the Gujarat State Pollution Control Board on 10th January, 2020 which was presided over by Smt. Ketki Vyas, as representative of District Magistrate.

The EAC, during deliberation, observed that the Public Hearing has been presided over by SDM rank officer. As per provisions of the EIA Notification, 2006, the Public Hearing shall be presided over by the District Magistrate / District Collector / Deputy Commissioner or his or her representative not below the rank of an Additional District Magistrate. In this instant proposal the PH was presided by the SDM, accordingly the EAC is of the view that at first instance the Ministry may confirm from SPCB/DM whether the rank of chairperson was as per the provisions of the EIA Notification, 2006 or not.

The EAC, after detailed deliberations, suggested the Ministry/Project proponent to obtain the clarification from the DM/SPCB that whether the public hearing presided over by the District Magistrate / District Collector / Deputy Commissioner or his or her representative not below the rank of an Additional District Magistrate or not. Accordingly, the EAC decided to **deferred** the proposal.

Agenda No. 22.33

Setting up of technical grade pesticides by M/s Popular Chemicals Manufacturers & Suppliers at plot no. 380, Village- Karagada, Tehsil- Belur, District- Hassan (Karnataka) - Consideration of Environmental Clearance [IA/KA/IND2/145725/2018, No. IA-J-11011/367/2018-IA-II(I)]

The project proponent and their accredited consultant M/s. Wolkem India Ltd. made a detailed presentation on the salient features of the project through Video Conferencing (VC).

The proposal was earlier considered by the EAC in its meeting held on 15-17 June, 2020, the additional information desired by the Committee and response submitted by the project proponent are as under:

S. No	Information desired by the EAC	Response from the PP
1	The Committee noted that the KML file shows the construction at the project site and the project proponent has informed that the said construction is for their formulation unit. However, the project proponent could not explain the details and even no documentary evidence provided during the meeting. In this context, the Committee at first instance is of the view that the PP to explain all	The project proponent has clarified that this project is not a violation case. Firstly, we have obtained the CTE from Karnataka State Pollution Control Board (KSPCB) for the establishment of the formulation unit dated 27.06.2018. Based on CTE, establishment activities has been taken up and construction started on 16.08.2018 to construct the boundary wall, security room, shade and utilities area for the formulation purpose

	the details w.r.t. violation, if any, etc.	
2	The project proponent need to submit clarification with proper proof to establish, past production details	The project proponent has submitted the proof of production.
3	Permission for fresh water withdrawal other than gram panchayat.	As per EAC recommendations, we have signed a water supply agreement with a licensed dealer, Mr.Yougesh.,S/oKallappa, WaterSuppliers (LicenseNo.CKM-TL-7119)No.11,NallurGate,Chikmanglur,Karnataka as a alternate water supply source.
4	Status of TSDF membership.	The project proponent has obtained the membership of TSDF.

During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project of setting up of technical grade pesticides unit of capacity 750 TPA by M/s Popular Chemicals Manufacturers & Supplies in an area of 8215.12 sqm at plot no. 380, Village- Karagada, Tehsil- Belur, District- Hassan (Karnataka)

The details of products and capacity as under:

S.No.	Name of the product	Total Capacity (TPA)
1.	Aluminium Phosphide	500
2.	Zinc Phosphide	250
Total		750 TPA

All Pesticides industry and pesticide specific intermediates (excluding formulations); are listed in S.N. 5(b) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' to be appraised at Central level in the Ministry.

The Standard ToR has been issued by the Ministry vide letter IA-J-11011/367/2018-IA-II(I); dated 18.12.2019. The public hearing was conducted by the Karnataka State Pollution Control Board on 18 Dec 2019. The public hearing was presided over by the Additional Deputy Commissioner. The main issues raised during the public hearing are regarding impact of the chemical factory on the existing agricultural land, air, water and soil, chances of getting health hazards like respiratory problems, through air pollution. No litigation is pending against the proposal.

Total land area for the proposed project is 8215.12 sqm. Green belt will be developed in an area of 2,712sqm i.e. 33.01% of the total plot area. The Estimated project cost is Rs.5crores. Total capital cost earmarked towards environmental pollution control measures is Rs.26.7Lacs and the recurring cost (operation & maintenance) will be

about Rs.1.60Lacs per Annum. Proposed project will generate employment for 80 persons as direct & indirect.

There are no National Parks, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km. Yagachi Reservoir is at a distance of 4.61 Km in South.

Ambient air quality monitoring was carried out at 8 locations during 1 December, 2018 to 28 February, 2019 and the baseline data indicates the ranges of concentrations as: PM10 (44.55 to 71.92µg/M³), PM2.5 (24.98 to 71.92 µg/M³), SO2 (6.33 to 15.09 µg/M³) and NO2 (13.77 to 23.17 µg/M³). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 66 µg/M³ 13 µg/ M³ and 23µg/M³ with respect to PM10, SO2 andNO2. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 19.13 cum/day will be met from private water supplier. Total wastewater generation will be 1.7 KLD (Industrial Effluent -1.2 KLD and Domestic Effluent 0.5 KLD) quantity will be treated in ETP. The plant will be based on Zero Liquid discharge system.

Power requirement will be 65 kVA to be met from Chamundeshwari Electricity Supply Company Limited (CESCOM). Proposed unit shall keep DG sets of 60 kVA and 25 kVA capacity which will be used as standby during power failure/ emergency. Stack (height 2m above the roof) will be provided as per CPCB norms to the proposed D.G. Set. Existing unit has Thermo Pack 0.6TPH Coffee husk briquette fired. Adequate stack height of 30 m is installing for controlling the Particulate emissions (within statutory limit of 150 mg/Nm³).

Details of Process emissions generation and its management.

S. No.	Area of concern	Source	Pollution Control Measures
1.	Air Pollution		
	PM 10, PM2.5, SO2 & NO2, , CO	Proposed Boiler and DG set	<ul style="list-style-type: none"> Adequate stack height of the proposed boiler and DG set shall be maintained. The Cyclone separator will be used to remove dust particles from stack gases. Low Sulfur fuels will be used to reduce SO2 Emissions. Regular monitoring of stack gases. Proper control of combustion air.

