Minutes of the 377th (A)meeting of the State Level Expert Appraisal Committee held on 26/02/2018 at Committee Room, Gujarat Pollution Control Board, ParyavaranBhavan, Gandhinagar.

The 377th (A) meeting of the State Level Expert Appraisal Committee (SEAC) was held on 26thFebruary 2018 at Committee Room, GEER foundation, Gandhinagar. Following members attended the meeting:

1. *Shri S. C. Shrivastav, Vice Chairman, SEAC.*
2. *Shri R. J. Shah, Member, SEAC.*
3. *Dr. V. K. Jain, Member, SEAC.*
4. *Shri V. N. Patel, Member, SEAC.*
5. *Dr. Mayuri Pandya, Member, SEAC.*
6. *Shri Rajesh Shah, Member, SEAC.*

The table agenda of reconsideration for TOR/Scoping cases, ToR amendment and Appraisal cases were taken up. Seven cases of TOR/Scoping, four cases of ToR amendment and ten cases of appraisal were taken up. The Committee considered the applications made by project proponents and additional details submitted as required by the SEAC/SEIAA.

1.	SIA/GJ/IND2/19948/2016	**M/s.: Embio Limited** Plot No. 3/3/2, Dahej GIDC-III, Ta. Vagra, Dist. Bharuch	Reconsideration for EC – Appraisal

12.10.2017

Category of the unit : 5(f)

Project status: New

- PP has submitted online application vide no. SIA/GJ/IND2/19948/2016 dated 14/09/2017 for obtaining Environmental Clearance.
- The SEAC had recommended TOR to SEIAA and SEIAA issued TOR to PP vide letter dated 14/04/2017.
- Project proponent has submitted EIA Report prepared by M/s: En-vision Enviro Technologies Pvt. Ltd., Surat based on the TOR issued by SEIAA.
- Public Hearing was conducted by Gujarat Pollution Control Board on 14/07/2017 at project site of**M/s.: Embio Limited** Plot No. 3/3/2, Dahej GIDC-III, Ta. Vagra, Dist. Bharuch.
- This is a new unit proposes manufacturing of synthetic organic chemicals as tabulated below:

Sr. No.	Name of the Products	CAS no.	Quantity MT/Month	End-use of product
A	**MULTIPURPOSE API**			
	Oxalate for nor products			
1	L-Nor Ephedrine HCl	3198-15-0	600	Synthetic and drug Intermediate
2	L-Nor Ephedrine Base	492-41-1	300	Synthetic and drug Intermediate
3	P-Nor Ephedrine HCl	50-98-6	240	Synthetic Intermediate
4	P-Nor Ephedrine Base		600	Synthetic Intermediate
5	D-Nor Pseudo Ephedrine HCl	2153-98-2	60	Appetite suppressant drug
B	**ANIMAL FEED**			
1	Octopamine HCl	770-05-8	864	Veterinary Drug

				Intermediate
2	Ractopamine HCl	90274-24-1	600	Veterinary Drug
C	**ENZYME BASED FERMENTATION PRODUCTS**			
1	10kl fermenter - 2 Nos. (Oxidoreductase)	9001-66-5	175.92	Biocatalyst
2	20Kl fermenter - 2Nos. (Lipase)	9001-62-1	351.96	Biocatalyst
D	**PAIN MANAGEMENT PRODUCTS**			
1	Codeine	76-57-3	960	Cough Suppressant Drug
2	Morphine	57-27-2	420	Narcotic analgesic
3	Hydrocodone	125-29-1	264	Narcotic analgesic
4	Oxycodone	76-42-6	264	Narcotic analgesic
5	Methadone	76-99-3	60	Narcotic analgesic
6	Fentanyl	437-38-7	60	Narcotic analgesic

- The project falls underCategory B of project activity5(f)asper the schedule of EIA Notification 2006.
- Salient features of the project including Water, Air and Hazardous waste management:

Sr. no	Particulars	Details
A	**Total cost of Proposed Project (Rs. In Crores)**	Rs. 401/- Crores
	1. Capital cost for EMS (Environmental Management System): Rs. 836/- Lacs	
	2. Recurring cost towards the environmental protection measures: Rs. 550/- Lacs	
B	**Total Plot area:**	98,657.05 m^2
	Green belt area/ Tree Plantation area:	32,527.13 m^2
C	**Employment generation**	
	1. Direct	405
	2. Indirect	200
D	**Water**	
i	Source of Water Supply (GIDC, Bore well, Surface water etc...)	GIDC
	Status of permission from the concern authority. – Application made, GIDC requires CTE/NOC from GPCB for permission.	
ii	Water consumption (KL/day) – 1090 (518 KLD fresh water + 572 treated water for reuse)	

Category	Water Consumption KL/day	Fresh Required KLD
(A) Domestic	60	60
(B) Gardening	130	0
(C) Industrial	900	458
Process	355	355
Washing	195	53
Boiler	50	50
Cooling	300	0
Others	-	-
Total	**1090**	**518**

iii	Waste water generation (KL/day) - 578
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Category	KL/Day	Remarks

		(A) Domestic	50	-
		(B) Industrial	528	-
		Process	273	-
		Washing	195	-
		Boiler	10	-
		Cooling	50	-
		Others	-	-
		Total Industrial waste water	**528**	**Subjected to ZLD**

- **Note:** In case GIDC discharge pipeline available, treated water will be partially discharged to pipeline.

iv	Treatment facility with **capacity** (ETP, CETP, MEE, STP etc).	ETP followed by MEE and RO to achieve ZLD. ETP: 566+12 KLD MEE: 125 KLD RO: 600 KLD
v	Mode of Disposal & Final meeting point	Domestic: ZLD Industrial: ZLD **Note:** ZLD: treated water will be reused. In case GIDC discharge pipeline available, treated water will be partially discharged to pipeline.
vi	Reuse/Recycle details (KL/day)	572 KL/day
Vii	Details of rain water harvesting - The rainwater available for harvesting is 15,666.53 m^3/annum, which will be collected and used within the unit.	
E	**Air**	
i	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	

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Sr. no.	Source of emission With Capacity e.g. Boiler (8 TPH)	Stack Height (meter)	Name of the fuel	Quantity of Fuel MT/hr& MT/Day	Type of emissions i.e. Air Pollutants	APCM	Emission Standard
1	Steam Boiler (5000 Kg/Hr)	35	Coal	20 MT/day	SPM SO_2 NO_X	Bag Filter	≤150 mg/Nm^3 ≤100 ppm ≤ 50 ppm
2	Steam Boiler (5000 Kg/Hr)	35	Natural Gas	10000 Nm^3/day	SO_2 NO_X	Adequate stack height	≤100 ppm ≤ 50 ppm
3	D.G.Set (1000 KVA)	12	HSD	180 Lit/hr	SPM SO_2 NO_X	adequate stack height	≤150 mg/Nm^3 ≤100 ppm ≤ 50 ppm

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ii	Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_xetc.)	--
	- Proposed project is not having any process gas emission	
v	Fugitive emission details with its mitigation measures.	Sources of fugitive emissions include storage of chemicals, and solvents storage, loading and unloading section, raw material handling and fly ash, hazardous waste storage area and MEE salt.

		Mitigation Measures - Water shall be sprinkled during the construction - Water shall be sprinkled on fly ash - Mechanical seals for pumps etc. should be used and maintained. - Closed unloading, conveying and packing system - All the reactors shall be closed. - Safety devices shall be provided to workers - Raw material storage in closed storage area - Regular monitoring of solvents' concentration in work zone. - Greenbelt development around the plant.

F **Hazardous waste**
(As per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.

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Sr. no.	Type/Name of Hazardous waste	Source of generation	Category and Schedule as per HW Rules.	Quantity (MT/Annum)	Disposal Method
1.	Used oil	Machinery & Equipments	5.1	2.0	Collection, storage and reuse as lubricants in the machineries within the premises only or send to authorized re-processors.
2.	Discarded Containers/ Barrels/ plastic	raw material packaging	33.3	2000 No./Annum	Collection, storage, sold to re-processors after decontamination
3.	ETP Sludge	ETP	35.3	547.5	Collection, storage and send to TSDF site.
4.	Spent Carbon	Manufacturing process	28.3	54.75	Collection, storage and send to TSDF site.
5.	Production Residue	Manufacturing process	28.1	69.35	Collection, storage and send to incineration facility
6.	Biomass	Manufacturing process	--	1496.5	Collection, storage and send to TSDF site or sold for manure use.
7.	Fly ash	From Boiler	--	876	Collection, storage and sold to cement manufacturer or send to TSDF site.
8.	MEE Salt	From MEE	--	839.5	Collection, storage and send to TSDF site.
9.	Stripper residue	From Stripper column	37.3	182.5	Collection, Storage and send for incineration
10.	Spent Solvent	Manufacturing process	28.6	2372.5	Collection, storage and sold to authorized re-processors.

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ii	Membership details of **CETP, TSDF, CHWIF, Common MEE** etc.	The membership of common hazardous waste treatment storage and disposal facility (TSDF) of BEIL Ankleshwar/Ecocare Infrastructures Pvt. Ltd. Surendranagar/ and New upcoming site at Dahej will be obtained.

ii	Details of Non-Hazardous waste & its disposal (MSW and others)	- Organic solid waste will be utilized as manure for greenbelt. - Other solid wastes will be sent to nearest available GIDC solid waste site or Municipal solid waste site
D	**Solvent management** (If any)	
i	Details of Solvent recovery (As per respective ToR)	

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Sr. No.	Solvent	Fresh Requirement (MT/ Year)	Spent Generated* (MT/Year)	Recovered solvent ** (MT/Year)	Spent solvent residue*** (MT/Year)
1	Toluene	1295.75	1230.96	1169.41	61.55
2	Methanol	966.75	918.41	872.49	45.92
3	Acetone	107	101.65	96.57	5.08
4	Petroleum Ether	75	71.25	67.69	3.56
5	Isopropyl Alcohol	22.75	21.61	20.53	1.08

* Spent generated sent to outside for recovery
** - Recovered from spent for sale
*** - Spent residue for CHWTSDF generated during recovery of spent solvent at outside

ii	VOC emission sources and its mitigation measures	
	- Fugitive emission from the proposed project activities shall be mainly the VOCs emissions, which results from uses of solvents. - This emission will be taken place only at storage and handling of solvent. - Storage is in closed area with a facility of condenser which will reduce the emission.	

- PP was called for presentation in the SEAC meeting dated 12/10/2017.
- PP was called for appraisal in the SEAC meeting dated 12/10/2017. Technical presentation made during the meeting by project proponent. During the meeting, the project was appraised based on the information furnished in the EIA Report, details presented before the committee and various issues raised during the public hearing and details presented during the meeting.
- The baseline environmental quality has been assessed for various components of the environment viz. air, noise, water, biological and socioeconomic aspect. The baseline environmental study has been conducted for the study area of 5 km radial distance from project site for the period October 2016 to December 2016. Ambient Air Quality monitoring was carried out for PM10, PM2.5, SO2, NOx, HCl and VOC at Six locations, including the project site. Values conform to the prescribed standards for Ambient Air Quality. The incremental Ground Level Concentration (GLC) has been computed using ISCST – 3 model. The resultant concentrations are within the NAAQS. The ambient air quality around the proposed project site will remain within the National Ambient Air Quality Standards (NAAQS). Committee noted that PP has obtained NOC from the Central Bureau of Narcotics for export of precursor chemicals
- In case of Nor-ephedrines which are classified as Intermediates falling under the controlled substances category, the application needs to be made to Central Bureau of Narcotics for export of these intermediates named as l-Norephedrine HCl, l- Norephedrine base, p-Norephedrine HCl and p-Norephedrine base. For these intermediates, the permission from DCGI is not required for manufacturing the same. The permission from DCGI is required for manufacture only if the product is an API. Application for NOCs to manufacture

these products will be made only after obtaining environmental clearance. All required NOC/Permissions have been obtained for Mahad (Maharashtra) site to manufacture control substance products which are submitted with EIA report and the same way all required NOC/Permissions will be obtained from concerned authority for Dahej site. Recovered solvent will be sent to authorised re-processors (Solvent distillation units) with manifest system. PP has submitted MoU with such distillation unit which is located at Maharashtra. Committee asked to submit MoU with local distillation units. PP has not shown carbon waste in the matrix of hazardous waste. Committee observed that mass balance of the proposed products is not adequate. After detailed discussion, Committee decided to consider the case only after satisfactory submission of the following: (1) Adequacy certificate from the Schedule 1 Auditor for proposed EMS. Stage wise characteristic shall be included with technical justification. (2) Compliance of all the conditions & recommendations mentioned in the guidelines for the management of the spent solvents published by GPCB. (3) MoU with nearby authorised facility for distillation of spent solvents.

Provision of Leak Detection and Repair (LDAR) program as per the CPCB guidelines. (4) Chemical reaction stoichiometry with complete material balance. (Compliance of TOR-8).

- PP has replied for above mentioned additional details vide their letter on 07/02/2018.
- The proposal was considered in the SEAC meeting dated 26/02/2018. Committee noted that PP has submitted adequacy certificate from the Schedule 1 Auditor (MANTRA, Surat) for proposed EMS. Stage wise characteristic is included with technical justification. PP has ensured that they will comply all the conditions of spent solvent management guideline published by GPCB. Point wise compliance of all the conditions and recommendations are submitted. Copy of membership of M/s: RSPL, GIDC-Panoli for distillation of spent solvents is obtained. Provision of Leak Detection and Repair (LDAR) program as per the CPCB guidelines is submitted. Chemical reaction, Stoichiometry and material balance of proposed products is also submitted.
- ***Committee observed that compliance of the additional information sought was found satisfactory. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.***

2.	SIA/GJ/IND2/19685/2017	**M/s: Associated Dyestuff Pvt Ltd.** Plot 1/5, GIDC-Vatva, Ahmedabad	Reconsideration for ToR [Terms of Reference]

Category of the unit : 5(f)

Project status: Expansion

- This office has received an application vide their online proposal no. SIA/GJ/IND2/19685/2017 dated 17/07/2017 regarding grant of Terms of Reference [ToR] for preparation of EIA/EMP report.
- Earlier PP was remain absent in SEAC meeting dated 26/07/2017.
- During the meeting dated 26/07/2017, technical presentation was made by PP before the committee. Committee deliberated on circular published by GPCB vide dated 04/05/2017 regarding specific products Committee observed that GPCB has issued closure notice to their existing project due to non-compliance of existing CC&A conditions. Committee noted that stand alone plant of Vinyl Sulphone shall not be allowed in Vatva GIDC as per the GPCB circular. Considering the above mentioned GPCB circular, PP informed that they want to withdraw their proposal.
- Committee decided to de-list the above mentioned proposal after submission of the letter regarding withdrawal of an application seeking environmental clearance.

- PP has submitted a letter on 26/02/2018 regarding withdrawal of their proposal. During the meeting dated 26/02/2018, Committee noted that project proponent has requested for withdrawal of an application made for getting Terms of Reference for the proposed project.
- ***Committee agreed for the same & to delist the proposal from the list of pending applications & to close the file and decided to recommend for permission to withdraw an application of proposed project.***

3.	SIA/GJ/IND2/18342/2017	**M/s: Asian Paints Limited Ankleshwar** Plot No. 2602 to 2607, 2609 to 2614, 2701/A, 2701/B, 2703 and 2703 GIDC Ankleshwar, Dist.: Bharuch	Reconsideration for EC – Appraisal

Category of the unit : 5(h)

Project status: Expansion

- PP has submitted online application vide no. SIA/GJ/IND2/18342/2017 dated 11/09/2017 for obtaining Environmental Clearance.
- The SEAC had recommended TOR to SEIAA vide letter dated 28/04/2017 and SEIAA issued TOR to PP vide letter dated 01/05/2017.
- Project proponent has submitted EIA Report prepared by M/s: Kadam Environmental Consultants, Vadodara based on the TOR issued by SEIAA
- Public Hearing for the project is exempted as per paragraph 7(i) (III) (i) (b) of the EIA Notification, 2006 since the project site is located in the Notified Industrial area.
- This is an existing unit engaged in manufacturing of Paints, Resins, Emulsion &Phthalic Anhydride and now proposes for expansion as tabulated below:

Sr. No.	Product	Existing (TPA / KLPA)	Additional quantity (TPA/ KLPA)	Total after expansion (TPA / KLPA)
1.	Phthalic Anhydride	29796 TPA	-29796 TPA	0
2.	Light and Heavy ends of Phthalic Anhydride	360 TPA	-360 TPA	0
3.	Maleic Acid Solution	4860 TPA	-4860 TPA	0
4	Paints	130000 KLPA	+170000 KLPA	300000 KLPA
5.	Resins and Emulsions (TSR)	32000 TPA	+53000 TPA	85000 TPA

- The project falls underCategory B of project activity 5(h) asper the schedule of EIA Notification 2006.
- PP was called for presentation in the SEAC meeting dated 20/12/2017.
- Salient features of the project including Water, Air and Hazardous waste management:

Sr. no.	Particulars	Details
A	Total cost of Proposed Project (Rs. in Crores):	650 crores
	(1) Capital cost for EMS (Environmental Management System)**:** 5.44 crores (2) Recurring cost towards the environmental protection measures:1.5 Crores per Annum.	
B	Total Plot area (sq. meter)	168839.5 sq. m

	Green belt area,/Tree Plantation area (sq. meter)	34449.76 sq. m
C	**Employment generation**	
	1. Direct	Around 1500 employees (including existing work force and the off-roll employees)
D	**Water**	
i	Source of Water Supply (GIDC, Bore well, Surface water etc...)	GIDC
	Status of permission from the concern authority: Approval available from GIDC for supplying the required quantity of water	
ii	Fresh Water consumption (KL/day): 1000	

Category	Requirement KL/day
(D) Domestic	300
(E) Gardening	50
(F) Industrial	
Process	323
Boiler	56
Cooling	271
Total Industrial	650
Total (A+B+C) = 1000	

iii Waste water generation (KL/day)

Category	Generation (KL/day)
(C) Domestic	162
(D) Industrial	
Process	120
Boiler	4
Cooling	14
Total Industrial	138
Total Waste Water Generation (A+B) KL/day	300

iv	Treatment facility with **capacity** (ETP, CETP, MEE, STP etc).	ZLD facility with ETP along with RO and MEE
v	Mode of Disposal & Final meeting point	Domestic and Industrial effluent: ZLD facility with ETP along with RO and MEE. The treated effluent will be recycled back into the process
vi	Reuse/Recycle details (KL/day)	Total Quantity effluent generated (Industrial and Domestic Effluent generated)
vii	Details of rain water harvesting	The Rain water collected from the rooftop areas would be channelized into a storage tank of 350 KL capacity from where the harvested rain water will be reused back into the operations.
E	**Air**	

i	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	

Stack No.	Stack Attached to	Capacity	Stack Height (m)	Type of Fuel Used	Fuel Consumption (Kg/Hr)	Type of emissions i.e. Air Pollutants	APCM	Emission Standards
1	Boiler – 1	3 MT/Hr	33.5	NG	78	SPM, Sox and Nox	Adequate Stack Height and using Cleaner fuel - Natural Gas as fuel	Emission norms prescribed by the Gujarat Pollution Control Board
2	Boiler – 2	6 MT/Hr	33.5	NG	156	SPM, Sox and Nox		
3	DG SET- 1	8MW	30	HSD	131	SPM, Sox and Nox	Used only for back up and Adequate Stack Height will be ensured	
4	DG SET- 2		30	HSD	131	SPM, Sox and Nox		
5	DG SET-3		30	HSD	131	SPM, Sox and Nox		
6	DG SET-4		30	HSD	131	SPM, Sox and Nox		
7	DG SET-5		30	HSD	131	SPM, Sox and Nox		
8	DG SET-6		30	HSD	131	SPM, Sox and Nox		
9	DG SET-7		30	HSD	131	SPM, Sox and Nox		
10	DG SET-8		30	HSD	131	SPM, Sox and Nox		
11	Incinerator (APCM with 95%efficiency)	2 MTD	30.5	NG	29	SPM, Sox, Nox, HCl, CO, Total dioxins and Furans, Cd+ Th+ Their compounds, Hg and its compounds, Sb+As+Pb+Cr+Co+Cu+Mn+Ni+V+their compounds, HF, Total organic compounds	Adequate Stack Height and using Cleaner fuel - Natural Gas as fuel. There will be a Scrubber for control of emissions from the Incinerator.	
12	Thermic fluid Heater - 1	2lakh Kcal/hr	36	NG	120	SPM, Sox and Nox	Adequate Stack Height and using Cleaner fuel - Natural Gas as fuel	
13	Thermic fluid Heater - 2	2lakh Kcal/hr	36	NG	120	SPM, Sox and Nox		
14	Thermic fluid Heater - 3	2lakh Kcal/hr	36	NG	120	SPM, Sox and Nox		
15	Thermic fluid Heater - 4	2lakh Kcal/hr	36	NG	120	SPM, Sox and Nox		
16	Thermic fluid Heater - 5	2lakh Kcal/hr	36	NG	120	SPM, Sox and Nox		
17	Thermic fluid Heater - 6	2lakh Kcal/hr	36	NG	120	SPM, Sox and Nox		

iii	Fugitive emission details with its mitigation measures.: Fugitive emissions are unintentional release of process fluid from equipment such

as Pumps, valves, and flanges. To prevent fugitive emissions, documented procedures shall be developed and facilities shall implement good housekeeping and best environmental practices. These would, for example,include:

- Hoods and/or enclosure of process equipment,
- RM`s stored in tanks are unloaded through closed loop pipelines
- Processing of material is done in closed equipment.
- Closed loop addition of raw materials
- Appropriate cooling systems shall be provided to reduce emission during processing.
- Use of covered or enclosed conveyors and transfer points, and
- Preventive maintenance shall be carried out to address any such issues

F **Hazardous waste**
(as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.

