### MINUTES OF $23^{\rm rd}$ EXPERT APPRAISAL COMMITTEE (INDUSTRY-2) MEETING HELD DURING $3^{\rm rd}$ to $5^{\rm th}$ May, 2017

- 23.1 Opening Remarks of the Chairman
- 23.2. Confirmation of the Minutes of the 22<sup>nd</sup> Meetings of the EAC (Industry-2) held during 17<sup>th</sup> to 18<sup>th</sup> April, 2017 at New Delhi.

#### 23.2.1. Correction in the Minutes

A. Resin manufacturing Project (Phenol Formaldehyde Resin- 450 MT/Month, Melamine Formaldehyde Resin- 225 MT/Month and Urea Formaldehyde Resin- 225 MT/Month) at Survey No. 326P1, NH-27, Ravapar Nadi Village, Morbi Taluka, Morbi Dist., Gujarat by M/s Highborne Laminates Pvt. Ltd. –Correction in EC-reg [File No.: J-11011/80/2016-IA-II(I)]

The Member Secretary informed the EAC that the above project has been recommended for Environmental Clearance in the 16<sup>th</sup> meeting held during 8<sup>th</sup>-9<sup>th</sup> December, 2016 and EC has been issued vide Ministry's letter dated 20.03.2017. The Project Proponent vide letter dated 04.05.2017 has sought following correction in the minutes of the said EAC meeting and EC letter.

Point No.	Information as given in 16 <sup>th</sup> EAC meeting MOM	Information as given in the EC	Rectification Required	Reference in EIA report
		Specific Conditions		
vii	Domestic wastewater after treatment in sewage treatment plant shall be used for gardening. Chemically treated water, Boiler blow down, RO rejected, cooling tower blow down water shall be collected in treated water collection tank and then evaporated in Steam based evaporation system followed by condenser. The plant shall based on Zero Effluent Discharge system.	Domestic wastewater after treatment in sewage treatment plant shall be used for gardening. Chemically treated water, Boiler blow down, RO rejected, cooling tower blow down water shall be collected in treated water collection tank and then evaporated	Domestic wastewater after treatment in sewage treatment plant shall be used for gardening. Chemically treated water, Boiler blow down, RO rejected, cooling tower blow down water shall be collected in treated water collection	Figure 2.10 page No. 85
		in <b>Steam</b> based evaporation system followed by condenser. The plant shall based on Zero Effluent Discharge	tank and then evaporated in TFH based evaporation system followed by condenser. The plant shall based on Zero Effluent	

Point No.	Information as given in 16 <sup>th</sup> EAC meeting MOM	Information as given in the EC	Rectification Required	Reference in EIA report
		system.	Discharge system.	
X	Green belt over 8234 m² area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	Green belt over 8234 m²area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	4620 m <sup>2</sup> area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and	Table 2.2 page No. 66

The EAC after examining the facts agreed to the above corrections in the minutes of  $16^{th}$  EAC meeting held during  $8^{th}$ – $9^{th}$  December, 2016 and EC letter accordingly.

# B. Setting up of Synthetic Organic Chemicals API Unit (16 MTPM) at Survey No. 281/1, Village: Amarnagar, Taluka: Morbi, District: Morbi, Gujarat by M/s Rolence Pharma and Chemical LLP.-Correction in EC- reg. [File No.: J-11011/97/2016- IA II(I)]

The Member Secretary informed the EAC that the above project has been recommended for Environmental Clearance in the 17<sup>th</sup> meeting held during 26<sup>th</sup>–29<sup>th</sup> December, 2016 and the Environmental clearance has been issued by Ministry vide letter dated 12<sup>th</sup> April, 2017. The Project Proponent vide letter dated 04.05. 2017 sought certain correction in the minutes of the said EAC meeting and Environmental Clearance dated 12<sup>th</sup> April, 2017.

Point No.	Details as in the 17 <sup>th</sup> EAC MoM	Rectification Required	Reference in EIA report	
xii	Bag Filter will be provided to Steam boiler	Cyclone separator followed by Bag Filter will be provided to Steam boiler		
xiii	will be 21 m <sup>3</sup> /day, which will be sourced from own bore well/	Fresh water requirement will be 30.9 m³/day, which will be sourced from own bore well/ surface water. Committee suggest		

Point No.	Details as in the 17 <sup>th</sup> EAC MoM	Rectification Required	Reference in EIA report
	suggest to use only surface water	to use only surface water	
xiv	ETP waste & evaporation residue and spent catalyst will be disposed off at approved TSDF site; used oil will be reused within premises as a lubricant or sold to registered recycler; process residue & waste and spent carbon will be disposed to approved incineration facility; discarded plastic bags will be sold to authorized vendor.	ETP waste & evaporation residue will be disposed off at approved TSDF site; used oil will be reused within premises as a lubricant or sold to registered recycler; process residue, spent catalyst and spent carbon will be disposed to approved incineration facility; discarded plastic bags will be sold to authorized vendor.	Table 2.19 page 102
	Spec	ific Conditions	
i	<b>Dust collector</b> followed by Bag Filter and 30 m stack height shall be provided to Briquettes fired Steam Boiler of 1 TPH capacity.	Cyclone separator followed by Bag Filter and 30 m stack height shall be provided to Briquettes fired Steam Boiler of 1 TPH capacity.	Table 2.16 page-100
iv	Total fresh water requirement from Narmada Pipeline shall not exceed 21 m³/day and prior permission shall be obtained from the concerned authority.	Total fresh water requirement from Narmada Pipeline shall not exceed 30.9 m³/day and prior permission shall be obtained from the concerned authority.	Figure 2.7 page 93
vii	As proposed, ETP waste & evaporation residue and spent catalyst will be disposed off at approved TSDF site; used oil will be reused within premises as a lubricant or sold to registered recycler; process residue & waste and spent carbon will be disposed to approved incineration facility; discarded plastic bags will be sold to authorized vendor.	As proposed, ETP waste & evaporation residue will be disposed off at approved TSDF site; used oil will be reused within premises as a lubricant or sold to registered recycler; process residue, spent catalyst and spent carbon will be disposed to approved incineration facility; discarded plastic bags will be sold to authorized vendor.	Table 2.19 page 102

The EAC after examining the facts agreed to the above corrections in the minutes of  $17^{th}$  EAC meeting held during  $26^{th}$ – $29^{th}$  December, 2016 and EC letter accordingly.

C. Proposed expansion of Pesticides (capacity from 47.38 to 589.75 MTPM) at Plot. No. 1504, 1505, 1506 GIDC Vapi, Di: Valsad, State Gujarat by M/s Heranba Industries Limited (Unit:I)

The Member Secretary informed that the aforesaid project was recommended for EC in the 9<sup>th</sup> EAC meeting held during 27<sup>th</sup> - 28<sup>th</sup> June, 2016. The PP vide letter dated 2<sup>nd</sup> May, 2017 made a request seeking following corrections in the Minutes of the 9<sup>th</sup> EAC meeting:

Name of the project	Corrections sought	Read as
Proposed expansion of	Subject:	Subject:
Pesticides (capacity from 47.38		
to 589.75 MTPM) at Plot. No.	Proposed expansion of	Proposed expansion of
1504, 1505, 1506 GIDC Vapi,	Pesticides (capacity from 47.38	Pesticides (capacity from 12 to
Di: Valsad, State Gujarat by	to 589.75 MTPM) at Plot. No.	610 MTPM) at Plot. No. 1504,
M/s Heranba Industries	1504, 1505, 1506 GIDC Vapi,	1505, 1506 GIDC Vapi, Di:
Limited (Unit:I)	Di: Valsad, State Gujarat by	Valsad, State Gujarat by M/s
	M/s Heranba Industries Limited	Heranba Industries Limited
	(Unit:I)	(Unit:I)
	By-product s. no. 3	By-product s. no. 3
	Hydro Chloric Acid Solution	Hydro Chloric Acid Solution
	(30%)	(30%)
	Existing Quantity: 9.992	Existing Quantity: <b>19</b> .992
	Proposed quantity: 211.828	Proposed quantity: 211.828
	Total Quantity: 231.82	Total Quantity: 231.82

The committee after deliberation accepted the aforesaid corrections and directed to modify the minutes of  $9^{th}$  EAC meeting held during  $27^{th}$  -  $28^{th}$  June, 2016 accordingly.

D. Synthetic Organic Manufacturing Unit at Sy. No. 32, Tupakulagudem Village, Tallapudi Mandal, West Godavari District, Andhra Pradesh by M/s. Vensar Laboratories Private Ltd.- Environmental Clearance-- [J-11011/368/2014 - IA II (I); IA/AP/IND2/60135/2014]

The Member Secretary informed that the aforesaid project was recommended for EC in the 19<sup>th</sup> EAC meeting held during 6<sup>th</sup>-7<sup>th</sup> February, 2017. The PP vide e-mail dated 20<sup>th</sup> March, 2017 made a request seeking following corrections in the Minutes of the 9<sup>th</sup> EAC meeting:

S.No. as per EAC Minute s	As per Minutes of the Meeting				Corrected Data						
v.		total land acres.	area o	of propose	ed company is		The total land area of proposed company is 7.0 Acres				
vii.	S . N	Product Name	CA S Nu mb er	Quanti ty In Kgs/M onth	Quantity In Kgs/Day	S · N o	Product Name  Carvedilol	CA S Nu mb er	Quanti ty In Kgs/M onth	Quant ity In Kgs/D ay	
	1	(Difluro	-	5200.0	1/3.33	1	Carvediloi	56-	5000.0	100.67	

S.No. as per EAC Minute s		As per	Minut	es of the M	leeting		Co	orrecte	d Data	
		methoxy		0				09- 03	0	
		mercapt o -1H- benzimi dazole( BZL)				2	Citalopram Hydro Bromide	597 29- 32- 7	2000.0	66.67
	2	Niacin	59- 67- 6	26000. 00	866.67	3	Ketrolac trometham ine	741 03- 06- 3	5000.0	166.67
	3	Methyl- 4- piperldo ne(NMP	144 5- 73- 4	11490. 00	383.00	4	Ramipril	873 33- 19- 5	5000.0	166.67
	4	Paraceta mol-API	103 -90- 2	14040. 00	468.00	5	Sertraline Hydrochlo ride	795 59- 97- 0	5000.0	166.67
	5	Sodium methoxi de (SMO)	124 -41- 4	8320.0	277.33	6	Terbinafin e Hydrochlo	786 28- 80-	4000.0	133.33
co n tv	(V co n tw	otal Vorst ombinatio of any vo coducts		40040. 00	1334.67	7	Tramadol Hydrochlo ride	5 362 82- 40- 0	5000.0	166.67
		n Impaign Isis only)				co tw ca	otal (Worst mbination of o products o mpaign basis	n	10000. 00	333.33

S.No. as per EAC Minute s		As per Mi	nutes of th	e Meetir	ıg		Correc	eted Data		
	List of By Products and Quantities :						of By Products an	nd Quantities :		
	S · N o	Name of the Product	Name of the By- Produc t	Quan tity In MT/ Mont h	Quan tity in Kgs/D ay	S. N o	Name of the Product	Name of the By-Product	Quant ity in Kg/D ay	
	1	5- (Difluromet hoxy)-2- mercapto - 1H- benzimidazo	Disodiu m sulfide	2.16	72.00	2	Citalopram hydro bromide  Ramipril  Terbinafine	Magnesium chloride Triethyl amine Hydrochlori de Potassium	32.00 215.0 0	
	2	le Niacin	Ammon ium sulphate Sodium	28.02	934.0 0 601.0	3	Hydrochloride	chloride	31.00	
	3	Paracetamol	nitrate Acetic acid	6.00	0 200.0 0 1807.					
		Total bient air quality 8 locations		_	00 arried out					
	con μg/1 (5.5	mitted baseline centrations of $m^3$ ), $PM_{2.5}$ (16 to 14.20 $\mu g/3.11 \mu g/m^3$ ) res	PM <sub>10</sub> (48.8 5.90 to 35 m3) and N	80 μg/m .14 μg/r	to 68.50 m <sup>3</sup> ), SO <sub>2</sub>	of α μg/n (7.1	mitted baseline da concentrations of $m^3$ ), $PM_{2.5}$ (21.97) $4 - 14.05 \mu g/m^3$ ) $m^3$ ) respectively.	PM <sub>10</sub> (57.86 7 – 34.87μg/r	-68.32 m <sup>3</sup> ), SO <sub>2</sub>	
viii	AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be $0.76~\mu g/m$ , $1.70\mu g/m^3$ and $2.25~\mu g/m^3$ with respect to $PM_{10}$ , $SO_2$ and $NOx$ .				naximum d project and 2.28 NOx.	emissions indicates that the maximum incremental GLCs after the proposed project				
ix.	reco	al Water consulpunt of 21.24 overed by the nce, Total fresh day and will be ninst which 19.3	m <sup>3</sup> /day of ZLD system water request met from	of water tem and uirement m Groun	will be reused, is 58.47 d Water.	Total Water consumption of 79.71 m³/day an amount of 21.24 m³/day of water will be recovered by the ZLD system and reused. Hence, Total fresh water requirement is 58.47 m³/day and will be met from Ground Water.				

S.No. as per EAC Minute s	As per Minutes of the Meeting	Corrected Data
	generated.	be generated.
	Wastewater generation shall not exceed 19.35	Wastewater generation shall not exceed <b>40.00</b>
	m <sup>3</sup> /day. Wastewater shall be segregated in	m <sup>3</sup> /day. Wastewater shall be segregated in
	High TDS and Low TDS streams. HTDS	High TDS and Low TDS streams. HTDS
	Effluent shall be sent to MEE system and	Effluent shall be sent to MEE system and
¥7.	Condensate to ETP. LTDS effluents shall be	Condensate to ETP. LTDS effluents shall be
Vi	treated in ETP-RO Rejects to MEE system and	treated in ETP-RO Rejects to MEE system
	RO permeate to reuse, Condensate from MEE	and RO permeate to reuse, Condensate from
	to reuse and MEE residue to AFTD. Domestic	MEE to reuse and MEE residue to AFTD.
	wastewater shall be sent to Septic tank	Domestic wastewater shall be sent to Septic
	followed by soak pit.	tank followed by soak pit.

The committee after deliberation accepted the aforesaid corrections and directed to modify the minutes of 19<sup>th</sup> EAC meeting during 6<sup>th</sup>-7<sup>th</sup> February, 2017 accordingly.

(E). Proposed expansion of carbon black (10950 TPM to 15750 TPM) and co-generation power plant (22 mw to 32 mw) in existing premises at survey no. 47, sh-46, Village: Mokha. Taluka: Mundra, Dist. Kutch, Gujarat of M/s Phillips carbon black Ltd.- reg. Correction in TOR [IA/GJ/IND2/58103/2016, J-11011/195/2016- IA II(I)]

Ministry had issued TOR to M/s Phillips carbon black Ltd., vide letter No. J-11011/195/2016-IA II (I) dated 18<sup>th</sup> November, 2016 for proposed expansion of carbon black (10950 TPM to 15750 TPM) and co-generation power plant (22 mw to 30 mw) in existing premises at survey no. 47, sh-46, Village: Mokha. Taluka: Mundra, Dist. Kutch, Gujarat of M/s Phillips carbon black Ltd.

Now PP requested for correction in the details about capacity of co-generation power plant which will be increased from 22 MW to 32 MW instead of 22 MW to 30 MW as mentioned in the Minutes of the 13<sup>th</sup> EAC meeting held during 26<sup>th</sup> -27<sup>th</sup> September, 2016 and in the TOR letter dated 18<sup>th</sup> November, 2016. The above mentioned correction has been verified by the Form-1.

After detailed deliberations the committee accepted the aforesaid correction in existing TOR and recommended to modify the minutes of the  $13^{th}$  EAC meeting held during  $26^{th}$  - $27^{th}$  September, 2016 accordingly.