	Fugitive Emissions PM 10, PM2.5, SO2 & NO2, CO, H3PO4	Vehicular emission, Process Emission	<ul style="list-style-type: none"> • Fugitive emission control shall be done by close transfer avoiding spillage especially Aluminium powder and Zinc dust. • Good ventilation should be provided. • Double mechanical seals shall be used in pumps and agitator. • Efficiency of scrubber will be maintained. Inlet and outlet emission monitoring will be done.
2.	Noise Pollution		
	Due to Plant Facilities	Pumps/compressors /Plant Machinery	<ul style="list-style-type: none"> • Provision of silencers. • The foundations of rotating machinery will be made strong and study to avoid vibrations. The alignment and maintenance of the rotating machinery will be maintained up to date. • Sound-proofing the pump sand compressors. • Green belt development. Usage of modern technologies & machineries.
	Due to Power Back- up Facility	DG Sets	DG set will be in-built acoustic enclosures and adequate stack height will be maintained.
	Due to transportation of materials	Vehicles & Machinery	<ul style="list-style-type: none"> • Provision of PPE to workers. • Maintenance of machinery & vehicles. Designated Parking areas.
3.	Water Pollution		
	Plant Facilities	Boiler blow down, cooling water blow down. Laboratory waste water	Treatment in ETP and treated water will be used for gardening purpose.
	Domestic waste water	Canteen, toilets etc.	The domestic waste water will be sent to the soak pit.
4.	Solid Waste		

	Sludge from Biologically Effluent Treatment Plant	Primary and secondary stages of Biologically effluent treatment plant	• Dried sludge will be send to TSDF, Karnataka
	Ash from Boiler	Boiler	Sell to brick manufacturer.
	Dust in plant area and stores	Plant area and stores	Shall be send to TSDF, Karnataka

Details of Solid waste/ Hazardous waste generation and its management

S. No	Hazardous Waste	Category	Quantity	Disposal methods
1.	Used Oil	5.1	50 Lit/Month	Collection, Storage, Transportation & Disposal by selling to Registered Re-processors / reuse as lubricant
2	ETP Sludge	34.3	0.6MT/Month	Collection, Storage, Transportation & send to TSDF, Karnataka
3	Discarded Barrels contaminated with hazardous wastes/chemicals	33.3	10 Nos./Day	Collection, Storage, Decontamination & Detoxification, sale to Authorized agencies
4.	Process waste	20.3	11.25 MT/Annum	Collection, Storage, Transportation and send to TSDF, Karnataka
5.	Coffee husk briquettes Ash	36.2	38 MT/Annum	Collection, Storage, Transportation, Sale to brick manufacturer.

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario

for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance. The EAC found the additional information submitted by the project proponent to be satisfactory.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iii) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (iv) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (v) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.

- (vi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (vii) Total fresh water requirement shall not exceed 19.13 cum/day, proposed to be met from private water supplier. Necessary permission obtained in this regard shall be renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.
- (viii) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (ix) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (x) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xi) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiii) As proposed green belt of at least 10-20 m width shall be developed mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. As committed by the project proponent, the greenbelt area shall be developed and maintained in an area of 40% out of the total project area.

- (xiv) As proposed 2% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.
- (xv) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Amendment in Environment Clearance

Agenda No. 22.34

Bulk Drug and Intermediates manufacturing unit of capacity 200 TPM at Survey No. 29, Village - Tupakulagudem, Mandal - Tallapudi, District - West Godavari (Andhra Pradesh) by M/s Tagoor Laboratories Pvt Ltd - Amendment in Environment Clearance

[IA/AP/IND2/163937/2020, IA-J-11011/416/2018-IA.II(I)]

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide letter F. No. IA-J-11011/416/2018-IA.II (I) dated: 07th January, 2020 for the project of Bulk Drugs and Drug Intermediates manufacturing unit of capacity 200 TPM located at Sy. No. 29, Tupakulagudem Village, Tallapudi Mandal, West Godavari District, Andhra Pradesh State in favour of M/s. Tagoor Laboratories Pvt. Ltd.

The project proponent has requested for amendment in the granted EC for the following points and the details are as under;

S. No.	Para of EC issued by MoEF&CC	Details as per the EC	To be revised/ read as	Justification/ Reasons
1.	Mentioned in S. No. 6 of EC	No coal shall be used as fuel in the boiler.	Proposed to use coal instead of organic fuel briquettes during monsoon season.	During monsoon season the availability of Fuel briquettes is not sufficient to run the boilers.
2.	Mentioned in S. No. 10 under Specific conditions:- (i) of EC	Surface water quantity of 525.26 Cum/Day, which is proposed to be met from Godavari Riverrc.	Proposed to use Ground water until the laying of pipeline work is completed for Surface water from Godavari basin to Plant.	The laying of water pipeline from Godavari basin to Plant not yet completed and it may take a couple of months.

The EAC during deliberations noted that the submission of the project proponent is rationale and is justified with the information provided. The Committee after detailed deliberations **RECOMMENDED** for amendments in the EC as proposed by the project proponent. All other terms and conditions shall remain unchanged.

Agenda No.22.35

PROPOSED EXPANSION OF PESTICIDE INTERMEDIATES & TECHNICALS WITHIN EXISTING PREMISES Plot No. 2901 to 2906, GIDC Panoli, Dist. Bharuch 394116, Gujarat by M/s GUJARAT AGROCHEM LIMITED - Amendment in Environment Clearance

[IA/GJ/IND2/156100/2020, IA-J-11011/82/2017-IA-II(I)]

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide Letter No. J-11011/82/2017-IA II (I) dated: 13/04/2018 & File No. J-11011/82/2016-IA II (I) – E- file dated: 26th April, 2020 for proposed expansion of Pesticide Technical & Intermediates manufacturing plant in Existing Unit at Plot No. 2901 to 2906, GIDC Estate Panoli, Dist: Bharuch, Gujarat of M/s. Tagros Chemicals India Pvt. Ltd.

The project proponent want to merge the adjoining plot of M/s. Micro Chemtech Pvt. Ltd., Plot no. 2806, GIDC Estate Panoli, Dist: Bharuch (EC Letter No. F.No. J-11011/175/2009-IA-II (I) dated June 10, 2009) with M/s. Tagros Chemicals India Pvt. Ltd. to Existing manufacturing unit at Plot No. 2901 to 2906, GIDC Estate Panoli, Dist: Bharuch, Gujarat. – Environmental Clearance reg. to M/s. Tagros Chemicals India Pvt. Ltd.