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Sr. no.	Type/Name of Hazardous waste	Source of generation	Category and Schedule as per HW Rules.	Quantity (MT/Annum)	Disposal Method
1	Oil contaminated with waste water & sludge	All Tanks (other than water) bottom sludge	3.1	4	Incineration In house or TSDF/ Co processing
2	Sludge and filters contaminated with oil	Soil contaminated with any material (RM /Intermediate / Product)	3.3	20	Incineration In house or TSDF/ Co processing
		Vermiculite /Adsorbent contaminated with any material(RM/Intermediate /Product)			
		Engineering Consumables (such as oilfilters) contaminated with any material			
3	Used / Spent Oil	Used / overflow Thermopack oil	5.1	20	Sale to authorized recycler
		Spent lubricating oil/grease			
		Used oil such as hydraulic testing oil, transformer oil			
4	Discarded Asbestos sheet	Discarded Asbestos Sheets, Discarded Asbestos Panels, Used Asbestos Gaskets /cuttings	15.2	2.5	Disposal at TSDF secured landfill
5	Contaminated aromatic, aliphatic or naphthenic solvents, may or may not be fit for reuse	Waste solvent	20.1	185	Sale to authorized recyclers/ Incineration I house or at TSDF/ Co processing
6	Distillation Residues	Distillation Residue	20.3		Incineration In house or TSDF/ Co processing
7	Process waste (landfill incinerable)	Waste powder	21.1	150	Sale to authorized recycler/incineration – i house or at TSDF / Co processing
		Test samples of RM, NonResin intermediates and FGs			
		Gelled paint/paint with excess bacterial			
		growth/paint lumps)			
		Scrapping of dried paint			

		Spilled RM, NonResin intermediates and FGs			
		Paper/paper cups/PPEs contaminates with RM/intermediates /FG			
8	Waste /residues	Discarded Resin/Emulsions / polymer	23.1	95	Incineration – in house at TSDF/ Coprocessing / sale to authorized recycler
9	Waste/residues such as filter aids	Used dicamol, Arbocelcelite, cuno/GAF filter Bags, Waste filter cloth, sieve , mesh	23.1	106	Incineration – in house or at TSDF / Co processing
10	Chemical containing residue arising from denomination	Leftover material from RM container (Barrel / carbouv /Drum / Tote	34.1	35	Incineration – in house or at TSDF/ Co processing
11	Discarded containers/barrels/ liners contaminated with hazardous wastes / chemical (linear)landfill	All container for RM, intermediates, consumables(plastic)	33.1	50	Secured landfill at TSDF
12	Discarded containers/barrels/liners contaminates with hazardous wastes/chemical (linear)incinearble	All containers for RM, intermediates, consumables	33.1	70	Incineration in house or at TSDF/co processing / secured landfill at TSDF/sale to authorized recycler
13	Discarded containers / barrels / liners contaminated with hazardous wastes / chemical (packing material and sample containers)	All contaminated metal packing material containers including sample tins	33.1	100000	Incineration – in house or at TSDF/Co –processing secured landfill at TSDF/sale to authorized recyclers
		All contaminated plastic packing material containers			
14	Discarded containers/ barrels / liners contaminated with hazardous waste / chemical (barrels / carboys/drums / totes / IBC's (Numbers)	Contaminated liners and bags (plastic/paper), except those of extenders	33.1	220000*	Sale to Authorized vendors
15	Flue gas cleaning residue	Soot / carbon black	35.1	0.5	Incineration – in house or at TSDF/Co processing/ secured landfill at TSDF
16	Spent Ion Exchange Resin containing toxic metals	Resin beads	35.2	1	Incineration In house or at TSDF/ Co processing/ Secured Landfill at TSDF
17	Chemical sludge from waste – water treatment (dry basis)	Gutter/drain sludge	35.3	100	Incineration In house or at TSDF/ Co processing
		Effluent tank/guard pond sludge			
		Primary treatment tank / pond sludge			
		Centrifuged sludge			
		Chemical sludge from SDB			
		Chemical salts from MEE			
18	Oil and Grease skimming residue	Floating oil / solvent on trade effluent / sewage	35.4	20	Incineration In house or at TSDF/ Co processing
19	Ash from incineration of hazardous waste	Inorganic ash	37.2	100	Secured Landfill at TSDF
20	Lead Acid Batteries	Used /Waste lead acid batteries	Schedule – III, Part A1, A1160	420	Sale back to supplier/Authorized recycler
		Used /Waste lead acid batteries			

		(Excisable)			
21	Spent Carbon	Used carbon granules from common scrubbers	36.2	4	Return to supplier for regeneration/ Incineration In house / Co processing

*Equivalent quantity of discarded containers in **MT/Annum is 2200**.

ii	Membership details of **CETP, TSDF, CHWIF, Common MEE** etc.	1. Membership available with TSDF (Bharuch Enviro Infra Limited, Ankleshwar) and approval for Co-processing available with Cement Industries. 2. Membership certificate available with the CETP (NCTL) for the available quantity of effluent
iii	Details of Non-Hazardous waste & its disposal (MSW and others)	

NHW Type	Unit	
Paper Waste	MT	
Plastic Waste	MT	
Metal Waste	MT	
Plastic RM containers	Nos.	
Metal RM containers	Nos.	
Powder Waste	MT	
Wooden Waste	MT	
Miscellaneous / Kitchen	MT	

G	**Solvent management** (If any)	
i	Details of Solvent recovery (As per respective ToR)	**Waste solvent is mainly generated from cleaning of reactors, cleaned solvent is processed in Solvent Recovery Plant (SRP).** **Recovered solvent is re-used back into the process/cleaning of reactors.** **Residue generation from distillation process will be reused back into the operations or sent to co-processing.**

ii	VOC emission sources and its mitigation measures	1. Bulk consumed liquids RMs will bestored in the storage tanks and they will be pumped through pipeline using pump into the Mixers,Dispersers, Reactors and other process vessels. 2. To prevent fugitive emissions, documented procedures shall be developed and facilities shall implement good housekeeping and best environmental practices. These would, for example include: a. Hoods and/or enclosure of process equipment, b. Use of covered or enclosed conveyors and transfer points, and c. Implementation of action plans to prevent fugitive emission. d. Use of covered or enclosed conveyors and transfer points e. Appropriate cooling systems shall be provided to reduce emission during processing f. Preventive maintenance shall be carried out to address any such issues 3. Documentation of procedures for themonitoring and inspecting of emission control equipment will be developed.	

- During the meeting dated 20/12/2017, technical presentation made during the meeting by project proponent.
- During the meeting, the project was appraised based on the information furnished in the EIA Report and details presented before the committee.
- The baseline environmental quality has been assessed for various components of the environment viz. air, noise, water, biological and socioeconomic aspect. The baseline environmental study has been conducted for the study area of 10 km radial distance from project site for the period March 2017 to June 2017. Ambient Air Quality monitoring was carried out for PM10, PM2.5, SO2, NOx, NH_3, O_3, As, Pb, NI, BaP, C6H6, CO and VOC at 8 locations, including the project site. Results of all parameters at all stations are within permissible limit except PM10 at some locations Values conform to the prescribed standards for Ambient Air Quality. The incremental Ground Level Concentration (GLC) has been computed usingdispersion modelling software AERMOD of the United States Environment Protection Agency (USEPA).The proposed expansion will not have

significant impact on the overall emission.

- At present this unit is manufacturing Paints, Resins and Emulsions at its plot no. 2602 to 2607, 2609 to 2614, 2701/B, 2701/A and Phthalic Anhydride, Light and Heavy ends of Phthalic Anhydride and Maleic Acid solution at its plot no. 2702 and 2703. PP has proposed to amalgamate these two plants with increase the production of Paints, Resins and Emulsions and phase out the production of Phthalic Anhydride, Light and Heavy ends of Phthalic Anhydride, and Maleic Acid Solution.
- Committee deliberated on Certified Compliance Report (CCR) of RO-Bhopal, MoEF&CC for existing EC vide dated 04/10/2017 and its addendum vide dated 26/10/2017. After deliberation Committee was of the view that PP has not actually executed the said expansion despite permission from the GPCB. However, Committee asked to submit production details for last 5 years with authentic documents. This proposal is complete Zero Liquid Discharge (ZLD) and there will be no drainage connection from the premises. It was found that there is a discrepancy in stack details as per the TOR and EIA report. Committee asked for clarification in this regard.
- Graphs, isopleths and pictures of EIA report are not legible and clear. Committee desired to have these pictures in proper manner.
- After deliberation, Committee decided to consider the project in one of the upcoming SEAC meetings only after satisfactory submission of the following: (1) Actual production details for last 5 years with authentic documents. (2) Clarification for the discrepancy in no. of stacks and relevant details in EIA report as compared with ToR. Give justification in this regard. (3) Compliance of TOR no. 39 & 45. Submit Project specific Solvent management and LDAR. Program. (4) Justification for requirement of Incinerator with its adequacy w.r.t. CPCB guidelines. Technical details of Incinerator. (5) Justification for higher values of PM10 and its mitigation measures. (6) Details regarding management and disposal of construction and demolition waste.
- PP has replied for above mentioned additional details vide their letter on 14/02/2018.
- The proposal was considered in the SEAC meeting dated 26/02/2018. Committee noted that PP has submitted the production figures for last five years, as submitted through Schedule-1 auditors report. They confirm that they have never produced paints beyond 1, 00,000 KL in the past. The actual Production for last 5 years have been less than 100,000 KL. This number is also submitted monthly through the *Monthly Patrak* to GPCB vide the XGN, i.e. gpcbXgn.gujarat.gov.in.
- They acknowledged that there have been changes in the number of stacks as depicted in the EIA report and as earlier mentioned in the ToR documents submitted to the SEAC. They have submitted the changes along with justification, in this regards.
- Compliance of TOR point number 39 and 45 are covered in conceptual form in EIA repor. However, detailed VOC sources and LDAR programme has been planned. It will be carried to ensure that losses in various processes never exceed those mentioned in the process flow.
- In order to maintain uniformity, the size of graphs, isopleths and pictures were reduced to A4 size. They have re-printed all such pages in A3 size to have higher legibility and clarity. The EIA report has been submitted again.
- Existing Incinerator shall be used only as a back- up of Co-processing. In case of any breakdown or some emergency, incinerator shall be used. The incinerator shall be complying to CPCB Guidelines and shall be having following Air pollution control facilities. The air quality parameters shall be monitored and ensured as per the guidelines. (1) Low Nox Burners (2) Venturi Scrubber (3) Stack height greater than 30 m (4) Automatic temperature control and interlock of burner with the temperature (5) Auto Gas Analyser (6) Temperature Guages / Indicators at appropriate locations .

- Higher value of PM10 in baseline study is primarily due to following reasons : (a) High road dust in the region (b) High industrial activity in the nearby vicinity
- The increase in vehicular movement (traffic in PCU per hour) due to proposed expansion shall be minimal, just 2.8% in the surrounding roads as demarcated in EIA report.
- In addition to this following measures shall be taken up in proposed plant in order to control PM10

  a. Powder charging activity shall be carried out using appropriate dust collectors
  b. Closed loop bulk handling and pneumatic conveying of major Powder Raw Materials
  c. The exhaust of bulk handling will have bag filters/dust collectors attached to control particulate matters
  d. All utilities will have stack as per the legal requirement and will be periodically monitored
  e. Maximum Usage of cleaner fuels in utilities like natural gas.
  f. During Site preparation for proposed expansion, dust levels shall be suppressed through Barricading and water sprinkling
  g. Greenbelt development as proposed in EIA report

- Entire Process equipment like Reactors, vessels, pipelines, storage tanks, mezzanine structure (except civil buildings) are being dismantled and reused for construction of Plant at other site by third party.
- Hence, only following wastes are expected to be generated during demolition activities

  a. Structural Steel
  b. Civil Debris (concrete, bricks, and mortar)

- Waste generated due to demolition of buildings and other civil structures shall be segregated as steel and civil debris.
- Steel from reinforcement structure shall be segregated and disposed at nearby Mild steel recycler.
- Civil debris shall be sent to M/S R K Bricks and tiles / Surat Green precast Pvt Ltd, Surat which is associated with Surat Municipal Corporation for collection and recycling of construction and demolition waste or to any other similar facility.Excavated soil during construction phase shall be used for landscaping
- Throughout the demolition process proper barricading of the site will be carried out and water sprinkling will be done. Record of the same will be maintained in terms of water consumption details and photographs
- ***Committee observed that compliance of the additional information sought was found satisfactory. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.***

4.	SIA/GJ/IND2/19474/2017	**M/s: Sulphur mills ltd** plot no. 2, GIDC Estate, Panoli, Dist. Bharuch	Reconsideration for ToR [Terms of Reference]

Category of the Project: 5(f)

Project Status: New

- This office has received an application vide their online proposal no. SIA/IND2/19474/2017 dated 21/09/2017 regarding grant of Terms of Reference [ToR] for preparation of EIA/EMP report.
- This is an Expansion of unit process manufacturing of synthetic organic chemicals as tabulated below:

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

1	Naphthalene BasedDispersing Agent	9084-06-4	**1000**	Dispersing Agent**
2	Phenol Based DispersingAgent	71608-70-3	**2000**	
		Total	**3000**	
	**It shall be use as a raw material in dyes industriesleather industries, agriculture pesticide industries, Construction chemical and paint industries etc.			

- The project falls under category B of project activity 5 (f) as per the schedule of the EIA notification 2006.
- PP was called for presentation in SEAC meeting dated 20/12/2017.
- Salient feature of the project including Water, Air and Hazardous waste management:

Sr. no.	Particulars	Details
A	Total **cost of Proposed** Project (Rs. in Crores):	08.10 Crores
B	Total Plot area (sq. meter)	28,201.00 Sq. m.
	Green belt area,/Tree Plantation area (sq. meter)	9310.00 Sq. m.
C	**Employment generation**	**45**
D	**Water**	
i	Source of Water Supply (GIDC Bore well, Surface water, Tanker supply etc...)	GIDC, Panoli
	Status of permission from the concern authority.	Connection will be available from GIDC as & when required.
ii	Water consumption (KLD)	

Category	KLD	Remarks
(A) Domestic	0.50	--
(B) Gardening	32.25	--
(C) Industrial		
Process	37.20	--
Washing	2.00	--
Boiler	32.00	--
Cooling	2.00	--
Others	0.5*	ETP Primary Treated water used.
Industrial Total	73.20	--
Total (A + B + C)	105.95	--

1) Total water requirement for the project: 105.95 KLD
2) Quantity to be recycle: 2.00 KLD
3) Total fresh water requirement: 103.95 KLD

iii	**Waste water generation (KLD)**

Category	Waste water KLD	Remarks
(A) Domestic	0.40	--
(B) Industrial		
Process	--	--
Washing	1.80	--
Boiler	1.60	--
Cooling	0.10	--
Others	--	--
Total Industrial waste water	3.50	--

iv	Treatment facility within premises with **capacity**[ETP (Primary, Secondary, Tertiary), MEE, Stripper, Spray Dryer, STP etc].	ETP: 10.00 m^3/day (Primary Treatment). Spray Dryer Capacity: 1.20 MT/hrs, Water Evaporation Capacity: 500 Lit/hr
v	Mode of Disposal & Final meeting point	Domestic: Septic Tank / Soak Pit system.
		Industrial: Industrial effluent after primary treatment into ETP, treated water is reused again in floor washing/process and in venturi water scrubber and remaining water will be allowed in to spray dryer from where water will be evaporated. Hence, unit is ZLD.
vi	In case of Common facility (CF) like CETP, Common Spray dryer, Common MEE etc. , name of CF	In house spray dryer installed.
	Membership of Common facility (CF)	Not Applicable
vii	Reuse/Recycle details (KLD)	Out of total 105.95 KLD fresh water consumption, we have planned to reused 2.00 KLD treated washed water in floor washing/process and 0.5 KLD treated water in ventury water scrubber.
E	Air	

i

Flue gas emission details

No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.

-

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	Boiler – 02 Nos. (Capacity: 800 kg/hr each)	15.00	Natural Gas	500 m^3/hr in each	PM SO_2 NO_X	Not Required
2	Thermic Fluid Heater (Capacity: 4 Lac Kcal/hr	15.00	Natural Gas	500 m^3/hr		

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ii | Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_x etc.)

-

Sr. No.	Source of emission	Type of emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)
1	Spray Dryer	Naphthalene (Hydrocarbon)	30.00	Venturi Water Scrubber

-

iii | Fugitive emission details with its mitigation measures.
As below:

Negative pressure will be maintained in each storage tank to avoid fugitive emission.

F | **Hazardous waste**
(As per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.

i

Sr. No.	Type / Name of Hazardous waste	Source of generation	Category and Schedule as per HW Rules.	Quantity (MT/Annum)	Disposal Method
1.	Discarded Containers / Empty Bags & Liners	Raw Material & Products Storage Area	33.3	307.00	Collection, Storage, Transportation & Disposal by sale it to GPCB approved merchant / reuse
2.	Used Oil	Thermopack	5.1	0.50	Collection, Storage, Transportation & Disposal by sale it to CPCB or MoEF approved recycler / reuse for machine lubrication
3.	Solid Waste	Spray Drying	35.3	10.00	Collection, Storage, Transportation & Disposal at TSDF site – for secured landfill
4.	ETP Sludge	Waste Water Treatment Plant	35.3	2.00	Collection, Storage, Transportation & Disposal at TSDF site – for secured landfill

Quantity of discarded containers must be in **MT/Annum**.

ii | Membership details of **TSDF, CHWIF** etc. | For proposed project activity, unit will get TSDF membership after getting EC & before start of proposed production.

iii | Details of Non-Hazardous waste & its disposal (MSW and others) |

Sr. No.	Type of Waste	Source of Generation	Category of Waste	Disposal
1.	Construction Waste	Proposed construction activity	-	Construction waste generated will be stored at one identified place and sold off to recyclers.
2.	Domestic Waste (Food waste, Plastic, Paper etc.)	Employees working in the premises	MSW	Collected in separate bin and disposed to bin of GIDC.
3.	E-waste	Entire Plant	--	Collection, Storage and disposal to M/s. Earth E-Waste Management Pvt. Ltd., Surat

G	**Solvent management**, VOC emissions etc.	
i	Types of solvents, Details of Solvent recovery, % recovery. reuse of recovered Solvents	--
ii	VOC emission sources and its mitigation measures	VOC emission sources: Storage area. Volatile materials will be kept in a cool shed.

- Technical presentation was made by the project proponent. Committee noted that PP has proposed to achieve Zero Liquid Discharge. However, PP could not reply satisfactorily regarding adequacy of the ZLD system. Looking to the product profile, PP has also applied for the products which are not covered in the schedule to the EIA Notification 2006.
- Considering the above, after detailed discussion, it was decided to consider the project further only after submission of the following:

  (1) Revised proposal considering worst case scenario for waste water generation and ZLD system.
- PP has replied for above mentioned additional details vide their letter dated 27/12/2017.
- The proposal was considered in the SEAC meeting dated 26/02/2018.
- PP has submitted revised proposal considering worst case scenario for waste water generation and ZLD system. Committee noted that PP has submitted revised Form-1& relevant details.
- Part of Industrial effluent will be reused after primary treatment for floor washing/process and in venturi water scrubber and remaining water will be allowed in to spray dryer from where water will be evaporated.
- ***Considering the above project details, after detailed discussion, it was decided to recommend the project to SEIAA Gujarat for grant of Terms of Reference (ToR).***

5	SIA/GJ/IND2/17862/2016	**M/s: Pilot Industries** Plot No. 38/25, GIDC Industrial Estate, Jhagadia,Dist.: Bharuch	Reconsideration for EC – Appraisal

Category of the unit : 5(f)

Project status: New

- Project proponent [PP] has submitted online application vide no. SIA/GJ/IND2/17862/2016 dated 24/04/2017 for obtaining Environmental Clearance.
- The SEAC had recommended TOR to SEIAA in the SEAC meeting vide letter dated 07/02/2017 SEIAA issued TOR to PP vide their letter dated 15/03/2017.
- Project proponent has submitted EIA Report prepared by M/s: San Envirotech Pvt. Ltd., Ahmedabad based

on the TOR issued by SEIAA.

Sr. No.	Name of the Products	CAS no.	Quantity MT/Month	End-use of product
1	Para Nitro Chloro Benzene Ortho Sulphonic Acid (PNCBOSA)	121-18-6	5.0	Dyes Production
2	4-Amino Diphenyl 2-Sulphonic Acid (4ADPSA)	91-30-5	45.0	
3	4,4 diaminoDiphenyl 2 Sulphonic Acid	119-70-0		
4	2 Amino Phenol 4 (2 Methoxy Ethyl) Sulphonamide	-		
5	2 Amino Phenol 4 (3 Methoxy Propyl Amine) Sulphonamide	-		
	Total		**50.0**	

- The project falls underCategory B of project activity5(f)asper the schedule of EIA Notification 2006.
- Salient features of the project are as under:

Total cost of Proposed Project (Rs. in Crores)	Rs. 2.20 Cr.
1. Capital cost for EMS (Environmental Management System)**:**Rs. 0.50 Crores 2. Recurring cost towards the environmental protection measures:Rs. 0.350Crores per Annum	
Total Plot area (sq. meter)	1000 m^2
Green belt area,/Tree Plantation area (sq. meter)	325m^2

Sr. no.	Particulars	Details
A	**Water**	
i	Source of Water Supply (GIDC, Bore well, Surface water etc...)	GIDC water supply
	Status of permission from the concern authority.	
ii	Water consumption (KL/day)	

	Existing KL/day
(G) Domestic	2.0
(H) Gardening	2.0
(I) Industrial	
Process	5.5
Washing	5.0
Boiler	4.0
Cooling	5.0
Others	0.0

iii	Waste water generation (KL/day)
	-

Category	Existing	Remarks

		KL/Day	
	(E) Domestic	1.5	
	(F) Industrial		
	Process	15.0	
	Washing	5.0	
	Boiler	0.5	
	Cooling	1.5	
	Others	0.0	
	Total Industrial waste water	22.0	

-

iv	Treatment facility with **capacity** (ETP, CETP, MEE, STP etc).	ETP1: 10 KLD for dilute effluent ETP2: 20 KLD for concentrated effluent (Process)
v	Mode of Disposal & Final meeting point	Domestic: soak pit Industrial: Process effluent (15.0 KLD) will be evaporated in MEE and condensate will be reused. Effluent from dilute stream (7.0 KLD) will be treated in in-house ETP and finally disposed into GIDC drainage to convey FETP of NCT.
vi	Reuse/Recycle details (KL/day)	14 KLD
B	**Air**	
i	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	Boiler - 1 TPH, Stand by. D.G. set (125 kVA)

-

SR. no.	Source of emission With Capacity e.g. Boiler (8 TPH)	Stack Height (meter)	Name of the fuel	Quantity of Fuel MT/hr& MT/Day	Type of emissions i.e. Air Pollutants	APCM	Emission Standard
1	Boiler	21	Natural Gas	1500 SCM/day	PM<150 mg/NM3 SO2<100 ppm NOx<50 ppm	--	
2	D G Set-stand by (125 KVA)	11	HSD	lit/hr		--	

-

ii	Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_xetc.)	**No process gas emission.**

-

Sr. no.	Source of emission	Type of emission	Stack/Vent Height (meter)	APCM	Emission Standard
1					

-

v	Fugitive emission details with its mitigation measures.	There will be chances of generation of PM from packing/finishing area.To control fugitive emission, following steps will be implemented: • Close handling system provided for transfer of chemicals. • Raw material will be stored in the covered structure.