### 3<sup>rd</sup>May, 2017 (Day 1)

Dwanged I DC Dattling Dlant at Vowba Chattiggawh by M/s Indian Oil Comparation I td

#### 23.3 (Environmental Clearance)

23.3.1	Environmental Clearance – reg. [IA/CG/IND2/59931/2016, J- 11011/341/2016-IA.II(I)]
	The project proponent informed following:-
	(i) The project involves proposed LPG Bottling Plant at Korba, Chhattisgarh by M/s Indian Oil Corporation Ltd.
	(ii) All the Isolated Storage & Handling of Hazardous chemicals (as per threshold planning

- quantity indicated in column 3 of schedule 2 & 3 of MSIHC Rules 1989 amended 2000) activity are listed at S.N 6 (b) of schedule of environmental impact assessment (EIA) notification under category 'B'. However, as per the general condition i.e. location of the industry within 5 km of the Critically Polluted Area the project is considered under category 'A' and appraised at Central level by Expert Appraisal Committee (EAC).
- (iii) The project proposal was considered by the Expert Appraisal Committee (Industry2) in its 17<sup>th</sup> meeting held during 26-29<sup>th</sup> December, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 15.3.2017.
- (iv) Industry will develop Green belt in an area of 33%.
- (v) The estimated project cost is Rs 120.72 crores. Total capital cost earmarked towards environmental pollution control measures is Rs 85 Lacs and the Recurring cost (operation and maintenance) will be about Rs 9.6 Lacs per annum.
- (vi) Total Employment will be 63 persons as direct & indirect after proposed activity. Industry proposes to allocate Rs 155.04 Lacs towards Corporate Social Responsibility.
- (vii) No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance from the project site. Hasdo river is flowing at a distance of 4.6km in NW direction.
- (viii) Ambient air quality monitoring was carried out at 10 locations during December 2016 to February, 2017. The baseline data indicates the ranges of concentrations as: PM<sub>10</sub> (57.57-71.36μg/m³), PM<sub>2.5</sub> (23.03-31.39μg/m³), SO<sub>2</sub> (8.15-15.59μg/m³) and NO<sub>2</sub> (9.85-29.28μg/m³) respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
- (ix) Total water requirement is 15 m<sup>3</sup>/day which be met from Hasdo river via pipeline.
- (x) There will be no industrial effluent generated in this plant. Waste water generated during plant operations (during washing of empty cylinders) will be recirculated/ resued. There shall no increase in quantity of waste water generation from operation of proposed project. Zero Liquid discharge system will be ensured.
- (xi) Power requirement after proposed project will be 400kw and will be met from Chhattisgarh State Electricity Board (CSEB).
- (xii) 1x250 kVA and 1x750 KVA will be used DG sets are used as stand by during power failure. Stack (height 3.0.) will be provided as per CPCB norms.
- (xiii) There will be not be any process, the project is for storage facility.

EAC has deliberated on the proposal. EAC noted that the public hearing is exempted for the proposal. EAC while considering the baseline data noted that, the soil in the study area is showing acidic nature. EAC noted that for the storage facility PP proposes to cut trees and suggested plant atleast 20 tree/a tree to be cut. EAC noted that, as the proposed facility will lead to increased traffic load and storage of highly inflammable materials, the details of precautionary measures have to be submitted.

### EAC after detailed deliberation has deferred the proposal for want of following additional information:

- 1. Number of trees to be cut, area and number of trees to be planted.
- 2. Number of trucks to be passing (in & out) and details of traffic management.
- 3. Details of fire hazardous management and the details in 3D model.
- 4. Comprehensive safety and risk assessment plan.
- 5. Details of pipeline for transport of materials and measures to control/detect leakage and accident/causality management plan.
- 6. Scientific reason for the acidific nature of the soil and assurance that due to the proposed project, the nature of soil and ground water will not get affected.
- 7. Revised layout plan with 10 m wide green belt with trees and 33% of area as green area with trees.
- 8. At least 2.5% of the project cost shall be earmarked for Enterprises Social Commitment (ESC). Year wise ESC plan for five years (covering drinking water (with RO facility) to nearby villages, computer/smart class facility/infrastructure development of schools of nearby

#### **Reconsideration of EC**

Expansion of Technical Pesticide Manufacturing Unit (517.4 MTPM to 1117.4 MTPM) at S.P. 3-7/B (B1+B2), Keshwana Industrial Estate, Tal: Kothputli, Dist. Jaipur, Rajasthan by M/s Agrow Allied Ventures Pvt. Ltd.-Reconsideration of Environmental Clearance - reg. [IA/RJ/IND2 /31492/2015, J-11011/264/2015-IA II (I)]

The Member Secretary informed the EAC that the project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 17<sup>th</sup> EAC meeting held during 26<sup>th</sup> December, 2016 and sought following additional information:

- i. Action taken report on certified compliance report.
- ii. CGWA permission for withdrawal of ground water, as the proposed project is located in Tal: Kothputli i.e., water deficit area of Rajasthan (earlier permission is expired on 21.11.2016).

Thereafter, the project proponent and the accredited consultant M/s San Envirotech Pvt. Ltd., Ahmedabad gave a detailed presentation on the proposal and informed the following:-

- (i) The project involves Expansion of Technical Pesticide Manufacturing (from 517.4 MT/month to 1117.4 MT/month) at S.P. 3-7/B (B1+B2), Keshwana Industrial Estate, Tal: Kothputli, Dist. Jaipur, Rajasthan by M/s Agrow Allied Ventures Pvt. Ltd.
- (ii) All Pesticides industry and pesticide specific intermediates (excluding formulations) units producing technical grade pesticides are listed at Sl.No. 5(b) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) The project proposal was considered by the Expert Appraisal Committee (Industry2) in its 2<sup>nd</sup> meeting held during 16-17<sup>th</sup> December, 2015 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 28<sup>th</sup> January, 2016.
- (iv) Ministry has issued Environment Clearance to M/s Agrow Allied Ventures Pvt. Ltd. vide No.J-11011/261/2012-IA-II(I) dated 30<sup>th</sup> January 2015.
- (v) Unit is engaged in manufacturing of pesticide formulation 20,000 MT/annum & Agro technical products with production capacity of 517.4 MT/month. The proposal is for Expansion of Expansion of Technical Pesticide Manufacturing (from 517.4 MT/month to 1117.4 MT/month) S.P. 3-7/B (B1+B2), Keshwana Industrial Estate, Tal: Kothputli, Dist. Jaipur, Rajasthan.
- (vi) So after expansion, total production capacity of the unit will be 1117.4 MT/month. HCl and Di Chloro Phenol is recovered as by-products. Total Area of project is 40400 m<sup>2</sup>. Proposed expansion will be done in existing premises only.

#### **Products and capacities**

Sr.	Name of products	Quantity (MT/month)				
No.		Existing	Proposed	Total		
1.	2,4-D Sodium Salt	173	00	173		
2.	2,4-D Acid Technical	141	00	141		
3.	2,4-D Amine Salt	150	00	150		
4.	2,4-D Ethyl Ester Technical	50	00	50		
5.	Clodinfaop- Propargyl	1.7	00	1.7		
	Chloride Technical					

6.	Lambda Cyhalothrin	1.7	00	1.7
TT 1	Technical			
	picides	1.00	1.50	<b>50</b>
7.	Glyphosate	00	50	50
8.	Pretilachlor	00	20	20
9.	Atrazine	00	10	10
10.	Imizathypr	00	10	10
11.	Sulphosulpron	00	2.5	2.5
12.	Metsulphron	00	2.5	2.5
13.	Metribuzin	00	10	10
14.	Quizalafop - p- ethyl	00	10	10
15.	Oxyflurofen	00	10	10
16.	Pendimathalien	00	20	20
17.	Bispyribac Sodium	00	10	10
Insec	ticides		•	
18.	Diafenthuron	00	20	20
19.	Imidacloroprid	00	10	10
20.	Acetamiprid	00	10	10
21.	Thiamethoxam	00	10	10
22.	Cypermethrin	00	20	20
23.	Permethrin	00	10	10
24.	Delta Cypermethrin	00	10	10
25.	Buprofezin	00	10	10
26.	Fipronil	00	10	10
<u>20.</u> 27.	Thiophenate methyl	00	10	10
28.	Emamectin benzoate	00	10	10
29.	Bifenthrin	00	10	10
30.	DDVP	00	10	10
31.	Chlorpyriphos	00	20	20
32.	Indoxacarb	00	05	05
33.	Novaluron	00	10	10
34.	Fenpyroximate	00	10	10
	gicides	Las		Т.
35.	Azoxystrobin	00	15	15
36.	Tricyclozole	00	10	10
37.	Hexacanazole	00	10	10
38.	Mancozeb	00	150	150
39.	Metalexyl	00	10	10
40.	Diafenaconzole	00	10	10
41.	Propiconazole	00	10	10
42.	Tebuconazole	00	10	10
Inter	mediates	•	1	'
43.	MPBD	00	25	25
Tota		517.4	600.0	
	Products	1	1	1 ,
1	HCl (28 to 30%)	100	50	150
2	Recovered Di Chloro	60	00	60
	Phenol (30%)			
	Total	160	50	210

(vii) Cost of the existing project is 40 crore & additional cost for the proposed expansion is around Rs. 12 crore; Out of which around 3.0 crore will be used for development of EMS (Environmental Management Systems) as capital cost & around Rs. 1.61 crore as recurring cost per annum.

- (viii) At present, total water requirement (industrial + domestic + greenbelt) is 40.5 KLD. After expansion; it will be increased by 108.5 KLD, thereby summing up to total consumption of water as 149.0 KLD; out of which 55 KL/day will be fresh water requirement & 94 KL/day will be met from recycle/treated water (product water from RO & condensate recovery from MEE). Unit is satisfying its fresh water requirement from bore well. After expansion source of fresh water consumption will remain same.
  - (ix)At present, power requirement is 800 kVA and after expansion it will be increased up to 1200 kVA. Total power requirement will be fulfilled from Rajasthan Electricity Board. Unit has already installed 2 nos. of D.G. sets (300 kVA each) and after expansion, it will install 500 kVA of stand by D.G. sets (2 nos.) to meet emergency power requirement and used only during failure of power supply.
  - (x) At present, Coal is used as fuel 30 tons/day. After proposed expansion, 50 tons/day Coal + Pet coke will be used. HSD @ rate of 300 lit/day is used in stand by D.G. sets of 300 kVA each & after expansion 500 lit/day will be used in newly installed D.G. sets of 500 kVA each. Fuel details are tabulated in below table.

#### Fuel details are tabulated in below table.

Sr.	Equipment	Type of fuel	Fuel consumption		
No.			Existing	Proposed	Total
			_	(Additional)	
1	Boiler + HAG	Coal + Pet Coke	30 TPD	20 TPD	50 TPD
2	Stand by D. G.	HSD	300 lit/day	200 lit/day	500 lit/day
	Set			_	

#### (xi) Wastewater Generation:

Sr	Source	Wastewater Gen	neration (KL/day)
		Existing	Total after expansion
1.	Domestic	6.0	13.0
2.	Industrial		
i)	Process	8.7	75.0
ii)	Scrubber	2.0	2.0
iii	Washing	3.0	10.0
iv	Cooling	1.0	10.0
v)	Boiler	0.75	1.5
Tota	al Industrial	15.45	98.5
Tota	al (1+2)	21.45	111.5

#### (xii) Details of Stacks pollutants:

Sr. No.	Stack attached to	Stack Height (m)	Fuel	Fuel consumption rate	APC measures	Probable Emission	
Flue	Flue Gas Stacks - Existing						
1.	Boiler	30	Coal	30 TPD	Cyclone +	PM<150	
	(2 tons/hour)				Bag filter	mg/NM <sup>3</sup>	
2.	Hot Air Generator					SO <sub>2</sub> <100 ppm	
3.	D.G. Set (2 nos.)	11	HSD	300 lit/day		NO <sub>x</sub> <50 ppm	

	(300 KVA each)					
Pro	cess Gas Stacks - Exi	sting				
1.	Chlorination vessel of phenol	15			Two stage water, one stage Alkali scrubber	HCl<20 mg/m <sup>3</sup> Cl <sub>2</sub> <9 mg/m <sup>3</sup>
Flue	Gas Stacks - Propos	sed			1	
1.	Boiler (5 TPH)	30	Coal + pet coke	50 TPD	Cyclone + Bag filter	PM<150 mg/NM <sup>3</sup> SO <sub>2</sub> <100 ppm
2.	D.G. Set (2 nos.) (500 KVA each)	11	HSD	500 lit/day		$NO_x$ <50 ppm
Pro	cess Gas Stacks - Pro	posed			1	
1.	Reaction vessel of Pretilachlor & Metalexyl		-	-	Two stage water, one stage Alkali scrubber	HC1<20 mg/m <sup>3</sup>
2.	Reaction vessel of Pendimathalien	11	-	-	Alkali (Soda ash) scrubber	NOx<25 mg/m <sup>3</sup>
3.	Reaction vessel of Permethrin & Delta Methrin	11	-	-	Two stage water, one stage Alkali scrubber	HCl<20 mg/m <sup>3</sup>

#### (xiii) **Details of Hazardous Waste Generation:**

Sr.	Type of	Category	Quantity		Disposal facility		
No.	Waste	of waste	Existing	Total after			
		as per HWM		expansion			
		Rules					
		2016					
1	ETP waste	35.3	5MT/mont h	30 MT/month	Collection, storage, Transportation and		
	MEE salt	-	2.5MT/mo nth	35 MT/month	disposal to TSDF.		
	Inorganic salt from process	-	0	115MT/month			
2	Process residue	29.1	-	40MT/month	Collection, Storage, Transportation, Disposal at CHWIF approved by SPCB		
3	Used Oil	5.1	0.5 kl/yr.	1.0 Kl/yr.	Collection, storage & reuse for internal lubrication purpose. In case of excess, sell to registered reprocessors.		

4	Discarded	33.1	500	2000	Collection, storage
	Containers/		Nos./month	Nos./month	and disposal by
	Liners		250	1000 kg/month	selling to authorized
			kg/month		dealers.
5	Distillation	20.3	5.5MT/mo	10MT/month	Collection, storage,
	Residue		nth		transportation and
					disposal at CHWIF
					site or send to cement
					industry for co-
					processing.
6	HCl(28 –	29.6	100MT/mo	150MT/month	Collection, storage,
	30%)		nth		captive use/ sell to
					actual users.

(xiv) The ambient air quality monitoring was carried out at eight AAQM locations, to assess existing sub regional air quality status during the month of March, 2016 to May, 2016. The parameters calculated are as follows:

#### i. Particulate Matter (PM10)

An average and  $98^{th}$  percentile value of 24-hourly PM10 values at all the locations varied between 61.5-73.0  $\mu$ g/m³ and 66.6-79.4  $\mu$ g/m³, which are well within the stipulated standard of CPCB,  $100 \mu$ g/m³.

#### ii. Particulate Matter (PM2.5)

An average and  $98^{th}$  percentile value of 24-hourly PM2.5 values at all the locations varied between  $33.2\text{-}41.6 \text{ }\mu\text{g/m}^3$  and  $35.7\text{-}47.8 \text{ }\mu\text{g/m}^3$ , which are well within the stipulated standard of CPCB,  $60 \text{ }\mu\text{g/m}^3$ .

#### iii. Sulphur Dioxide (SO2)

An average and  $98^{th}$  percentile value of 24-hourly SO2 value of arithmetic mean at all the locations ranged between 13.5-15.9  $\mu g/m^3$  and 14.9-19.7  $\mu g/m^3$  respectively, which are well within the stipulated standards of  $80 \mu g/m^3$ .

#### iv. Oxides of Nitrogen (NOx)

An average and  $98^{th}$  percentile value of 24 hourly NOx value of arithmetic mean at all the locations ranged between 15.0-17.7  $\mu g/m^3$  and 16.7-20.3  $\mu g/m^3$  respectively, which are much lower than the standards i.e.  $80~\mu g/m^3$ , stipulated by CPCB.

- (xv) Public hearing Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.
- (xvi)The certified compliance report of the earlier EC has been submitted vide Ministry's Regional Office at lucknow letter dated 20.07.2016.

#### (xvii) CSR plan: Budgetary provisions for the social upliftment

Sr	Activity	Budgetary provision (Rs. in Lakhs)
1	Educational activities	7
2	Drinking water and sanitation facilities	4.5
3	Public Health and family welfare	6.5
4	Women Empowerment & children	3.5
	Development activities	
5	Preservation of the Environment and	4.5

	Sustainable Development	
6	Miscellaneous as per the demand of	4
	surrounding villages	
Tot	al	30.0

EAC has deliberated on the proposal and the additional documents submitted by the PP. EAC noted that the action taken note submitted by the PP with respect to the non complied points in the certified compliance report is satisfactory; though, it was not verified by the Regional Office. EAC has suggested the PP to use the surface water in place of ground water, considering the groundwater scenario of the region. PP has accepted to the suggestion.