The project proponent has requested for amendment in the EC with the details are as under;

S. No.	Point of EC issued by MoEF&CC	Details as per the EC	To be revised	Justification/Reasons
1	Subject	Expansion of Pesticide Technical & Intermediates manufacturing unit by M/s. Gujarat Agrochem Pvt Ltd at Plot No. 2901 to 2906, GIDC Panoli, District Bharuch (Gujarat) - Environmental	Expansion of Pesticide Technical & Intermediates & Synthetic Organic Chemical manufacturing unit by M/s Tagros Chemicals India Pvt. Ltd at Plot No. 2901 to 2906 & 2806, GIDC	M/s Tagros Chemicals India Pvt. Ltd has bought over from original promoters, Plot No. 2806, GIDC Estate Panoli, Dist: Bharuch, Gujarat to Micro Chemtech Pvt. Ltd which is adjoining to Existing Manufacturing Unit having Plot No

		Clearance - reg.	Estate Panoli, Dist: Bharuch, Gujarat. - Environmental Clearance - reg.	2901 to 2906, GIDC Estate Panoli, Dist: Bharuch, Gujarat. So, Company want to merge adjoining Plot No. 2806 with Existing Manufacturing Unit Plot No. 2901 to 2906, GIDC Estate Panoli Dist: Bharuch, Gujarat of M/s. Tagros Chemicals India Pvt. Ltd.
2	Condition No. 2 (Page 1 of 7)	The Ministry of Environment, Forest and Climate Change has examined the proposal for grant of environmental clearance to the project for expansion of Pesticide Technical & Intermediates manufacturing unit from 110 TPM to 1195 TPM by M/s Gujarat Agrochem Pvt Ltd in a total area of 30,000 sqm at Plot No.2901 to 2906, GIDC Panoli, District Bharuch (Gujarat). The expansion of other products included inorganic compounds namely, Sodium Sulfite, Ammonium Chloride, Potassium Chloride and Poly Aluminium Chloride from the present capacity of 609	The Ministry of Environment, Forest and Climate Change has examined the proposal for grant of environmental clearance to the project for expansion of Pesticide Technical & Intermediates manufacturing unit from 110 TPM to 1195 TPM & Synthetic Organic Chemicals @ 1000 TPM by M/s Tagros Chemicals India Pvt. Ltd. in a total area of 30,000 sqm + 10,000 sqm i.e. 40,000 sqm at Plot No.2901 to 2906 & 2806, GIDC Panoli, District Bharuch (Gujarat). The expansion of other products included inorganic compounds namely, Sodium Sulfite,	As both the plots will be merged total land area will be 40000 sqm. Existing Plot Area (Plot No. 2901 to 2906) = 30000 m ² Additional Plot Area (Plot No. 2806) = 10000 m ² Total Plot Area = 40000 m ² By-Products Expansion: (Plot No. 2901 to 2906) 920.76 TPM to 1823.63 TPM By-Products: (Plot No. 2806) 496.1 TPM So Total By-Products Expansion: (Plot No. 2901 to 2906 & 2806) 1416.86 TPM to 2319.73 TPM

		TPM to 1875 TPM and by-products namely, HCl, Spent Sulphuric Acid, NaCl solution, Cu(OH) ₂ powder from 920.76 TPM to 1823.63 TPM, requiring no environmental clearance.	Ammonium Chloride, Potassium Chloride and Poly Aluminium Chloride from the present capacity of 609 TPM to 1875 TPM and by-products namely, HCl, Spent Sulphuric Acid, NaCl solution, Cu(OH) ₂ powder from 1416.86 TPM to 2319.73 TPM, requiring no environmental clearance.	
3.	Condition No. 3 (Page 1 of 7)	The details of products presently manufactured and after the proposed expansion, are as under: Product List is Given below as Annexure - A	The details of products presently manufactured and after the proposed expansion, are as under: Product List is Given below as Annexure - B	Due to Merger of both EC's the product list is revised.

Annexure – A Product List (As per EC of Plot No. 2901 to 2906)

SR. NO.	PRODUCT NAME	EXISTING CAPACITY (MT/MONTH)	TOTAL PROPOSED CAPACITY (MT/MONTH)	CAS Nos.	LD ₅₀ (mg/kg)
PESTICIDES INTERMEDIATES & TECHNICAL					
1	DV Acid Chloride	110	250	52314-67-7	N.A.
2	Meta Phenoxy Benzaldehyde		250	39515-51-0	1222
3	Cypermethrin (Tech.)		200	52315-07-8	250
4	Permethrin (Tech.)		100	52645-53-1	430 TO 4000
5	Alphamethrin (Tech.)		50	67375-30-8	>50
6	Metamitron (Tech.)		150	41394-05-2	>4000
7	MBB Forcut		45		>5000
8	Ethofumesate			26225-	>8743

	(Tech.)			79-6	
9	Hydroxy Benzo Furan (HBF)		100	7473-98-5	N.A.
10	Lambda Cyhalothrin (Lambamethrin)	--		91465-08-6	15
11	Diethyl Phenyl Acetamide (Tech.) (DEPA)	--		2431-96-1	4300
12	Pyriproxypane	--	50	95737-68-1	>5000
13	Tefluthrin	--		79538-32-2	21.8
14	Transfluthrin	--		118712-89-3	>5000
		110	1195		

INORGANIC PRODUCTS (NOT COVERED UNDER EIA NOTIFICATION, 2006)

15	Sodium Sulfite	200	487	7757-83-7	820
16	Ammonium Chloride	60	217	12125-02-9	1300
17	Potassium Chloride	60	140	7447-40-7	3020
18	PAC/Aluminium Chloride (30%)	289	1031	1327-41-9	2000
	TOTAL	609	1875		

BY PRODUCTS:

1	Hydrochloric Acid (30%)	180	202	7647-01-0	238-277
2	Spent Sulphuric Acid	140.76	528	7664-93-9	2140
3	NaCl Solution (18%)	600	1091	7647-14-5	3000
4	Cu (OH) ₂ Powder	-	2.63	20427-59-2	200
	TOTAL	920.76	1,823.63		

Annexure – B Revised Product List (After Merger of Plot No. 2806)

SR . N O.	PRODUCT NAME	CATEGORY AS PER EIA NOTIFICATION	EXISTING CAPACITY (MT/MONTH)	TOTAL PROPOSED CAPACITY (MT/MONTH)	CAS Nos.	LD ₅₀ (mg/kg)
PESTICIDES INTERMEDIATES & TECHNICAL						
1	DV Acid Chloride	5(b)	110	250	52314-67-7	N.A.
2	Meta Phenoxy	5(b)		250	39515-51-0	1222