		• Regular maintenance of valves, pipes etc. • Periodic work area monitoring to check the fugitive emission. • Greenbelt will be developed around the plant to reduce the fugitive emission.

C **Hazardous waste**
(as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.

i

Sr. no.	Type/Name of Hazardous waste	Source of generation	Category and Schedule as per HW Rules.	Quantity (MT/Annum)	Disposal Method
1	ETP Sludge + MEE salt	ETP, MEE	35.3	150 + 5 = 155 MT/month	Collection, storage, transportation & disposal at TSDF site approved by GPCB or sell to cement industry as chemical gypsum for their blending process.
2	Used Oil	Machineries	5.1	0.2 Kl/year	Collection, storage, transportation & reuse within premises as a lubricant/ sell to registered recycler.
3	Discarded containers / drums/ liners	RM storage	33.1	200 nos./month 0.5 MT/month	Being used for packing of ETP sludge in case of excess it will be sold to approved recycler or traders.
4	Iron sludge (Process waste)	Process	28.1	40 MT/month	Collection, storage, transportation & disposal at TSDF site approved by GPCB or sell to cement industry as co-processing material.

Quantity of discarded containers must be in **MT/Annum**.

ii	Membership details of **CETP, TSDF, CHWIF, Common MEE** etc.	--
ii	Details of Non-Hazardous waste & its disposal (MSW and others)	--
D		
i	**Solvent management** (If any) Details of Solvent recovery (As per respective ToR)	--
ii	VOC emission sources and its mitigation measures	--

- Technical presentation was made during the meeting by project proponent. Committee deliberated on ToR wise compliance and found that compliance to the various ToR was not satisfactory. Details regarding BAT, Mass balance of chemical reactions, spent acid generation and its consideration as hazardous waste etc. are not covered properly in the EIA report. After detailed discussion, Committee decided to consider the proposal for further appraisal, only after satisfactory submission of the details/information as below:
- Revised details of Compliance of ToR no. 3, 4, 5, 6, 7, 8, 18, 27, 35, 36, 37 and 40.
- PP has submitted reply vide letter on 01/12/2017.
- PP was called for presentation in the SEAC meeting dated 21/12/2017.
- Layout plan of the factory premises showing all the production plants including Raw material & Products

storage area, separate entry & exit and adequate margin all-round the periphery for unobstructed easy movement of the emergency vehicle/fire tenders without reversing back is submitted. Details regarding BAT, manufacturing process & mass balance, CAS no. of products & raw materials are submitted. PP has informed that there is No generation of any by products/spent acid. The process effluent will achieve ZLD and only utility & washing effluent will be treated in ETP and send it to CETP/FETP. However, PP has proposed to install pH meter & flow meter at the final outlet of the

- ETP. Unit will install separate electric meter for ETP and MEE and maintain operational logbook regularly.
- PP has submitted details regarding hazardous waste management, MSDS of all the product and raw materials and details of hazardous characteristics and toxicity of raw materials. PP has submitted undertaking regarding commitment to carry out tree plantation.
- During the meeting, Committee observed that PP has proposed to send acidic stream waste water in ETP for neutralization and for further treatment. Upon asking, PP informed that they will stop manufacture acidic waste water generating products, if there is an absence of alkaline waste water stream generating products. PP also assured to submit an undertaking in this regard. Looking to the small scale unit and quantum of the waste water, Committee also asked them to explore the possibilities for common facility instead of in-house treatment.
- After deliberation, Committee decided to consider the case only after submission of the following: (1) Quantification and qualitative analysis for acidic waste stream generation, its related correction in haz. Waste category and relevant details. (2) An undertaking regarding stop the manufacturing of acidic waste water generating products in worst case scenario.
- PP has replied for above mentioned additional details vide their letter dated 14/02/2018.
- The proposal was considered in the SEAC meeting dated 26/02/2018.
- PP has submitted as below: (1) Average 870 lit/day of acidic effluent (spent sulphuric acid) generate from Para Nitro Chloro Benzene Ortho Sulphonic Acid (PNCBOSA) product. Average concentration in terms acidity is around 12-15%. This effluent is seperatly collected in collection tank and utilize for neutralization of alkali effluent generated from 2nd group of products. Modified Haz. waste category is given below.

Sr. No.	Types of Waste	Category of Waste as per HWM Rules 2016	Quantity	Disposal facility
1.	ETP Sludge + MEE salt	35.3	150 + 5 = 155 MT/month	Collection, storage, transportation & disposal at TSDF site approved by GPCB or sell to cement industry as chemical gypsum for their blending process.
2.	Used Oil	5.1	0.2 Kl/year	Collection, storage, transportation & reuse within premises as a lubricant/ sell to registered recycler.
3.	Discarded containers / drums/ liners	33.1	200 nos./month 0.5 MT/month	Being used for packing of ETP sludge in case of excess it will be sold to approved recycler or traders.
4.	Iron sludge (Process waste)	28.1	40 MT/month	Collection, storage, transportation & disposal at TSDF site approved by GPCB or sell to cement industry as co-processing material.

5.	Spent H_2SO_4 (12 – 15%)	26.3	21.650 MT/month	Collection, storage & utilize for neutralization of alkali stream of effluent in-house.

- An undertaking regarding stop the manufacturing of acidic waste water generating products in worst case scenario is submitted.
- ***Committee observed that compliance of the additional information sought was satisfactory. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.***

6	SIA/GJ/IND2/18927/2017	**M/s: Navkar chemicals** Plot No. 3010, Panoli GIDC, Ankleshwar, Dist.: Bharuch	Reconsideration for ToR [Terms of Reference]

Project / Activity No.: 5(f)

Project status: Existing

- This office has received an application vide their online proposal no. SIA/GJ/IND2/18622/2017 dated 24/04/2017 regarding grant of TOR.
- This is a new unit proposes manufacturing of synthetic organic chemicals as tabulated below:

Sr. no.	Name of the Products	CAS no.	Quantity MT/Month	End-use of product
1	Dispersing Agent		20 (Existing)	
2	Dry Sodium Sulphate	7757-82-6	15 (Existing)	
3	NaphthaleneFormldehyde Sodium Sulphonnate (SulfonatedNaphthaleneFomaldehyde) (Snf)	36290-04-7	540 (proposed)	Construction chemical
4	Di-Octyle Sodium Sulpho Succinate (Doss)	577-11-7	250 (proposed)	
5	Cacium Alkyl BenzeneSulphonate	26264-06-2	200 (proposed)	

- The project falls under Category B of project activity 5(f)as per the schedule of EIA Notification 2006.
- PP was called for presentation during the meeting on 09/08/2017.
- During the meeting, Committee deliberated on compliance of the existing project. PP informed that their existing project was established well before the EIA Notification i.e. 14/09/2006. PP has obtained CTE and CC&A of the Board. During presentation, PP could not reply satisfactorily regarding justification of the area with respect to various activities, green belt area, hazardous chemical storage area etc. Committee also observed that mass balances with respect to raw material requirement and water consumption for proposed products are not appropriate. Process effluent (Condensate) management is not shown in Form-1 & PFR. After detailed discussion on various aspects of the project, it was decided to consider the project only after submission of the following: (1) Adequacy of proposed area with respect to plant machineries , EMS, green belt , safety aspect, raw material & product storage considering worst case scenario. (2) Mass balance for all the products with chemical reactions and stoichiometry. (3) Justification for no generation of waste water from washing and any other section from the proposed project. (4) Management of process condensate and feasibility to reuse with quantitative and qualitative analysis. (5) Proposal for complete Zero Liquid Discharge (ZLD).

- PP has submitted a letter on 26/02/2018 regarding withdrawal of their proposal. During the meeting dated 26/02/2018, Committee noted that project proponent has requested for withdrawal of an application made for getting Terms of Reference for the proposed project.
- ***Committee agreed for the same & to delist the proposal from the list of pending applications & to close the file and decided to recommend for permission to withdraw an application of proposed project.***

7.	SIA/GJ/IND2/20516/2017	**M/s. Abhilasha Pharma Pvt. Ltd.,** Plot No. 1408, 1409, GIDC Industrial Estate, Ankleshwar-393002, Gujarat.	Reconsideration for ToR [Terms of Reference]

Category of the Project: 5(f)

Project Status: Expansion

- This office has received an application vide their online proposal no. SIA/GJ/IND2/20516/2017 dated 03/11/2017 regarding grant of Terms of Reference [ToR] for preparation of EIA/EMP report.
- This is an Expansion of unit process manufacturing of synthetic organic chemicals as tabulated below:

Sr. No.	Name of Products	CAS No.	Quantity MT/Month			End Use of Product
			Existing	Proposed Additional	Total	
Existing Products						
1.	1:1 Di Methylbigumide Base (Metformin)	657-24-9	50	----	50	Drug Intermediate for bulk drug manufacturing
2.	N-[4-[2-(3- ethyl -4 methyl-2 –oxo-3-pyrroline -1-carboxamido) ethyl benzene Sulfonamide (Glimepiride)	93479-97-1	0.05	----	0.05	Drug Intermediate for bulk drug manufacturing
OR						
3.	4-Hydroxy -9(H) Carbazole (Carvidilol)	72956-09-3	0.9	-----	0.9	Drug Intermediate for bulk drug manufacturing
4.	4-2-S (Chloro 2 – MethoxyBenzamidoethyl) PehenylSulphonamide (Glibenclamide)	10238-21-8				Drug Intermediate for bulk drug manufacturing
5.	DipheylHydanationBase (Phenytion Sodium)	630-93-3				Drug Intermediate for bulk drug manufacturing
6.	N- Methyl -4-(8-Chloro-5,6 Di hydro -1 (H) Benzo (5,6)	79794-75-5				Drug Intermediate for bulk drug

	Cyelohepta (1,2b) Pyridine -11 YlidinePiperidine (Lorataine)					manufacturing
7.	1-[2-Amino-1-P-Methoxyphenyl) Ethyl] Cyclohexanol Hydrochloride (Venalafixine)	93413-69-5				Drug Intermediate for bulk drug manufacturing
8.	2,4 Difluoro -2 (1H-1-2-4, triazole -1-yl acetophenone) (Fluconazole)	86386-73-4				Drug Intermediate for bulk drug manufacturing
9.	5-Fluro -2 –hydroxyl Acetophenone (Nebivilol)	99200-09-6				Drug Intermediate for bulk drug manufacturing
10.	3-Methylamino -1 phenyl -1-propanol (Fluoxetine)	54910-89-3				Drug Intermediate for bulk drug manufacturing
11.	3-Ethyl[5- Methyl – (4RS) 2-/ (2 aminoethoxy) Methyl]4-(2- Chlorophyl)-6-Methyl-1-4-Di-Hydropyridine -3,5 discarboxylate	111025-46-8				Drug Intermediate for bulk drug manufacturing
Proposed Products						
12.	Metformin Hydrochloride	1115-70-4	---	100	100	Drug
13.	Glimepiride	93479-97-1	---	0.2	0.2	Drug
14.	Pioglitazone Hydrochloride	111025-46-8	---	7.0	7.0	Drug
15.	5-[[4-2-(5-ethyl-2-pyridinyl)ethoxy]Phenvlimethyl]-2.4-thiazolidinedione (Piobase)	---				Drug Intermediate for bulk drug manufacturing
16.	5-{[2-(5-ethyl-2-pyridyl) ethoxy]Benzylidene}-2,4-Thiazolidinedione (Benzylidene)	122-57-6				Drug Intermediate for bulk drug manufacturing
17.	Desloratadine	100643-71-8	---	0.1	0.1	Drug
18.	Glibenclamide	10238-21-8	---	0.5	0.5	Drug
19.	Loratadine	79794-75-5	---	0.8	0.8	Drug
20.	Nebivilol Hydrochloride	152520-56-4	---	0.2	0.2	Drug

21.	Chlorohexidine	56-95-1	---	4.0	4.0	Drug
22.	Clopidogrel Bisulfate	135046-48-9	---	2.0	2.0	Drug
23	Fluconazole	86366-73-4	---	0.5	0.5	Drug
24.	Fluoxetine HCl	59333-67-4	---	0.5	0.5	Drug
25.	Nicoumalone (Acenocoumarol)	152-72-7	---	0.066	0.066	Drug
26.	FluphenazineDecanoate	5002-47-1	---	0.0125	0.0125	Drug
27.	Crotamiton	483-63-6	---	1.25	1.25	Drug
28.	Bupivacaine Hydrochloride	14252-80-3	---	0.083	0.083	Drug
29.	Ropicaine Hydrochloride	132112-35-7	---	0.041	0.041	Drug
Total			**50.95**	**117.2525**	**168.2025**	

- The project falls under category B of project activity 5 (f) as per the schedule of the EIA notification 2006.
- PP was called for presentation in SEAC meeting dated 04/01/2018.
- Salient feature of the project including Water, Air and Hazardous waste management:

Sr. no.	Particulars	Details
A	Total **cost of Proposed** Project (Rs. in Crores):	Existing: 5 Proposed: 4.1 Total: 9.1
B	Total Plot area (sq. meter)	Existing: 5787 Proposed: No additional land requirement Total: 5787
	Green belt area,/Tree Plantation area (sq. meter)	Existing: 2506 Proposed: -- Total: 2506
C	**Employment generation**	
	1. Direct	Existing: 42 Nos. Proposed:28 Nos. Total: 70 Nos.
	2. Indirect	Existing:15 Nos. Proposed:10 Nos. Total:25 Nos.
D	**Water**	
i	Source of Water Supply (GIDC Bore well, Surface water, Tanker supply r etc...)	GIDC piped water supply
	Status of permission from the concern authority.	Already available
ii	Water consumption (KLD)	

	Existing KLD	Proposed (Additional) KLD	Total after Expansion KLD	Remarks
(J) Domestic	1.5	1.5	3.0	--
(K) Gardening	1.0	0.5	1.5	--
Industrial				
Process	1.8	19.2	21.0	--
Washing	1.0	2.0	3.0	--
Boiler	5.7	5.3	11.0	Fresh – 4.0 + Recycle – 7.0
Cooling	9.6	15.4	25.0	Fresh – 3.0 + Recycle – 22.0
Scrubber	0.0	0.5	0.5	--
DM Plant Regeneration	0.5	1.5	2.0	--
Industrial Total	**18.6**	**43.9**	**62.5**	Fresh – 33.5 + Recycle – 29.0
Grand Total (A+B+C)	**21.1**	**45.9**	**67.0**	Fresh – 38.0 + Recycle – 29.0

4) Total water requirement for the project: 67 KLD
5) Quantity to be recycle: 29 KLD
6) Total fresh water requirement: 38 KLD

iii Waste water generation (KLD)

Category	Existing KLD	Proposed (Additional) KLD	Total after Expansion KLD	Remarks
(G) Domestic	1.3	1.2	1.5	--
(H) Industrial				
Process	3.3	11.7	15.0	--
Washing	1.0	2.0	3.0	--
Boiler	0.6	5.4	6.0	--
Cooling	0.3	2.7	3.0	--
Scrubber	0.0	0.5	0.5	--
DM Plant Regeneration	0.5	1.5	2.0	--
Industrial Total	**5.7**	**23.8**	**29.5**	--
Grand Total (A+B)	**7.0**	**25.0**	**32.0**	--

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iv	Treatment facility within premises with **capacity** [ETP (Primary, Secondary, Tertiary), MEE, Stripper, Spray Dryer, STP etc].	Existing ETP consisting of primary, secondary and tertiary treatment systems. Capacity of ETP is 10 kl/day. Necessary modifications will be done in ETP for additional quantity of wastewater after proposed expansion project.
v	Mode of Disposal & Final meeting point	Domestic: Through septic tank/ soak pit.
		Industrial: ETP treated water will be diverted to RO. Reject from RO will be diverted to evaporator. Condensate from evaporator with RO permeate will be recycled as

		cooling tower & boiler makeup.
vi	In case of Common facility (CF) like CETP, Common Spray dryer, Common MEE etc., name of CF	--
	Membership of CF	--
vii	Reuse/Recycle details (KLD)	In existing operations, 5.55 kl/day treated wastewater is recycled for cooling tower makeup. After proposed expansion, 29 kl/day treated wastewater will be recycled for cooling tower& boiler makeup.
E	Air **[Existing & Proposed]**	
i	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	

-

Sr. no.	Source of emission With Capacity e.g. Boiler (8 TPH)	Stack Height (meter)	Name of the fuel	Quantity of Fuel MT/hr& MT/Day	Type of emissions i.e. Air Pollutants	APCM
Existing Scenario						
1	Steam Boiler: 0.8 TPH x 1no.	H: 11 D: 0.15	Natural Gas	11.25 scm/hr	PM, SO_2, NO_2	Stack of adequate height
2	D. G. Set – 125 kVA	H: 11 D: 0.15	Diesel	11 liter/hr	PM, SO_2, NO_2	Stack of adequate height
Proposed Scenario						
1	Steam Boiler: 1 TPH x 1no.	H: 11 D: 0.15	Natural Gas	77 scm/hr	PM, SO_2, NO_2	Stack of adequate height
2	D. G. Set – 125 kVA – 2 nos.	H: 11 D: 0.15	Diesel	11 liter/hr	PM, SO_2, NO_2	Stack of adequate height
3	Thermic Fluid Heater 1 Lakh kCal/hr – 1 No.	Common Stack H:11, D:0.15	Natural Gas	14 scm/hr	PM, SO_2, NO_2	Stack of adequate height
4	Thermic Fluid Heater 50000 kCal/hr – 1 No.			7 scm/hr		

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ii	Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_x etc.) [Existing & Proposed]	

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Sr. no.	Source of emission	Type of emission	Stack/Vent Height (meter)	APCM
Existing Scenario				
1	Reactor of process	HCl, SO_2, NOx, Cl_2, NH_3	H: 11, D:0.15	Twin Scrubber
Proposed Additional				
1	Reactor of process	HCl, SO_2, NOx, Cl_2, NH_3	H: 11, D:0.15	Twin Scrubber

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iii Fugitive emission details with its mitigation measures.
[Existing & Proposed]…As below:

The fugitive emission may occur from due to storage & handling of raw materials and product. In existing operation, below given measures is provided for the control of fugitive emission. Same measures will be followed after proposed expansion project:

- Closed reactors are provided and regular checking and maintenance are carried out.
- All the motors of pumps are provided with suitable mechanical seal with stand-by arrangement.
- Control of all parameters on a continuous basis are done by adequate control valves, pressure release valves and safety valves etc.
- All the flange joints of the pipe lines are covered with flange guards.
- All the raw materials are stored in isolated storage area and containers are tightly closed.
- Precautionary measures are also be taken while handling various hazardous chemicals.
- Adequate ventilation system in process plant and hazardous chemical storage area is provided.
- Good housekeeping will be maintained.

F **Hazardous waste**
(as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
[Existing & Proposed]

i

S. N.	Name of waste	Source of Gene-ration	Cat. No.	Hazardous waste details			Mode of disposal
				Existing	Proposed	Total	
1	Used Oil	Mainte-nance	5.1	12 liter/ Annum	10 liter/ Annum	22 lit/Annum	Collection, Storage, Transportation, sell to GPCB authorised re-processors.
2	Distillation residue	Manufacturing Process	28.1	18 TPA	141 TPA	159 TPA	Collection, Storage, transportation and incineration at BEIL or co-processing in cement Ind.

3	Spent Carbon	Waste Water Treatment	28.3	3 TPA	16 TPA	19 TPA	Collection, Storage, transportation and incineration at BEIL.
4	ETP Sludge	Waste Water Treatment	35.3	60 TPA	120 TPA	180 TPA	Collection, Storage, Transportation, and final Disposal at TSDF, BEIL.
5	Discarded Container / Barrels/ Liner	Material Storage	33.1	138 TPA	52 TPA	190 TPA	Collection, Storage, Reuse & Decontamination.
6	Date Expired & Off Specification product	Manufacturing Process	28.4/ 28.5	---	0.07 TPA	0.07 TPA	Collection, Storage, transportation and incineration at BEIL or co-processing in cement Ind.
8	MEE Salt	Waste Water Treatment	35.3	--	6 TPA	6 TPA	Collection, Storage, Transportation, and final Disposal at TSDF, BEIL.
9	Process Waste	Manufacturing Process	28.1	--	6 TPA	6 TPA	Collection, Storage, transportation and incineration at BEIL or co-processing in cement Ind.
10	Spent Solvent	Manufacturing Process	28.6	--	105 TPA	105 TPA	Collection, Storage, reuse within industrial unit in process.

Quantity of discarded containers must be in **MT/Annum**.

ii	Membership details of **TSDF, CHWIF** etc.	The company has membership certificate of CSWD & TSDF - BEIL for hazardous waste generated from existing operations.
iii	Details of Non-Hazardous waste & its disposal (MSW and others)	None
G	**Solvent management**, VOC emissions etc.	

i	Types of solvents, Details of Solvent recovery, % recovery. reuse of recovered Solvents	Collection, Storage, In-house recovery & reuse within industrial unit in process.
ii	VOC emission sources and its mitigation measures	As mentioned in E (iii)

- Technical presentation was made by the project proponent. Committee noted that PP has proposed to send their additional waste water to proposed CETP of M/s: Ankleshwar waste management. Committee noted that there is no existence of said CETP at present. Committee was of view that unit shall propose sound management for additional waste water quantity.
- After deliberation, Committee decided to consider the project in one of the upcoming SEAC meetings only after satisfactory submission of the following:
    1. Sound management for Waste water considering 18 (1) (b) directions under the Water Act 1974 imposed by CPCB on CETP.
- PP has replied for above mentioned additional details vide their letter dated 22/02/2018.
- The proposal was again considered in the SEAC meeting dated 26/02/2018.As per revised proposal, PP has proposed ZLD by providing ETP with RO & MEE system. Committee noted that PP has proposed ZLD within premises.
- ***Considering the above project details, after detailed discussion, it was decided to recommend the project to SEIAA Gujarat for grant of Terms of Reference (ToR).***

8.	SIA/GJ/IND2/20796/2017	**M/s. Atulya Life Science LLP** Plot no.02, Survey No.906, B/H: ShubhlaxmiInd.Estate,Chhatral-Kadi Road,Chhatral-382729.Dist: Gandhinagar.	Reconsideration for ToR [Terms of Reference]

Category of the Project: 5(f)

Project Status: New

- This office has received an application vide their online proposal no. SIA/GJ/IND2/20796/2017 dated 09/11/2017 regarding grant of Terms of Reference [ToR] for preparation of EIA/EMP report.
- This is a New of unit process manufacturing of synthetic organic chemicals as tabulated below:

Sr. No.	Name of Product	CAS No.	Total Qty. (MT/M)
1.	3,4- Dimethoxy Phenyl Amine	120-20-7	40
2.	4-Methoxy Benzyl Alcohol	105-13-5	120
3.	Dihydropapavarine HCL (DHP)	5884-22-0	8
4.	3,4- Dimethoxy Phenyl Acetic Acid	93-40-3	20
5.	3,4- Dimethoxy Phenyl Acetonitrile	93-17-4	8
6.	4-Methoxy Phenyl Acetic Acid	104-01-8	40
7.	4-Methoxy Phenyl Acetonitrile	104-47-2	60
8.	Indoline	496-15-1	40
9.	Raspberry Ketone (RBK)	5471-51-2	20
10.	2 chloro 4 nitro toluene	121-86-8	60

- The project falls under category B of project activity 5 (f) as per the schedule of the EIA notification 2006.
- PP was called for presentation in SEAC meeting dated 10/01/2018.