EAC after detailed deliberation has recommended the project for environmental clearance subject to compliance of following specific and other general conditions:

#### **Specific Conditions:**

- 1. No ground water shall be used for expansion project. Online flow meter shall be installed for ground water extraction monitoring for the existing project.
- 2. Water requirement shall be met from authorized distributors/tankers
- 3. PP shall comply with conditions in the existing EC and shall submit a report to the Regional Office within six months.
- 4. The by-products which fall under the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.
- 5. Zero Liquid Discharge system shall be ensured.
- 6. Continuous online (24 x7) monitoring system to be installed in the unit. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB.
- 7. Enterprises Social Commitment (ESC) plan shall be implemented with atleast 2.5 % of the expansion cost. PP shall develop and maintain RO drinking water facility with modern facilities (1000 L/h), LED light in the nearby villages, for at least five years.
- 8. Green belt of 10 m width shall be developed along the periphery of the plant with trees. At least 33 % of the area shall be developed as green area with trees.
- 9. PP shall plant and maintain at least 1000 trees/year for five year in the nearby villages.
- 10. Unit shall have an environment management cell with full fledged laboratory and an Environmental Manager having post graduate/graduate qualification in Environmental Sciences/Environmental Engineering.

#### 23.4 Terms of Reference (TOR)

23.4.1 Manufacturing of Dyes Intermediates of M/s Jay Dyechem, located at S. no. 2/10, Narol-Vatva Road, Narol, Ahmedabad, Gujarat – Terms of References - reg. [IA/GJ/IND2/63139/2017, J-11011/126/2017-IA.II(I)]

The project proponent gave a detailed presentation on the proposal and informed the following:-

- (i) The project involves manufacturing of Dyes Intermediates of M/s Jay Dyechem, located at S. no. 2/10, Narol-Vatva Road, Narol, Ahemdabad, Gujarat.
- (ii) All Synthetic Organic Chemicals Industry located outside the notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) Being a new project, the land of area 2000 sq m, has been acquired. Industry will develop the Greenbelt area of 31.25 %, i.e. 625 m<sup>2</sup> out of 2000 m<sup>2</sup> area of the project. The project cost is 4.6 crore. Total Employment will be 20 nos. for the proposed project.

- (iv) No National Parks, Wildlife Sanctuaries, etc. lies within the 10 km radius of the project site.
- (v) Total water requirement will be 24.7 m<sup>3</sup>/day which will be met from AMC water supply/tankers. The generated effluent will be treated within the plant premises and sent to Common MEE system.
- (vi) Power requirement for proposed new project will be 100 KVA and will be met from Torrent Power Ltd.
- (vii) For the proposed new project, boiler of 1 T/hr. will be installed. Cyclone separator followed by bag filter with a stack of height of 15 m will be installed.
- (viii) As a precautionary measure, two stage Alkali scrubber will be provided for Sulphonator and Nitrator vessels.
- (ix) Discarded containers/barrels/lines, Used Oil, ETP sludge, Iron Sludge, Spent Sulphuric Acid.
- (x) Being a proposed new project, the details of proposed products is as under:

#### **DETAILS OF PRODUCTS**

Sr.	Name of Product	Quantity[ MT/month ]	
no.			
1.	Sulpho OAVS	And /	
	OR		
2.	Sulpho J Acid	And /	
	OR		
3.	3 Aniline 2,4 Di Sulphonic Acid	And /	
	OR		
4.	4 – NAPSA	And /	25.0 [ Real ]
	OR		
5.	BLUE HEGN BASE	And /	
	OR		
6.	4 CAP [ 4 Chloro 2 Amino Phenol]	And	
	/ OR		
7.	C ACID	And	
	/ OR		
8.	Sulpho C Acid	And	
	/ OR		
9.	PERI ACID	And	
	/ OR		
10.	Sulpho Tobias Acid	And	
	/ OR		
11.	6-Acetyl OAPSA	And	
1.5	/ OR		
12.	Acetyl Bronner's Acid		
	Name of By Products		
1.	Laurent's Acid		15.0
2.	Spent Sulphuric Acid		Max. 400

EAC has deliberated on the proposal. EAC noted that the proposed location is not suitable for setting up of any chemical industry. **EAC after detailed deliberation has deferred the proposal and suggested PP to submit the proposal with**:

- i. Alternate site analysis for the proposed project.
- ii. In principle permission from the local government authorities and concerned State Government Department for setting up of the proposed industry in the currently proposed site.

TMTPA HGU – 2 x 60 TMTPA Kero HDS – 300 TMTPA DHDT revamp) at Abhaychandrapur, Jagatsinghapur, Orissa by M/s Indian Oil Corporation Limited Paradip Refinery – TOR/Amendment of References – reg. [IA/OR/IND2/63183/2017, J-11011/121/2017-IA.II(I)]

The project proponent gave a detailed presentation on the proposal and informed the following:

- (i) The project involves installation of facilities of BS VI MS/HSD (ISOM -1100 TMTPA Indmax GDS- 1150 TMTPA HGU 2 x 60 TMTPA Kero HDS 300 TMTPA DHDT revamp) at Abhaychandrapur, Jagatsinghapur, Orissa by M/s Indian Oil Corporation Limited Paradip Refinery.
- (ii) PP have obtained TOR from Ministry vide letter no. J-11011/344/2016-IA.II(I) dated 28.02.2017 for Installation of Ethylene Recovery Unit (ERU) and Mono Ethylene Glycol Unit (MEG) at IOCL Paradip Refinery cum Petrochemical Complex.
- (iii) The proposed facilities shall also be set up in the Paradip Refinery cum Petrochemical Complex.
- (iv) PP has requested to consider for single TOR for both the project and requested for an amendment accordingly.

EAC has deliberated on the proposal. EAC noted that the proposed facilities and the facilities for which TOR issued vide letter dated 28.02.2017 are within the Paradip Refinery cum Petrochemical Complex. EAC has also considered the request of the PP regarding baseline data collection from January- March, 2017 and desired that that EIA/EMP report shall be submitted combining both the project. Public hearing is exempted under para 7(ii) of EIA Notification, 2006.

EAC after detailed deliberation has recommended for amendment in the TOR letter no. J-11011/344/2016-IA.II(I) dated 28.02.2017 with the following additional conditions:

- i. Recommendation from State Coastal Zone Management Authority shall be obtained.
- ii. Enterprises Social Commitment plan shall be submitted with atleast 5 % cost of the expansion project for five years covering RO drinking water facility for villages/Computer/smart class facility for schools in the nearby villages.
- Expansion from 60KLD to 150 KLD (60 KLPD to 90 through modification and from 90 KLPD to 150 KLPD by installing a new 60 KLPD plant) grain/molasses based distillery of M/s. Rana Sugar Ltd, (Distillery Division) Village Laukha, District Tarn Taran, Punjab Terms of References reg. [IA/PB/IND2/63809/2017, J-11011/175/2017-IA-II(I)]

The Project Proponent made a detailed presentation on the salient features of the project and informed that:

- 1. The proposal is for Expansion from 60KLD to 150 KLD (60 KLPD to 90 through modification and from 90 KLPD to 150 KLPD by installing a new 60 KLPD plant) grain/molasses based distillery of M/s. Rana Sugar Ltd, (Distillery Division) Village Laukha, District Tarn Taran, Punjab.
- 2. All Distilleries are listed at Sl.No. 5(g) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- 3. Ministry has issued EC earlier vide letter no. J.11011/9/2005-1A II (I) dated April 26, 2005 to M/s Rana Sugars Limited Distillery Division.
- 4. Project area is 40 acres; Expansion will be within the existing area. Industry will develop Greenbelt in an area of 33 % i.e., 5.31 Ha/m². The estimated project cost is Rs 115 Cr., including existing investment of Rs 35 Cr. Crores. Total capital cost earmarked towards environmental pollution control measures is Rs 10.0 Cr. Total Employment will be 175 persons after expansion. Industry proposes to allocate Rs 22.5 lakh towards Corporate

- Social Responsibility.
- 5. No National parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. No River/ water body is flowing near the plant.
- 6. Stack monitoring was carried out by PPCB on 20-09-2016 and concentrations of PM were 134 mg/Nm<sup>3</sup> at 12% CO<sub>2</sub>.
- 7. Total water requirement is 1488 KLD. Total water requirement for the project after expansion will be 1488m3/day. Water requirement for first run would be 4476 m3/day, which will be reduced through recycling of 2988m3/day of treated water/Condensates.
- 8. Water requirement of the plant is being met by ground water & recycled water. The existing molasses/grain based distillery would have "Zero Effluent discharge".
- 9. The proposed grain/molasses based expansion would also be based on "ZERO DISCHARGE".
  - Spent Wash is sent to multi-effect evaporator for final disposal.
  - A duly lined storage lagoon of 30 days capacity has already been provided.
  - Spent Lees from Distillation column and process condensate will be recycled.
  - Waste water is being treated in ETP and used for greenbelt development.
  - Effluent treatment plant already installed for treatment of waste. Project proponent proposes to enhanced the capacity of ETP for expansion. So, there for no impact on water environment for proposed expansion.
  - 10. The estimated power requirement after expansion will be 4.4 MW.
  - 11. Details of Process emissions generation and its management.
    - A stack of adequate height equipped with Multi-cyclone followed by bag filters is installed with the boiler to control the particulate and gaseous emissions due to combustion of fuel.
    - CO2 generated during the fermentation process is collected by utilizing CO2 Scrubbers and sold to vendor.
    - All the roads are asphalted to control the fugitive dust emissions.
    - Proper servicing & maintenance of vehicles is/will be carried out.
    - Green Belt around the periphery and within premises is already in place and same will be maintained.
- 21. Details of Solid waste/ Hazardous waste generation and its management.
  - Fly ash from the Boiler will be utilized in nearby brick manufacturing units.
  - Spent wash generated during Molasses/grain operation, has been incinerated in Multi-effect evaporator Details of Solid Waste generation are tabulated below:

Source of Solid Waste	Total Quantity after	Disposal Method
Generation	<b>Proposed Expansion</b>	
Molasses, Fermentation	1240 TPD of conc.	Incineration
& Distillation.	Spent wash	
Grain Fermentation &	950 TPD of conc.	DWGS/DDGS
Distillation.	Spent wash	
Fly ash	Existing 15TPD and	Landfills for low
	after expansion it will	lying area.
	be 35 TPD	

#### 23. Following are the list of existing and proposed products:

Existing Product list (In case of Expansion proposals):

S. No.	Description	Existing	Addition With modification	Total After Modification	Addition with New Plant	Total (Modification + With new Plant)	
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1.	Molasses	270(TPD)	140(TPD)	410(TPD)	270 (TPD)	680 (TPD)
	Grain	135(TPD)	65(TPD)	200(TPD)	135(TPD)	335(TPD)
2.	ENA/RS/AA	60(TPD)	30(TPD)	90(TPD)	60(TPD)	150(TPD)

EAC has deliberated on the proposal. EAC after detailed deliberation has recommended the project with Standard TOR as available in the Ministry's website and with following additional TOR and public hearing.

#### **Additional TOR**

- 1. Layout plan earmarking the space for 10 M wide green belt around the periphery of the plant with perennial trees shall be submitted totaling 33% of the total project area as green area.
- 2. The water balance chart shall be prepared ensuring reduction of requirement up to 6 KL/KL of alcohol.
- 3. Electrostatic precipitation shall be used for emission control with adequate stack height.
- 4. No ground water shall be used for expansion project.
- 5. Enterprises Social Commitment plan shall be submitted with at least 5 % cost of the proposed project for five years covering RO drinking water facility/LED/Solar panel for three villages.
- 6. Fly ash shall be given to authorized cement/brick manufactures and consent from them shall be submitted.
- 7. Latest Certified Compliance Report from the Regional Office of Ministry for the existing EC shall be submitted.

# 23.4.4 Proposed expansion products (Organic Pigments) at Plot No: 316/A, 2nd Phase area, G.I.D.C, Vapi, Dist. - Valsad (Gujarat) by M/s Kunder Chemicals Pvt. Limited – Terms of References – reg. [IA/GJ/IND2/63858/2017, J-11011/174/2017-IA.II(I)]

The Project Proponent gave a detailed presentation on the salient features of the project and informed that:

- i. The proposal is for expansion of existing production capacity of Organic Pigment and Pigment Dispersions products from 20 TPM to 300 TPM at Plot. No. 316/A, 2<sup>nd</sup> Phase, GIDC Notified Industrial Area, Vapi, Dist- Valsad, Gujarat by M/s. Kunder Chemicals Pvt. Limited.
- ii. All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B' but due to the applicability of general condition (located in the Critically Polluted Area/located in the interstate boundary), it is considered under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- iii. M/S. Kunder Chemicals Pvt. Limited was established before 1994 and it is a small scale unit, hence earlier EC for existing unit was not applicable.
- iv. Existing land area is 6001 M<sup>2</sup>; No additional land will be used for proposed expansion.
- v. Industry will develop Greenbelt in an area of 33 % i.e., 1800 m<sup>2</sup> out of 6001 m<sup>2</sup> of area of the project.
- vi. Total estimated project cost after proposed expansion will be Rs. 550 Lacs including existing investment of Rs. 189 Lacs. Total capital cost earmarked towards environmental pollution control measures after proposed expansion will be Rs. 50 Lacs and the Recurring cost (operation and maintenance) will be about Rs. 200 Lacs per annum.
- vii. Total existing Employment will be 30 persons as direct & additional 40 persons will be employed as direct employment after expansion. Industry proposes to allocate Rs. 10.00 lakhs of 2.5 % towards Corporate Social Responsibility.
- viii. No national parks, wildlife corridors etc. lies within 10 KM distance. River Damanganga is flowing at a distance a distance of 4.20 km in SW direction.
- ix. Total water requirement is 395.84 m³/day of which fresh requirement of 395.84 m³/day (total) and will be met from GIDC Vapi Notified Industrial Area.

- x. Treated effluent of 306.3 m<sup>3</sup>/day will be treated through Primary and secondary ETP, after treatment effluent will be disposed to underground effluent drainage line to CETP for further treatment.
- xi. Power requirement after expansion will be 400 KVA including existing 200 KVA and will be met from DGVCL State power Distribution Corporation limited (DGVCL). Existing unit has one DG set of 187.5 KVA capacity, additionally No D.G.Set will used as standby during power failure. Stack (height 11 meters) will be provided as per CPCB norms to the existing DG set of 187.5 KVA which will be used as standby during power failure.
- xii. Existing unit has boilers of 0.6 TPH, 2 nos. of coal fired (40 SCM/hr) & Thermopack of 4 lac.k.cal, 2 nos. natural gas (70 SCM/Hr). Adequate stack of height of 11 meters for boilers and Thermopacks is already installed for controlling the Particulate emission (within Statutory limit of 150 mg/Nm³) for proposed expansion additional 4TPH Natural Gas fired boiler (120 SCM/hr) will be installed with adequate stack height of 11 meter.
- xiii. In existing unit, one process stack is attached to Chlorinator & drowning vessel, Three stage water followed by alkali scrubber and 11 meter stack height will be provided to control the emission. Particulate matter will be generated from the proposed Spin Flash Dryer unit. Cyclone separator followed by bag filter with 11 meters chimney will be provided.

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

	Details of Solid waste/Hazardous waste generation and its management.				
S.	Type of hazardous	Quantity,	TPA	Place of	Disposal
No.	waste	Existing	After proposed expansion	Storage	
1	Used oil (5.1)	0.013	1.0	Drum	Sell to registered re-refiner
2	Discarded containers (33.1)	2.0	20.0	Pallets/drums	Sell to authorized recycler
3	Inorganic Acid (26.3)	204.0	1000	Storage tank	Sell to actual & authorized users
4	ETP waste, (35.3)	96	300	HDPE bags	Dispose off into TSDF, Vapi
5	Aluminum Chloride Soln. (SCH: II, B10)	2880	14400	Storage tank	Sell to actual & authorized users

xv. Following are the list of existing and proposed products: Existing Product List:

S.	Product	Quantity Capacity, TPA
No.		
1.0	Copper Phthalo Cyanine Green	240

Proposed Products and their Capacities for EC Expansion:

S. No.	Product	Quantity Capacity, TPA
1	Copper Phthalo Cyanine Green	960
2	Pigment Beta Blue 15.3 & 15.4	1200
3	Pigment Emulsions/ Dispersions	1200

EAC has deliberated on the proposal. EAC has considered the request of the PP regarding collection of the baseline data from March, 2017 onwards considering the approaching monsoon period. Public hearing is exempted as per Section 7(i), III. Stage (3), Para (i)(b) of EIA Notification as the project is located in the notified Industrial area/estate.

EAC after detailed deliberation has recommended the project with Standard TOR as available in the Ministry's website and with following additional TOR and exempting public hearing.