	Benzaldehyde					
3	Cypermethrin (Tech.)	5(b)		200	52315-07-8	250
4	Permethrin (Tech.)	5(b)		100	52645-53-1	430 to 4000
5	Alphamethrin (Tech.)	5(b)		50	67375-30-8	>50
6	Metamitron (Tech.)	5(b)		150	41394-05-2	>4000
7	MBB Forcut	5(b)		45		>5000
8	Ethofumesate (Tech.)	5(b)			26225-79-6	>8743
9	Hydroxy Benzo Furan (HBF)	5(b)		100	7473-98-5	N.A.
10	Lambda Cyhalothrin (Lambamethrin)	5(b)	--		91465-08-6	15
11	Diethyl Phenyl Acetamide (Tech.) (DEPA)	5(b)	--		2431-96-1	4300
12	Pyriproxypane	5(b)	--	50	95737-68-1	>5000
13	Tefluthrin	5(b)	--		79538-32-2	21.8
14	Transfluthrin	5(b)	--		118712-89-3	>5000
	TOTAL		110	1195		
SYNTHETIC ORGANIC CHEMICALS						
15	Benzyl Chloride	5(f)	500	500	100-44-7	1231
16	Benzaldehyde	5(f)	250	250	100-52-7	1300
17	Benzal Chloride	5(f)	50	50	98-87-3	3249
18	Benzotrichloride	5(f)	100	100	98-07-7	-
19	Benzyl Alcohol	5(f)	100	100	100-51-6	1230
			1000	1000		
INORGANIC PRODUCTS (NOT COVERED UNDER EIA NOTIFICATION, 2006)						
21	Sodium	-	200	487	7757-	820

	Sulfite				83-7	
22	Ammonium Chloride	-	60	217	12125-02-9	1300
23	Potassium Chloride	-	60	140	7447-40-7	3020
24	PAC/Aluminium Chloride (30%)	-	289	1031	1327-41-9	2000
	TOTAL		609	1875		
BY-PRODUCTS						
1	Hydrochloric Acid (30%)	-	180+167=347	202+167=369	7647-01-0	238-277
2	Spent Sulphuric Acid	-	140.76	528	7664-93-9	2140
3	NaCl Solution (18%)	-	600+329.1=929.1	1091+329.1=1420.1	7647-14-5	3000
4	Cu (OH) ₂ Powder	-	-	2.63	20427-59-2	200
	TOTAL		1416.86	2319.73		
1	D.G. Sets	-	1,000 KVA x 1, 625 KVA x 1, 320 KVA x 1 100 KVA x 1 = 2,045 KVA	1,010 KVA x 3, 725 KVA x 3, 625 KVA x 1 100 KVA x 1 = 5,930 KVA	-	-

4.	Condition No. 4 (Page 2 of 7)	Total land area is 30,000 sqm and no additional land will be required for the proposed project. Greenbelt has been developed in an area of 9281.18 sqm. The estimated project cost is Rs.61.8 crores including existing investment of Rs.45.68 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.15.07 crores and the Recurring cost	Total land area is 40000 sqm i.e. 30000 sqm area of Plot No 2901 to 2906 & 10000 sqm area of Plot No 2806 sqm Greenbelt will be developed in an area of 12581.18 sqm (9281.18 sqm of Plot No 2901 to 2906 + 3300 sqm: Plot No 2806), covering 31.45% of the total project area. The estimated project cost is Rs. 61.8 Crores + Rs. 90 Crores (Additional cost of	As both the plots will be merged total land area as well as greenbelt area will also get increased: Existing Plot Area (Plot No. 2901 to 2906) = 30000 m ² Additional Plot Area (Plot No. 2806) = 10000 m ² Total Plot Area = 40000 m ² Existing Greenbelt Area (Plot No. 2901 to 2906) = 9281.18 m ²
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		(operation & maintenance) will be about Rs.9.3 crores per annum.	new plot & project i.e. 2806) = Rs. 151.8 Crores including existing investment of Rs. 61.8 Crore. Total capital cost earmarked towards environmental pollution control measures is Rs.15.07 + 10 crores Additional cost of new plot i.e. 2806) = Rs. 25.07 Crores and the recurring cost (O&M) will be about Rs.9.3 + 4.2 crore per annum (Additional cost of new plot i.e. 2806) = Rs. 13.5 Crores per annum.	Additional Greenbelt (Plot No. 2806) = 3300 m ² Total Green Belt = 12581.18 m ² (31.45% of Total Plot Area) Total project is also increased due to addition of new plot i.e. 2806: Cost of Existing Project = Rs. 61.8 Crore Cost of Additional Land & Project (i.e. Plot No. 2806 = Rs. 90 Crores) Total Project Cost = Rs. 151.8 Crores Same way Capital Cost earmarked towards environmental pollution control measures is increased from Rs. 15.07 Crores to Rs. 25.07 Crores & Recurring Cost (O&M) per annum will be increased from Rs. 9.3 Crores to Rs. 13.5 Crores.
5.	Condition No. 6 (Page 2 of 7)	Total water requirement is estimated to be 764.56 cum/day, which includes fresh water demand of 532.56 cum/day. The same would be reduced to 480 cum/day by increasing the efficiency of the cooling tower, and proposed to be met from the GIDC water supply. Necessary	Total water requirement is estimated to be 811.56 cum/day, which includes fresh water demand of 527 cum/day (i.e. 480 cum/day of Plot No. 2901 to 2906 + 47 cum/day of Pot No. 2806). The same would be met from the GIDC water	Due to Merger of both EC's the data related to Water, Power, DG Sets, Flue Gas & Process Gas Emissions changes