- Salient feature of the project including Water, Air and Hazardous waste management:

Sr. no.	Particulars	Details
A	**Water**	
i	Source of Water Supply (GIDC, Bore well, Surface water etc...)	Water Tanker
	Status of permission from the concern authority.	
ii	Water consumption (KL/day): 23.5 KL/day	

Sr. No.	Category	Water consumption (KL/Day)
1	Domestic	1.5
2	Industrial	
2.1	Process	14
2.2	Boiler	2.0
2.3	Cooling	1.0
2.4	Washing	1.0
2.5	Scrubber	2.0
2.6	Gardening	2.0
Total		**23.5**

iii	Waste water generation (KL/day)

Sr.	Category	Waste Water Generation (KL/Day)
1	Domestic	1.0
2	Industrial	
2.1	Process	30.3
2.2	Boiler	0.2
2.3	Cooling	0.1
2.4	Washing	1.0
2.5	Scrubber	2.0
2.6	Gardening	0.0
Total		**34.6**

iv	Treatment facility with **capacity** (ETP, CETP, MEE, STP etc).	Proposed ETP

Sr. No.	Name of Unit	Nos.	Capacity (KL)
1.	Collection Tank	02	35 KL (each)
2.	Neutralization Tank	01	25 KL
3.	Primary Settling Tank	02	20 KL (each)
4.	Holding Tank	02	50 KL (each)
5.	Sludge drying Bed	--	--

v	Mode of Disposal & Final meeting point	Domestic: Soak Pit/Septic tank Industrial: • Industrial Effluent of **33.6 KL/day** will be sent to ETP for primary treatment and then it will be sent to Chhatral Environment Management System Pvt. Ltd. So, our unit will achieve Zero Discharge.
vi	Reuse/Recycle details (KL/day)	Not Applicable
vii		
B	**Air**	

i Flue gas emission details
No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.

Sr. no.	Name of Unit	Stack ht. (m)	Air Pollution Control System	Parameter	Permissible Limit
01	Steam Boiler (1 MT)	33	Cyclone Separator/Bag filter	SPM SO_2 NO_x	150 mg/NM^3 100 ppm 50 ppm
02	Thermic Fluid Heater (2 L Kcal/hr)	20	Cyclone Separator/Bag filter		
03	DG Set (125 KVA)	09	---		

ii Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_x etc.)

	Name of Unit	Stack ht. (m)	Air Pollution Control System	Parameter	Permissible Limit
01	Reaction vessel	11	Water Scrubber	Ammonia HCl	175 mg/NM^3 20 mg/NM^3

v Fugitive emission details with its mitigation measures.

We will do regularly maintenance of equipment, proper Handling of our raw material and provide close feeding system.

C **Hazardous waste**
(as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.

Sr. No.	Types of Waste	Process Category	Qty.	Managements
01	ETP Sludge	35.3	8 MT/yr.	Collection, Storage, Transportation, Disposal at approved TSDF site.
02	Used Oil	5.1	10 L/yr.	Collection, Storage, Transportation, Disposal by selling to Registered re processor.
03	Discarded Container/Bags/Liners	33.3	19800 Nos./yr.	Bags Will be use in packing of ETP waste and drums/barrels will be return back to raw material supplier.
04	Distillation Residue	20.3	264 MT/Yr	Collection, Storage, Transportation, Disposal by Incinerator.
05	NH_4OH (25 %)	26.1	432 MT/Yr.	Collection, Storage, Transportation & disposed by selling to authorized industries or treatment in ETP & finally discharged CMSPL, Chhatral.
06	Dil. HCl (28 %)	26.1	156 MT/Yr.	Collection, Storage, Transportation & disposed by selling to authorized industries or treatment in ETP & finally discharged CMSPL, Chhatral.

i Quantity of all the wastes including discarded containers must be in **MT/Annum**.

ii Membership details of **CETP, TSDF, CHWIF, Common MEE** etc. — Membership of Chhatral Environment Management System Pvt. Ltd, Chhatral.

ii Details of Non-Hazardous waste & its disposal (MSW and others) — Not Applicable

D

i **Solvent management** (If any)
Details of Solvent recovery

Sr No.	Name of Product	Type of Solvent to be used	Used Qty MT/M	Recover MT/M	Fresh Solvent to be used

					MT/M
01	3,4-Dimethoxy Phenyl Acetonitrile	Chloroform	48	30.8	17.2
02	3,4-Dimethoxy Phenyl Amine	Methanol	94.8	88.48	6.32
		Ra-Ni Catalyst	1.2	1.12	0.08
03	4-Methoxy Phenyl Acetonitrile	Toluene	28.8	27	1.8
04	4-Methoxy Benzyl Alcohol	Ra-Ni Catalyst	1.2	1.15	0.05
05	DHP (Dihydropapavarine HCL)	Toluene	14.4	13.68	0.72
		Methanol	17.2	16.32	0.88
06	Indoline	Methanol	56.88	54	2.88
		Ra-Ni Catalyst	4.6	4.5	0.08
07	Raspberry Ketone (RBK)	Ra-Ni Catalyst	0.54	0.52	0.02
		Methanol	43.88	41.5	2.38

ii	VOC emission sources and its mitigation measures	We will assure that measure VOC level in our Manufacturing unit as well as Raw material storage area. We will also do work place monitoring & according implementation.

- Technical presentation was made by the project proponent. The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- Looking to the hazardous chemicals to be used for the proposed products & water consumption & waste water generation scenario, Committee was of the view that PP should submit legal undertaking regarding small unit with technical justification.
- After detailed discussion, Committee decided to consider the proposal only after submission of the following:
  1. Legal Undertaking stating that unit is complying the three conditions [i.e. water consumption less than 25 M^3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989] as per the amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25/06/2014. Give technical justification in this regard.
- PP has replied for above mentioned additional details vide their letter dated 08/02/2018.
- The proposal was again considered in the SEAC meeting dated 26/02/2018.
- PP has submitted legal undertaking regarding small unit as per the amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25/06/2014. Committee noted that water consumption 23.5 KLD, Fuel consumption less than 25 MTPD & not covered in MAH unit as per the "Manufacturing, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989.
- ***Considering the above project details, after detailed discussion, it was decided to recommend the project to SEIAA Gujarat for grant of Terms of Reference (ToR).***

09.	SIA/GJ/IND2/18942/2017	**M/S. SHREE HARI FINE CHEM**	Reconsideration for

		Shed No C1- 240, Phase-II, GIDC, Vatva, Ahmedabad, Gujarat-382 445	EC – Appraisal

Project / Activity No.: 5(f)

Project status: New

- PP has submitted online application vide no. SIA/GJ/IND2/18942/2017 dated 26/10/2017 for obtaining Environmental Clearance.
- The SEAC had recommended TOR to SEIAA and SEIAA issued TOR to PP vide letter dated 30/04/2017.
- Project proponent has submitted EIA Report prepared by M/s: Green Circle Inc., Vadodara based on the TOR issued by SEIAA
- This is an existing unit engaged in Synthetic organic chemicals and now proposes for expansion as tabulated below:

Sr. No.	Name of Product	MT/ Month	CI Number	End use of the product
1	3-Chloro-2-Hydroxy Propane Sulphonic Acid Sodium Salt	16	143218-48-8	All are as a raw material of Electroplating
2	Pyridinium Propyl Sulphobetaine	3	15471-17-7	
3	Bis Sodium SulphopropylDisulphide	2	27206-35-5.	
4	Sodium 3-Mercaptopropane Sulphonate	0.5	17636-10-1	
5	Dimethyl DithioCarbamyl Propane Sulphonic Acid Sodium Salt	0.5	18880-36-9	
6	3-Benzothiozolyl-2-Mercapto Propane Sulphonic Acid Sodium Salt	0.5	49625-94-7	
7	Morpholine Propane Sulfonic Acid and its derivatives	0.5	1132-61-2	
8	3-Cyclohexylamino Propane Sulfonic Acid and allied derivatives	0.5	1135-40-6	
9	Oxathiolane, 2,2 – Dioxide	7	1120-71-4	
10	Pyridine – 3 – Sulfonic Acid	0.5	636-73-7	
11	Benzene 1,3 – Disulfonic Acid Disodium Salt.	0.5	831-59-4	
Total		**31.5**		

- The project falls under Category B1 of project activity 5(f)as per the schedule of EIA Notification 2006
- PP was called for presentation in the SEAC meeting dated 17/01/2018.
- During the meeting dated 17/01/2018, technical presentation made during the meeting by project proponent.
- During the meeting, the project was appraised based on the information furnished in the EIA Report and details presented before the committee.
- The baseline environmental quality has been assessed for various components of the environment viz. air, noise, water, biological and socioeconomic aspect. The baseline environmental study has been conducted for the study area of 5 km radial distance from project site for the period March 2017 to May 2017. Ambient Air Quality monitoring was carried out for PM10, PM2.5, SO2, NOx, HCl and VOC at Six locations, including the project site. Values conform to the prescribed standards for Ambient Air Quality. The incremental Ground Level Concentration (GLC) has been computed using ISCST – 3 model. The resultant concentrations are within the NAAQS. The modelling study proved that the air emissions from the proposed plant would not affect the ambient air quality of the region in any significant manner. The ambient air quality

around the proposed project site will remain within the National Ambient Air Quality Standards (NAAQS).

- Salient features of the project are as under:

Sr. no.	Particulars	Details
A	**Water**	
i	Source of Water Supply1 (GIDC, Bore well, Surface water etc...)	GIDC shall supply water
	Status of permission from the concern authority.	
ii	Water consumption (KL/day):5.0	

Category	Proposed KL/Day
(L) Domestic	1.2
(M) Gardening	0.3
(N) Industrial	
Process	1.6
Boiler	1.0
Cooling	0.5
Others (Washing and makeup for scrubbing)	0.4
Total	5.0

iii	Waste water generation (KL/day)	

-

Category	Proposed KL/Day
(I) Domestic	1.000
(J) Gardening	0.000
(K) Industrial	
Process	1.160
Boiler	0.100
Cooling	0.050
Others (Washing and makeup for scrubbing)	0.400
Total Industrial waste water	**1.710**

iv	Treatment facility with **capacity** (ETP, CETP, MEE, STP etc).	ETP is proposed with capacity of 2.0 KLD. CETP Vatva, Ahmedabad facility for disposal of diluted stream @ 1.230 KLD. MEE Vatva, Ahmedabad facility for disposal of concentrated effluent @ 0.480 KLD. Novel, Vatva facility for disposal of spent acid @ 1.5 MT/Month
v	Mode of Disposal & Final meeting point	Domestic: Soak pit Industrial: Diluted Stream: CETP Vatva Concentrated Stream: MEE,Vatva
vi	Reuse/Recycle details (KL/day)	-
B	**Air**	
I	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	

-

SR. no.	Source of emission With	Stack Height (meter	Name of the fuel	Quantity of Fuel MT/hr&	Type of emissions i.e. Air	APCM	Emission Standard

	Capacity e.g. Boiler (8 TPH)	)		MT/Day	Pollutants		
1.	Steam Boiler	12	Wooden Waste / White Coal/ Imported Coal	1.00 MT/Day	SO_2, NO_2, PM	Dust Collector	PM<150 mg/Nm^3 SO_2 < 100 ppm NO_x< 50 ppm
2.	D.G. Set (6.5 KVA) (Stand by)	5	Diesel	7 Lit/hr	SO_2, NO_2, PM	-	PM<150 mg/Nm^3 SO_2 < 100 ppm NO_x< 50ppm

-

ii	Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_x etc.)	

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Sr. No.	Stack Attached to	Stack Height (m)	APCM System	Expected Pollutant	Pollutants
1.	Reactor	12	Scrubbed under Vacuum through Water and Alkali Solution by Vacuum Pump.	SO_2 HCl	SO_2<40 mg/Nm^3 HCl<20 mg/Nm^3

v	Fugitive emission details with its mitigation measures.	• Fugitive emission will due to the leakages in pump, storage container, material transferring, and packing. **Mitigation measures:** • Proper storage of raw materials, products and fuels • Ensuring closed feeding and sampling. • Establishing SOPs for start-up, shut down and maintenance operational procedure Regular work place and ambient air quality monitoring will be done.

C Hazardous waste

(as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.

I

Sr. No.	Types of Waste	Category	Quantity	Mode of Disposal
1.	Hazardous WasteETP Sludge	34.3	12.0 MT/Annum	Storage and disposal to TSDF site.
2.	Calcium Sulphate	34.3	14.4 MT/Annum	Storage and disposal to TSDF site.
3.	Boiler Ash	-	6.0 MT/Annum	Storage and disposal to TSDF site.
4	Used Oil/ Spent Oil	5.1	40 Lit/Year	Sold to Recycler, Reprocessor or used as Lubricants for Machineries.
5.	Discarded Container / Drum	33.3	3 MT/Annum	Send back to raw material supplier / sold to registered recycler
	Bags		2 MT/Annum	Sold to Registered Recycler

Quantity of discarded containers must be in **MT/Month**.

ii	Membership details of **CETP, TSDF, CHWIF, Common MEE** etc.	CETP for discharge of treated waste water MEE for concentrated stream
ii	Details of Non-Hazardous waste & its disposal (MSW and others)	AMC collection centre

D		
i	**Solvent management** (If any) Details of Solvent recovery (As per respective ToR)	NA
ii	VOC emission sources and its mitigation measures	VOC source: • Liquid material storage area • Production area VOC mitigation measures • Store VOC-containing products in air-tight containers. • Buy products with less packaging as the printing of packaging materials generates VOCs • Will assign a person develop and implement the VOC reduction plan. • Utilizing natural ventilation Maintaining the good housekeeping practice

The projectproponent along with their experts/consultants attended the meeting of the SEAC held on 17/01/2018. During the meeting, the project was appraised based on the information furnished in the EIA Report. Technical presentation made during the meeting by project proponent. EIA report reveals that baseline environmental study was carried out during the month of March 2017 to May 2017 to determine the prevailing status of ambient air, land use, noise level topography, meteorology, ecology & socioeconomic outline.Baseline ambient air quality was measured at nine locations. Monitoring was carried out for PM10, PM2.5, SO2, NOx and VOC within 10 km radius from the project site.The maximum concentrations of PM10, PM2.5, SO2 and NOx at each ambient air monitoring locations were compared with NAAQS for industrial, residential, rural and other areas.Concentration of PM10 ranged from 42.60 µg/m3 to 72.60 µg/m3. Concentration of PM2.5 recorded from minimum 32.5 µg/m3 to maximum 49.20 µg/m3. Concentration of SO2 recorded ranged from minimum 4.2 2µg/m3 to maximum 42.2µg/m3.Concentration of NO2recorded ranged from minimum 12.2µg/m3 to maximum 39.50 µg/m3.The value of VOC ranged from 0.10µg/m3 to 0.3 µg/m3.The Value of HCL ranged from 1.2 µg/m3 to 40.2 µg/m3.The incremental Ground Level Concentration (GLC) has been computed using ISC-AERMOD View".The maximum 24-hourly average ground level concentration for pollutant due to proposed project calculated using mathematical model (ISCST3) for PM10, SO2, NOx and resultant values also meets with NAAQ standards. For ground water qualities in terms of various essential and desirable characteristics are found within the limits specified by IS 10500:2012.Total water requirement of the project for domestic & Industrial activity during operation phase will be 5.0 KLD. Water requirement for the industrial purpose will be 4.0 KLD, for the domestic purpose will be 1.2 KLD and 0.3 KLD for green belt. Main source of water supply is GIDC Estate.Waste water generated from domestic activities (1.0 KLD) and industrial activity (1.71 KLD). Total waste water will be 2.71KLD, which will be treated in ETP. ETP is proposed with capacity of 2.0 KLD. Dilute stream of waste water is proposed to be discharged to CETP and concentrated waste water stream is proposed to be sent to common MEE. Committee asked PP to send entire quantity of treated waste water to common spray drier keeping direction under section 18(1) B of CPCB in view.Spent acid is proposed to be sent to Novel, Vatva. Scrubber is proposed by the unit with reaction vessel for scrubbing process gas emission of HCl and SO2.After deliberation, it was unanimously decided to consider the project for further consideration only after submission of the following: (1) Revised details of entire quantity of treated waste water to be sent to common spray drier with membership facility showing quantity of treated waste

water to be hand over to common spray drier. (2) Revised hazardous waste details incorporating spent sulfuric acid and bleed liquor (Exhausted scrubbing Media in the form of spent HCl) details with its handling and disposal management plan.

- PP has replied for above mentioned additional details vide their letter dated 12/02/2018.
- The proposal was considered in the SEAC meeting dated 26/02/2018.
- PP has submitted as under: They will not discharge any treated effluent to CETP till effect of the direction under section 18 (1) (b) of the Water (Prevention and Control of Pollution) act, 1974 issued by CPCB dated 31/03/2016 regarding compliance of CETP.PP has also submitted valid Membership Certificate of Common Spray Dryer Facility of M/s: GESCSL, Vatva for sending entire treated effluent and Certificate of NOVEL Spent Acid Management System, Vatva, Ahmedabad for disposal of Spent Sulfuric Acid and bleed liquid.
- **Committee observed that compliance of the additional information sought was satisfactory. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.**

10.	SIA/GJ/IND2/21101/2017	**JEFF IINDUSTRIES** Plot No: 198, Rampur,Talod GIDC industrial Estate Talod, Dist.: Sabarkantha	Reconsideration for ToR [Terms of Reference]

Category of the Project: 5(f)

Project Status: Expansion (New Project for Environment Clearance)

- This office has received an application vide their online proposal no. SIA/GJ/IND2/21101/2017 dated 23/11/2017 regarding grant of Terms of Reference [ToR] for preparation of EIA/EMP report.
- This is anExpansion of unit process manufacturing of synthetic organic chemicals as tabulated below:

SR. NO	PRODUCT NAME	CAPACITY IN KG/MONTH		
		EXISTING	PROPOSED	ULTIMATE
	NON EC Product			
01	Cupric Chloride Hydrous	10000	NIL	10000
02	Cupric Chloride Anhydrous	10000		10000
03	Magnesium Oxide	20000		20000
04	Zinc Sulphate Monohydrate	10000		10000
	EC Product			
05	BeclomethasoneDipropionate	NIL	25	25
06	Betamethasone		10	10
07	Betamethasone Dipropionate		25	25
08	Betamethasone Sodium Phosphate		20	20
09	Betamethasone Valerate		20	20
10	Clobetasol Propionate		30	30
11	Clobetasol Butyrate		10	10
12	Dexamethasone Acetate		5	5
13	Dexamethasone Sodium Phosphate		100	100
14	Fluticasone Propionate		5	5
15	Hydrocortisone Acetate		33	33
16	Hydrocortisone Hemi Succinate (Hydrocortisone Hydrogen Succinate)		5	5
17	Methyl Prednisolone		10	10
18	Methyl Prednisolone Acetate		10	10

19	Methyl Prednisolone Hemi Succinate		5	5
20	MometasoneFuroate		20	20
21	Prednisolone Acetate		50	50
22	Prednisolone Sodium Phosphate		10	10
23	Triamcinolone		5	5
24	Triamcinolone Acetonide		5	5
25	Deflazacort		50	50
26	Helobetasol Propionate		2	2
27	Methyl Cobalamin		500	500
28	Calcium Stearate		25000	25000
29	Zinc Stearate		25000	25000
30	Magnesium Stearate		25000	25000
31	Calcium Citrate		5000	5000
32	Croscarmellose Sodium		10000	10000
33	Sodium Starch Glycollate		10000	10000
34	Combiflame Citrate		2000	2000
35	Methyl Paraben IP		10000	10000

- The project falls under category B of project activity 1(d) as per the schedule of the EIA notification 2006.
- PP was called for presentation in SEAC meeting dated 17/01/2018.
- Salient feature of the project including Water, Air and Hazardous waste management:

Sr. no.	Particulars	Details
A	Water	
i	Source of Water Supply (GIDC, Bore well, Surface water etc...)	GIDC Estate
	Status of permission from the concern authority.	
ii	Water consumption (KL/day)	

Sr No	Category	Water Consumption in KL/Day		
		EXISTING	PROPOSED	PROPOSED TOTAL
1.	Domestic Purpose	1.5	0.5	2.0
2.	INDUSTRIAL			
	Process	-	2.62	2.62
	Boiler	2.50	NIL	2.50
	Ancillary	0.05	0.1	0.15
	Total water Consumption (Domestic)	**1.5**	**0.5**	**2.0**
	Total water Consumption (Industrial)	**2.55**	**2.72**	**5.27**

iii Waste water generation (KL/day)

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Sr No	Category	Wastewater Generation in KL/Day		
		EXISTING	PROPOSED	PROPOSED TOTAL
1.	Domestic Purpose	1.5	0.3	2.0
2.	INDUSTRIAL			

	Process	-	2.5	2.5
	Boiler (Blow Down)	0.05	NIL	0.05
	Ancillary	0.05	0.1	0.15
	Total Wastewater generation (Domestic)	**1.5**	**0.5**	**2.0**
	Total Wastewater generation (Industrial)	**0.1**	**2.6**	**2.7**

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iv	Treatment facility with capacity (ETP, CETP, MEE, STP etc).	ZERO DISCHARGE UNIT
v	Mode of Disposal & Final meeting point	Domestic: Soak Pit
		Industrial:We have **2.7 KLD** industrial waste water is sent to Evaporation for the waste water evaporate. The unit will remain ZERO DISCHARGE UNIT
vi	Reuse/Recycle details (KL/day)	NO
B	Air (Existing and Proposed)	
i	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	

Sr no	Stack attached to	Stack height in meter	Fuel	Consumption	APCM	Remark
1.	Small Industrial Boiler (1 TPH)	11.00	Agro Waste /Imported Coal	55 Kg/hr	Cyclone Separator	Existing
2	DG Set	5.00	HSD	10 L/hr	Acoustic Enclosure	

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ii Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_x etc.) (Existing and Proposed)

Sr no	Vent Attached To	Stack height in meter	APCM	Pollutant Concentration	Remark
1.	Reactor	7.00	Alkali scrubber	Cl2 < 9 mg/Nm3	Existing

V	Fugitive emission details with its mitigation measures. (Existing And Proposed)	Read in Section 3.3 of PFR Attached with application
C	Hazardous waste (as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.(Existing and Proposed)	
I	Quantity of discarded containers must be in MT/Annum.	