#### **Additional TOR**

- 1. Layout plan earmarking the space for 10 M wide green belt around the periphery of the plant with perennial trees shall be submitted totaling 33% of the total project area as green area.
- 2. Enterprises Social Commitment plan shall be submitted with atleast 2.5 % cost of the expansion project for five years covering RO drinking water facility/LED/Solar panel for three villages.
- 3. Chemical name of the product with CAS No. number and the actual end use shall be provided.
- 4. Toxicity study ( $LC_{50}/LD_{50}$ ) of the products shall be undertaken.
- Proposed expansion in production of pigments and pigment related products at Plot No. A-6/3, SIPCOT Industrial Complex, Pachayakuppam Village, Cuddalore District, Tamil Nadu by M/s Supreme Dyechem Pvt. Ltd. Terms of References reg. [IA/TN/IND2/63665/2017, J-11011/172/2017-IA-II(I)]

The Project Proponent gave a detailed presentation on the salient features of the project and informed that:

- (i) The project involves expansion in production of pigments and pigment related products at Plot No. A-6/3, SIPCOT Industrial Complex, Pachayakuppam Village, Cuddalore District, Tamil Nadu by M/s. Supreme Dyechem Pvt. Ltd.
- (ii) All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B' but due to the applicability of general condition (located in the Critically Polluted Area), it is considered under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) Existing land area is 0.5 hectares. No Additional land will be used for proposed expansion. Industry has Greenbelt in an area of 33% i.e.0.165Ha out of 0.5 ha of area of the project. The estimated project cost is Rs. 24.0 Crores. Total of 250 persons will be employed after expansion. Industry proposes to allocate Rs. 14.0 Lakhs towards Corporate Social Responsibility.
- (iv) No national parks, wildlife sanctuaries, Biosphere reserves, tiger/ elephant reserves, wildlife corridors etc. lies within 10 km distance. Palar River is flowing at a distance of 0.77 km in Eastern direction.
- (v) Total water requirement of 14055 KLD will be met from SIPCOT Water supply, Cuddalore.
- (vi) The effluent generated is treated in Effluent Treatment Plant unit and excess treated effluent of 924 KLD is discharged to CUSECS.
- (vii) Power requirement after expansion will be 1500 KVA will be met from Tamil Nadu Electricity Board (TNEB), existing unit has DG set of 65 kVA capacity. Stack (height 15.0 m) provided as per CPCB norms.
- (viii) Three stage scrubbers are attached to Process vessel of CPC Crude Plant with a stack height of 15.0 m as per CPCB norms.
- (ix) The hazardous waste generated during manufacturing various products are given below:

		S. No	Details of process generating	Details of waste stream	Quantity Tons per y	generated year	Activity for which authorizatio	
		hazardous waste	generated	Existing	Proposed	n is issued		

1.	Industrial operations using mineral/ synthetic oil as lubricant in hydraulic systems or in other applications	5.1 used/ spent oil	0.01	0.5	Collection, storage, Transport and disposal	
2	Production / formulation of drugs / pharmaceuticals	34.3 Chemical Sludge from Wastewater Treatment		4620	Collection, storage, Transport and disposal	

(x) Following are the list of existing and proposed products:

#### **Existing product list and Proposed Product list**

S. No.	Description	Production Capacity (MT/Month)		
S. NO.	Description	Existing	Proposed	
1	Alpha Blue	5.25	150	
2	Beta Blue	5.0	100	
3	CPC Crude Blue	-	300	
4	Blue Additives	-	90	
	Total	10.25	640	

EAC has deliberated on the proposal. EAC noted that the disposal of excess effluent to CUSECS will ultimately have detrimental effect to the marine life. EAC suggested PP to implement ZLD system. Public hearing is exempted as per Section 7(i), III. Stage (3), Para (i)(b) of EIA Notification as the project is located in the notified Industrial area/estate.

EAC after detailed deliberation has recommended the project with Standard TOR as available in the Ministry's website and with following additional TOR exempting public hearing.

#### **Additional TOR**

- 1. PP shall submit a letter from SPCB regarding in-principle permission for doing expansion in the proposed area.
- 2. PP shall submit valid documents to state that the unit existed before the year 2006.
- 3. 10 M wide green belt shall be developed around the periphery of the plant with trees. 33% of the total project area shall be developed as green area with trees.
- 4. PP shall submit a revised layout plan with updated details.
- 5. Zero Liquid Discharge system shall be implemented.
- 6. Enterprises Social Commitment plan shall be submitted with at least 2.5 % cost of the expansion project for five years covering RO drinking water facility/LED/Solar panel for three villages.
- 7. Chemical name of the product with CAS No. number and the actual end use shall be provided.
- 8. Toxicity study ( $LC_{50}/LD_{50}$ ) of the products shall be undertaken.
- Manufacturing of Synthetic Resins at K-11(1) SIPCOT Industrial Park, Phase II Mambakkam Village, Sriperumbudur Taluk, Kanchipuram District, Tamil Nadu by M/s Sam Global Chemical (India) Private Limited Terms of References reg. [IA/TN/IND2/63133/2017, J-11011/124/2017-IA.II(I)]

The Project Proponent made a detailed presentation on the salient features of the project and informed that:

- (i) The project involves manufacturing of Synthetic Resins at K-11(1) SIPCOT, Industrial Park, Phase II Mambakkam Village, Sriperumbudur Taluk, Kanchipuram District, Tamil Nadu by M/s Sam Global Chemical (India) Private Limited.
- (ii) All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B' but due to the non functioning of SEIAA, Tamilnadu, the project is considered under Category 'B' and appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) The total Land requirement for the proposed project is 1.17 Acres (4735 Sq.m). Industry will develop Greenbelt over an area of 33 % i.e., 1562 Sq.m out of 4735 Sq.m of area of the project. The estimated project cost is Rs. 4.0 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 62.00 Lakhs and the Recurring cost (operation and maintenance) will be about Rs. 11.20 Lakhs per annum. Total Employment will be 24 persons as direct. Industry proposes to allocate about 2.5 % of net earnings towards Corporate Social Responsibility.
- (iv) No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Theneri Lake 5.28 SW, Shri Perumbudur Lake 5.77 N, Pennalur Lake 9.46 NE, Nemili Lake 10.47 N, Valapuram Eri 14.23 N and Koovam Lake 12.9 NW are located within 10.0 km radius study area.
- (v) Total water requirement for the proposed project is 18.0 m<sup>3</sup>/day of which fresh water requirement of 13.5 m<sup>3</sup>/day and will be met from SIPCOT. Treated effluent of 6 m<sup>3</sup>/day will be treated through Effluent Treatment with RO Plant will be based on Zero Liquid discharge system.
- (vi) The Power requirement for the proposed project is 250 KW and will be met from Tamilnadu State power distribution corporation limited (TNSPDCL). DG set of 125 KVA (1No) capacity will be used as standby during power failure. Stack (height 6.0 m) will be provided as per CPCB norms to the proposed DG set.

(vii) Details of Process emissions generation and its management.

Source	Emission	Control & Disposal Mode	
Reactors: from process	VOC	As per PCB Norms	
DG set 1*125 KVA	Flue gases	As per PCB Norms	
Thermic fluid heater, 2 x10 lakh k.cals	Flue gases	As per PCB Norms	

(viii)The various hazardous wastes generated from the process as below:

- 1. Waste oil/used oil.
- 2. ETP Sludge & Evaporation Salt.
- 3. Used Filter Cloth.
- 4. Empty containers/Bags.
- 5. Cotton soaked waste.
- 6.Spent Solvent

These wastes will be stored in an isolated area above concrete platform under roof shed. These waste will be segregated & stored and will be disposed of by giving it to the TNPCB authorized dealers/recycler/TSDF within a stipulated period of time (90 days). The high calorific value waste like used filter clothes will be sent to TSDF Gummudipoondi.

(ix). Proposed Products and their Capacities for Expansion

S. No	Products Name	Total proposed Capacity (MTA)
1	Alkyd Resin	4000
2	Polyester resin	4000
4	Epoxy Acrylates	3000
5	Lacquer	1000
	Total	12,000

EAC has deliberated on the proposal. EAC has considered the request of the PP to appraise the proposal at Central level. Public hearing is exempted as per Section 7(i), III. Stage (3), Para (i)(b) of EIA Notification as the project is located in the notified Industrial area/estate.

EAC after detailed deliberation has recommended the project with Standard TOR as available in the Ministry's website and with following additional TOR exempting public hearing.

#### Additional TOR

- 1. A plan for implementation of Zero Liquid Discharge system shall be submitted in the EIA/EMP report.
- 2. Layout plan earmarking the space for 10 M wide green belt around the periphery of the plant with perennial trees shall be submitted totaling 33% of the total project area as green area.
- 3. PP shall submit a revised layout plan with updated details.
- 4. Enterprises Social Commitment plan shall be submitted with atleast 2.5 % cost of the expansion project for five years covering RO drinking water facility/LED/Solar panel for three villages to be identified.
- 5. Chemical name of the product with CAS No. number and the actual end use shall be provided.
- 6. Toxicity study ( $LC_{50}/LD_{50}$ ) of the products shall be undertaken.

# Expansion of existing unit for manufacturing of Synthetic Organic Chemicals Plot No. 170 to 175, 2<sup>nd</sup> Phase, GIDC Industrial estate, Vapi by M/s Keva Fragrances Pvt. Ltd. – Terms of References – reg. [IA/GJ/IND2/63711/2017, J-11011/159/2017-IA.II(I)]

The Project Proponent made a detailed presentation on the salient features of the project and informed that:

- (i) The project involves expansion of existing unit for manufacturing of Synthetic Organic Chemicals Plot No. 170 to 175, 2<sup>nd</sup> Phase, GIDC Industrial estate, Vapi by M/s Keva Fragrances Pvt. Ltd.
- (ii) All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B' but due to the applicability of general condition (located in the Critically Polluted Area/located in the interstate boundary), it is considered under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) Ministry has issued EC earlier vide letter no F. No. J-11011/984/2008-IA II (I) dated 13<sup>th</sup> March 2009 for existing unit to M/s Keva Fragrances Pvt. Ltd. However, the project was not established since NOC was not awarded due to CPA. And the validity of the EC has expired in 2014.
- (iv) Existing land area is 75936 m<sup>2</sup>, No additional land will be required for proposed expansion.
- (v) Industry has already developed Greenbelt in an area of 39 % i.e., Approx. 30000 m<sup>2</sup> out of 75936m<sup>2</sup> of area of the project.
- (vi) The estimated project cost is Rs 88.00 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs1.45 Crores.
- (vii) Total Employment will be 10 persons as direct & 22 persons indirect after expansion.
- (viii) No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife

- Corridors etc. lies within 10 km distance. River Damanganga is flowing at a distance a distance of Approx. 3.37 kms in South direction.
- (ix) Total fresh water requirement of 248.70 m<sup>3</sup>/day for existing and fresh water requirement of 327.00 m<sup>3</sup>/day after proposed expansion will be met from GIDC water supply department.
- (x) The wastewater effluent generation for existing is @132.70 kl/day from plant is segregated into two different streams. The concentrated wastewater @8kl/day having high COD/high TDS is send to MEE. The other diluted stream @124.70 kl/day is treated in the in-house ETP and after proposed expansion wastewater effluent will be @189.50 kl/day which will be segregated into two different streams. The concentrated wastewater @25 kl/day having high COD/high TDS will be sent to MEE. The other diluted stream @164.50 kl/day will be treated in the in-house ETP and after confirming the CETP inlet norms it is/will be sent to VGEL CETP, Vapi.
- (xi) Power requirement after expansion will be 5932.00 kW including existing 3955.00kW and will be met from Dakshin Gujarat Vij Company Ltd. Existing unit has 1 Nos. of DG set each of 750, 380 and 110 kVA capacity as stand-by arrangement, additionally 1 no. of 750 kVA capacity DG set will be used as standby. Stack (height 30 m) will be provided as per CPCB norms to the proposed DG set of 1 no. of 750 kVA capacity in addition to the existing DG sets of 1 Nos. each of 750, 380 and 110 kVA capacity which will be used as standby arrangement.
- (xii) Existing unit has 1 No of 4 TPH boiler and after proposed expansion, either an additional 6 TPH boiler will be installed to get 10 TPH capacity or 10 TPH capacity boiler will be installed by discarding existing 4 TPH boiler. Natural gas is/will be used for the proposed project as fuel and multi cyclone separator/bag filter with a stack height of 30 m will be provided for controlling the particulate emissions.
- (xiii) There is generation of HCl gas from the process and appropriate scrubber is installed as the control measure.
- (xiv) Details of Solid waste/Hazardous waste generation and its management:

Type of Waste	Existing Scenario	Proposed Scenario	Disposal Method
ETP Waste	100	140.00	Collection, Storage,
(Dry Basis)	MT/annum	MT/annum	Transportation, Disposal to TSDF site
Sludge from	100	135.00	Collection, Storage,
MEE	MT/annum	MT/annum	Transportation, Disposal to TSDF site
Stripper	100	110.00	Collection, Storage,
Distillate from MEE	MT/annum	MT/annum	Transportation, Disposal to CHWIF for incineration or coprocessing.
Used Oil	10.00	10.15	Collection, Storage,
	MT/annum	MT/annum	Transportation Disposal by sale to Registered refiners.
Discarded	500.0 MT/annum	550.00	Collection, Storage,
Containers		MT/annum	Decontamination, Transportation,
			Disposal by sale to authorized recycler
Process	16.84	890.00	Collection, Storage,
Waste	MT/annum	MT/annum	Transportation Disposal to
			CHWIF for incineration or coprocessing.
Skimmed Oil	0.5	0.507	Collection, Collection, Storage,
	MT/annum	MT/annum	Transportation, Disposal to
			CHWIF for incineration or coprocessing.
Spent	456.96	5326.00	Collection, Storage,

Solvents	MT/annum	MT/annum	Transportation, sale to actual	Ī
			users.	
Spent	175.20	2113.00	Collection, Storage,	Ì
Aluminium	MT/annum	MT/annum	Transportation, sale to GPCB	
Chloride			authorized end users through	
			manifest.	
Spent Acetic	86.136	674.00	Collection, Storage,	1
Acid (35%)	MT/annum	MT/annum	Transportation, Disposal by sale	
			to actual users.	

### (xv) Following is the list of existing and proposed products:

Sr. No	Product	Existing Capacity MTA	Proposed Capacity MTA
1	Trans 2 Hexenyl Acetate	6.00	05.00
2	Kambernoir	Nil	85.90
3	Terpinyl acetate	Nil	
4	Methyl octalactone	6.00	
5	Phenyl Methyl Pentanol	48.00	
6	Verotyl II/F	12.00	147.60
7	Emeraldine	6.00	147.60
8	Di-Phenyl Methane	24.00	
9	Dimethyl Hydroquinone	24.00	
10	Keflorol	18.00	
11	MECT/MTHF Intermediate	48.00	
12	HeptylCyclopentanone	24.00	
13	Aldehyde C-16	144.00	420.00
14	Trans-2-hexenal	240.00	
15	Cantonal	18.00	
16	Aldemax	Nil	
17	Cyclomyral	48.00	60.00
18	Di hydro Benzo nitrile	24.00	
19	Methyl Phenyl Acetate	12.00	
20	Phenyl Ethyl Phenyl Acetate	108.00	
21	Isobutyl Phenyl Acetate	24.00	
22	Diethyl adipate	54.00	400.00
23	Methyl Benzoate	156.00	408.00
24	Isononyl Acetate	36.00	
25	Phenoxy ethyl isobutyrate	Nil	
26	Hexyl acetate	Nil	
27	Para cresyl acetate	Nil	
28	Phenyl Ethyl Methyl Ether	204.00	200.00
29	Pomeron/Benzyl hexyl ether	Nil	288.00
30	Paracresyl methyl ether	Nil	
31	Methyl Acetophenone	12.00	2040.00
32	12 OHD	12.00	72.00
33	Isojasmone	60.00	
34	Nootkatone	3.24	1055.00
35	Valencene TBR ex Nootkatone	4.56	1275.80
36	(Kevolid / Tonalid)	Nil	

37	Di hydro IsoJasmonate	Nil	
38	Trans 2 Hexenol	6.00	
39	Tropicate	3.60	
40	Di ethoxy ethane	Nil	48.00
41	Orange LF 115	Nil	
42	Iriswood	Nil	
43	Ozaflor	12.00	
44	Sagecate	Nil	<b>74.00</b>
45	2-5 dimethyl indanone	Nil	54.00
46	Orinox	Nil	
47	Cyclofloranol (MC-Butenol)	12.00	24.00
48	Para Cresyl Phenyl Acetate	12.00	
	Miner Perfume Blend		300.00
49	Compound	300.00	300.00
50	Flavours and Fragrances	1200.00	1200.00
51	Menthone	288.00	-
	TOTAL	3209.40	6423.30

EAC has deliberated on the proposal. EAC has noted that the PP has not executed the awarded EC as there has been moratorium in the area. EAC has considered the request of the PP regarding collection of baseline data from March- May, 2017 considering the upcoming monsoon season. Public hearing is exempted as per Section 7(i), III. Stage (3), Para (i)(b) of EIA Notification as the project is located in the notified Industrial area/estate.