		<p>permission in this regard has been obtained from GIDC.</p> <p>Total effluent of 431.88 cum/day will be treated through ETP followed by RO and MEE. Treated effluent of 148.98 cum/day shall be taken to the final effluent treatment plant (FETP) of M/s Narmada Clean Technology, and then discharged to deep sea through GIDC pipeline. The RO permeate of 232 cum/day will be reused for meeting the process requirements (boiler and other utilities) and 50.9 KL/Day of RO reject will be sent to MEE & ATFD.</p> <p>Power requirement will be increased from 2300 to 5000 kVA proposed to be met from DGVCL/State power Distribution Corporation Limited. Existing unit has 3 Nos. DG sets of 1000 kVA, 625 kVA & 320 kVA capacity, additionally DG Sets of Capacity 1010 KVA (3 Nos), 725 kVA (3 Nos) & 625 kVA (1 No). Stack (height 10 m) will be provided as per CPCB norms to the proposed DG sets. DG sets of 1000 kVA, 625</p>	<p>supply. Necessary permission in this regard has been obtained from GIDC.</p> <p>Total effluent of 439.88 cum/day (431.88 cum/day of Plot No. 2901 to 2906 + 8 cum/day of Pot No. 2806) will be treated through ETP followed by RO and MEE. Treated effluent of 148.98 cum/day shall be taken to the final effluent treatment plant (FETP) of M/s Narmada Clean Technology, and then discharged to deep sea through GIDC pipeline. The RO permeate of 239.5 cum/day will be reused for meeting the process requirements (boiler and other utilities) and 51.4 KL/Day of RO reject will be sent to MEE & ATFD.</p> <p>Power requirement will be increased from 2300 to 5100 kVA (5000 KVA of Plot No. 2901 to 2906 + 100 KVA of Pot No. 2806) proposed to be met from DGVCL/State power Distribution Corporation Limited. Existing unit has 3 Nos. DG sets of 1000 kVA, 625 kVA & 320 kVA capacity,</p>	
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		<p>kVA & 320 will be used as standby during power failure. Existing 1000 kVA & 320 kVA will be replaced by new DG Sets of 1010 kVA (3 Nos), & 725 kVA (3 Nos).</p> <p>Existing unit has two boilers of 8 TPH capacity each. Additionally, two coal fired boiler of 10 TPH capacity each and one boiler of 16 TPH capacity will be installed. Two thermo pack of 10 million kcal/hr capacity each and one thermo pack of 10 million kcal/hr (standby) capacity will be installed. Multi cyclone separator/ bag filter/ESP with a stack of height of 30 m will be installed to control the particulate emissions (within statutory limit of 115 mg/Nm³). Water scrubber and caustic scrubber will be provided to process plant-1 & plant-2 reactors. Water scrubber and caustic scrubber will be provided to the bromine recovery plant</p>	<p>Additionally DG Sets of Capacity 1010 KVA (3 Nos), 725 kVA (3 Nos) & 625 kVA (1 No), 100 KVA (1 No.) Stack (height 10 m) will be provided as per CPCB norms to the proposed DG sets. DG sets of 1000 kVA, 625 kVA & 320 will be used as standby during power failure. Existing 1000 kVA & 320 kVA will be replaced by new DG Sets of 1010 kVA (3 Nos), & 725 kVA (3 Nos).</p> <p>Existing unit has two boilers of 8 TPH capacity each. Additionally, two coal fired boiler of 10 TPH capacity each and one boiler of 20 TPH capacity will be installed. Two thermo pack of 10 million kcal/hr capacity each and one thermo pack of 10 million kcal/hr (standby) capacity will be installed. One No. Non IBR Baby Boiler Multi cyclone separator/ bag filter/ESP with a stack of height of 30 m will be installed to control the particulate emissions (within statutory limit of 115 mg/Nm³). Water scrubber and caustic scrubber will be provided to process</p>	
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			plant-1 & plant-2 reactors. Water scrubber and caustic scrubber will be provided to the bromine recovery plant. One Process Vent with Caustic Scrubber is also installed.	
	Condition No. 7 (Page 3 of 7)	Used Lube Oil (50 Ltr/M) will be sold to GPCB authorized reprocessors. Spent Solvents (Toluene) will be reused within the premises or co-processing in cement industries or incineration at CHWIF. Process Distillation Residue (71 MT/M) & Residual Waste (150 MT/M) will be sent to CHWIF or sent to Cement Industries for Co-processing. MEE Salt (1200 MT/M) will be sent to TSDF. Empty Bags, Barrels will be sold to GPCB authorized Reprocessors. ETP Sludge will be sent to TSDF. Spent Carbon from ETP will be sent to TSDF or sent to Cement Industries for Co-processing. Aluminum Chloride (30%), Hydrochloric Acid (30%), Spent Sulphuric Acid, NaCl Solution (18%) & Cu (OH) ₂ powder will be sold to end user.	Used Lube Oil (75 Ltr/M i.e. 50 Ltr/M + 25 Ltr/M) will be sold to GPCB authorized reprocessors. Spent Solvents (Toluene) @ 200 MT/M will be reused within the premises or co-processing in cement industries or incineration at CHWIF. Process Distillation Residue (79 MT/M i.e. 71 MT/M + 8 MT/M) & Residual Waste (150 MT/M) will be sent to CHWIF or sent to Cement Industries for Co-processing. MEE Salt (1200 MT/M) will be sent to TSDF. Empty Bags (1100 Nos/M), Barrels (1550 Nos/M i.e. 1350 Nos/M + 200 Nos/M) will be sold to GPCB authorized Reprocessors. ETP Sludge (10 MT/M) will be sent to TSDF. Spent Carbon (0.4 MT/M) from ETP will be sent to TSDF or sent to Cement Industries for Co-processing. Aluminum Chloride (30%) (1031	Due to Merger of both EC's the data related to hazardous waste changes

			MT/M), Hydrochloric Acid (30%) (369 MT/M i.e. 202 MT/M + 167 MT/M), Spent Sulphuric Acid (528 MT/M), NaCl Solution (18%) (1420.1 MT/M i.e. 1091 MT/M + 329.1 MT/M) & Cu (OH) ₂ powder (2.63 MT/M) will be sold to end user.	
	Condition No. 8 (Page 3 of 7)	The project/activities are covered under category A of item 5(b) 'Pesticides industry and pesticide specific intermediates (excluding formulation)' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral EAC in the Ministry.	The project/activities are covered under category A of item 5(b) 'Pesticides industry and pesticide specific intermediates (excluding formulation)' & 5(f) Synthetic Organic Chemicals of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral EAC in the Ministry.	Due to Merger of both EC's the proposed plant will be of Pesticide Technical & Intermediates & Synthetic Organic Chemicals manufacturing unit.
	Condition No. 11 (Page 3 of 7)	Based on the proposal submitted by the project proponent and recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to project 'Expansion of Pesticide Technical & Intermediates manufacturing unit' from 110 TPM to 1195 TPM by M/s Gujarat Agrochem Pvt Ltd in a total area of 30,000	Based on the proposal submitted by the project proponent and recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to project 'for expansion of Pesticide Technical & Intermediates manufacturing unit' from 110 TPM to 1195 TPM & Synthetic Organic Chemicals @ 1000 TPM by M/s	Due to Merger of both EC's the proposed plant will be of Pesticide Technical & Intermediates & Synthetic Organic Chemicals manufacturing unit.