Sr. No	Types of Hazardous Waste	Category	Existing	Propose	Ultimate	Disposal
1	Spent Oil	5.1	0.010 MT/Year	0.2 MT/ Year	0.21 MT/ Year	Collection, storage, Transportation and Dispose to Active TSDF Site
2	Discarded Container/ Bags	33.1	0.50 MT / Year	1.0 MT/Year	1.5 MT/Year	Collection, storage, Transportation and Dispose to Registered Recycler

	3	ETP Sludge	35.3	NIL	2.00 MT/Year	2.00 MT/Year	Collection, storage, Transportation and Dispose to TSDF Site

ii	Membership details of CETP, TSDF, CHWIF, Common MEE etc.	Not Applicable
ii	Details of Non-Hazardous waste & its disposal (MSW and others)	Not Applicable
D		
i	Spent Solvent management (If any)	Not Applicable
ii	VOC emission sources and its mitigation measures	Not Applicable

Technical presentation was made by the project proponent.. Committee noted CC&A compliance of the existing unit. PP mentioned that there is no public complaint or any litigation pending before any court of law. After the proposed expansion, water consumption proposed is 5.27 KLPD and waste water generation is 2.70 KLPD. PP could not explain techno-economic feasibility of the evaporator proposed to be installed in-house. Committee also felt that details of solvent used and their losses need to be addressed adequately at the stage of issuance of TOR. It was also asked to explore alternative option for pursuing zero discharge with reuse/recycle possibilities of treated waste water.

The location of the proposed unit is virgin in its class of product, hence after technical presentation it was decided to consider the proposal in one of the upcoming meeting upon submission of followingdetails: (1) Adequate proposal for zero discharge by the project proponent with techno-economical feasibility for zero liquid discharge. (2) Adequacy of proposed area with respect to plant machineries , EMS, green belt , safety aspect, raw material & product storage considering worst case scenario. Submit proper lay out plan clearly demarcating all activities with scale. (3) Solvent handling and management plan for maximum recovery of solvent.

- PP has replied for above mentioned additional details vide their letter dated 23/02/2018.
- The proposal was considered in the SEAC meeting dated 26/02/2018.
- PP has submitted as under:Total industrial waste water 2.7 KLD generated from Process and other ancillary and it was evaporate though Evaporation system after Treatment in ETP plant hence there will be no wastewater discharge. They assured to maintain the zero liquid discharge. Technical details for Evaporation System is submitted.
- Total effluent generated from process and utility @ 2.7 KL/day will be evaporated in jackated Steam evaporation system. Total energy required for evaporation will be approximately 2.0 Lac Kcal/Hr. Hence, it will be more than sufficient to provide energy required for evaporation system for the process.Details of energy requirement for evaporation system are submitted.
- They have attached Plant Lay-out including all manufacturing Process, ETP, packing, labeling, storage and other purpose area.
- ***Committee observed that compliance of the additional information sought was satisfactory. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.***

11.	SIA/GJ/IND2/20487/2017	**M/s. Basic International** Plot No. 47/1/3,4,5, GIDC Industrial Estate, Dist.: Nandesari, Vadodara.	Reconsideration for EC – Appraisal

Project / Activity No.: 5(f)

Project status: Expansion

- PP has submitted online application vide no. SIA/GJ/IND2/20487/2017 dated 27/10/2017 for obtaining Environmental Clearance.
- The SEAC had recommended TOR to SEIAA and SEIAA issued TOR to PP vide letter dated 01/05/2017.
- Project proponent has submitted EIA Report prepared by M/s: Excel Enviro Tech, Ahmedabadbased on the TOR issued by SEIAA
- This is an existing unit engaged in Synthetic organic chemicals and now proposes for expansion as tabulated below:

Sr. No.	Name of the Products	CAS no.	Quantity (MT/Month)			End-use of product
			Existing	Proposed	Total	
	Name of the Existing Products					
1	Trichloro acetyl chloride	76-02-08	15	---	15	pharmaceuticals and plant protection compounds
	Name of the Proposed Products					
01	Etoricoxib	202409-33-4	---	1.50	1.50	Medication
02	Febuxostat	144060-53-7	---	1.00	1.00	Medication
03	Doxofylline	69975-86-6	---	2.50	2.50	Medication/Drug Intermediates
04	Pregabalin	148553-50-8	---	1.00	1.00	Medication
05	Tramadol Hydrochloride	27203-92-5	---	2.50	2.50	Medication
06	Montelukast Sodium	151767-02-1	---	0.50	0.50	Medication
07	Nebivolol Hydrochloride	152520-56-4	---	0.25	0.25	Medication
08	Rosuvastatin Calcium	147098-20-2	---	0.25	0.25	Medication
09	Bisaprolol	66722-44-9	---	0.50	0.50	Medication
10	Ambroxol Hydrochloride	23828-92-4	---	2.00	2.00	Medication
11	Itopride Hydrochloride	122892-31-3	---	1.00	1.00	Medication
12	Sevelamer Carbonate	917381-47-6	---	0.50	0.50	Medication
13	Tadalafil	171596-29-5	---	0.50	0.50	Medication
14	Chlorohexadine Base	55-56-1	---	3.00	3.00	Disinfectant and topical anti-infective agent
15	Chlorohexadine Hydrochloride	3697-42-5	---	1.00	1.00	Germicidal mouthwash

16	ChlorohexadineGluconate	18472-51-0	---	100.00	100.00	Germicidal mouthwash
17	Bis (2 chloroethyl) amine Hydrochloride	821-48-7	---	10.00	10.00	Medication
18	2-(chloromethyl)-4-methyl-quinazoline	109113-72-6	---	2.00	2.00	Medication
19	4-Hydroxy 2-methyl 2-H thieno (2, 3,e), 1,2,thiazine –3-carboxylic Methyl ester, 1,1,-dioxide.	70415-50-8	---	0.50	0.50	Medication
20	2- chloro ethyl Acetatoacetate	14337-43-0	---	2.50	2.50	Medication
21	Chlorohexadine Acetate	56-95-1.	---	5.00	5.00	Antiseptic Solution

- The project falls under Category B1 of project activity 5(f)as per the schedule of EIA Notification 2006
- PP was called for presentation in the SEAC meeting dated 18/01/2018.
- During the meeting dated 18/01/2018, technical presentation made during the meeting by project proponent.
- Salient features of the project are as under::

Sr. No.	Particulars	Details
A	**Total Cost of Proposed Project (Rs. In Crores)**	Existing: Rs. 40 Lakh Proposed: Rs.3 Crores Total: Rs. 3.40 Crores
	(1) Capital cost for EMS (Environmental Management System)**:** 0.35 Crores (2) Recurring cost towards the environmental protection measures: 0.01 Crores per Annum.	
B	**Total Plot Area (sq. Meter)**	Existing: 1500 m^2. Proposed: NIL Total: 1500 m^2.
	Green belt area,/Tree Plantation area (sq. meter)	Existing: 100 m^2 Proposed: --- Total: 100 m^2
C	**Employment generation**	
	1. Direct	Existing:06 Proposed:14 Total:20
	2. Indirect	Existing:04 Proposed:08 Total:12
D	**Water**	
i	Source of Water Supply (GIDC, Bore well, Surface water etc.)	GIDC Water Supply
	Status of permission from the concern authority. -	
ii	Water consumption (KL/day)	

Category	Existing KL/day	Proposed (Additional) KL/day	Total after Expansion KL/day	Remarks
(O) Domestic	0.5	3.5	4.0	--

(P) Gardening	--	2.5	2.5	--	
(Q) Industrial					
Process	--	20	20	--	
Washing	--	6	6	--	
Boiler	--	12	12	--	
Cooling	8.0	6	14	--	
Others	--	--	--	--	
Total (A+B+C)			58.5	--	

iii Waste water generation (KL/day)

Category	Existing KL/Day	Proposed (Additional) KL/day	Total after Expansion KL/day	Remarks
(A) Domestic	0.4	2.8	3.2	--
(B) Gardening	--	--	--	
(C) Industrial				
Process	--	20	20	--
Washing	--	6	6	--
Boiler	--	2	2	--
Cooling	--	2	2	--
Others	--	--	--	--
Total Industrial waste water	--	--	30.0	--

Domestic water will be sent to soak pit.

iv	Treatment facility with **capacity** (ETP, CETP, MEE, STP etc).	ETP & CETP
v	Mode of Disposal & Final meeting point	Domestic: Soak Pit Industrial: common CETP (Nandesari Industries Association)
vi	Reuse/Recycle details (KL/day)	None
Viii	Details of Rain Water Harvesting	None
E	**Air [Existing & Proposed]**	

i Flue gas emission details
No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.

Sr. no	Source of emission With Capacity e.g. Boiler (8 TPH)	Stack Height (meter)	Name of the Fuel	Quantity of Fuel MT/hr& MT/Day	Type of emissions i.e. Air Pollutants	APCM	Emission standard
1	Boiler (1 T/Hr)	11.0	white coal/briquette	52 MT/Month	PM SO_X NO_x	Cyclone	PM<150 mg/Nm^3 SO_X < 100 ppm NO_x< 50 ppm
2	D. G. Set-150 KVA	11.0	Diesel	25 Lit/hour	PM SO_X NO_x	Adequate stack height	PM<150 mg/Nm^3 SO_X < 100 ppm NO_x< 50 ppm

ii Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_x etc.)

Sr. No.	Source of emission	Type of emission	Stack/Vent Height (meter)	APCM	Emission standard
1	Glass Line Reaction Vessel (2 Nos)	Cl_2	15 m X 2 stacks	Two stage Scrubber	---

v **Fugitive emission details with its mitigation measures.**

Unit is using White coal/agro waste as a fuel in High therm Boiler & Glass Line Reaction vessel, which is eco friendly& less polluting. So, there will be no APCM is required.
Regular Work Place Monitoring, Ambient Air, Stack Air Monitoring to be done.

F **Hazardous waste**
(As per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.

i

Sr. no	Type/Name of Hazardous waste	Source of generation	Category	Quantity (MT/Annum)			Disposal Method
				Existing	Proposed	Total	
1	ETP Sludge	ETP Process	35.3	2000.0 Kgs/month	--	--	Collection Storage, Transportation, Disposal at TSDF
2	Discarded Containers/ Drums	Mfg. process	33.1	500 Nos./Month	--	--	Collection storage Decontamination disposal to GPCB Authorized recycler or reuse within the premises
3	Discarded Bags	Mfg. process	33.1	750 Nos./Month	--	--	Collection, storage Decontamination disposal to GPCB Authorized recycler or reuse within the premises
4	Used Oil	Mfg. process	5.1	5 Liter/Year	--	--	Collection, Storage, Decontamination, Disposal to GPCB Authorized recycler. Used for lubrication of machineries at our unit
5	Solvent Residue	Mfg. Process	28.1	6 MT/Month	--	--	Collection Storage, Transportation, Disposal at co processing or CHWIF
6	Spent solvent		28.6	18 MT/month	--	--	Collection Storage, Transportation, Disposal at co processing or registered recycler, CHWIF
7	Spent charcoal		28.3	9 MT/month	--	--	Collection Storage, Transportation, Disposal at co processing or CHWIF

Quantity of discarded containers must be in **MT/Annum**.

ii	Membership details of **CETP, TSDF, CHWIF, Common MEE**	NECL Membership
ii	Details of Non-Hazardous waste & its disposal (MSW and others)	None
G	**Solvent management (If any)**	
i	Details of Solvent recovery (As per respective ToR)	The unit have in-house facility for solvent recovery
ii	VOC emission sources and its mitigation measures	--

- The project proponent along with their experts/consultants attended the meeting of the SEAC held on 18/01/2018.Since proposal is for expansion, compliance of CCA, action by the GPCB interms of SCN, direction under the environmental laws were discussed and found satisfactorily addressed. PP mentioned that there is no public compliant and there is no litigation pending against unit before any court of law. During the meeting, the project was appraised based on the information furnished in the EIA Report,Technical presentation made during the meeting by project proponent. EIA report reveals that baseline environmental study was carried out during the month of April 2016 to June 2016 to determine the

prevailing status of ambient air, land use, noise level topography, meteorology, ecology & socioeconomic outline. Baseline ambient air quality was measured at nine locations. Monitoring was carried out for PM10, PM2.5, SO2, NOx, and VOC within 10 km radius from the project site. The maximum concentrations of PM10, PM2.5, SO2 and NOx at each ambient air monitoring locations were compared with NAAQS for industrial, residential, rural and other areas.Concentration of PM10 ranged from 79.9µg/m3 to 51.50µg/m3. Concentration of PM2.5 recorded from minimum 25.60µg/m3 to maximum 42.3µg/m3.Concentration of SO2 recorded ranged from minimum 13.40µg/m3 to maximum 23.40µg/m3. Concentration of NO2 recorded ranged from minimum 17.80µg/m3 to maximum 23.1µg/m3. Concentration of Cofounded from BDL. Concentration of CO ranged from 40µg/m3 to 60 µg/m3. The incremental Ground Level Concentration (GLC) has been computed using AERMOD model. The maximum 24-hourly average ground level concentration for pollutant due to proposed project calculated using mathematical model AERMOD for PM10, SO2, NOx and resultant values also meets with NAAQ standards. Committee observed that PP has proposed Cyclone for proposed boiler of 1TPH. Unit has provided two stage scrubber to the glass line reaction vessel. Total fuel requirement of White Coal/briquette 52 Mt/Month and Diesel of 25Lit/hr. Total water consumption for proposed project will be 58.5 KLD which will be sourced from GIDC water supply only. Total industrial wastewater generation will be 30 KLD which will be treated in proposed ETP. Generated domestic wastewater of 3.2 KLD will be collected and disposed off through Soak pit. The treated wastewater will be finally discharged into the CETP and membership of CETP of NIA has been obtained by the PP.

- During appraisal, committee found all the TOR addressed satisfactorily except detail of hazardous waste.PP was asked to submit following. (1) Details of spent HCl generation as bleed liquor (Scrubber outlet) with source, quantity and its management considering hazardous and other waste Rules 2016. (1) Detailed Leak Detection and Repairing Programme (LDAR) for curbing release of VOCs in ambient air.
- PP has replied for above mentioned additional details vide their letter on 09/02/2018.
- The proposal was considered in the SEAC meeting dated 26/02/2018. PP has submitted as below: PP has submitted that spent HCL generated from the scrubbing system (50 MT/Month) will be sold out to Actual users or will be sent to ETP for treatment. This waste stream is considered as Hazardous waste. PP has also submitted Leak Detection and Repairing Programme (LDAR) program and corrective and preventive actions to be taken for potential area of solvent or solvent vapour leakage.
- ***Committee observed that compliance of the additional information sought was satisfactory. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.***

12.	SIA/GJ/IND2/20545/2016	**M/s. SHREE VARDHAN INDUSTRIES** Plot no 2406, GIDC - Sarigam, Tal: Umargaon, Dist: valsad-396155, Gujarat	Reconsideration for EC – Appraisal

Project / Activity No.: 5(f)

Project status: New

- PP has submitted online application vide no. SIA/GJ/IND2/20545/2016 dated 26/10/2017 for obtaining Environmental Clearance.
- The SEAC had recommended TOR to SEIAA and SEIAA issued TOR to PP vide letter dated 18/02/2017.
- Project proponent has submitted EIA Report prepared by M/s: Aqua-Air Environmental Engineers Pvt. Ltd.,

Surat based on the TOR issued by SEIAA

- This is an existing unit engaged in Synthetic organic chemicals and now proposes for expansion as tabulated below:

No.	Name of Product	Existing (MT/Month)	Proposed (MT/Month)	Total (MT/Month)	CAS No.	End Use
1	Fumaric Acid	10	101	111	110-17-8	Pharmaceutical Industries, and Resin Industries
2	Ferrous Sulphate	120	--	120	7782-63-0	Wastewater treatment/Agricultural fertilizer
3	Mono Ammonium Phosphate	70	--	70	7722-76-1	Fertilizer
4	Di Ammonium Phosphate	70	--	70	7783-28-0	Fertilizer
5	Poultry Feed	100	--	100	--	Cattle Feed
6	Copper Sulphate	50	--	50	7758-98-7	Electroplating/Pharma /Dyes/ Agricultural
7	Ferrous Sulphate (Dry/Granules Form)	250	--	250	7720-78-7	Pharma
8	Ferrous Fumarate	--	150	150	141-01-5	To treat iron deficiency
9	Zinc Sulphate Monohydrate	--	100	100	7446-19-7	Agricultural fertilizer
10	Ferric Orthophosphate	--	50	50	10045-86-0	Food Nutrition
11	Ferric Pyrophosphate	--	50	50	10058-44-3	Food Nutrition.
12	Sodium Citrate	--	50	50	68-04-2	In Pharma Industries for systemic alkalinising agent.
13	Iron Sucrose	--	20	20	8047-67-4	In Pharma Industries for Supplemented in Vitamin Tablets. And Food Supplement
14	Ferrous Citrate	--	25	25	2338-05-8	Pharma - To treat iron deficiency
15	Ammonium Ferric Citrate	--	25	25	1185-57-5	In Pharma Industries use for Blood Medicine, Iron Deficiency anemia, some anticancer drugs. And also use in Food, Feed Industries.
16	Iron Polysaccharide Complex	--	25	25	541-41-3	In Pharma and Food industries as nutrient supplement
17	Iron (II) Sodium EDTA	--	60	60	15708-41-5	
18	Ferrous Ascorbate	--	25	25	24808-52-4	

19	Iron Dextran	--	20	20	9004-66-4	Pharma - To treat iron deficiency
20	Trichloine Citrate	--	20	20	546-63-4	Pharma
21	Choline Bitartarte	--	70	70	87-67-2	Pharma
22	L lysine HCl		25	25	657-27-2	Feed additive
23	Ferrous gluconate		20	20	299-29-6	Pharma - To treat iron deficiency
Total		**670**	**801**	**1471**		

- The project falls under Category B1 of project activity 5(f)as per the schedule of EIA Notification 2006
- PP was called for presentation in the SEAC meeting dated 18/01/2018.
- Salient features of the project are as under::

Sr. no.	Particulars	Details
A	**Water**	
i	Source of Water Supply (GIDC, Bore well, Surface water etc...)	GIDC Water Supply
	Status of permission from the concern authority. Please refer Annexure-2.	
ii	Water consumption (KL/day)	

	Existing KL/day	Proposed (Additional) KL/day	Total after Expansion KL/day	Remarks
(R) Domestic	1.0	2.0	3.0	
(S) Gardening	0.0	1.0	1.0	
(T) Industrial				
Process	2.0	13.0	15.0	
Washing	0.0	3.0	3.0	
Boiler	0.0	10.0	10.0	
Cooling	0.0	14.0	14.0	
Others	0.0	3.0	3.0	
Total (A+B+C)			49	

iii Waste water generation (KL/day)

Category	Existing KL/Day	Proposed (Additional) KL/day	Total after Expansion KL/day	Remarks
(L) Domestic	0.6	1.8	2.4	
(M) Industrial				
Process	1.5	9.5	11.0	
Washing	0.0	3.0	3.0	
Boiler	0.0	1.0	1.0	
Cooling	0.0	2.0	2.0	
Others	0.0	3.0	3.0	
Total Industrial waste water	2.1	20.3	22.4	

iv	Treatment facility with **capacity** (ETP, CETP, MEE, STP etc).	Effluent Treatment Plant Consists Primary & Secondary Treatment
v	Mode of Disposal & Final meeting point	Domestic: 2.4 KL/Day (Existing - 0.6 KL/Day + Proposed -1.8 KL/Day) --> Septic Tank/Soak Pit
		Industrial: 20.0 KL/Day (Existing - 1.5 KL/Day +

		Proposed -18.5 KL/Day) --> After treatment, treated effluent will be sent to CETP, Sarigam for further treatment.
vi	Reuse/Recycle details (KL/day)	--
B	**Air**[Existing & Proposed]	
i	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	

-

SR. no.	Source of emission With Capacity e.g. Boiler (8 TPH)	Stack Height (meter)	Name of the fuel	Quantity of Fuel MT/hr& MT/Day	Type of emissions i.e. Air Pollutants	APCM	Emission Standard
1	Steam Boiler Capacity: 1000 Kg/hr	20	Natural Gas	2000 SCM/Day	SPM SO2 NOx	--	150 mg/Nm3 262 mg/Nm3 94 mg/Nm3
2.	D. G. Set: Stand By Capacity : 250 KVA	10	HSD	25 Lit/Hr		--	

-

ii	Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_xetc.) [Existing & Proposed]	

-

Sr. no.	Source of emission	Type of emission	Stack/Vent Height (meter)	APCM	Emission Standard
1	Process Vent-I	HCl	11	Water Scrubber	20 mg/Nm3
2	Process Vent-II	NH3	11	Water + HCL Scrubber	175 mg/Nm3

-

v Fugitive emission details with its mitigation measures.
[Existing & Proposed]-

Following measures will be adopted to prevent and control fugitive emissions…

1. Airborne dust at all transfers operations/ points will be controlled either by spraying water or providing enclosures.
2. Care will be taken to store construction material properly to prevent fugitive emissions, if any.
3. Regular maintenance of valves, pumps, flanges, joints and other equipment will be done to prevent leakages and thus minimizing the fugitive emissions of VOCs.
4. Entire process will be carried out in the closed reactors with proper maintenance of pressure and temperature.
5. Periodic monitoring of work area will be carried out to check the fugitive emission.
6. Breather valves will be provided on solvent tanks.
7. Solvent tank vents will be connected to vent chillers.
8. To eliminate chances of leakages from glands of pumps, mechanical seal will be provided at all solvent pumps.
9. Close feeding system will be provided for centrifuges. Centrifuge and filtrate tank vents will be connected to vent chillers.
10. Minimum number of flanges, joints and valves in pipelines.
11. Enclosures to chemical storage area, collection of emission from loading of raw materials in particular solvents through hoods and ducts by induced draft, and control by scrubber / dust collector to be ensured.
12. Nitrogen blanketing will be provided, besides special care needs to be taken for control in

respect of odorous chemicals.