EAC after detailed deliberation had recommended the project with Standard TOR as available in the Ministry's website and with following additional TOR exempting public hearing.

#### **Additional TOR**

- 1. PP shall submit the details of raw materials.
- 2. Enterprises Social Commitment plan shall be submitted with atleast 2.5 % cost of the expansion project for five years covering RO drinking water facility/LED/Solar panel for three villages to be identied.
- 3. Chemical name of the product with CAS No. number and the actual end use shall be provided. Toxicity study ( $LC_{50}/LD_{50}$ ) of the products shall be undertaken.
- 4. Details of storage, handling and transport of Hazardous substances and its management plan.

# Installation of LPG Mounded Storage at Post LPG storage Terminal at UPSIDC Industrial Area, Unnao, Uttar Pradesh by M/s HPCL LPG Bottling Plant – Environmental Clearance – reg. [IA/UP/IND2/63951/2017, J-11011/182/2017-IA.II(I)]

The project proponent and the accredited consultant EQMS India Pvt Ltd., gave a detailed presentation on the proposal and informed following:-

- (i) The project involves installation of LPG Mounded Storage at Post LPG storage Terminal at UPSIDC Industrial Area, Unnao, Uttar Pradesh by M/s HPCL LPG Bottling Plant.
- (ii) All the Isolated Storage & Handling of Hazardous chemicals (as per threshold planning quantity indicated in column 3 of schedule 2 & 3 of MSIHC Rules 1989 amended 2000) activity are listed at S.N 6 (b) of schedule of environmental impact assessment (EIA) notification under category 'B'. However, due to non functioning of SEIAA, Uttar Pradesh, the project is considered under category 'B' and appraised at Central level by Expert Appraisal Committee (EAC).
- (iii) Existing land area is 21.96 acres, additional no land will be used for proposed expansion.

- (iv) Industry will developed Greenbelt in an area of 36 % i.e., 7.92 acres out of 21.96 acres of area of the project. The estimated project cost is Rs 26 cr.
- (v) Total Employment is 123 persons as direct & No additional manpower will be required in persons indirect after expansion. Industry proposes to allocate Rs 0.65 cr @ of 2.5% towards Corporate Social Responsibility.
- (vi) No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Sai River is flowing at a distance a distance of 7.0 in North direction.
- (vii) Total water requirement is 32 m³/day of which fresh water requirement of No additional m3/day and will be met from Bore well.
- (viii) Treated effluent of washing and waste water will be treated through ETP Plant will be based on Zero Liquid discharge system (if applicable).
- (ix) Power requirement after expansion will be 70 KVA including existing 250 KVA and will be met from UP Power Corporation Limited, UPPCL. Existing unit has 2 & 1 DG sets of 380 kVA & 160 kVA capacity; additionally 80 KVA DG sets are used as standby during power failure. Stack (height 3mt) will be provided as per CPCB norms to the proposed DG sets of 2 X380 kVA & 160 kVA in addition to the existing DG sets of 80 KVA which will be used as standby during power failure.
- (x) There is no process involve, only storage and distribution of product.
- (xi) Following are the list of existing and proposed products:

#### Existing Product list (In case of Expansion proposals):

SI. No	Products	Quantity(TPA)
1.	4 above ground Bullet & 1 MSV	3X1000 MT,
		2X 100 MT,
		2 X 150 MT
		(Total 1500 MT)

#### Proposed Products and their Capacities for Expansion

SI. No	Products	Quantity(TPA)
1.	Mounded bullets	3 X 500 MT (Total 1500 MT)

The PP has requested EAC to consider the proposal under Category B2 and exempt EIA and public hearing for the expansion project, considering that the storage facility will not lead to generation of any air emission, waste water discharge and hazardous waste generation. PP also submitted that the mounded storage facility has the minimum risk compared to other form of storage.

EAC has deliberated on the proposal. EAC has noted that the project was a Category B project and as SEIAA, UP is not in functional stage, it is appraised at Central Level. EAC noted that the proposed storage facility is important for the nation and in the safety point of view. Considering the same, EAC has recommended to consider the proposal under Category B2.

EAC after detailed deliberation has recommended the project for environmental clearance under category B2 exempting EIA/EMP report and public hearing, subject to compliance of following specific and other general conditions.

#### **Specific conditions**

i. Adequate buffer zone around the LPG mounded storage facility shall be provided, as may be

required as per OISD or other statutory requirements.

- ii. Regularly monitoring of VOC and HC in the work zone area in the plant premises should be carried out and data be submitted to Ministry's Regional Office, CPCB and State Pollution Control Board. Quarterly monitoring for fugitive emissions should be carried out as per the guidelines of CPCB and reports submitted to Ministry's Regional Office at Chennai.
- iii. Necessary approvals from Chief Controller of Explosives must be obtained before commission of project, if applicable. Requisite On-site and Off-site Disaster Management Plans will be prepared and implemented.
- iv. The company should obtain all requisite clearances for fire safety and explosives and should comply with the stipulation made by the respective authorities.
- v. Emergency Response Plan should be based on the guidelines prepared by OISD, DGMS and Govt. of India. Mock drill should be conducted once in a month.
- vi. Additional safety measures should be taken by using remote operated shut off valve, double block & bleed valve (DBB), impervious dyke wall and un-bonded flexible roof drain pipe, if applicable.
- vii. Unit should carry out safety audit and report submitted to the Regional Office.
- viii. Occupational health surveillance of worker should be done on a regular basis and records maintained as per the Factory Act.
  - ix. The product/by-products which fall under the Hazardous Management/Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.

# 23.4.9 Additional LPG Mounded Storage Facility (3X650 MT) Village-Bokta, Tehsil- Sahjanwa, District-Gorakhpur (U.P.) by M/s HPCL LPG MOUNDED – Terms of References – reg. [IA/UP/IND2/63959/2017, J-11011/183/2017-IA.II(I)]

The project proponent and the accredited consultant EQMS India Pvt Ltd., gave a detailed presentation on the proposal and informed following:-

- (i) The proposal is for Additional LPG Mounded Storage Facility (3X650 MT) Village-Bokta, Tehsil- Sahjanwa, District-Gorakhpur (U.P.) by M/s HPCL LPG MOUNDED.
- (ii) All the Isolated Storage & Handling of Hazardous chemicals (as per threshold planning quantity indicated in column 3 of schedule 2 & 3 of MSIHC Rules 1989 amended 2000) activity are listed at S.N 6 (b) of schedule of environmental impact assessment (EIA) notification under category 'B'. However, due to non functioning of SEIAA, Uttar Pradesh, the project is considered under category 'B' and appraised at Central level by Expert Appraisal Committee (EAC).
- (iii) Existing land area is 17.5 acres, additional no land will be used for proposed expansion. Industry will developed Greenbelt in an area of 34 % i.e., 5.95 Acres out of 17.5 acres of area of the project. The estimated project cost is Rs 28Cr. Total Employment is 80 persons as direct & no additional manpower will be required in persons indirect after expansion. industry proposes to allocate Rs 0.70 cr @ of 2.5 % towards Corporate Social Responsibility.
- (i) No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Rapti river (0.730 km, East) and River Aami (4.17 km, SW).
- (ii) Total water requirement is 10 m³/day of which fresh water requirement of No additional m³/day and will be met from Bore well.

- (iii) Power requirement after expansion will be 250 KVA including existing 250 KVA and will be met from UP Power Corporation Limited, UPPCL. Existing unit has 3 DG sets of 705 KVA (380 kVA, 250 kVA & 75 kVA) capacity.
- (iv) There is no process involve, only storage and distribution of product.
- (v) Details of Solid waste/Hazardous waste generation and its management. generated in the form-Used oil and ETP sludge.
- (vi) Following are the list of existing and proposed products:

Existing Product list (In case of Expansion proposals)

SI. No	Products	Quantity(TPA)
1.	Above ground Bullet	2x 150 MT & 2X100 MT (Total 500 MT)

Proposed Products and their Capacities for Expansion

SI. No	Products	Quantity(TPA)
1.	Mounded bullets	3 X 650 MT (Total 1950 MT)

The PP has requested EAC to consider the proposal under Category B2 exempting EIA and public hearing, considering that the storage facility will not lead to generation of any air emission, waste water discharge and hazardous waste generation. PP also submitted that the mounded storage facility has the minimum risk compared to other form of storage.

EAC has deliberated on the proposal. EAC has noted that the project was a Category B project and as SEIAA, UP is not functional stage, it is appraised at Central Level. EAC noted that the proposed storage facility is important for the nation and in the safety point of view. Considering the same, EAC has recommended to consider the proposal under Category B2.

EAC after detailed deliberation has recommended the project for environmental clearance under category B2 exempting EIA/EMP report and public hearing, subject to compliance of following specific and other general conditions.

#### **Specific conditions**

- i. Adequate buffer zone around the LPG storage facility shall be provided, as may be required as per OISD or other statutory requirements.
- ii. Regularly monitoring of VOC and HC in the work zone area in the plant premises should be carried out and data be submitted to Ministry's Regional Office, CPCB and State Pollution Control Board. Quarterly monitoring for fugitive emissions should be carried out as per the guidelines of CPCB and reports submitted to Ministry's Regional Office at Lucknow.
- iii. Necessary approvals from Chief Controller of Explosives must be obtained before commission of project, if applicable. Requisite On-site and Off-site Disaster Management Plans will be prepared and implemented.
- iv. The company should obtain all requisite clearances for fire safety and explosives and should comply with the stipulation made by the respective authorities.
- v. Emergency Response Plan should be based on the guidelines prepared by OISD, DGMS and

Govt. of India. Mock drill should be conducted once in a month.

- vi. Additional safety measures should be taken by using remote operated shut off valve, double block & bleed valve (DBB), impervious dyke wall and un-bonded flexible roof drain pipe, if applicable.
- vii. Unit should carry out safety audit and report submitted to the Regional Office.
- viii. Occupational health surveillance of worker should be done on a regular basis and records maintained as per the Factory Act.
  - ix. The product/by-products which fall under the Hazardous Management/Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.

# Proposed Bulk Drugs, Bulk Drug Intermediates & Specialty Chemicals Manufacturing Unit of M/s Infinity Research & Development Plot No. 2924/3 & 4, Phase-III, GIDC Estate, Panoli, Taluka: Ankleshwar, Dist: Bharuch, Gujarat by M/s Infinity Research & Development – Terms of References - reg. [IA/GJ/IND2/63967/2017, J-11011//201-IA.II(I)]

The project proponent made a detailed presentation on the proposal and informed following:-

- (i) The project involves Bulk Drugs, Bulk Drug Intermediates & Specialty Chemicals Manufacturing Unit of M/s Infinity Research & Development Plot No. 2924/3 & 4, Phase-III, GIDC Estate, Panoli, Taluka: Ankleshwar, Dist: Bharuch, Gujarat by M/s Infinity Research & Development.
- (ii) All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B' but due to the applicability of general condition (located in the Critically Polluted Area), it is considered under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) Proposed land area is 3002.96 m<sup>2</sup>. Industry will develop Greenbelt in an area of 30 % i.e. 880 m<sup>2</sup> out of 3002.96 m<sup>2</sup> of area of the project. Total Project Cost for proposed project activity is Rs.442 Lakh. Industry proposes to allocate Rs. 11.0 Lakhs @ 2.5 % towards Corporate Social Responsibility.
- (iv) No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.
- (v) PP has requested for baseline data collection from March-2017 to May-2017.
- (vi) Total water requirement will be 19.6 m3/day which is met through GIDC Water Supply.
- (vii) Total Effluent will be 11.67 KL/Day. The effluent 10 KL/day will be treated in ETP Consists of Primary Treatment then after sent to CETP, Panoli for further treatment &disposal & 1.67 KL/Day effluent will be sent to Common MEE of Ankleshwar Cleaner Process Technology Center Ltd, Ankleshwar.
- (viii) Power requirement will be 130 KW and will be met from DGVCL.
- (ix) Unit will have 1 Nos. of boiler & 1 Nos. of Thermopack. Cyclone separator with bag filter with a stack of height of 20 m & 20 m respectively will be installed for controlling the Particulates emissions.
- (x) Details of Solid waste/Hazardous waste generation and its management:

Sr. No.	Name of Waste	Category	Qty. Waste generated (MT/Month)	Mode of Disposal
1	ETP Sludge	35.3	7	Collection, Storage, Transportation & disposal in TSDF of M/s.

				PSWMCL or M/s. SEPPL.
2	Residue from Distillation/ Organic Process Waste	28.1	5	Collection, Storage, Transportation & send to cement industries for coprocessing or incineration in CHWIF of M/s. SEPPL or M/s. BEIL.
3	Discarded Drum	33.1	5	Collection, Storage, Transportation & Sell to GPCB authorized Vendor after decontamination.
4	Discarded Bags / Liner	33.1	2	Collection, Storage, Transportation & Sell to GPCB authorized Vendor after decontamination.
5	Used Oil	5.1	20 Liter/Month	Collection, Storage, Transportation & Sell to GPCB registered reprocessor.
6	Spent Catalyst	28.2	2	Collection, Storage, Transportation & return to re-generator.
7	Spent Carbon	28.3	1	Collection, Storage, Transportation & send to common incineration in CHWIF.
8	Ammonia		15	Collection, Storage, Transportation & Sell to end user
9	Acetic Acid		100	Collection, Storage, Transportation & Sell to end user
10	Spent Solvent	28.6	100	Collection, Storage, recovered through in house distillation or sent for distillation job work to authorized recycler then reuse in process.

### (xi) Following are the list of proposed products:

Sr.	NAME OF PRODUCTS	CAS No.	PROPOSED
No.			QUANTITY
			(MT/Month)
Group	- 1		
1	GLIPIZIDE	29094-61-9	
2	GLICLAZIDE	21187-98-4	
3	GLIMEPIRIDE	93479-97-1	
4	LOSARTAN POTASSIUM	124750-99-8	10
5	L-LYSINE HCl	657-27-2	
6	L-LISINOPREL DIHYDRATE	83915-83-7	
7	TOLNAFTATE	2398-96-1	
Group	-2		
8	Cyclopropyl amine OR	765-30-0	5.0
9	Alpha tetralone OR	529-34-0	7.0
10	Trimethylsilyl bromide OR	2857-97-8	35.0
11	Imidazole hydrochloride OR	1467-16-9	50.0
12	2-Methyl-4-benzonitrile OR	89001-53-6	7.0
13	2-Aminothiophenol OR	1193-02-8	6.5
14	6-chloro-2,4-diaminopyrimidine OR	156-83-2	7.5
15	2-mesitylenesulfonyl hydrazide OR	16182-15-3	20.0

	TOTAL		60
18	1,4-diamino-2-nitro-5-chlorobenzene	26196-45-2	6.0
17	Methyl 4-(hydroxymethyl)benzoate OR	6908-41-4	37.0
16	1,3-difluorobenzene OR	372-18-9	6.0

EAC has deliberated on the proposal. EAC has considered the request of the PP for collection of baseline data from March, 2017 onwards, considering the upcoming monsoon season. Public hearing is exempted as per Section 7(i), III. Stage (3), Para (i)(b) of EIA Notification as the project is located in the notified Industrial area/estate.

EAC after detailed deliberation has recommended the project with Standard TOR as available in the Ministry's website and with following additional TOR exempting public hearing.

#### Additional TOR

- 1. Enterprises Social Commitment plan shall be submitted with at least 2.5 % cost of the expansion project for five years covering RO drinking water facility/LED/Solar panel for three villages.
- 2. Chemical name of the product with CAS No. number and the actual end use shall be provided. Toxicity study ( $LC_{50}/LD_{50}$ ) of the products shall be undertaken.
- Proposed Project of Dyes, Pigments, Inorganic Salt and Formulation Manufacturing Plant of M/s Aarav Industries Located at Plot No. 3027, Phase-III, GIDC Estate, Panoli, District: Bharuch (Gujarat) by M/s Aarav Industries Terms of References reg. [IA/GJ/IND2/63986/2017, J-11011/187/2017-IA.II(I)]

The project proponent made a detailed presentation on the proposal and informed following:-

- (i) The project involves Project of Dyes, Pigments, Inorganic Salt and Formulation Manufacturing Plant of M/s Aarav Industries Located at Plot No. 3027, Phase-III, GIDC Estate, Panoli, District: Bharuch (Gujarat) by M/s Aarav Industries.
- (ii) All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B' but due to the applicability of general condition (located in the Critically Polluted Area), it is considered under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) Proposed land area is 1500 m<sup>2</sup>. Industry will develop Greenbelt in an area of 16.6 % i.e. 250 m<sup>2</sup> out of 1500 m<sup>2</sup> of area of the project.
- (iv) The estimated project cost is Rs. 2.0 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 25 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 2 Lakhs per annum.
- (v) Industry proposes to allocate Rs. 5 Lakhs @ 2.5 % towards Corporate Social Responsibility.
- (vi) No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.
- (vii) PP has requested for baseline data collection from March, 2017 to May-2017.
- (viii) Total water requirement will be 12.6 m<sup>3</sup>/day and will be met from GIDC Water Supply.
- (ix) Treated Effluent (3.3 KL/Day) will be sent to GIDC drain for deep sea disposal.
- (x) Power requirement will be 250 KVA and 100 KVA=1 DG Set (for emergency case only)and will be met from DGVCL
- (xi) Unit will have 1 No. of boiler & 1 Nos. of D. G. Set. Multi cyclone separator/bag filter, dust collector with a stack of height of 20 m & 11 m respectively will be installed for controlling the Particulates emissions.
- (xii) Details of Solid waste / Hazardous waste generation and its management.