		sqm at Plot No.2901 to 2906, GIDC Panoli, District Bharuch (Gujarat), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under	Tagros Chemicals India Pvt. Ltd. in a total area of 30,000 sqm + 10,000 sqm i.e. 40,000 sqm at Plot No.2901 to 2906 & 2806, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under	
	Condition No. 11 sub point (a) (Page 3 of 7)	Total Production of Pesticides shall include manufacturing at least 10% bio pesticides	Additional 10% Bio Pesticides shall be manufactured along with Total production of Pesticide Technical & Intermediates. Refer Annexure - C for Revised Product List	Pesticide Technical & Intermediates Production i.e. Existing - 110 MTPM Total Proposed - 1195 MTPM + 10% Bio Pesticides - 120 MTPM So Total Proposed after addition of Bio Pesticides = 1315 MTPM
	Condition No. 11 sub point (h) (Page 4 of 7)	Total fresh water requirement shall not exceed 480 cum/day to be met from GIDC supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.	Total fresh water requirement shall not exceed 527 cum/day (480 cum/day + 47 cum/day) to be met from GIDC supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.	Due to Merger of both EC's the fresh water requirement changes.

ANNEXURE – C

REVISED LIST OF PRODUCTS ALONG WITH PRODUCTION CAPACITY

S. NO	PRODUCT NAME	CATEGORY AS PER EIA NOTIFICATION	EXISTING CAPACITY (MT/MONTH)	TOTAL PROPOSED CAPACITY (MT/MONTH)	CAS Nos.	LD ₅₀ (mg/kg)
PESTICIDES INTERMEDIATES & TECHNICAL						
1	DV Acid	5(b)	110	250	52314-	N.A.

	Chloride				67-7	
2	Meta Phenoxy Benzaldehyde	5(b)		250	39515-51-0	1222
3	Cypermethrin (Tech.)	5(b)		200	52315-07-8	250
4	Permethrin (Tech.)	5(b)		100	52645-53-1	430 to 4000
5	Alphamethrin (Tech.)	5(b)		50	67375-30-8	>50
6	Metamitron (Tech.)	5(b)		150	41394-05-2	>4000
7	MBB Forcut	5(b)		45		>5000
8	Ethofumesate (Tech.)	5(b)			26225-79-6	>8743
9	Hydroxy Benzo Furan (HBF)	5(b)		100	7473-98-5	N.A.
10	Lambda Cyhalothrin (Lambamethrin)	5(b)	--		91465-08-6	15
11	Diethyl Phenyl Acetamide (Tech.) (DEPA)	5(b)	--		2431-96-1	4300
12	Pyriproxypane	5(b)	--	50	95737-68-1	>5000
13	Tefluthrin	5(b)	--		79538-32-2	21.8
14	Transfluthrin	5(b)	--		118712-89-3	>5000
15	Bio Pesticides	5(b)	--	120	-	-
	TOTAL		110	1315		
SYNTHETIC ORGANIC CHEMICALS						
16	Benzyl Chloride	5(f)	500	500	100-44-7	1231
17	Benzaldehyde	5(f)	250	250	100-52-7	1300
18	Benzal Chloride	5(f)	50	50	98-87-3	3249
19	Benzotrichloride	5(f)	100	100	98-07-7	-
20	Benzyl Alcohol	5(f)	100	100	100-51-6	1230
			1000	1000		
INORGANIC PRODUCTS (NOT COVERED UNDER EIA NOTIFICATION, 2006)						
21	Sodium Sulfite	-	200	487	7757-83-7	820
22	Ammonium	-	60	217	12125-	1300

	Chloride				02-9	
23	Potassium Chloride	-	60	140	7447-40-7	3020
24	PAC/Aluminium Chloride (30%)	-	289	1031	1327-41-9	2000
	TOTAL		609	1875		
BY-PRODUCTS						
1	Hydrochloric Acid (30%)	-	180+167=347	202+167=369	7647-01-0	238-277
2	Spent Sulphuric Acid	-	140.76	528	7664-93-9	2140
3	NaCl Solution (18%)	-	600+329.1=929.1	1091+329.1=1420.1	7647-14-5	3000
4	Cu (OH) ₂ Powder	-	-	2.63	20427-59-2	200
	TOTAL		1416.86	2319.73		
1	D.G. Sets	-	1,000 KVA x 1, 625 KVA x 1, 320 KVA x 1 100 KVA x 1 = 2,045 KVA	1,010 KVA x 3, 725 KVA x 3, 625 KVA x 1 100 KVA x 1 = 5,930 KVA	-	-

The EAC during deliberation noted that the M/s Tagros Chemicals India Pvt. Ltd want to merge the adjoining plot of M/s Gujarat Agrochem Limited. The EAC further, observed that due to the proposed merger, the configuration of the project for which ECs were granted will be changed and EAC suggested that the project proponent to submit proposal as per the provisions contained in para 7(ii) of the EIA Notification, 2006. Accordingly, the EAC decided to **return** the proposal in present form.

The EAC also advised that the Consultant should read the various provisions of the EIA Notification, 2006 and accordingly apply under the provision.

Agenda No. 22.36

Expansion of Active Pharmaceutical Ingredients & Intermediates and other Chemicals Manufacturing Unit by M/s Delta Finochem Pvt Ltd at Plot Nos.350/1, 350/2, 350/3, village Wadivarhe, Taluka Igapuri, District Nashik (Maharashtra) - Amendment in Environment Clearance

[IA/MH/IND2/136852/2020, J-11011/152/2011-IA-II(I)]

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide letter no J-11011/152/2011-IA-II(I) dated 09-05-2019 for the project Expansion of Active Pharmaceutical Ingredients & Intermediates and other Chemicals

Manufacturing Unit located at Plot No. 350/1, 350/2, 350/3, Village - Wadivarhe, Taluka - Igatpuri, District – Nashik., Maharashtra. in favour of M/s Delta Finochem Pvt Ltd.

The project proponent has requested for amendment in the ToR/EC with the details are as under;

S. No	Para of EC issued by MoEF&CC	Details as per the EC	To be revised/ read as	Justification/ reasons
1	Point no 6, Para no 4	Existing unit has 1.1 TPH FO fired Boiler, Additionally, 3.5 TPH FO fired boiler will be installed. Multi-cyclone separator/bag filter with a stack height of 30m will be installed to control particulate emission within the statutory limits	Existing 1.1 TPH FO fired boiler will be scrapped off and proposed 3.5 TPH F.O fired boiler will be replaced by new 4.0 TPH Briquette fired boiler. Multi-cyclone separator/bag filter with a stack height of 30m will be installed to control particulate emission within the statutory limits	To comply with the terms and condition no 10 (vi) mentioned in the obtained EC letter stating " <i>Furnace oil shall not be used as fuel in the boiler. LSHS/LDO/HSD/briquette/natural gas shall be used as fuel</i> ".
2	Point no 10 (xxii)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server.	Point to be removed from EC letter.	As per MoEF&CC notification vide no GSR 96(E) dated 29-01-2018, installation of Continuous Emission Monitoring System is not applicable for boilers fired on Agro based fuels. Since the fuel for boiler has been changed from Furnace Oil to Briquette (Agro based fuels), the condition renders not applicable.