C Hazardous waste

(as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.[Existing & Proposed]

i

Sr. no.	Type/Name of Hazardous waste	Source of generation	Category and Schedule as per HW Rules.	Quantity (MT/Annum)	Disposal Method
1	Used Oil	Equipment & Machineries	5.1	0.2 MT/Year	Collection, Storage, Transportation & Sent to GPCB approved refiners
2	Discarded barrels/ containers/ liners	Raw Materials & Products	33.1	5 MT/Year i. e.250 Nos./Month	Collection, Storage, Transportation & Sent back to supplier / GPCB approved vendor
3	ETP Sludge	ETP	35.3	48 MT/Month	Collection, Storage, Transportation & Disposal at TSDF site
4	Distillation Residue	Process	36.1	24 MT/Year	Collection, Storage, Transportation & co-processing in cement industries or Incineration at common incineration facility
5	Inorganic Salt	Process	26.1	2400 MT/Year	Collection, Storage, Transportation & Disposal at TSDF site
6	Ammonium Sulphate	Process	--	3000 MT/Year	Collection, Storage, Transportation & sale to end users.

Quantity of discarded containers must be in **MT/Annum**.

ii	Membership details of **CETP, TSDF, CHWIF, Common MEE** etc.	CETP membership is referred as Annexure-3. TSDF/CHWIF membership is referred as Annexure-4.
ii	Details of Non-Hazardous waste & its disposal (MSW and others)	--
D		

i **Solvent management** (If any)

Details of Solvent recovery (As per respective ToR)

Name of Solvent	Total Input (Kg)	Qty. of Recovered Solvent (Kg)	Qty. of Losses (Kg)	% Recovery	% Losses
Methanol	10000	9600	400	96.0	4.0
Iso Propyl Alcohol	5000	4650	350	93.0	7.0

ii VOC emission sources and its mitigation measures

Atmospheric Distillation of Solvents:

Primary Condenser HE-01: Cooling Tower water will be used to condense the solvents and the non-condensed vapors will be condensed in a Secondary Condenser.

Secondary Condenser HE-02: Chilled water at 6 ^{0}C will be used to condense the non-condensed vapors in the Secondary Condenser.

VOC Trap Condenser HE-03: Chilled Brine at -35 ^{0}C will be used to trap any traces of Solvent which is slipped from Secondary condenser.

Vacuum distillation of Solvent:

Primary Condenser HE-01: Cooling Tower water or Chilled water will be used to condense the solvents depend on the vapor pressure at its operating conditions and the non-condensed vapors will be condensed in a Secondary Condenser.

	Secondary Condenser HE-02: Chilled Brine at -17 ^{0}C will be used to condense the non-condensed vapors in the Secondary Condenser. **VOC Trap Condenser HE-03:** Chilled Brine at -35 ^{0}C will be used to trap any traces of Solvent which is slipped from Secondary condenser.

- The project proponent along with their experts/consultants attended the meeting of the SEAC held on 18/01/2018.During the meeting, the project was appraised based on the information furnished in the EIA Report. Technical presentation made during the meeting by project proponent. Since proposal is for expansion, compliance of CCA, action initiated by the GPCB were discussed and found satisfactorily addressed. PP mentioned that there is no public compliant and there is no litigation pending against unit before any court of law. EIA report reveals that baseline environmental study was carried out during the month of March 2017 to May 2017 to determine the prevailing status of ambient air, land use, noise level topography, meteorology, ecology & socioeconomic outline. Baseline ambient air quality was measured at nine locations. Monitoring was carried out for PM10, PM2.5, SO2, NOx, and VOC (isobutylene) within 10 km radius from the project site. The maximum concentrations of PM10, PM2.5, SO2 and NOx at each ambient air monitoring locations were compared with NAAQS for industrial, residential, rural and other areas. Concentration of PM10 ranged from 70.24µg/m3 to 82.36 µg/m3. Concentration of SO2 recorded ranged from minimum 13.51µg/m3 to maximum 19.15µg/m3. Concentration of NO2 recorded ranged from minimum 10.08µg/m3 to maximum 16.48µg/m3. Concentration of HCL founded BDL. Concentration of NH3 ranged from 1.2µg/m3to 6.8µg/m3.The incremental Ground Level Concentration (GLC) has been computed using ISC-AERMOD View" by Lakes Environmental, Canada. The maximum 24-hourly average ground level concentration for pollutant due to proposed project calculated using mathematical model (ISCST3) for PM10, SO2, NOx and resultant values also meets with NAAQ standards . Committee observed that PP has proposed Dust collector for proposed Steam Boiler. Unit has also proposed alkali Scrubber for proposed process gas emission. Total fuel requirement of wooden waste/ white coal/ imported coal 1 MT/day and Diesel of 7Lit/Hr. Total water consumption after expansion will be 49 KLD which will be sourced from GIDC water supply. Total wastewater generation will be 22.40 KLD. Generated domestic wastewater of 2.40 KLD will be disposed to soak pit. Industrial waste water after treatment will be sent to CETP, Sarigam. Adequacy of proposed area with reference to the proposed expansion was discussed in depth. Considering storage of inventory with limited space availability in the premises, it was decided to allow project by allowing any two proposed product at any point of time considering lower area availability of the premises.
- During appraisal, committee found all the TOR addressed satisfactorily except detail of hazardous waste.PP was asked to submit following. It was decided by the Committee that uponsubmission of the following details, proposal will be considered in one of the upcoming meeting. (1) Details of spent HCl generation as bleed liquor (Scrubber outlet) with source, quantity and its management considering hazardous and other waste Rules 2016. (2) Details of spent solvent generation as bleed liquor with source, quantity and its management considering hazardous and other waste Rules 2016. (3) Undertaking of manufacturing any two proposed product at any point of time having upper cap of 250 MTPM keeping proposed product profile in view with no wood to be used as fuel.
- PP has replied for above mentioned additional details vide their letter on 20/02/2018.
- The proposal was considered in the SEAC meeting dated 26/02/2018. PP has submitted as under: Spent HCL will be generate from the scrubbing system and quantity will be 30 KL/Month. Company will send spent HCl to ETP for treatment purpose. Then treated effluent will be sent to CETP, Sarigam for further treatment. PP has submitted details of spent solvent generation as bleed liquor with source, quantity and its management considering hazardous and other waste rules, 2016. PP has also submitted an undertaking of manufacturing any two proposed product at any point of time having upper cap of 250 MTPM keeping proposed product profile in view with no wood to be used as fuel.
- ***Committee observed that compliance of the additional information sought was found satisfactory.***

After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.

13.	SIA/GJ/IND2/18485/2017	**M/s. Prima Chemicals Unit III** Plot no: 337, 338. GIDC Odhav, Ahmedabad.	Reconsideration for EC – Appraisal

Project / Activity No.: 5(f)

Project status: Expansion

- PP has submitted online application vide no. SIA/GJ/IND2/18485/2017 dated 03/11/2017 for obtaining Environmental Clearance.
- The SEAC had recommended TOR to SEIAA and SEIAA issued TOR to PP vide letter dated 01/05/2017.
- Project proponent has submitted EIA Report prepared by M/s: Ramans Enviro Services Pvt. Ltd, Ahmedabad based on the TOR issued by SEIAA
- This is an existing unit engaged in Synthetic organic chemicals and now proposes for expansion as tabulated below:

Sr. No.	Name of Products	Existing (MT/Month	Proposed (MT/Month)	Ultimate (MT/Month)	CAS No	End User
Group No.-1						
1	1- Phenyl 3 methyl 5 Pyrazolone				89-25-8	**Used as an Intermediate for Manufacturing of dyes.**
2	Para Tolyl-3 methyl 5 Pyrazolone				86-92-0	
3	1-(3-Chlorophenyl)-3 methyl 5-Pyrazolone				90-31-3	
4	3- methyl 5-Pyrazolone				108-26-9	
5	1-2 methyl 4-sulphophenyl 3 methyl 5-Pyrazolone			**40.00**	118-07-0	
6	1-3 sulphoamido phenyl 3 methyl 5-Pyrazolone	**30.00**	**40.00**		89-29-2	
7	1-4 sulphoamido phenyl 3 methyl 5-Pyrazolone				13269-73-3	
8	1-Phenyl 3-methyl 5 amino Pyrazolone				1131-18-6	
Group No.-2						
1	1-3 sulphophenyl 3 methyl 5 Pyrazolone				119-17-5	
2	1-4 sulphophenyl 3 methyl 5 Pyrazolone			30.00	89-36-1	
Total		**30.00**	**40.00**	**70.00**	**-**	

- The project falls under Category B1 of project activity 5(f) as per the schedule of EIA Notification 2006
- PP was called for presentation in the SEAC meeting dated 19/01/2018.
- Salient features of the project are as under:

Sr.	Particulars	Details

no.		
A	**Water**	
i	Source of Water Supply (GIDC, Bore well, Surface water etc...)	GIDC
	Status of permission from the concern authority.; request letter for increase in water supply has been submitted to GIDC	
ii	Water consumption (KL/day)	

	Existing KL/day	Proposed (Additional) KL/day	Total after Expansion KL/day	Remarks
(U) Domestic	1.5	0.5	2.0	--
(V) Gardening	0.00	0.00	0.00	--
(W)Industrial				
Process	8.0	10.0	18.0	--
Washing	0.5	1.5	2.0	--
Boiler	1.0	1.0	2.0	--
Total (A+B+C)			24.00	

iii Waste water generation (KL/day)

Category	Existing KL/Day	Proposed (Additional) KL/day	Total after Expansion KL/day	Remarks
(N) Domestic	1.0	0.2	1.2	● To septic Tank
(O) Industrial				
Process	7.0	7.6	14.6	● 12 KLD Dilute stream will be sent to CETP ● 5 KLD Concentrated Stream will be sent to Common Spray Dryer.
Washing	0.5	1.5	2.0	
Boiler	0.2	0.2	0.4	
Total Industrial waste water	**7.7**	**9.3**	**17.0**	
Spent acid	9.3	1.2	10.50	● Sent to Novel

iv	Treatment facility with **capacity** (ETP, CETP, MEE, STP etc).	In-house Primary Treatment, Send to CETP :@12 KLD Send to Common Spray Dryer : @5 KLD Send to Novel:@10.5KLD
v	Mode of Disposal & Final meeting point	Domestic: 1.2 KLD Industrial: 17.0 KLD
vi	Reuse/Recycle details (KL/day)	--
B	**Air** [Existing & Proposed]	
i	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	

-

SR. no.	Source of emission With Capacity e.g. Boiler	Stack Height (meter)	Name of the fuel	Quantity of Fuel MT/hr& MT/Day	Type of emissions i.e. Air Pollutants	APCM	Emission Standard
1	Steam Boiler (800 kg/hr)	12	Natural Gas	10 SCM/hr	PM SO_2 NO_X	Adequate Stack Height	150 mg/Nm^3 100 ppm 50 ppm
2	Thermic Fluid Heater (12 Lack KCal)						

	3	D.G.Set (75 kVA)	9	Diesel	17.5 L/hr			

-

ii Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_x etc.)
[Existing & Proposed]

Sr. no.	Source of emission	Type of emission	Stack/Vent Height (meter)	APCM	Emission Standard
1	Reaction Vessels (3 Nos.)	SO_2	12	Two Stage Alkali Scrubber	40 mg/Nm^3
2	Reaction Vessels (1 No.)				
3	Fluid bed steam dryer (2 No.) (closedsystem)	PM	11	Bag Filter	150 mg/Nm^3

v Fugitive emission details with its mitigation measures.
[Existing & Proposed] : Covered in Final Rapid EIA report in section 2.12.3 in chapter -2.

C **Hazardous waste**
(As per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
[Existing & Proposed]

i

Sr. no.	Type/Name of Hazardous waste	Source of generation	Category and Schedule as per HW Rules.	Quantity (MT/Annum)	Disposal Method
1	ETP Sludge	From ETP Plant	35.3	40 MT/month	Collection, Storage, Transportation & Disposal to TSDF.
2	Used Oil	Plant & Machinery	5.1	5 L/month	Collection, Storage, Transportation & Disposal by sale to registered re-cycler.
3	Discarded Container/Liners	Raw materials	33.1	15 Nos/month (300 Kg/M)	Collection, Storage, Transportation & Disposal by sale to registered re-cycler.
4	Process Sludge	From Process	26.1	0.650 MT/Month	Collection, Storage, Transportation & Disposal to CHWIF.
5	Spent Acid	From Process	26.3	12.8 MT/day (@10.5 KLD)	Collection, Storage, Transportation & Disposal by sale to registered recycler/Novel
6	Distillation residue	From Process	20.3	50 Kg/Year	Collection, Storage, Transportation & Disposal to CHWIF of NECL.

Quantity of discarded containers must be in **MT/Annum**.

ii	Membership details of **CETP, TSDF, CHWIF, Common MEE** etc.	CETP, TSDF, CHWIF, Common Spray Dryer are covered in EIA report
ii	Details of Non-Hazardous waste & its disposal (MSW and others)	--
D		
i	**Solvent management** (If any) Details of Solvent recovery (As per respective	Covered in Final Rapid EIA report in section 2.16 in chapter -2.

	ToR)	
ii	VOC emission sources and its mitigation measures	Covered under section 3.3.3 in Chapter 3 of Final rapid EIA report

- During the meeting dated 19/01/2018, technical presentation made during the meeting by project proponent.
- During the meeting, the project was appraised based on the information furnished in the EIA Report and details presented before the committee.
- The baseline environmental quality has been assessed for various components of the environment viz. air, noise, water, biological and socioeconomic aspect. The baseline environmental study has been conducted for the study area of 10 km radial distance from project site for the period March 2017 to May 2017. Ambient Air Quality monitoring was carried out for PM10, PM2.5, SO2, NOx, HCl and VOC at 6 locations, including the project site. Values conform to the prescribed standards for Ambient Air Quality. The incremental Ground Level Concentration (GLC) has been computed using AERMOD. The resultant concentrations are within the NAAQS.
- Committee observed that PP has proposed Natural gas as fuel so no required APCM. Unit has provided two stage alkali scrubbers to reaction vessels and bag filter to fluid bed steam dryer. The total industrial water consumption will be 24 KLD which will be sourced from GIDC only. The industrial wastewater generation will be 17 KLD. The dilute stream of 12 KLD will be sent to CETP and concentrated stream of 5 KLD will be sent to common spray dryer. The domestic wastewater will be finally discharged into the septic tank. Spent acid of 10.5 KLD will be sent to NOVEL. After deliberation, it was unanimously decided to consider the project for further consideration only after submission of the following: (1) Action plan for additional waste water generation considering 18 (1) (b) directions under the Water Act 1974 imposed by CPCB on CETP. (2) Latest certificate from NOVEL with additional quantity i.e. 10.5 KL/day spent sulphuric acid. (3) Green belt / adequate plantation on road sides and suitable open areas in consultation with the GIDC/ local authority / GPCB and submit an action plan of plantation fornext three years to the GPCB.
- PP has replied for above mentioned additional details vide their letter dated 23/02/2018.
- The proposal was considered in the SEAC meeting dated 26/02/2018.
- PP has submitted as under: Wastewater to be sent to CETP after expansion will not exceed beyond the present consented quantity and it will in compliance considering 18 (1) (b) directions under the Water Act 1974 imposed by CPCB on CETP.
- PP has submitted revalidated certificate dated 22nd January 2018 obtained from NOVEL, Vatva for spent Sulphuric acid. They have already finalized the location for compensatory plantation by group companies of Prima Chemicals having an area of @ 2000 sq meter .The location is the premises of Ambaji Temple at VIlageKanij, DistMehmedabad. The gram Panchayat has agreed in principle for the same and the agreement is executed between Prima Chemical group of company and Kanej gram panchayat on 25/1/2018. Group Company will allocate the annual budgetary provision of @ Rs 1.0 lac/Annum for first five years for development of and maintenance of the greenbelt and will continue to maintain further. The detailed greenbelt development plan with proposed annual cost estimates is submitted.
- ***Committee observed that compliance of the additional information sought was satisfactory. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.***

14	SIA/GJ/IND2/20191/2017	**M/s: Kunder Chemicals Pvt. Limited** Plot No.- 316/A, 2nd Phase area, GIDC Notified Industrial Vapi, Ta: Vapi, Dist-Valsad 396 195. Gujarat.	Reconsideration for EC – Appraisal

Project / Activity No.: 5(f)

Project status: New

- PP has submitted online application vide no. SIA/GJ/IND2/20191/2017 dated 03/11/2017 for obtaining Environmental Clearance.
- The ToR was issued by MoEF&CC, New Delhi vide letter no. J-11011/174/2017-IA.II (I) dated: 30/05/2017.
- Project proponent has submitted EIA Report prepared by M/s: Eco Chem Sales & Services, Surat based on the TOR issued by MoEF&CC.
- Project site is located within the Notified area of Vapi. Distance of common boundary between Gujarat and UT- Daman, Diu and Dadra Nagar Haveli is less than 5 Km from the proposed site. However, referring to the letter received from (1) Member Secretary, PCC, Daman, Diu and Dadra Nagar Haveli, Daman vide dated 23/06/2016 and (2) Administration of Dadra and Nagar Haveli, U.T. (Survey and Settlement Department) vide dated 20/07/2017, General Condition (GC) of the EIA Notification 2006 as amended is not applicable in this instant proposal and this proposal is considered as Category B project.
- This is an existing unit engaged in Synthetic organic chemicals and now proposes for expansion as tabulated below:

Sr. No.	**Name of the Products**	**CAS no.**	**Quantity MT/Month**			**End-use of product**
			Existing	**Proposed**	**Total**	
1.	Copper Phthalo Cyanine Green	1328-53-6	20	80	100	Used in inks, coatings, many plastics, printing ink and packaging industry
2.	Pigment Beta Blue 15.3 & 15.4	147-14-8	0	100	100	
3.	Pigment Emulsions/ Dispersions	---	0	100	100	Used in textile, paint, detergent paper, ink industry, soap industry and many others.
	Total	**---**	**20**	**280**	**300**	

- The project falls under Category B1 of project activity 5(f)as per the schedule of EIA Notification 2006
- PP was called for presentation in the SEAC meeting dated 19/01/2018.
- Salient features of the project are as under::

Sr. no.	Particulars	Details
A	**Water**	
i	Source of Water Supply (GIDC, Bore well, Surface water etc...)	**GIDC Water Supply**
	Status of permission from the concern authority. **Water permission letter dated 23/09/2016by GIDC.**	
ii	Water consumption (KL/day)	

Category	Existing KL/Day	Proposed (Additional) KL/day	Total after Expansion KL/day	Remarks
(P) Domestic	5.0	5.0	10.0	
(Q) Industrial				

Processing & Washing	35.5	295.65	331.15	
Boiler	12.0	18.0	30.0	
Cooling	5.0	5.0	10.0	
Floor/container/equipment washing	5.0	5.0	10.0	
Scrubber	0.5	2.19	2.69	
Total	1.0	1.0	2.0	
Total Industrial water	**64.0**	**331.84**	**395.84**	

iii Waste water generation (KL/day)

	Existing KL/day	Proposed (Additional) KL/day	Total after Expansion KL/day	Remarks
(X) Domestic	4.0	4.0	8.0*	
(Y) Gardening				
(Z) Industrial				
Processing & Washing	31.5	252.35	283.85	
Boiler	2.0	8.0	10.0	
Cooling	1.0	1.0	2.0	
Floor/container/ equipment washing	5.0	5.0	10.0	
Scrubber	0.5	-0.05	0.45	
Total	**44.0**	**270.3**	**314.3**	
Total Industrial waste water	**40.0**	**266.3**	**306.3**	

iv	Treatment facility with **capacity** (ETP, CETP, MEE, STP etc).	**Domestic Effluent:** 8 KLD sewage will be generated, which will treated in septic tank and overflow will be taken to ETP
		Industrial Effluent: Total industrial Waste Water Generation is 306 KL/Day and entire industrial effluent will be treated in proposed modified effluent treatment plant consisting of primary and secondary treatment unit and discharge into underground effluent drainage line to CETP for further treatment
v	Mode of Disposal & Final meeting point	Domestic: Treated in septic tank and overflow will be taken to ETP
		Industrial: Disposed off into CETP for further treatment.
vi	Reuse/Recycle details (KL/day)	---
vii		
B	**Air** [Existing & Proposed]	
i	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	

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S R. no .	**Source of emission With Capacity e.g. Boiler (8 TPH)**	**Stack Height (meter)**	**Name of the fuel**	**Quantity of Fuel MT/hr& MT/Day**	**Type of emissions i.e. Air Pollutants**	**APCM**	**Emission Standard**
1	**Capacity of steam boiler: I (0.6 TPH)**	11 meters	Natural gas	20 SCM/Hr	Process Stack Pollutants : SO_2, HCl, NH_3, Cl_2,	-	PM: <150 mg/Nm^3 SO_X: < 100 ppm NO_X: < 50 ppm
2	**Capacity of steam boiler: II (0.6 TPH)**	11 meters	Natural gas	20 SCM/Hr			

	3	**Capacity of Thermopack: I (4 lacs k cal)**	11 meters	Natural gas	35 SCM/Hr	NO_x etc.)		
	4	**Capacity of Thermopack: II (4 lacs k cal)**	11 meters	Natural gas	35 SCM/Hr			
	5	**Capacity of D G set(187.5) (Stand By)**	11 meters	HSD	8 kgs/hr			
	6	**Capacity of steam boiler: III (4 TPH)**	11 meters	Natural gas	120 SCM/Hr			