Type of waste	Category	Proposed	Disposal Method
		(MT/Month)	
Discarded	33.1	1.0	Collection, storage, decontamination,
Containers/Bags/			transportation, reuse/sale to authorize
Liners			vendor
Used oil	5.1	0.1	Collection, storage, transportation,
			reuse/sale to authorize vendor
ETP Sludge	35.1	4	Collection, storage, transportation and
			dispose common TSDF site
Spent Sulphuric	26.3	132	Collection, Storage, transportation,
Acid			sale to authorize vendor.
Organic Sludge	26.1	10	Collection, Storage, Transportation and
			sent for co-processing in cement industries
			or at CHWIF.
Inorganic Salt		16	Collection, storage, transportation and
			dispose common TSDF site.

(xiii) Following are the list of proposed products:

SR. NO.	NAME OF PRODUCTS	CAS NO.	PRODUCTION CAPACITY (MT/MONTH)
1	Alpha Blue	147-14-8	
2	Beta Blue	147-14-8	
3	Acid Black-10	1064-48-8	8 MT/MONTH
4	Basic Bismark Brown-R	5421-66-9	
5	Direct Yellow-4	3051-11-4	
	Turquoise Blue (Reactive & Direct)		
6	Reactive Blue 3R (Reactive Blue 28)	12225-45-5	
7	Reactive Blue F4R		
8	Reactive Blue HERD (Reactive Blue	71872-76-9	
9	Reactive Blue 221	93051-41-3	
10	Reactive Blue HEGN (Reactive Blue	124448-55-1	
11	Reactive Blue LFNG		
12	Reactive Blue BF (Reactive Blue 194)	93050-78-3	
13	Reactive Blue BFN (Reactive Blue 222)	93051-44-6	50 MT/MONTH
14	Reactive Blue 2B	71872-76-9	
15	Direct Blue 71	4399-55-7	
16	Direct Blue 281	77907-25-6	
17	Direct Blue 218	28407-37-6	
18	Direct Blue 80	12222-00-3	
	Inorganic Salt	<u>I</u>	

	Total		108
20	Formulation of dyes and pigments		50 MT/MONTH
19	Sodium formate	141-53-7	

EAC has deliberated on the proposal and considered the request of the PP for baseline data collection from March, 2017. Public hearing is exempted as per Section 7(i), III. Stage (3), Para (i)(b) of EIA Notification as the project is located in the notified Industrial area/estate.

EAC after detailed deliberation has recommended the project with Standard TOR as available in the Ministry's website and with following additional TOR exempting public hearing.

#### Additional TOR

- 1. Enterprises Social Commitment plan shall be submitted with atleast 2.5 % cost of the expansion project for five years covering RO drinking water facility/LED/smart class for nearby villages/schools.
- 2. Chemical name of the product with CAS No. number and the actual end use shall be provided.
- 3. Toxicity study ( $LC_{50}/LD_{50}$ ) of the products shall be undertaken.

# 23.4.12 Proposed to set up a new production unit of APIs and bulk drug at SP-3, 10 & 11, RIICO Industrial Area, Village Keshwana Rajpoot, Kotputli (Rajasthan) M/s Otsuka Chemical India Pvt. Ltd. [IA/RJ/IND2/63827/2017, J-11011/190/2017-IA.II(I)]

The project proponent made a detailed presentation on the proposal and informed following:

- i. The project involves proposed to set up a new production unit of APIs and bulk drug at SP-3, 10 & 11, RIICO Industrial Area, Village Keshwana Rajpoot, Kotputli (Rajasthan) M/s Otsuka Chemical India Pvt. Ltd.
- ii. All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B' but due to the applicability of general condition (located in the interstate boundary), it is considered under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- iii. The area of the project is 26,800 m<sup>2</sup>. Industry will develop green belt in an area of 33 % i.e. 8850 m<sup>2</sup> out of total 26,800 m<sup>2</sup> of area of the project. The estimated project cost is Rs 150 crore. Total capital cost earmarked towards environmental pollution control measures is Rs 5.0 crore and the Recurring cost (operation and maintenance) will be about Rs 0.15 crore per annum.
- iv. Total Employment will be 100 persons as direct & 150 persons indirect after expansion. Industry proposes to allocate require funds as per the act towards Corporate Social Responsibility.
- v. No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Sota and Sahibi river is flowing at a distance a distance of 0.100 km and 4.43 km in W & SE direction respectively.
- vi. Total water requirement is 75 m3/day and will be met from Bore well. Treated effluent of waste water will be treated through ETP (Effluent Treatment Plant) will be based on Zero Liquid discharge system.
- vii. Power requirement for proposed project will be **2 MW** and will be met from **Jaipur Vidyut Vitran Nigam Ltd**. Proposed **1.5 MW** capacity DG sets are used as standby during power failure. Stack will be provided as per CPCB norms.
- viii. Proposed unit has 2 no, 10 TPH coal fired boiler will be installed, one boiler will be kept as standby. Adequate air pollution control equipment will be installed.
- ix. PM2.5, PM10, NOx, SO2 and will be controlled by pollution control equipments.
- x. Hazardous waste produced will be disposed as per MSIHC rule 2016.
- xi. Following are the list of proposed products:

SI. No Products	Quantity(TPA)
DI. 110 HIUGUEUS	Quantity (1171)

1	Cephalosporin drugs and intermediates		
2	Penicillin G Intermediates and its APIs	25 MTPM	

EAC has deliberated on the proposal. EAC has noted that the project is located in the notified industrial area and it fall in the interstate boundary. Public hearing is exempted as per Section 7(i), III. Stage (3), Para (i)(b) of EIA Notification as the project is located in the notified Industrial area/estate.

EAC after detailed deliberation has recommended the project with Standard TOR as available in the Ministry's website and with following additional TOR exempting public hearing.

#### **Additional TOR**

- 1. Layout plan earmarking the space for 10 M wide green belt around the periphery of the plant with perennial trees shall be submitted totaling 33% of the total project area as green area.
- 2. PP shall submit revised layout plan with updated details.
- 3. Enterprises Social Commitment plan shall be submitted with at least 2.5 % cost of the expansion project for five years covering RO drinking water facility/computer/smart class to the schools in the nearby villages.
- 4. PP shall submit complete product list with intermediates and APIS.
- 5. Chemical name of the product with CAS No. number and the actual end use shall be provided.
- 6. Toxicity study ( $LC_{50}/LD_{50}$ ) of the products shall be undertaken.
- 7. Indoor air monitoring of the pharma unit shall be made.
- 8. PP shall explore the feasibility of alternate fuel source. If coal is considered, then coal having sulphur content less than 0.5% shall only be used.

# Manufacture Melamine Formaldehyde Resin, Phenol Formaldehyde Resin and Urea Formaldehyde Resin and Laminated Sheets at Survey No.: 203/15, B/h. Shaktiman Rotawetar, N. H. Road, Village: Bhunava, Taluka: Gondal, District: Rajkot, Gujarat by M/s Swastik Laminates [IA/GJ/IND2/64176/2017, J-11011/207/2017-IA.II(I)]-TOR reg

The project proponent made a detailed presentation on the project and informed the following:-

- (i) The project involves manufacture Melamine Formaldehyde Resin, Phenol Formaldehyde Resin and Urea Formaldehyde Resin at Survey No.: 203/15, B/h. Shaktiman Rotawetar, N. H. Road, Village: Bhunava, Taluka: Gondal, District: Rajkot, Gujarat by M/s Swastik Laminates.
- (ii) All Synthetic Organic Chemicals Industry located outside a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) 9942 m<sup>2</sup> land will be used for proposed project Industry will develop greenbelt in an area of 32.39 % i.e. 3220 m<sup>2</sup> out of 9942 m<sup>2</sup> of area of the project.
- (iv) The estimated project cost is Rs.1.25crore. Total capital cost earmarked towards environmental pollution control measures is Rs 40 Lakhs and the recurring cost(operation and maintenance) will be about Rs. 31lacs per annum.
- (v) Total employment will be for 60persons. No national parks, wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, wildlife corridors etc. Lies within 10 km distance. Jasuki river is flowing at a distance a distance of 3.25 km in ESE direction.
- (vi) Total water requirement is 30.5m<sup>3</sup>/day which will be met from bore well/Open well.
- (vii) Effluent of 12.16m³/day will be treated through Effluent treatmentplant (including Evaporator followed by R.O.) will be based on Zero Liquid Discharge system
- (viii) Power requirement of proposed project will be 200 KVA and will be met from Paschim Gujarat Vij Company Limited (PGVCL). Stack (height 6 mt) will be provided as per CPCB norms to the proposed DG sets of 150 KVA which will be used as standby during power failure.
  - (ix) In Proposed unit 3 TPHcoal/briquettes Fired boiler and 15 Lakh Kcal/hr Thermic Fluid Heater will be installed. cylone separator followed by Bag filter with a stack height of 30 mt. will be installed for

controlling the particulate emissions(within statutory limit of 115 mg/Nm <sup>3</sup> ).					<sup>3</sup> ).	
Sr.	Stack attached	Height of	Fuel & its	APC	Expected	GPCB
No.	to	the stack	Consumption	System	Pollutant	Limit
		In meter				
1	Steam	30 m	Coal / Briquettes	Cyclone Separator	SPM	As per GPCB
	Boiler		6.6MT/Day	followed by Bag Filter	$SO_2$	Norms
	(3 TPH)				$NO_2$	SPM ≤ 150
2	Thermic Fluid					mg/Nm <sup>3</sup>
	Heater					$SO_2 \le 100 \text{ ppm}$
	(15 Lakh					$NO_2 \le 50 \text{ ppm}$
	Kcal/hr)					2 - 11
3	D.G. Set	6 m	HSD	N.A.	SPM	
	(150 KVA)		28 Liter/Hr.		$SO_2$	
					$NO_2$	

Details of process emissions generation and its management.

Sr.	Stack attached to	Stack	Expected	Quality of	APC System
No.		Height	pollutant	pollutant	
1	Laminated Sheets	11 m	Methanol	As per GPCB	Condenser
	Dryer			Norms	

Details of solid waste/hazardous waste generation and its management.

Sr.	Description	Category	Quantity	Mode of Disposal
1 1	Description	Category	Qualitity	Wiode of Disposal
No.				
1	ETP Sludge +	35.3	3.5 MT/Month	Collection, storage and disposal at
	Evaporation			Approved TSDF site
	Residue			
2	Used Oil	5.1	0.004	Collection, storage and used within
			MT/Month	premises as a lubricant / sold to
				registered recycler.
3	Discarded Plastic	33.1	0.5 MT/Month	Collection, storage & sold to
	Bags / Barrels			authorized vendor.
4	Edge Cutting Waste	23.1	0.8 MT/Month	Collection, storage & disposal at
				CHWIF site.
5	Spent carbon	54.3	11 MT/Month	Collection, storage, transportation &
				disposal at CHWIF site / sell to
				authorized vendor

Details of proposed products are capacity

Proposed product and their capacities

Sr. No.	Name of Product	Quantity	
1	Phenol Formaldehyde Resin	300 MT/Month	
2	Melamine Formaldehyde Resin	300 MT/Month	
3	Urea Formaldehyde Resin	400 MT/Month	
4	Laminated Sheets	2,00,000 Sheets/Month	

EAC has deliberated on the proposal. PP has requested for use of baseline data collected for the project of M/s Multiply Inc (TOR dated 31.01.2017) as the location is same. EAC has considered the request of the PP for using the data for the period of October-December, 2016 with additional one month data for May, 2017. EAC after detailed deliberation has recommended the project with Standard TOR and with following additional TOR along with public hearing.

#### **Additional TOR**

- 1. Zero liquid discharge shall be ensured.
- 2. Briquette/coal (less than 0.5% sulphure content) shall be prefered as fuel.
- 3. Enterprises Social Commitment plan shall be submitted with at least 2.5 % cost of the expansion project for five years covering RO drinking water facility/LED/Solar panel for three villages.

4. Chemical name of the product with CAS No. number and the actual end use shall be provided. Toxicity study ( $LC_{50}/LD_{50}$ ) of the products shall be undertaken.

## 4<sup>th</sup>May, 2017 (Day 2)

## 23.5 (Environmental Clearance)

23.5.1 Setting up of Technical Grade Pesticide (4800 MTPA) at Plot No. C-6, 7 & 8 UPSIDC Industrial Area, Phase-2, Gajraula, J P Nagar, Uttar Pradesh by M/s Best Crop Science LLP – Environmental Clearance – reg. [IA/UP/IND2/54796/2016, J-11011/165/2016-IA.II(I)]

The project proponent and the accredited consultant M/s EQMS India Pvt Ltd., gave a detailed presentation on the project and informed the following:-

- (i) The project involves setting up of technical grade pesticide (4800 MTPA) at Plot No. C-6, 7 & 8 UPSIDC Industrial Area, Phase-2, Gajraula, J P Nagar, Uttar Pradesh by M/s Best Crop Science LLP.
- (ii) All Pesticides industry and pesticide specific intermediates (excluding formulations) units producing technical grade pesticides are listed at Sl.No. 5(b) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) The project proposal was considered by the Expert Appraisal Committee (Industry2) in its 11<sup>th</sup> meeting held during 20-21<sup>st</sup> July, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 23.09.2016.
- (iv) Total plot area is 54,891.39 sqm. The proposed project has an employment potential of 110 persons. Total cost of the project is Rs. 30 Crores.
- (v) No National Parks, Wildlife Sanctuaries, Tiger/Elephant Reserves, Wildlife Corridors etc. falls within 10 km radius from the plant site. Ganga River is flowing at a distance of 8 km in West direction
- (vi) Power requirement of 1000 KVA will be sourced from Uttar Pradesh Power Corporation Ltd. Additionally two D.G. Sets of capacity 380 KVA & 500 KVA will be installed for power-backup.
- (vii) The total requirement of fresh water for the proposed project is 97 KLD. Water requirement will be made available through Borewell.
- (viii) Wastewater will be segregated into two streams as High TDS/High COD (HTDS) and Low TDS/Low COD (LTDS). The HTDS Effluent stream after neutralization, filtration will be sent to Multi Effect Evaporator (MEE). The distillate water will be treated in ETP along with LTDS effluent. The concentrate will be sent to ATFD for drying. The dried salt will be sent to approved TSDF for final disposal. The ETP treated effluent will be passed through RO for recovery of water for recycling. The RO reject will be send to MEE. No process effluent will be discharged outside the plant premises. The provision of stripper for recovery of solvent (VOC) from HTDS effluent before MEE and incinerator for combustion of hazardous organic residues from the process is also made. The inorganic hazardous residues will be sent to TSDF. The site has existing tree plantation on periphery of the plant and along the roads. The proponent has reported that it will ensure the greenbelt to the extent of 34% of the plot area (about 54,890 m2).
  - (ix) Public hearing was conducted by the SPCB on 10th April 2017 in the presence of ADM, Amroha.
  - (x) The proposed installed capacity of the plant is 4800 MTPA for manufacturing of herbicides, insecticides, fungicides and plant growth regulator. The proposed product details are as follows:

Details of the proposed products with production capacity

S.NO.	LIST OF PRO NAME OF PRODUCT	PRODUCTION CAPACITY
S.NO.	NAME OF PRODUCT	(Metric Ton Per Annum)
Λ HEE	RBICIDE	(Metric Toll 1 et Allifulli)
1.	Metribuzin	1100
2.	Atrazine	
3.	Sulfosulfuron	_
4.	Glyphosate	
5.	Clodinafop Propargyl	_
6.	Pretilachlor	_
7.	Imazethapyr	_
8.	Metsulfuron Methyl	
9.	Pyrazosulfuron Ethyl	
10.	Fenoxaprop-P-Ethyl	
11.	Glufosinate Ammonium	
12.	Chlorimuron Ethyl	
13.	Bispyribac Sodium	
14.	Oxadiargyl	
15.	Oxyflurofen	
16.	Butachlor	
	ECTICIDE	
1.	Acephate	
2.	Thiamethoxam	
3.	Indoxacarb	
4.	Fipronil	
5.	Diafenthiuron	
6.	Buprofezin	2500
7.	Dichlorvos	
8.	Lambda Cyhalothrin	
9.	Imidachloprid	
10.	Novaluron	
11.	Bifenthrin	
12.	Permethrin	
13.	Propargite	
14.	Chlorpyriphos	
15.	Profenofos	
16.	Diflubenzuron	
17.	Acetamiprid	
18.	Dinotefuran	
19.	Emamectin Benzoate	
20.	Thiocyclam Oxalte	
21.	Etoxazole	
22.	Pymetrozine	
23.	Fenpyroximate	
24.	Triazophos	
C. Fung		
1.	Tricyclazole	900
2.	Cymoxanil	
3.	Propiconazole	
4.	Hexaconazole	

5.	Tebuconazole	
6.	Difenconazole	
7.	Metalaxyl	
8.	Carboxin	
9.	Propineb	
10.	Azoxystrobin	
11.	Myclobutanil	
12.	Carbendizim	
13.	Pyrachlostrobin	
14.	Trifloxystrobin	
15.	Fluoxastrobin	
16.	Isoprothiolane	
D. PLA	NT GROWTH REGULATOR	
1.	Ethaphon	100
E. R&D	PRODUCTS	
1.	Trial Production	200
	TOTAL	4800

EAC has deliberated on the proposal and public hearing report. EAC has noted that the River Ganga is located at a distance of 8 km from the project site. EAC has noted that river Ganga is getting polluted due to setting up of industries in the vicinity. The EAC was of the view that preservation of Ganga river is utmost requirement of the present. It is not advisable to set up any chemical industry of this kind within 10 km stretch of the river.