The EAC during deliberations noted that the changes in boiler capacity has been proposed by the project proponent in view of EACs earlier observations and EC granted accordingly. The Committee has accordingly **RECOMMENDED** for amendment in Para No. 6, sub Para no 4, as under:

The existing 1.1 TPH FO fired boiler will be scrapped off and the proposed 3.5 TPH F.O fired boiler will be replaced by new 4.0 TPH Briquette fired boiler. Multi-cyclone separator/bag filter with a stack height of 30m will be installed to control particulate emission within the statutory limits.

Further, it was observed that no amendment is required for Point no 10 (xxii). The project proponent shall make Continuous online (24x7) monitoring system for stack emissions, as applicable, as per the Ministry's notification and CPCBs guidelines.

Agenda No. 22.37

Expansion of Pesticide unit located at Survey No.191, 213-217 and 220, Cheruvukommupalem Village, Ongole Mandal, Prakasam District Andhra Pradesh, by M/s Bhagirdha Chemicals & Industries Limited - Amendment in Environment Clearance

[IA/AP/IND2/164305/2020, J-11011/429/2008-IA.II(I)]

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide letter no. J F.No. J-11011/429/2008-IA II (I) dated 21.10.2008 for the expansion of agro chemicals manufacturing of capacity 3250 TPA in site area of 35.76 acres located at Sy. no's 191, 213-217 and 220, Cheruvukommupalem village, Ongole mandal, Prakasam district, Andhra Pradesh.

The project proponent has requested for amendment in the Environmental Clearance as under. There is no change in production capacity, site location or site area.

S. No	Description	Unit	As per EC dt.21.10.2008	Amendment Sought	Total after amendment
1	Water Consumption				
	Fresh Water	KLD	317	306.2	306.2
	Reuse of treated Water				
	Utility Make-up	KLD	---	125	125
	Greenbelt development	KLD	156	21	21
2	Effluent Generation				
	Process	KLD	82.72	---	82.72
	Utility Blow Downs	KLD	59.95	44	44
	Condensate from Steam Jet Ejectors	KLD	25.2	---	25.2
	Domestic Wastewater	KLD	21	--	21
3	Change in Boiler Profile				
	No. of Boiler	No.s	3	2	2
	Total Capacity	TPH	1 x 12 1 x 5 (standby) 1 x 3	1 x 16 1 x 8 (standby)	1 x 16 1 x 8 (standby)

		(standby)		
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The EAC noted that the amendment sought is due to change in boiler profile for implementation of zero liquid discharge facility. It requires additional steam and cooling tower, resulting in additional water consumption, while ensuring the entire effluent quantity is reused in cooling tower makeup, resulting in reduction in water and wastewater generation.

*The Committee after detailed deliberations **RECOMMENDED** for amendment in EC as proposed by the project proponent. All other terms and conditions shall remain unchanged.*

Amendment in ToR

Agenda No. 22.38

Expansion of molasses based distillery from 30 KLPD to multi feed (Cane juice, B heavy molasses & C molasses) 110 KLPD distillery unit At Mahesh Nagar , A/p. Ujana, Tal. Ahmedpur, Maharashtra by M/s SIDDHI SUGAR AND ALLIED INDUSTRIES LTD- Amendment in Terms of Reference.

[IA/MH/IND2/150776/2020, J-11011/125/2014-IA.II(I)]

The proposal is for amendment in the Standard ToR issued by the Ministry to the project for Expansion of molasses-based distillery from 30 KLPD to multi feed (Cane juice, B heavy molasses & C molasses) 110 KLPD distillery unit At Mahesh Nagar, A/p. Ujana, Tal. Ahmedpur, Maharashtra by M/s Siddhi Sugar and Allied Industries Ltd.

The Committee during deliberations noted that the proposal is for production of Ethanol and as per the extant rules of the Ministry to support EBP programme, the project proponent can submit proposal for environmental clearance without any amendment in the ToR.

*The proposal was accordingly **RETURNED** in present form.*

Agenda No.22.39

Synthetic Organic Chemical manufacturing unit at Sameerwadi Post, Mudhol taluk, Bagalkot District, Karnataka by M/s Godavari Biorefineries Ltd - Amendment in Terms of Reference

[IA/KA/IND2/70081/2017, IA-J-11011/503/2017-IA-II(I)]

The proposal is for amendment to the Terms of Reference granted by the Ministry vide letter dated 17 June 2018 for the expansion project of synthetic organic chemicals manufacturing unit and a co-generation power plant in existing integrated sugar, co generation and distillery complex in favor of M/s. Godavari Biorefineries Limited, Sameerwadi, Mudhol Taluk, Bagalkot district of Karnataka.

The project proponent has requested for amendment in the ToR/EC with the details are as under;

Para of ToR issued by MoEF&CC	Details as per the ToR	To be revised/ read as	Justification/reasons provided by the PP
ToR is issued for the Plant location indicated in the next column.	Application for Prior Environmental Clearance was made indicating the location with following survey nos.;	The survey nos. of the location be revised as;	PP reported that there was error in mentioning the Survey numbers of the proposed site for chemical complex and the villages limits declared in the Form 1 of the earlier application. Further, the chemical plant layout is re-oriented within the industrial complex owned by M/s Godavari Biorefineries Ltd., an Integrated Sugar, Co-generation and distillery complex and hence the change.
	Sy. Nos- <ul style="list-style-type: none"> • 13, 14, 16, 21, 28, 29, 40 of Saidapur village, • 49, 50, 53 of Handigund Village and • 69, 72, 73, 74 of Madhabhavi village, Sameerwadi Post, Mudhol Taluk, Bagalkot District, Karnataka	Sy. Nos. <ul style="list-style-type: none"> • 48/1, 53/1, 55, 47, 50/2, 57/1, 57/2, 57/3. 49/1, 49/2, 49/3, 49/4, 56/3 & 46 of Handigund Village, • 150/1 of Kappalguddi and • 74/1, 74/2, & 75 of Madhabhavi Village, Sameerwadi, Mudhol Taluk, Bagalkot District, Karnataka	The Committee deliberated and accepted the request of PP.