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ii Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_x etc.)
[Existing & Proposed]

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1	**Chlorinator & drowning vessel (Existing)**	11 meters			HCl: <20 mg/Nm^3 Cl2 : < 9 mg/Nm^3	Three stage water followed by alkali scrubber	
	Chlorinator & drowning vessel (Proposed)	11 meters				Three stage water followed by alkali scrubber	
2	**Spin Flash dryer**	11 meters			PM: <150 mg/Nm^3	Cyclone separator followed by bag filter	

-

v Fugitive emission details with its mitigation measures.
[Existing & Proposed]

C **Hazardous waste**
(as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
[Existing & Proposed]

i

Sr. no.	Type/Name of Hazardous waste	Source of generation	Category and Schedule as per HW Rules.	Quantity (MT/Annum) (After Expansion)	Disposal Method
1.	Used oil		(5.1)	1.0	Sell to registered re-refiner
2.	Discarded containers		(33.1)	20.0	Sell to authorized recycler
3.	Inorganic Acid		(26.3)	1000	Sell to actual & authorized users
4.	ETP waste,		(35.3)	300	Dispose off into TSDF, Vapi
5.	Aluminum Chloride Soln.		(SCH: II, B10)	14400	Sell to actual & authorized users

Quantity of discarded containers must be in **MT/Annum**.

ii	Membership details of **CETP, TSDF, CHWIF, Common MEE** etc.	We have already received CETP as well as TSDF Membership Certificate of Vapi Green Enviro Limited with Certificate No.: VGEL/2016-2017/0144-15 dated:03/05/2016
Ii	Details of Non-Hazardous waste & its disposal (MSW and others)	**-------**
D		
I	**Solvent management** (If any) Details of Solvent recovery (As per respective ToR)	**-------**
Ii	VOC emission sources and its mitigation measures	**Source:** **-------** **Mitigation Measures:** **-------**

- During the meeting dated 19/01/2018, technical presentation made by project proponent. During the meeting, the project was appraised based on the information furnished in the EIA Report and details presented during the meeting. The baseline environmental quality has been assessed for various components of the environment viz. air, noise, water, biological and socioeconomic aspect. The baseline environmental study has been conducted for the study area of 10 km radial distance from project site for the period March 2017 to May 2017. Ambient Air Quality monitoring was carried out for PM10, PM2.5, SO2, NOx, HCl and VOC at 8 locations, including the project site. Values conform to the prescribed standards for Ambient Air Quality. The incremental Ground Level Concentration (GLC) has been computed using AERMOD. The resultant concentrations are within the NAAQS
- The detail proposed safeguard measures including On-Site / Off-Site Emergency Plan has been covered in the RA report.
- Total industrial Waste Water Generation is 306 KL/Day and entire industrial effluent will be treated in proposed modified effluent treatment plant consisting of primary and secondary treatment unit and discharge into underground effluent drainage line to CETP for further treatment.
- After detailed discussion, it was decided to consider the project further only after submission of the following:
    1. Action plan for additional waste water generation considering 18 (1) (b) directions under the Water Act 1974 imposed by CPCB on CETP. Zero Liquid Discharge scheme in this regard.
    2. Qualitative and quantitative analysis of hazardous waste streams Spent HCl, Spent Aluminum Chloride etc. generation from the manufacturing process/scrubbing system and its feasibility report for reuse within premises. Worst case scenario shall be considered for generation of wastes streams. Explore the possibilities to complete reuse of above mentioned hazardous wastes streams within premises.
- PP has replied for above mentioned additional details vide their letter on19/02/2018.
- The proposal was considered in the SEAC meeting dated 26/02/2018.PP has submitted as under:
- Action plan to maintain existing effluent load as per existing CCA issued by GPCB and no additional discharge into CETP after proposed expansion. Presently, they are generating 40 m3/day of industrial effluent, which is treated in their own ETP and finally discharge into CETP for further treatment and disposal. For the discharge of 40 m3/day of industrial effluent they are having valid CCA of the board.
- After proposed expansion, there will be increased in industrial waste water by 266.3 m3/day. To maintain

existing industrial effluent discharge considering 18 (1) (b) directions under the Water Act 1974 imposed by CPCB on CETP, they proposed to provide RO followed by MEE for additional effluent treatment.

- Details of revised water consumption, waste water generation along with water balance diagram, hazardous waste generation and revised details of effluent treatment plant/RO/MEE are submitted.
- After proposed expansion, they will generate maximum 1000 MT/Anum of hydro Chloric acid (30%) and 14400 MT/Anum of Aluminium Chloride solution (8-12%) from the scrubbing of chlorine gas and process respectively.
- They are not using hydro chloric acid in the process and also using aluminium chloride powder (100%) in CPC green product.Hence there are no possibilities to reuse/recycle both the said hazardous waste.
- They will sell both the hazardous waste having authorization under hazardous waste rule 2016.
- PP has proposed to sell hydro chloric acid (30%) to actual and authorized users for the manufacture of Calcium chloride powder and aluminium chloride solution (8-12%) to actual and authorized users for the manufacture of Poly Aluminium Chloride solution.
- ***Committee observed that compliance of the additional information sought was satisfactory. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.***

15	SIA/GJ/IND2/17591/2015	**M/s. Sika India Private Limited** Plot no. 916, GIDC Jhagadia, Ta- Jhagadia, Dist – Bharuch.	Reconsideration for EC – Appraisal

Category of the Project: 5(f)

Project Status: Expansion

- This office has received an application vide their online proposal no. SIA/GJ/IND2/20698/2017 dated 26/10/2017 for obtaining Environmental Clearance.
- The SEAC had recommended TOR to SEIAA andSEIAA issued TOR to PP vide their letter dated 18/02/2017.
- Project proponent has submitted EIA Report prepared by M/s: Kadam Environmental Consultants, Vadodara; based on the TOR issued by SEIAA.
- Public Hearing for the project is exempted as per paragraph 7(i) (III) (i) (b) of the EIA Notification, 2006 since the project site is located in the Notified Industrial area.
- This is an existing unit engaged in Synthetic organic chemicals and now proposes for expansion as tabulated below:

Sr. No.	Name of the Products	CAS no.	Quantity MT/Annum			End-use of product
			Existing	Proposed	Total	
1	Concrete Admixture Products		90000	0	90000	Construction chemicals
2	Cementitious Mortar (Powder) Products		60000	0	60000	
3	Epoxy Resin based Industrial Flooring, Adhesives & Grouts Products		15000	0	15000	
4	Polymer MR (Medium Range Polymer)		1250	-1250	0	
5	Membrane (Liquid		3000	0	3000	

	Applied Membrane Poly Urathrene, Poly Vinyl Chloride &Waterbar)					
6	Sealant (Poly Sulphide)		1500	0	1500	
7	Polymer (PCE)		0	10000	10000	
8	Trading Products (Construction Chemicals)		0	1800	1800	

- The project falls underCategory B of project activity 5(f) asper the schedule of EIA Notification 2006.
- PP was called for presentation in the SEAC meeting dated 24/01/2018.
- Salient features of the project are as under:

Sr. no.	Particulars	Details
A	**Water**	
i	Source of Water Supply (GIDC, Bore well, Surface water etc...)	GIDC
	Status of permission from the concern authority.: Permission is taken and attached as Annexure 14 in EIA Report	
ii	Water consumption (KL/day)	

	Existing KL/day	Proposed (Additional) KL/day	Total after Expansion KL/day	Remarks
(AA) Domestic	4.5	3.5	8	
(BB) Gardening	30	-	30	
(CC)				
Process	72	1.5	73.5	
Washing	3	0.5	3.5	
Boiler	2	-	2	
Cooling	0	0	0	
Others				
Total (A+B+C)	111.5	5.5	117	8.4 KL water will be recycled water

iii Waste water generation (KL/day)

Category	Existing KL/Day	Proposed (Additional) KL/day	Total after Expansion KL/day	Remarks
(R) Domestic	3.6	1.4	5	
(S) Industrial				
Process	0	-	0	
Washing	3	0.5	3.5	
Boiler	0.2	-	0.2	

Cooling	0	0	0	
(T) Others				
CPU Regeneration				
Backwash from Raw Water Treatment Plant				
DM Regeneration &				
Recycle water from RO, UF & Boiler blow down				
Total Industrial waste water	6.8	1.9	8.7	

iv	Treatment facility with **capacity** (ETP, CETP, MEE, STP etc).	Existing ETP is of 10 KLD is adequate to treat 8.7 KLD waste water.
v	Mode of Disposal & Final meeting point	Domestic along with Industrial wastewater will be sent to ETPfor treatment and treated water will be used for plantation
vi	Reuse/Recycle details (KL/day)	8.4 KLD
B	**Air** [Existing & Proposed]	
i	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	

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SR. no.	**Source of emission With Capacity e.g. Boiler (8 TPH)**	**Stack Height (meter)**	**Name of the fuel**	**Quantity of Fuel MT/hr& MT/Day**	**Type of emissions i.e. Air Pollutants**	**APCM**	**Emission Standard**
As per EC Received							
1	Boiler stack* operates max 8 hrs/day	9	HSD or Natural Gas	15 - 20 Lit/hr or 16.5 - 22 m3/hr	SO_2, NOx, PM	Adequate Stack Height	80 µg/m^3 80 µg/m^3 100µg/m^3
2	DG stack* 630 KVA- 2 nos. – Only as stand by when Power goes off (will be removed)	9	HSD or Natural Gas	260 Lit/hr or 290 m3/hr			
3	Sand Dryer * Only in Monsoon/winter season @ 6-8 hours/Day	21	HSD or Natural Gas	70 - 80 Lit/hr or 90 m3/hr			
Amendment Required for (Total after amendment)							
1	DG stack* 750 KVA- 1 nos. – Only as stand by when Power goes off	10.5	HSD	154 Ltr/Hr	SO_2, NOx, PM	Adequate Stack Height	80 µg/m^3 80 µg/m^3 100µg/m^3

ii	Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_x etc.) [Existing & Proposed]
	-

Sr. no.	Source of emission	Type of emission	Stack/Vent Height (meter)	APCM	Emission Standard
As per EC received					
1	Mortar plant with vents (2 Nos.)	PM	28	Bag Filter	100µg/m^3
2	Admixture Plant	PM	11	Water Scrubber	100µg/m^3
3	Industrial Flooring, Coatings and Adhesives plant	PM	11	Bag Filter	100µg/m^3
4	Industrial Flooring, Coatings and Adhesives plant include	HC	11	Carbon Active Filter	100µg/m^3
5	Concrete Lab	PM	11	Bag Filter	100µg/m^3
6	Polymer MR Plant (To be Replaced with Polymer (PCE) Plant)	PM	11	Water scrubber	100µg/m^3
7	Membrane Plant	PM	11	Bag filter	100µg/m^3
8	Sealant Plant	HC	11	Carbon Active Filter	100µg/m^3
proposed					
	Polymer (PCE) Plant (In place of Polymer MR Plant)	PM	11	Water scrubber	100µg/m^3

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v Fugitive emission details with its mitigation measures.
[Existing & Proposed]
Fugitive emission or level from various process units are confirmed to the standards fromtime to time. In the event of failure of pollution control systems adopted by the unit, the respective unit is restarted until the control measures are rectified to achieve the desired efficiency.

C **Hazardous waste**
(as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
[Existing & Proposed]

i

Sr. no.	Type/Name of Hazardous waste	Source of generation	Category and Schedule as per HW Rules.	Quantity (MT/Month)			Disposal Method
				As per EC received	Addition	Amendment Required	
1	Used/Spent oil	Sale to GPCB Approved vender	5.1	0.1	-	0.1	Used oil Generation from Transformer, Forklift and motors
2	Discarded containers / barrels / liners contaminated with hazardous	Sale to the approved vender by GPCB	33.1	25	10	35	Containers/barrels/drums will be generated during the production as all raw materials used in process are comes in drum/barrels

	waste / chemicals						and the quantity of wastes depends upon the production.
3	Contaminated aromatic, aliphatic or naphthenic solvents may or may not be fit for reuse	For Incineration to Approved TSDF/ to be Sold approved recyclers	20.1	20	0.5	20.5	Expired Raw materials, waste solvent generated from cleaning of epoxy blenders etc.
4	Process Waste Residue & Sludge	For Incineration to Approved TSDF	21.1	30	0.3	30.3	Expired material comes to plant for disposal, Off grade (Off quality) material generated during manufacturing process .Waste generated during processing of pigments in Epoxy plant. Approximate 1 % of the production
5	Waste Residue (Resin)	For Landfill to Approved TSDF	23.1	30	0.3	30.3	Expired material comes to plant for disposal, Off grade (Off quality) material generated during manufacturing process .Waste generated during processing of admixture & Powder plant. Approximate 0.5 % of the production
6	Flue gas cleaning residue	For Landfill to Approved TSDF	35.1	0.1	-	0.1	Waste generated from Boiler Stack
7	Chemical sludge from waste water treatment	For Landfill to Approved TSDF	35.3	0.2	0.1	0.3	Sludge generated from the ETP
8	Used Filter	For Landfill to Approved TSDF	36.2	0.004	-	0.004	Waste generated during the production
9	Expire Products or off specification	For Landfill to Approved TSDF	28.5	0	3.33	3.33	Expired material comes to plant for disposal, Off grade (Off quality) material generated during manufacturing process

Quantity of discarded containers must be in **MT/Annum**.

ii	Membership details of **CETP, TSDF, CHWIF, Common MEE** etc.	Membership letters of TSDF of BEIL, GSPL & RSPL are given as Figure 2-8 to 2-10 in EIA report
ii	Details of Non-Hazardous waste & its disposal (MSW and others)	Packaging Paper/ bags will be sold / disposed to scrap dealer
D		
i	**Solvent management** (If any) Details of Solvent recovery (As per respective ToR)	Solvents are going with the products
ii	VOC emission sources and its mitigation measures	No VOC emission

- During the meeting dated 24/01/2018, technical presentation made during the meeting by project proponent.
- During the meeting, the project was appraised based on the information furnished in the EIA Report, details presented before the committee and various issues raised during the public hearing and details presented during the meeting.
- The baseline environmental quality has been assessed for various components of the environment viz. air, noise, water, biological and socioeconomic aspect. The baseline environmental study has been conducted for the study area of 5 km radial distance from project site for the period March 2017 to May 2017. Ambient Air Quality monitoring was carried out for PM10, PM2.5, SO2, NOx, HC, CO and VOC at 8 locations, including the project site. Values conform to the prescribed standards for Ambient Air Quality. The incremental Ground Level Concentration (GLC) has been computed using ISCST – 3 model. The resultant concentrations are within the NAAQS. The modeling study proved that the air emissions from the proposed plant would not affect the ambient air quality of the region in any significant manner. The ambient air quality around the proposed project site will remain within the National Ambient Air Quality Standards (NAAQS).
- This unit has received EC for 1250 MT Polymer MR Production from SEIAA, Gujarat vide Letter No. SIEAA/ GUJ/EC/5(F)/3074/2015 dated 21.08.15. Now they proposes to discontinue production of Polymer MR and to introduce another grade of Polymer i.e. Polymer (PCE).
- To manufacture Polymer (PCE), existing Manufacturing facility of Polymer MR will be used as manufacturing process of Polymer MR & Polymer (PCE) is same. Expansion will be done in existing infrastructure installed by reducing batch time and increasing number of shifts (2 shifts). No additional installation of plant and machinery will be required for proposed expansion.No wastewater generation from manufacturing process as water consumed forproduction is consumed with products. Wastewater generated from Boiler (0.2 KLD), Washing (3.5 KLD), and Domestic (5KLD) is treated in Effluent Treatment Plant of 10 KLD Capacity.Primary, Secondary and Tertiary treatment is provided to meet GPCB norms andtreated effluent meeting on land irrigation norms is used for greenbeltdevelopment. Treated effluent is used for greenbelt Development.
- While discussing about the compliance status, PP informed that they have submitted Compliance report to concern authority. However, inspection by concern authority is awaited. Committee decided to ask RO-GPCB through the Member Secretary GPCB to get the Certified Compliance Report (CCR).
- Issues related to compliance of existing project, waste water management, reuse of waste water for green belt, VOC emission etc. has been discussed in detail. After detailed discussion, it was decided to consider the project further only after submission of the following:
- Compliance of ToR no. 5 & 6.
- Certified Compliance Report (CCR) from the Member Secretary, GPCB as per the MoEFCC's Circular no. J-11011/618/2010- IA(II) (I) dated 30/05/2012 and Circular no. J-11013/6/2010-IA-II (Part) vide dated 07/09/2017.
- Waste water management by exploring the possibilities to reuse treated waste water for industrial purposes instead of gardening-plantation to avoid any soil contamination.
- PP has replied for above mentioned additional details vide their letter on 16/02/2018.
- The proposal was considered in the SEAC meeting dated 26/02/2018. PP has submitted as under:
- Details regarding manufacturing process with chemical reactions, mass balance, cleaner production, CAS

no.s of products etc. PP has submitted action taken report for the non-complied points of Certified Compliance report of RO-Bhopal. Regarding use of treated waste water for industrial purpose, PP informed that they have gardening/plantation area of 8728 sq. m. and due to utilization of treated waste water for gardening, fresh water consumption will be reduced. PP has also mentioned that treated water is not usable in their process as it will effect on product quality and specification.

- ***Committee observed that compliance of the additional information sought was satisfactory. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.***

16.	SIA/GJ/IND2/20245/2017	**M/s: Pooja Industries** Plot No. D-2/CH/148, Dahej-II, Industrial Estate, Dahej, Dist.: Bharuch	Reconsideration for ToR [Terms of Reference] (Referred back case)

Category of the unit:5(f)

Status of the project: Expansion

As you are well aware, M/s. Pooja Industries applied for Terms of Reference [ToR] and the SEAC recommended the project for grant of Terms of Reference [ToR] vide this officeletterno. EIA-10-2017-IND2-127/1857dated 15/11/2017 for setting up of '**Synthetic Organic Chemicals'** manufacturing plant with the products mentioned therein.

The case was referred back by the SEIAA, Gujarat vide no. SEIAA/GUJ/EC/5(f)/8/2018 dated 10/01/2018 with the following point:

1. To verify the status of existing unit & its compliance.

Project proponent submitted reply vide letter dated 02/02/2018 for the above mentioned point. PP has submitted regarding the status of existing unit and its compliance. PP submitted that during last two years, Dahej plant has been running at lower production capacity as and when they need production. However, they have valid CCA and the conditions of same are complied. Copy of CC&A no. AWH - 76532, dated 18/02/2016 valid till 11/01/2021 and its compliance is submitted. PP ensured that there are no court cases pending against the project and there are no public complaints against the unit.

The case was reconsidered in the SEAC meeting dated 26/02/2018.

Committee noted that this unit is engaged in manufacturing of inorganic products and now applied for manufacturing of organic products. PP has furnished details of existing activity..

Based on the information furnished by the project proponent with relevant documents, Committee decided to correct project/activity as below:

Category of the unit : 5(f)

Project status: New

- This office has received an application vide their online proposal no. SIA/GJ/IND2/20245/2017 dated 14/09/2017 regarding grant of Terms of Reference [ToR] for preparation of EIA/EMP report.
- This is a new unit proposes manufacturing of synthetic organic chemicals as tabulated below:

Sr.	Name of the Products	CAS no.	Quantity	End-use of

No.			MT/Month	product
1.	G-Salt	842-18-2	50	Dyes-intermediate
2.	Gama Acid	90-51-7	25	Dyes-intermediate
3.	K-Acid	118-03-6	25	Dyes-intermediate

- The project falls underCategory B of project activity 5(f) asper the schedule of EIA Notification 2006.
- PP was called for presentation in the SEAC meeting dated 29/11/2017.
- Salient Features of the project including Water, Air and Hazardous waste management:

Sr.	Particulars	Details
A	Total cost of Proposed Project (Rs. in Crores):	Existing:-- 1.2 Crore Proposed:8.44 Crore Total: 9.64 Crore
	1. Capital Cost for EMS (Environment Management System): Rs. 1.5 Crore 2. Recurring cost towards the Environmental protection measures: Rs. 0.9 Crores per Annum	
B	Total Plot Area (Sq. Meter)	Existing: 10662.71 Proposed: NIL Total: 10662.71
	Green Belt Area/Tree Plantation Area (sq. Meter)	Existing:-- Proposed:3500 Total: 3500
C	**Employment Generation**	
	1.Direct	Existing:--50 Proposed: 58 Total: 108
	2.Indirect	Existing:--5 Proposed: 25 Total: --30
D	**Water**	
i	Source of Water Supply (GIDC, Bore well, Surface water etc...)	GIDC
	Status of permission from the concern authority.- Applied	
ii	Water consumption (KL/day)	

Category	Quantity KL/day
(A) Domestic	5
(B) Gardening	5
(C) Industrial	
Process	28
Washing	--
Boiler	130
Cooling	40
Others	1
Total	209

iii Waste water generation (KL/day)

Category	Quantity KL/Day	Remarks
(A) Domestic	5	To Septic Tank/soak pit
(B) Industrial		
Process	30	ZLD

		Washing	--		
		Boiler	43		
		Cooling	2		
		Others	1		
		Total Industrial waste water	81		

iv	Treatment facility with capacity (ETP, CETP, MEE, STP etc).	
v	Mode of Disposal & Final meeting point	Domestic: To Septic Tank/soak pit Industrial: ZLD
vi	Reuse/Recycle details (KL/day)	60
vii	Details of Rain Water Harvesting	--
E	**Air**	
i	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	

SR. no.	Source of emission With Capacity e.g. Boiler (8 TPH)	Stack Height (meter)	Name of the fuel	Quantity of Fuel MT/hr& MT/Day	APCM	Type of emissions i.e. Air Pollutants	Emission Standards
1.	FBC Steam Boiler	30	Imported coal	15	APH, MDC, Cyclone and Bag filter	SPM = 15 mg/nm^3 SO_2 = 10 mg/nm^3 NO_2 = 5 mg/nm^3	SPM < 100 mg/nm^3 SO_2< 40 mg/nm^3 NO_2< 20 mg/nm^3
2.	Thermo pack Oil heater	25	Imported coal	2	APH, MDC, Cyclone Bag Filter	SPM = 10 mg/nm^3 SO_2 = 5 mg/nm^3 NO_2 = 5 mg/nm^3	SPM < 100 mg/nm3 SO_2< 40 mg/nm^3 NO_2 < 20 mg/nm^3
3.	Spray Dryer HAG	30	Imported coal	16	Cyclone Separator with Two Stage Water Scrubber	SPM = 15 mg/nm^3 SO_2 = 10 mg/nm^3 NO_2 = 5 mg/nm^3	SPM < 100 mg/nm^3 SO_2< 40 mg/nm^3 NO_2< 20 mg/nm^3
4.	DG Set	10	Diesel	22 L/Hr	Acoustic enclosure	-	-

ii Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_x etc.)