EAC has also noted that the ground water is depleting in most part of the State. Being the proposed industry is pesticide Industry, EAC suggested PP to undertake a study for alternate site. EAC noted that alternate site was included in standard TOR, however PP has not undertaken the same. EAC has deliberated on the public hearing report. The major concerns were regarding employment, drinking water, medical facility, waste water disposal etc. EAC noted that the PP has addressed the issues in the EIA/EMP report.

## EAC after detailed deliberation has deferred the proposal for want of following additional information.

- i. Despite the best safety devices installed in the plant and the safety practices in place, minor and major accidents do occur. In such a situation contamination of soil and water is a matter of serious concern. High polluting industries and also highly toxic industries such as pesticides need second thought before according EC and thus suggested to undertake site suitability study of the area.
- ii. Alternate site analysis has to be conducted. PP may prefer other industrial areas keeping safe distance from rivers and eco-sensitive locations.
- iii. Chemical name of the product with CAS No. number and the actual end use shall be provided. Toxicity study (LC<sub>50</sub>/LD<sub>50</sub>) of the products shall be undertaken.
- iv. PP shall verify the product list with list as appraised by the EAC during TOR.
- v. In principle permission from the local government authorities and concerned State Government Department for setting up of the proposed industry in the currently proposed site.
- Modernization of Bulk Drug Unit at Sy No. 52, 134, 138, 139, 140, 159, 160 to 168, 168/1, 183 & 184 of Chippada village and 1 to 4, 6, 45 & 46 and additional survey number 107, 158, 168, to 172 of Chippada and Annavaram Villages, Annavaram Taluka, Bheemunipatnam Mandal, Visakhapatnam District, Andhra Pradesh by M/s Divi's Laboratories Limited (Unit-2) Environmental Clearance reg. [IA/AP/IND2/58641/2016, J-11011/316/2016-IA.II(I)]

The project proponent and the accredited consultant M/s Ramky Enviro Srvices Private Limited, Hyderabad, gave a detailed presentation on the project and informed the following:-

- (i) The project involves modernization of Bulk Drug Unit at Sy No. 52, 134, 138, 139, 140, 159, 160 to 168, 168/1, 183 & 184 of Chippada village and 1 to 4, 6, 45 & 46 and additional survey number 107, 158, 168, to 172 of Chippada and Annavaram Villages, Annavaram Taluka, Bheemunipatnam Mandal, Visakhapatnam District, Andhra Pradesh by M/s Divi's Laboratories Limited (Unit 2).
- (ii) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 13<sup>th</sup> and 16<sup>th</sup> meeting held on 26-27<sup>th</sup>Sept, 2016 and 8-9<sup>th</sup> Dec, 2016 respectively and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry's letter dated 22.02.2017.
- (iii) All Synthetic Organic Chemicals Industry located outside a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- (iv) Ministry has issued EC earlier vide letter no. J-11011/418/2006-IA.II (I); dated: 10.10.2007 for Bulk Drug unit (Change in product mix in the existing unit) to M/s. Divi's Laboratories Limited in Modernization case.
- (v) Existing land area is 387 Acres, additional 108.59 Acres land will be used for proposed modernization.
- (vi) Industry has already developed greenbelt in an area of more than 33% that is 200 Acres out of 387 Acres of the total area of the project, during modernization they are increasing the greenbelt area to 237 acres out of 495.59 Acres.
- (vii) The estimated project cost is Rs 100 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs40 Crores and the Recurring cost (operation and maintenance) will be about Rs 4 Croresper annum.
- (viii) Total Employment will be 7826 persons as direct & also has additional indirect employment after modernization. Industry proposes to allocate Rs 7.4 Crores for 2016-17 period and for consecutive years as per the existing norms towards Corporate Social Responsibility.
- (ix) No national parks, wildlife sanctuaries, biosphere reserves, Tiger / Elephant reserves, Wildlife corridors, etc. within 10 km radius. However, Amanam Reserved Forest in North and Gillman Field Reserve Forest in South are located within 10 km area. Gosthani River is flowing at a distance of 2 km in west direction. Sea cost is at a distance of 10-20m from the project site.
- (x) CRZ clearance is not applicable to the proposed project.
- (xi) Ambient air quality monitoring was carried out at 10 locations during December, 2016 to February, 2017 and submitted baseline data indicates that ranges of concentrations of PM<sub>10</sub> (41.6-51.4 μg/m³), PM<sub>2.5</sub> (21.7 29.8 μg/m³), SO<sub>2</sub> (11.9 21.2 μg/m³) and NO<sub>x</sub> (18.1 29.1 μg/m³) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs from the existing project would be 4.1μg/m³, 8.1μg/m³ and 19.9μg/m³ with respect to PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub>. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
- (xii) Total water requirement is 1866.6m<sup>3</sup>/day of which fresh water requirement of 1466.6m<sup>3</sup>/day and will be met from Gosthani River.
- (xiii) Total effluent of 1448.7m<sup>3</sup>/day will be treated through Effluent Treatment Plant/Sewage Treatment Plant and 600 m<sup>3</sup>/day treated water will be used for greenbelt and remaining 814 m<sup>3</sup>/day of treated water will be disposed to sea after meeting the marine discharge standards.
- (xiv) Power requirement is 30 MVA will be met from AP TRANSCO. Existing unit has DG sets of 6x1500 kVA, 6x1250 kVA, 2x1000 kVA, 2x320 kVA, 2x125 kVA, 1x62.5 kVA and 1x10 kVA capacities are used as stand by during power failure. Stack heights are provided as per the CPCB norms of DG sets.

- (xv) Existing unit has 24 TPH/16 TPH/6 TPH Coal fired boilers with ESP/bag filter/multi cyclone separator with a stack of height of 35/35/30 m for controlling the Particulate emissions (within statutory limit of 115mg/Nm³) respectively.
- (xvi) The Process emissions of NH<sub>3</sub>, SO<sub>2</sub>, CO, HCl, H<sub>2</sub>S, CO<sub>2</sub>, H<sub>2</sub> etc., are generated. The process emissions resulting from the production of various products such as Carbon monoxide, Carbon dioxide & Hydrogen are left into atmosphere where as other process emissions are scrubbed with respective absorbing solutions (water, alkali/acid) and the scrubbed effluent is sent to ETP for treatment and disposal.
- (xvii)Details of solid waste from manufacturing process (Organic residue, Spent carbon, Catalyst, etc) are given in below tables along with worst case generation scenario. The details of the salts (by products) and various solid wastes (hazardous) generated from various activities and its management measures are given below.

### **Details of the Process Salts**

S. No	Salts Description	Source of generation	Quantity (kg/day)	Method of Disposal
1	KCl / K <sub>2</sub> SO <sub>4</sub>	Process	280.21	Sold to outside parties
2	NaSO <sub>4</sub>	Process	1097.42	as by products
3	Sodium Acetate	Process	268.37	
4	Wet Iron Sludge	Process	135.4	

## Solid & Hazardous waste generation and disposal methods

S.No	Waste generation	Quantity	Method of Disposal
1	Process residue	3102 kg/ Day	Will be sent to authorized cement plants for co-processing or for incineration at onsite / TSDF Parawada, Viskhapatnam District.
2	ETP Sludge	200 kg/ Day	To TCDE Deserved Windshountson
3	Multiple effect evaporation or forced evaporation salts	391 kg/ Day	To TSDF, Parawada, Visakhapatnam District for secured land filling.
4	Incinerated ash	75 kg/ Day	
5	Containers & Container liners of Hazardous chemicals & hazardous Wastes.	Containers 2000 no's/month and Liners 5000 kg's/ month	After detoxification, it shall be disposed to the outside agencies.
6	Spent Carbon	250 kg/ day	Shall be used if required in filtration or Shall be sent to the authorize cement plants for co-processing. Hence there is no impact on Environment
7	Used oil/Waste lubricant oil.	200 Ltrs/ Month	Sent to authorized re-processors/recyclers.
8	Spent Solvents	258.7 kL / Day	Shall be recovered within the premises.
9	Mixed spent Solvent	80 kL / Day	Sent to authorized agencies/Co-incineration in cement industries
10	Spent acids	35 kL/ Day	Sent to authorized agencies
11	Spent Catalysts	2000 kg/ Month	Sent to authorized re-processors/recyclers.

(xviii) Public Hearing for the proposed modernization project exempted as per para 7 (ii) of EIA Notification 2006.

(xix) PP has submitted a copy of the certified compliance report of the existing EC issued bhy

## Ministry's Regional office at Chennai. List of existing products:

## (xx)

## Details of the existing products as per CFE (Dated 14.09.2015)

S. No.	Product Name	Quantity kg/day
1	DL -NAPROXEN (INTERMEDIATES OF NAP/ SN) ~1960TONS	274.0
2	NAPROXEN (450MTA)	5616.4
3	NAPROXEN (SODIUM) (1600MTA)	3010.4
4	SIGMA-I WITH ISA & ISB (DEXTROMETHORPHAN HBR INTERMEDIATES)	684.9
5	SIGMA (DEXTROMETHORPHAN HBR)	5.5
6	ATIPA ( ATIPADICHLORIDE)	684.9
7	IMPALA WITH BAH & 3-HAP	479.5
8	F MOC OSU	1.4
9	CPCCA (KEY)	82.2
10	VERAPAMIL HCL	1.4
11	VENLAFAXINE	41.1
12	SIMVASTATIN	82.2
13	BUPROPION HCL	68.5
14	SITAGLIPTIN PHOSPHATE & KETOAMIDE	411.0
15	AMINO ALCOHOL	1.4
16	CARBIDOPA	137.0
17	LEVODOPA	547.9
18	GABAPENTIN	4383.6
19	TRIPROLIDINE HCL	5.5
20	GW 622082 X ( CLASSIC)	2.7
21	LAMOTRIGINE	191.8
22	CAPECITABINE	54.8
23	VIGABATRINE	13.7
24	RALTEGRAVIER	109.6
25	DCAM	41.1
26	CKE	54.8
27	ORLISTAT	82.2
28	DIAL	2.7
29	ASTAXANTHIN	137.0
30	CANTHAXANTHIN	13.7
31	LYCOPENE	27.4
32	BETA-CAROTENE	137.0
33	ASCORBYL PALMITATE	27.4
34	Z-L VALINE	191.8
35	LOSARTAN (MECEDES)	274.0
36	ATOVAQUINE (IVAX-NEW)	68.5
37	SUMATRIPTAN	8.2
38	MOC-VALINE	2.7

	39	INTERMEDIATE OF LEVETIRACITAM	821.9
<u> </u>	40	BOC-CORE SUCCINATE/ BCS (DAVINCY)	137.0
	41	KETOENAMINE (RADO)	274.0
	42	2,4- WING ACTIVE ESTER (ZODIAC)	95.9
		DIHYDROXY PYRIDONE CARBOXYLIC ACID	
	43	METHYL ESTER /DHPM (ELENTRA)	41.1
	44	ALENDRONIC ACID (OPTRA)	27.4
	45	BOSENTAN MONOHYDRATE (LILLY)	13.7
	46	ENTACAPONE	13.7
	47	IRBESARTAN	68.5
	48	4-ISOPROPYL-3- METHYL PHENOL/ IPMP (DIONE)	2.7
	49	VALSARTAN (CHEVORLET)	274.0
	50	OLMISARTAN (EPIC)	5.5
	51	2,3-DIMETHYL-6-AMINO-2-H-INDAZOLE /GW776994 (MIMAS)	41.1
		4-CHLORO-6- METHOXY-7(3-MORPHOLIN-4-YL	
	52	PROPOXY) QUINOLINE/SB2192604A (ERIS)	2.71
	53	(2R,3R)-3-(2,5-DIFLUOROPHENYL)-3-HYDROXY- 2-METHYL-4-(1H-1,2,4-TRIAZOL-1-YL) BUTANETHIOAMIDE /BAL 17697 (NANO)	5.5
	54	2-((1,5-BIS (BENZHYDROXY)-4-OXO -1,4- DIHYDROPYRIDIN-2- YL)METHOXY)ISOINDOLINE-1,3-DIONE /BAL0029711(SWALLOW)	5.5
	55	3-(PROPAN-2-YL)-5-(TRICHLOROMETHYL)-1,2,4-OXADIAZOLE (GSK 2116107 A)	2.7
	56	GSK 2226529A	2.7
	57	(1S)-2-AMINO-1-{3-[3- (BENZYLOXY)PROPOXY]PHENYL}ETHANOL HYDROCHLORIDE (GSK 2395558B)	2.7
	58	APOCAROTENOL	5.5
	59	LUTEIN	5.5
	60	LEVODOPA ETHYLESTER SUCCINATE	2.7
	61	INTERMEDIATE OF PRELADENANT	2.7
	62	PHTHALAZINONE	2.7
	63	5-BROMO-[1,2,4] TRIAZOL [1,5-A]PYRIDINE-2- YL AMINE (GSK 283119A)	2.7
	64	ENOXAPARIN SODIUM	2.7
	65	EF-9 [3-O-ACETYL-1,6-ANYHDRO-2-AZIDO-2-DEOXY-4-O-(METHYL 2,3-DI-O-GLUCOPYRANOSYLURONATE) BETA-D-	
		GLUCOPYRANOSE	2.7
	66	LACOSAMIDE	2.7
	67	PREGABALIN	27.4
	68	CHLOROPURINE/CIS(1S,4R)-1-AMINO-4- (HYDROXYMETHYL)-2-CYCLOPENTENE.HCL / AMINO ALCOHOL	205.5
			203.3

69	ABACAVIR	2.7
70	SUVOREXANT HCL (INCLUDING AMINE HCL & TRIAZOLE ACID)	13.7
71	Propan-2-yl(2 $r$ )-2-{[( $r$ )-({(2 $r$ ,3 $r$ ,4 $r$ ,5 $r$ )-4-chloro-5-[2,4-dioxo-3,4-dihydropyrimidin-1(2 $h$ )-yl]-3-hydroxy-4-methyloxolan-2yl}methoxy)(phenoxy)phosphoryl]amino}propanoate	13.7
72	DOULTEGRAVIR	5.5
73	PANTAPROZOLE	2.7
74	ESOMEPROZOLE	2.7
75	ALLOGLIPTIN	2.7
76	MERABAGRAN	2.7
77	VILDAGLIPTIN	2.7
78	LINAGLIPTIN	2.7
79	RANOLAZINE	5.5
80	VILAZODONE HCL	2.7
81	PIPREQUINE	2.7
82	SOFOSBUVIR	2.7
83	UBT	5.5
84	TATD SALT	5.5
85	MESALAMINE	68.5
86	ETHYL ESTER	5.5
87	ETHYL ISOCYANATO ACETATE	2.7
88	R&D PRODUCTS	109.6

- (xxi) The proposed project is for modernization/expansion of the existing unit by adding 108.59 Acres (43.94 Ha) of land to existing 387 Acres (156.6 ha) land for decongestion of the production area, ETP area, Storage area, etc. by shifting non production activities to new area. Total area after modernization is 495.59 acres (200.54 ha).
- (xxii) The Non production facility are envisaged in extended areas are Modern ETP on elevated structure, 24-ton Coal fired boiler, coal and ash storage, Waste Yard & non-moving ware house (Engg& Others), Fresh Water Reservoir, Treated Water disposal, all utilities for above like Air system for ETP, Water Treatment Plant, transformer, Fire Fighting system for hazardous storage, Coal sheds associated facilities etc with a Green Belt of around 30 acres
- (xxiii) The proposal is to meet global manufacturing practices in pharma sector by adopting all modern facilities for compliances to continue to achieve the export targets. During the proposed modernization there will not be any change in production capacity, number of products, water consumption, wastewater generation, pollution loads.