The EAC, after deliberations, **recommended** the amendment in ToR dated 17th June, 2018 as proposed by the project proponent.

Re-Consideration of Environmental Clearance

Agenda No.22.40

Establishment of pesticide specific intermediate and synthetic organic chemicals manufacturing Facility at Plot No 53A, MIDC Dhatav, District- Raigad, Maharashtra by M/s Deepak Nitrite Limited- Re-Consideration of Environmental Clearance

[IA/MH/IND2/90992/2019, IA-J-11011/17/2019-IA-II(I)]

The proposal is for environmental clearance to the project for Establishment of pesticide specific intermediate of capacity 4500 TPA and synthetic organic chemicals

manufacturing Facility of capacity 8040 TPA by M/s Deepak Nitrite Limited in an area of 20,224 sqm located at Plot No 53A, MIDC Roha, Dist. Raigad, Maharashtra.

The proposal was earlier considered by the EAC (Industry-2) in its meeting held on 13-15 April, 2020. The Committee during deliberation noted that the project is being located in Village Dhatav, which is in the list of Western Ghats Ecological Sensitive Area Village. The Ministry has restricted certain industrial activities in these areas based on the report of the Committee Chaired by Dr. Kasthurirangan on the Western Ghats region. In view of the same, the Committee has desired that, at first, the opinion of the ESZ Division of the Ministry may be solicited regarding consideration and appraisal of the projects in these areas.

Based on the observations of the Committee, the ESZ division has informed that the Village Dhatav is listed in the draft ESA and such there is restriction for red category of Industries in the area as per the Ministry's direction dated 13th November 2013 and amendment dated 3rd December 2018.

In view of the policy decision taken in the Ministry and the Ministry's direction dated 13th November 2013, the Committee has accordingly decided to **RETURN** the proposal in its present form.

Agenda No. 22.41

Setting of 120 KLPD molasses based ethanol plant and 4 MW cogeneration power plant by M/s Indian Sucrose Limited, located at village-Chak Allabaksh, Tehsil-Mukerian, District-Hoshiarpur Punjab -Reconsideration of Environmental Clearance

[IA/PB/IND2/116878/2018, No.IA-J-11011/404/2018-IA-II(I)]

The proposal is for environmental clearance to the project for Setting up Molasses based distillery of 120 KLD for the production of Ethanol and co-generation power plant of 4 MW by M/s Indian Sucrose Ltd located at Village chak Allabaksh, Tehsil Mukerian, District Hoshiarpur, Punjab.

The proposal was earlier considered by the EAC (Industry-2) in its meeting held on 13-15 April, 2020. The Committee noted that the project proponent has not made any serious rework on the proposal and additional details desired has not been properly provided by the project proponent. Though, EIA report is updated with annexing the additional details, the purpose has not been served and EIA report has not been revised. It was noted that the existing area was with another company and details regarding project operation in the area has not been provided. The information related to court cases require verification from the SPCB and Committee desired that the Ministry may request SPCB regarding the court cases and operation of the project in the area. The Committee also showed its displeasure regarding water balance, baseline data and GLC. The Committee suggested that considering the prevailing situation of the area, CER shall be increased and atleast Rs. 12.8 crores shall be allocated. The PP shall also allocate Rs. 50 lakhs for conservation of schedule 1 species and flora and fauna of

the region. The Committee also took serious note on the mismatch of ADS details provided on Parivesh portal and presented before the EAC. However, considering the project being for ethanol, the Committee has recommended the proposal.

Further, the project proponent has also requested for reduction in CER amount to Rs. 6.4 crore. Based on the observations of the Committee, the project proponent has also submitted additional information. During examination of the proposal in the Ministry, it was desired that the proposal may be placed before the Committee for detailed deliberations.

The Committee during deliberations noted that the project proponent has submitted additional information as desired by the Committee, except conversion of the land for industrial use and comments of SPCB on setting up of Industry in the location.

*The Committee after detailed deliberations reiterated its earlier **RECOMMENDATIONS** for grant of environmental clearance to the project.*

22.42: Any other Items with permission of the Chair

The Member Secretary has informed the Committee that Ministry has issued earlier Standard and specific Terms of Reference for preparation of detailed EIA/EMP Report in 2015. The Ministry is now requested to the Committee to deliberate further for optimization of Standard and specific Terms of Reference conditions. In this context, the Committee suggested that Member Secretary may prepare a zero draft on optimization of Standard & Specific TOR for all the categories of the projects and emailed to the Committee for further deliberations in the EAC meeting.

The meeting ended with thanks to the Chair.

GENERAL CONDITIONS

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (vi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (vii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (viii) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along

with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

- (ix) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <https://parivesh.nic.in/>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (x) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
- (xi) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

Annexure-I**List of the Expert Appraisal Committee (Industry-2) members participated during Video Conferencing (VC) meeting**

S. No.	Name and Address	Designation
1.	Dr. J. P. Gupta	Chairman
2.	Shri R. K. Singh	Member
3.	Shri Ashok Agarwal	Member
4.	Shri S.C. Mann	Member
5.	Dr. Y.V. Rami Reddy	Member
6.	Dr. T. K. Joshi	Member
7.	Dr. J. S. Sharma	Member
8.	Dr. T. Indrasena Reddy	Member
9.	Dr. Uma Kapoor, CGWA	Member
10.	Shri Dinabandhu Gouda, CPCB	Member
11.	Sh. Sanjay Bist, IMD	Member
12.	Dr. R. B. Lal, Scientist 'E', MoEFCC	Member Secretary
MoEFCC		
13.	Dr Saurabh Upadhyay	Scientist 'C'
14.	Dr. E.P. Nobi	Research Officer

Approval of EAC Chairman

Email

rb.lal@nic.in

Re: Draft Minutes of the 22th EAC (Industry 2 Chemical Sector) meeting held during August 17-19, 2020

From : jpglobalconsultinggroup@gmail.com

Tue, Sep 01, 2020 05:11 PM

Subject : Re: Draft Minutes of the 22th EAC (Industry 2 Chemical Sector) meeting held during August 17-19, 2020

To : Additional Director MoEFCC Dr R B LAL <rb.lal@nic.in>

Dear Dr R B Lal,
The minutes stand approved.

Regards,
Dr J P Gupta