Sr. no.	Source of emission	Stack/Vent Height (meter)	APCM	Type of emissions i.e. Air Pollutants	Emission Standards

		1.	Drowning (G-Salt /Gamma Acid/K-Acid)	25 m	Three stage Alkaline scrubber with ventury and column,	HCl = 3 mg/m^3	HCL < 20 mg/nm^3
		2.	Amidation (Gama Acid/ K-Acid)	25 m	Three stage Ventury scrubber with chilled water circulation followed by condenser	NH_2 = 5 mg/m^3	NH_2 < 40 mg/nm^3
		3.	Isolation (Gama Acid/ K-Acid)	25 m	Series of two stage ventury and one stage packed column with Alkaline water circulation	SO_2 = 5 mg/m^3	SO_2< 40 mg/nm^3
		4.	Exhaust air out let for Spin flash Dryer	25 m	Cyclone Separator with Bag Filter	SPM = 10 mg/m^3	SPM < 50 mg/nm^3
		5.	Spray Dryer Exhaust air out let for ZED	25 m	Cyclone Separator with Two Stage Water Scrubber	SPM = 10 mg/m^3	SPM < 50 mg/nm^3
iii	Fugitive emission details with its mitigation measures.						
F	**Hazardous waste (as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016**						

i

Sr. No.	Typeof Waste	Category	Quantity			ModeofDisposal
			Existing	Proposed	Total	
1.	Discarded bags &Containers	33.1	500 Kg/Year	3000 Nos. HDPE Bags,200 drums.	--	Sold to recycler after Decontamination
2.	Used Oil	5.1	0.03 MT/Year	0.47 MT/Year	0.500 MT/Year	Authorized Register recycler
3.	Sodium Hypo Chloride	Class C C-7	28.08 MT/Year	--	28.08 MT/Year	Collection, Storage, Transportation, Disposal by selling to Registered reprocessors.
4.	Gypsum Sludge from process	35.3	--	910	910	Fabricated roof with HDPE Liner laying under the 6 inch RCC impervious Layer with PCC, sell to cement industries.
5.	ETP sludge	35.3	--	360	360	Collection under the steel fabricated roof with HDPE Liner laying under the 6 inch RCC impervious Layer with PCC, send to authorized TSDF .
6.	Fly ash	--	--	230	230	Collect in specially designed silo and pack in HDPE bags, sell to cement industries and road construction company.
7.	Carbon Waste	35.3	--	1	1	Collect in HDPE bags, send to authorized TSDF site.

Quantity of all the wastes including discarded containers must be in MT/Annum.

ii	Membership details of CETP, TSDF, CHWIF,	Applied

	Common MEE etc.	
ii	Details of Non-Hazardous waste & its disposal (MSW and others)	To be managed as per Rules
G	**Solvent management (If any)**	
i	Details of Solvent recovery (As per respective ToR)	Details will be covered in EIA report
ii	VOC emission sources and its mitigation measures	Details will be covered in EIA report

After deliberation, Committee decided to recommend grant of Terms of Reference [ToR] with above mentioned correction and the ToRs unchanged as prescribed in previous recommendation letter dated15/11/2017.

17.	SIA/GJ/IND2/17873/2017	**M/s, SHREE HARI INDUSTRIES** Shed No C1- 95/1, Phase-II, GIDC, Vatva, Ahmedabad, Gujarat-382 445	Reconsideration for EC – Appraisal

Project / Activity No.: 5(f)

Project status: Expansion

- PP has submitted online application vide no. SIA/GJ/IND2/17873/2017 dated 13/10/2017 for obtaining Environmental Clearance.
- The SEAC had recommended TOR to SEIAA and SEIAA issued TOR to PP vide letter dated 24/04/2017.
- Project proponent has submitted EIA Report prepared by M/s: Green Circle Inc., Vadodara based on the TOR issued by SEIAA.
- Public Hearing for the project is exempted as per paragraph 7(i) (III) (i) (b) of the EIA Notification, 2006 since the project site is located in the Notified Industrial area.
- This is an existing unit engaged in Synthetic organic chemicals and now proposes for expansion as tabulated below:

Sr. No.	Name of Product	MT/Month	CI Number	End use of the Product
1	Sodium AllylSulphonate	40	2495-39-8	ALL as use as electroplating chemical
2	Sodium PropyneSulphonate	20	55947-46-1	
3	Ethylene DiamineEpichlorohydrine Condensate	15	-	
4	Benzyl Sodium CarboxyPyridinium Chloride	5	68133-60-8	
5	Imidazole Epichlorohydrine Condensate	1	68002-42-6	
6	Stabilize Poly Vinyl Alcohol	2	9002-89-5	
7	Diethyl Propyne Amine	1	4079-68-9	
8	Tartaric Acid Solution (Blending & Mixing)	2	87-69-4	
9	Tartaric Acid Powder (Blending & Mixing)	1	133-37-9	
10	Zinc Brightener (Mixing)	10	68797-57-9	
Total		**97**		

- The project falls under Category B2 of project activity 5(f)as per the schedule of EIA Notification 2006
- PP was called for presentation in the SEAC meeting dated 10/01/2018.
- Salient features of the project are as under::

Sr. no.	Particulars	Details
A	**Water**	
i	Source of Water Supply1 (GIDC, Bore well, Surface water etc...)	GIDC shall supply water

	Status of permission from the concern authority.
ii	Water consumption (KL/day):5.5 KL/day

Category	Proposed KL/Day
(D) Domestic	1.0
(E) Gardening	0.5
Process	2.0
Washing	0.5
Boiler	1.0
Cooling	0.5
Others	-
Total	5.5

iii	Waste water generation (KL/day)

-

Category	Proposed KL/Day
(C) Domestic	0.8
(D) Gardening	0.0
Process	0.16
Washing	0.5
Boiler	0.2
Cooling	0.1
Others	0.0
Total Industrial waste water	0.96

-

iv	Treatment facility with **capacity** (ETP, CETP, MEE, STP etc).	ETP house Capacity: 0.8 KL/day MEE Vatva
v	Mode of Disposal & Final meeting point	Domestic: Soak pit Industrial: CETP Vatva MEE,Vatva
vi	Reuse/Recycle details (KL/day)	-
B	**Air**	
I	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	

-

Sr. No	Stack attached to	Capacity	Fuel Consumption	Stack Ht. (m)	Stack Dia. (mm)	Stack Gas temp (˚C)	APCM
1.	Boiler	0.8 MT/Day	Wooden waste /Imported Coal / White Coal	12	0.2	110	None

-

ii	Process gas i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_x etc.)	There is no process gas
	-	
	Fugitive emission details with its mitigation measures.	• Fugitive emission will due to the leakages in pump, storage container, material transferring, and packing. **Mitigation measures:** • Proper storage of raw materials, products and fuels • Ensuring closed feeding and sampling.

<table>
<tr><td></td><td></td><td colspan="2">• Establishing SOPs for start-up, shut down and maintenance operational procedure
• Regular work place and ambient air quality monitoring will be done.</td></tr>
<tr><td>C</td><td colspan="3">Hazardous waste
(as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.</td></tr>
<tr><td>I</td><td colspan="3">
<table>
<tr><th>Sr. no.</th><th>Type/Name of Hazardous waste</th><th>Source of generation</th><th>Category and Schedule as per HW Rules.</th><th>Quantity</th><th>Disposal Method</th></tr>
<tr><td>1</td><td>Hazardous Waste ETP Sludge</td><td>ETP</td><td>34.3</td><td>12 MT/ Annum</td><td>Storage and disposal to TSDF site.</td></tr>
<tr><td>2</td><td>Used Oil/ Spent Oil</td><td>DG set</td><td>5.1</td><td>50 Lit/Year</td><td>Sold to Recycler, Reprocessor or used as Lubricants for Machineries.</td></tr>
<tr><td>3</td><td>Discarded Container / Drum / Bags</td><td>Raw materials Packing</td><td>33.3</td><td>4.5 MT/ Annum
0.36 MT/ Annum</td><td>Send back to raw material supplier / sold to registered recycler</td></tr>
</table>
</td></tr>
<tr><td>ii</td><td colspan="2">Membership details of CETP, TSDF, CHWIF, Common MEE etc.</td><td>CETP for discharge of treated waste water
MEE for concentrated stream</td></tr>
<tr><td>ii</td><td colspan="2">Details of Non-Hazardous waste & its disposal (MSW and others)</td><td>AMC collection centre</td></tr>
<tr><td>D</td><td colspan="2"></td><td></td></tr>
<tr><td>i</td><td colspan="2">Solvent management (If any)
Details of Solvent recovery (As per respective ToR)</td><td>NA</td></tr>
<tr><td>ii</td><td colspan="2">VOC emission sources and its mitigation measures</td><td>VOC source:
• Liquid material storage area
• Production area
VOC mitigation measures
• Store VOC-containing products in air-tight containers.
• Buy products with less packaging as the printing of packaging materials generates VOCs
• Will assign a person develop and implement the VOC reduction plan.
• Utilizing natural ventilation
• Maintaining the good house keeping practice.</td></tr>
</table>

- During the meeting dated 10/01/2018, technical presentation made during the meeting by project proponent.
- During the meeting, the project was appraised based on the information furnished in the EIA Report and details presented before the committee.
- The baseline environmental quality has been assessed for various components of the environment viz. air, noise, water, biological and socioeconomic aspect. The baseline environmental study has been conducted for the study area of 10 km radial distance from project site for the period March 2017 to May 2017. Ambient Air Quality monitoring was carried out for PM10, PM2.5, SO2, NOx, HCl and VOC at 8 locations, including the project site. Values conform to the prescribed standards for Ambient Air Quality. The

incremental Ground Level Concentration (GLC) has been computed using Air Modes Views™. The resultant concentrations are within the NAAQS. The modelling study proved that the air emissions from the proposed plant would not affect the ambient air quality of the region in any significant manner. The ambient air quality around the proposed project site will remain within the National Ambient Air Quality Standards (NAAQS).

- There is no process gas emission. Total water consumption for proposed project will be 5.5 KLD which will be sourced from GIDC water supply. Total industrial wastewater generation will be 0.96 KLD which will be treated in proposed ETP and then sent to CETP, Vatva.
- Looking to the 18 (1) (b) directions under the Water Act 1974 imposed by CPCB on CETP, Committee asked to go for another option. After deliberation, Committee decided to consider the project in one of the upcoming SEAC meetings only after satisfactory submission of the following: (1) Waste water management considering 18 (1) (b) directions under the Water Act 1974 imposed by CPCB on CETP
- PP has replied for above mentioned additional details vide their letter on 12/02/2018.
- The proposal was considered in the SEAC meeting dated 26/02/2018. PP has submitted valid membership Certificate of Common Spray dryer facility for discharge of entire treated effluent. Committee noted that there is no increase in CETP load due to proposed project. Hence, 18 (1) (b) directions under the Water Act 1974 imposed by CPCB on CETP is not applicable in the instant case.
- ***Committee observed that compliance of the additional information sought was satisfactory. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.***

18	SIA/GJ/IND2/2134174161/2016	**M/s: Godavari Cellulosics Ltd.** R.S. no: 142, 151, 152, 153/1, 154, 155, 156, 157, 158, 159, 160, vill: antali, PCPIR notified area, Ta: Vagra, Dist: bharuch	ToR Amendment (PCPIR reg.)

Category of the unit : 5(f)

Project status: New

- SEIAA, Gujarat has accorded ToR [Terms of Reference] toM/s: Godavari Cellulosics Ltd. vide letter no. SEIAA/GUJ/TOR/5(f)/770/2016 vide dated 29/12/2016.
- Now, project proponent has applied online vide proposal no. SIA/GJ/IND2/17416/2016 dated 28/09/2016 for amendment in TOR dated29/12/2016regarding public hearing exemption.
- This proposal was considered in the SEAC meeting dated 26/02/2018. During the meeting, Committee observed that project was granted TOR with Public Hearing as per para 7(i) (III) (i) (b) of the EIA Notification, 2006. Now PP has requested to exempt Public Hearing as the Gujarat Industrial Development Corporation (GIDC), GoG has obtained Environmental clearance for Petroleum, Chemical and Petrochemical Investment Region (PCPIR), Bharuch.
- Committee observed that GIDC has obtained Environmental clearance from MoEF&CC, New Delhi for the development of Petroleum, Chemical and Petrochemical Investment Region at Dahej, Ta. Vagra, Dist. Bharuch vide F. No. 21-49/2010-IA-III dated 14/09/2017. As per the said Environmental Clearance, 5 GIDC estates namely Dahej-I, Dahej-II, Dahej-III, Vilayat and Saykha are covered within PCPIR.
- Committee noted that the instant proposal falls within the region of PCPIR, Ta. Vagra, Dist. Bharuch.
- Referring to the EIA Notification 2006 and its amendments, Committee decided to exempt public hearing of this

proposal as per para 7(i) (III) (i) (b) of the EIA Notification, 2006 since the project site is located within the PCPIR.

- ***After deliberations, committee accepted the amendment of TOR regarding public hearing and decided to recommend amendment of TOR as requested with the following additional ToRs.*** Additional Terms of reference (TOR)
    a) Specify safety precautions to be taken for Chemical storage, process, handling & transportation hazard.
    b) Details on workers training before engaging work, periodical, in-house, outside etc.
    c) Details on various SOP to be prepared.
    d) Details on safety audit to be carried out and their compliance status.
    e) Specific safety measures to be taken for general Public living in the vicinity.
    f) Details on hazard identification i.e. HAZOP, HAZAN, Fault tree analysis, Event tree analysis, Checklist, Audit etc. to be adopted for the safety operation of the plant.
    g) Detection and monitoring of VOC's / gases.

The prescribed amended TOR as above is for your kind approval

19.	SIA/GJ/IND2/18468/2017	**M/s: Krishna Anti Oxidants Pvt. Ltd.** Plot no. D-3/24/1 at GIDC dahej-III, village samatpor, Ta- Vagra, Dist. Bharuch	ToR Amendment (PCPIR reg.)

Category of the unit : 5(f)

Project status: New

- SEIAA, Gujarat has accorded ToR [Terms of Reference] to M/s: **Krishna Anti Oxidants Pvt. Ltd.** vide letter no. SEIAA/GUJ/TOR/5(f)/493/2017 vide dated 30/04/2017.
- Now, project proponent has applied online vide proposal no. SIA/GJ/IND2/18468/2017dated 14/02/2017 for amendment in TOR dated 30/04/2017 regarding public hearing exemption.
- This proposal was considered in the SEAC meeting dated 26/02/2018. During the meeting, Committee observed that project was granted TOR with Public Hearing as per para 7(i) (III) (i) (b) of the EIA Notification, 2006. Now PP has requested to exempt Public Hearing as the Gujarat Industrial Development Corporation (GIDC), GoG has obtained Environmental clearance for Petroleum, Chemical and Petrochemical Investment Region (PCPIR), Bharuch.
- Committee observed that GIDC has obtained Environmental clearance from MoEF&CC, New Delhi for the development of Petroleum, Chemical and Petrochemical Investment Region at Dahej, Ta. Vagra, Dist. Bharuch vide F. No. 21-49/2010-IA-III dated 14/09/2017. As per the said Environmental Clearance, 5 GIDC estates namely Dahej-I, Dahej-II, Dahej-III, Vilayat and Saykha are covered within PCPIR.
- Committee noted that the instant proposal falls within the region of PCPIR, Ta. Vagra, Dist. Bharuch.
- Referring to the EIA Notification 2006 and its amendments, Committee decided to exempt public hearing of this proposal as per para 7(i) (III) (i) (b) of the EIA Notification, 2006 since the project site is located within the PCPIR.
- ***After deliberations, committee accepted the amendment of TOR regarding public hearing and decided***

to recommend amendment of TOR as requested with the following additional ToRs. Additional Terms of reference (TOR)

h) Specify safety precautions to be taken for Chemical storage, process, handling & transportation hazard.
i) Details on workers training before engaging work, periodical, in-house, outside etc.
j) Details on various SOP to be prepared.
k) Details on safety audit to be carried out and their compliance status.
l) Specific safety measures to be taken for general Public living in the vicinity.
m) Details on hazard identification i.e. HAZOP, HAZAN, Fault tree analysis, Event tree analysis, Checklist, Audit etc. to be adopted for the safety operation of the plant.
n) Detection and monitoring of VOC's / gases.

The prescribed amended TOR as above is for your kind approval.

20.	SIA/GJ/IND2/19110/2017	**M/s: Cadila Pharmaceuticals Limited** Plot no. D-2/11/B/4, GIDC Industrial Estate Dahej Phase-II, Dist Bharuch, Gujarat.	ToR Amendment (PCPIR reg.)

Category of the unit : 5(f)

Project status: Expansion

- SEIAA, Gujarat has accorded ToR [Terms of Reference] to M/s: Cadila Pharmaceuticals Limited. vide letter no. SEIAA/GUJ/TOR/5(f)/543/2017 vide dated 30/04/2017.
- Now, project proponent has applied online vide proposal no. SIA/GJ/IND2/19110/2017dated 20/04/2017 for amendment in TOR dated30/04/2017 regarding public hearing exemption.
- This proposal was considered in the SEAC meeting dated 26/02/2018. During the meeting, Committee observed that project was granted TOR with Public Hearing as per para 7(i) (III) (i) (b) of the EIA Notification, 2006. Now PP has requested to exempt Public Hearing as the Gujarat Industrial Development Corporation (GIDC), GoG has obtained Environmental clearance for Petroleum, Chemical and Petrochemical Investment Region (PCPIR), Bharuch.
- Committee observed that GIDC has obtained Environmental clearance from MoEF&CC, New Delhi for the development of Petroleum, Chemical and Petrochemical Investment Region at Dahej, Ta. Vagra, Dist. Bharuch vide F. No. 21-49/2010-IA-III dated 14/09/2017. As per the said Environmental Clearance, 5 GIDC estates namely Dahej-I, Dahej-II, Dahej-III, Vilayat and Saykha are covered within PCPIR.
- Committee noted that the instant proposal falls within the region of PCPIR, Ta. Vagra, Dist. Bharuch.
- Referring to the EIA Notification 2006 and its amendments, Committee decided to exempt public hearing of this proposal as per para 7(i) (III) (i) (b) of the EIA Notification, 2006 since the project site is located within the PCPIR.
- ***After deliberations, committee accepted the amendment of TOR regarding public hearing and decided to recommend amendment of TOR as requested with the following additional ToRs.*** Additional Terms of reference (TOR)

o) Specify safety precautions to be taken for Chemical storage, process, handling & transportation

hazard.

p) Details on workers training before engaging work, periodical, in-house, outside etc.

q) Details on various SOP to be prepared.

r) Details on safety audit to be carried out and their compliance status.

s) Specific safety measures to be taken for general Public living in the vicinity.

t) Details on hazard identification i.e. HAZOP, HAZAN, Fault tree analysis, Event tree analysis, Checklist, Audit etc. to be adopted for the safety operation of the plant.

u) Detection and monitoring of VOC's / gases.

The prescribed amended TOR as above is for your kind approval

21.	SIA/GJ/IND2/17987/2016	**M/s: VedantChloro Chem** Plot no. D-2/CH/77, GIDC Dahej, Vagra Tauka, Bharuch, Gujarat	ToR Amendment (PCPIR reg.)

Category of the unit : 5(f)

Project status: Expansion

- SEIAA, Gujarat has accorded ToR [Terms of Reference] to M/s: VedantChloro Chem vide letter no. SEIAA/GUJ/TOR/5(f)/309/2017 vide dated 24/04/2017.
- Now, project proponent has applied online vide proposal no. SIA/GJ/IND2/17987/2016 dated 11/01/2017 for amendment in TOR dated24/04/2018regarding public hearing exemption.
- This proposal was considered in the SEAC meeting dated 26/02/2018. During the meeting, Committee observed that project was granted TOR with Public Hearing as per para 7(i) (III) (i) (b) of the EIA Notification, 2006. Now PP has requested to exempt Public Hearing as the Gujarat Industrial Development Corporation (GIDC), GoG has obtained Environmental clearance for Petroleum, Chemical and Petrochemical Investment Region (PCPIR), Bharuch.
- Committee observed that GIDC has obtained Environmental clearance from MoEF&CC, New Delhi for the development of Petroleum, Chemical and Petrochemical Investment Region at Dahej, Ta. Vagra, Dist. Bharuch vide F. No. 21-49/2010-IA-III dated 14/09/2017. As per the said Environmental Clearance, 5 GIDC estates namely Dahej-I, Dahej-II, Dahej-III, Vilayat and Saykha are covered within PCPIR.
- Committee noted that the instant proposal falls within the region of PCPIR, Ta. Vagra, Dist. Bharuch.
- Referring to the EIA Notification 2006 and its amendments, Committee decided to exempt public hearing of this proposal as per para 7(i) (III) (i) (b) of the EIA Notification, 2006 since the project site is located within the PCPIR.
- ***After deliberations, committee accepted the amendment of TOR regarding public hearing and decided to recommend amendment of TOR as requested with the following additional ToRs.*** Additional Terms of reference (TOR)

v) Specify safety precautions to be taken for Chemical storage, process, handling & transportation hazard.

w) Details on workers training before engaging work, periodical, in-house, outside etc.

x) Details on various SOP to be prepared.

y) Details on safety audit to be carried out and their compliance status.

z) Specific safety measures to be taken for general Public living in the vicinity.

aa) Details on hazard identification i.e. HAZOP, HAZAN, Fault tree analysis, Event tree analysis, Checklist, Audit etc. to be adopted for the safety operation of the plant.

bb) Detection and monitoring of VOC's / gases.

The prescribed amended TOR as above is for your kind approval

Meeting ended with thanks to the Chair and the Members.

Minutes approved by:

1.	Shri S. C. Shrivastav, Vice Chairman, SEAC	
2.	Shri R. J. Shah, Member, SEAC.	
3.	*Dr. V. K. Jain, Member, SEAC.*	
4.	*Shri V. N. Patel, Member, SEAC*	
5.	*Dr. Mayuri Pandya, Member, SEAC*	
6.	*Shri Rajesh Shah, Member, SEAC*	