EAC has deliberated on the proposal. EAC has noted that the current proposal is for ensuring best practices in pharma industry. EAC has deliberated on the certified compliance report and found it to be satisfactory. EAC has considered the location of the unit and noted the proposal is not attracting CRZ clearance.

EAC after detailed deliberation has recommended the project for Environmental Clearance subject to compliance of following specific conditions and other general conditions

## **Specific condition**

- 1. 10 m wide green belt with trees shall be developed around the periphery of the existing and proposed unit. 33 % of the area shall be developed as green cover area with trees.
- 2. Enterprises Social Commitment shall be implemented with atleast 5 % cost of the expansion project for five years covering RO drinking water facility (with all the modern facilities) in the identified villages and computer/smart class facilities for schools.
- 3. PP shall plant 1000 trees/year (fruit bearing trees/native trees) for five years and maintain them.
- 4. The proposed project shall not lead to any additional pollution load.

## 4<sup>th</sup> May, 2017 (Day 2)

## 23.6 Terms of Reference (TOR)

Proposed to establish synthetic organic industry at survey No. 63+1, 64/1, 64/4, 70, 71, 72, 74/11, 45 (Phase-II), Village: Mahagaon, Tal. Dist. Palghar, Maharashtra by M/s Jesons Industries Ltd. – Terms of References – reg. [IA/MH/IND2/64045/2017, J-11011/193/2017-IA.II(I)]

The Project Proponent (PP) informed following:-

- (i) The project involves proposed to establish synthetic organic industry at survey No. 63+1, 64/1, 64/4, 70, 71, 72, 74/11, 45 (Phase-II), Village: Mahagaon, Tal. Dist. Palghar, Maharashtra by M/s Jesons Industries Ltd.
- (ii) All Synthetic Organic Chemical Industry excluding drug formulations located outside the notified industrial area are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) It is proposed project and proposed available land area is 43946.12 m<sup>2</sup> (10.86 Acre).
- (iv) In proposed project 17363.20 m<sup>2</sup>. of area is earmarked as green belt.
- (v) The estimated project cost is Rs.50 crore. Total capital cost earmarked towards environmental pollution control measures is Rs. 87.5 lakhs and the Recurring cost (operation and maintenance) will be approx. Rs. 9.45 lakhs per annum.
- (vi) Total Employment will be 250 nos. of persons as direct & 250 nos. of indirect jobs will be in operation of proposed project. Industry proposes to allocate Rs. 10 lakhs towards Corporate Social Responsibility.
- (vii) It is reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Surya River is flowing at a distance a distance of 1.5 km in east direction.
- (viii) Total water requirement will be 395 m<sup>3</sup>/day, out of which fresh water requirement of 350 m<sup>3</sup>/day and will be met from borewell as a ground water.
- (ix) Treated effluent of 53 m<sup>3</sup>/day will be treated through ETP followed by MEE Plant will be

- based on Zero Liquid discharge system.
- Power requirement for proposed project will be 1000 kW and will be met from Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL). 600 kW DG sets will be used as standby during power failure. Stack 8 meter above roof will be provided to DG set as per CPCB norms and it will be used as standby during power failure.
- (xi) In Proposed unit 850 kg/hr Oil fired boiler will be installed. Stack of height of 33 m will be installed for controlling the Particulate emissions (within statutory limit of 115 mg/Nm<sup>3</sup>).
- (xii) There will no process emissions generation from proposed unit operations.
- (xiii) Gel Scrap, Process Waste, Used Oil, ETP Sludge and Plastics Drums Will be sent to CHWTSDF, M/s. Mumbai Waste Management Limited, Plot No. P-32, MIDC, Taloja, Tal: Panvel, Dist: Raigad.
- (xiv) Following are the list of existing and proposed products:

Sr. Nos.	Name of Product	Quantity in MT/Y
1.	Synthetic Acrylic Polymer Emulsions	72000
2.	Industrial Synthetic Adhesives, Glues	9600
3.	Thermosetting Acrylic Resins, Ethylene vinyl acetate Emulsions/powder	12000
4.	Polymer of Vinyl Acetate	12000
5.	Vinyl Copolymers	12000
6.	Water proofing compounds and Construction emulsions	15000
7.	Synthetic Organic/ Pigments & Preparation there on	24000
8.	Paper Chemical	9000
9.	Solvent based Adhesive	6000
10.	Styrene Polymer Emulsion	24000
11.	Opaque Polymer	36000

During presentation the EAC noted that PP did not mentioned the environmental sensitivity involved within 10 km radius. PP did not mentioned the chemicals name and CIS numbers of proposed products. The EAC under rated the performance of the consultant. The EAC decided to defer the proposal for want of following additional information:

- i. List of Environmental Sensitivity involved within 10 km radius to be submitted.
- ii. Report on alternate site analysis to be submitted.
- iii. Recommendation from concerned State authority shall be submitted.
- iv. Revised Form-1 to be submitted.
- v. Revised layout plan earmarking space for 10 m green belt of perennial trees to be submitted.

## Proposed Industrial project M/s Cellulose Solutions Private Limited, Unit-2 at Survey No 169, Manhalli (V), Bidar (T & D), Karnataka, for manufacturing of CMC and PAC Semi Synthetic Products – Terms of References – reg. [IA/KA/IND2/64092/2017, J-11011/196/2017-IA.II(I)]

The Project Proponent and the accredited Consultant M/s. Ramky Enviro Services Pvt.Ltd. made a detailed presentation on the salient features of the project and informed that:

- i. The proposal is for manufacturing of Purified Sodium Carboxymethyl Cellulose (CMC) & Poly Anionic Cellulose (PAC) at Unit 2 by M/s. Cellulose Solution Private Limited and located at Survey No 169, Manhalli (V), Bidar (T&D), Karnataka.
- ii. All Synthetic Organic Chemical Industry excluding drug formulations located inside the

- notified industrial area are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B' but due to applicability of general condition i.e. interstate boundary hence are appraised at Central Level by Expert Appraisal Committee (EAC).
- iii. The total land area is  $20240\text{m}^2$ , the unit 1 is established in an area of  $7686\text{m}^2$  and the unit 2 is proposed in an area of  $12554\text{ m}^2$ .
- iv. Industry will be developing greenbelt in an area of 36%, that is 7320m<sup>2</sup> out of 20240 m<sup>2</sup> of the total area of the project.
- v. The estimated project cost is Rs 23.97 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs2.5Crores (approximately) and the Recurring cost (operation and maintenance) will be about Rs 50 Lakhs per annum (approximately).
- vi. Total Employment will be 67 persons as direct&around 50 persons indirect. Industry proposes to allocate Rs. 20 Lakhs towards Corporate Social Responsibility.
- vii. It is reported that as per Form-1 there are no wildlife sanctuaries, biosphere reserves, Tiger / Elephant reserves, Wildlife corridors, etc. within 10 km radius. However there are Tadapalli Reserved Forest located around 0.3km Southwest, Tadapalli Protected Forest boundary located at around 0.5km South, Bagdal Reserved Forest located at around 5.5 km Northwest, Kalbemal Reserved Forest located at around 5.7km NorthEast, Chitta Reserved Forest located at around 7km North, Kasimpur Protected Forest boundary located at around 8.2 km Northwest. Karanjavaguis flowing at a distance 4.5km in Southeast direction
- viii. Total water requirement is 165 m<sup>3</sup>/day of which fresh water requirement of 145 m<sup>3</sup>/day and will be met from Bore Wells / tankers
- ix. Total effluent of 53 m³/day, out this 50 m³/day will be treated throughEffluent Treatment Plant based on Zero Liquid discharge system and treated water will be used for cooling and greenbelt. Whereas domestic wastewater of 3 m³/day will be treated in septic tank followed by soak pit.
- x. Power requirement is 1250 kVA willbe met from Gulbarga Electricity Supply Company Limited (GESCOM). DG sets of 500KVA capacity are used as standbyduring power failure. Stack height 5m above the buildingwill be provided as per CPCB norms
- xi. A 10 TPH Coal fired boiler is proposed with multi cyclone separator/bagfilter with a stack of height of 30m will be installed for controlling the Particulateemissions (within statutory limit of 115 mg/Nm3).
- xii. The Process emissions generated are controlled by providing primary condenser having water circulation and secondary condenser having brine circulation.
- xiii. Solid waste/ Hazardous waste Spent hardening salt 500 TPA will be sent to TSDF, used oil and waste oil 1 TPA will be given recyclers, used containers/liners contaminated with hazardous chemicals around 200 nos. will be given to authorized recyclers / reuse.
- xiv. List of proposed products:
  - 1. Purified Sodium Carboxymethyl Cellulose (CMC).
  - 2. Poly Anionic Cellulose (PAC)2000 MT per Annum

During presentation the committee noted that Sodium Carboxymethyl Cellulose (CMC) are synthetic organic chemicals and unit-1 is manufacturing synthetic these synthetic organic chemicals since 2010, without obtaining prior Environmental clearance. Now PP has applied for TOR of Unit -2. The committee was of the view that both unit are within the same premises and will be treated as one unit. Therefore, it is a case of violation under E(P) Act, 1986 by not following the provisions of the EIA, Notification, 2006. The Ministry may take action accordingly.

Neptha Hydro Treatment Unit (NHDT) and Catalytic Reforming Unit (CRU) project at Guwahati Refinery by M/s Indian Oil Corporation Limited – Terms of References - reg. [IA/AS/IND2/63773/2017, J-11011/197/2017-IA.II(I)]

The Project Proponent made a detailed presentation on the salient features of the project and informed that:

- i. The proposal is for Naphtha Hydrotreater & Catalytic Reforming Unit (NHDT-CRU) at Guwahati Refinery by M/s Indian Oil Corporation Limited and located at Indian Oil Corporation Limited, Noonmati, Guwahati, Assam.
- ii. All Petroleum Refining Industry are listed at S.N. 4(a) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- iii. Ministry has issued EC earlier vide letter no. J-11011/71/2012-IAII(I).; dated 18<sup>th</sup> April, 2016 for Revamp of INDMAX unit to Indian Oil Corporation Limited.
- iv. Proposed facility will be installed within the existing refinery premises.
- v. The estimated project cost is Rs 244 Crore.
- vi. Total Employment will be 19 persons.
- vii. Guwahati Refinery already has a full-fledged CSR plan with spending of about 2% of annual revenue on CSR activities.
- viii. It is reported that as per Form-1, Amchang wildlife sanctuary lies within 10 km distance. River Brahmaputra is flowing at a distance a distance of 3km in North direction.
- ix. Total water requirement is <2.0 m3/day of which fresh water requirement of 0 m3/day and will be met from reuse of treated effluent from ETP.
- x. Treated effluent of <2.0 m3/day will be treated in existing Sour Water Stripper before processing in existing Effluent Treatment Plant.
- xi. Power requirement for the proposed facility will be  $\sim$ 0.5 MW and will be met from existing infrastructure of the refinery for power generation.
- xii. Total duty of fired heaters in the unit is estimated to be 9.5 MMKcal/h (approx). Fuel consumed will be 1.0 MT/h (approx). Fuel will be off-gas generated within the unit supplemented by refinery fuel gas. Stack emissions will be ensured to meet the emission guidelines during design stage.
- xiii. There will be no generation of solid / hazardous waste during normal operation of the unit. Spent catalyst generated after completion of life of the catalyst will be disposed off through agencies specified by CPCB as per standard guidelines.
- xiv. Proposed capacity of NHDT\_CRU unit is 90 KTA. There will be no change in the refinery product pattern due to the proposed facility.

The EAC exempted the public hearing under para 7(ii) of EIA Notification, 2006 as Public hearing has been conducted earlier in 10<sup>th</sup> January, 2013 for the existing unit.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- i. Public hearing is exempted under para 7(ii) of EIA Notification, 2006.
- ii. Certified compliance report of existing EC to be submitted.

It was recommended that 'TOR' without Public consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure

Proposed Bulk Drugs & Bulk Drug Intermediates Manufactuirng Unit of M/s Rutu Chemicals Plot No. 2924/2, GIDC Industrial Estate, Panoli, Taluka Ankleshwar, Dist. Bharuch, Gujarat by M/s Rutu Chemicals – Terms of References – reg. [IA/GJ/IND2/63467/2017, J-11011/149/2017-IA.II(I)]

- (i) The project involves proposed Bulk Drugs & Bulk Drug Intermediates Manufactuirng Unit of M/s Rutu Chemicals Plot No. 2924/2, GIDC Industrial Estate, Panoli, Taluka Ankleshwar, Dist. Bharuch, Gujarat by M/s Rutu Chemicals.
- (ii) All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board is situated within 5 km from the project site, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) Proposed land area is 1475 m<sup>2</sup>. Industry will be developed Greenbelt in an area of 20 % i.e. 295 m<sup>2</sup> out of 1475 m<sup>2</sup> of area of the project.
- (iv) The estimated project cost is Rs. 370 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 25 Lakhs and the recurring cost (operation & maintenance) is about Rs. 2 Lakhs per annum.
- (v) It is reported that <u>No</u> national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. lies within 10 km distance.
- (vi) Ambient air quality monitoring is going on at 8 locations during March to May 2017.
- (vii) Total water requirement will be 41 KL/Day of which fresh water requirement of 41 KL/Day and will be met from GIDC Water Supply.
- (viii) Treated Effluent 12.0 KL/Day. After primary treatment and tertiary Treatment, treated effluent will be sent to the Common Effluent Treatment Plant (CETP) of M/s PETL, Panoli for the further treatment and final disposal. Domestic effluent (2.5 KL/Day) will be disposed of through septic tank & soak pit.
- (ix) Power requirement will be 250 KVA and will be met from DGVCL and D.G. Set (1 No.) 125 KVA capacity (emergency standby).
- Unit will have Boilers (1 no.), Thermic Fluid Heater (1 no.) Process Vent (1 no.) & DG Set (1 No.). Adequate air pollution control equipments i.e. Stack Height shall be provided, multicyclone separator with bag filter & water scrubber follow by alkali scrubber shall be installed to prevent air pollution with a stack of height of 10 m, 10 m, 15 m & 5 m respectively will be installed for controlling the Particulates emissions.
- (xi) ETP Sludge and Process waste will be sent to TSDF. Discarded Drums/Bags will be sold to GPCB registered reprocessor/ Refiner. Discarded Drums/Bags will be given to given to GPCB authorized Vendor. Spent Carbon and Distillation Residue will be sent to cement industries for co-processing or to CHWIF.
- (xii) Following are the list of proposed products:

Sr. No.	Products	CAS No.	Proposed Capacity (MT/Month)
1	Diclofenac Sodium	15307-79-6	
2	Aceclofenac	89796-99-6	
3	Mefenamic Acid	61-68-7	

		Total	40.0
9	Oxcarbazapine	28721-07-5	
8	Celecoxib	169590-42-5	
7	Pregablin	148553-50-8	
6	Pentaprazole Sodium	138786-67-1	
5	Tramadol	27203-92-5	40.0
4	Chlorzoxazone	95-25-0	

The EAC noted that PP has started ambient air quality monitoring at 8 locations since March, 2017. EAC is agreed with it.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

### A. Additional TOR

- i. Public hearing is exempted under the provisions as per para 7(i) III. Stage (3) (i) (b) of the EIA notification, 2006.
- ii. ESR plan for 5 year @ 2.5 % with the consultation of nearby villagers to be submitted.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b) of the EIA notification, 2006.

# Proposed Bulk Drugs & Bulk Drug Intermediates Manufacturing Unit of M/s Rapid Chemicals Plot No. 3209, GIDC Industrial Estate, Panoli, Taluka Ankleshwar, Dist. Bharuch, Gujarat M/s Rapid Chemicals – Terms of References – reg. [IA/GJ/IND2/63462/2017, J-11011/148/2017-IA.II(I)]

- (i) The project involves proposed Bulk Drugs & Bulk Drug Intermediates Manufactuirng Unit of M/s Rapid Chemicals Plot No. 3209, GIDC Industrial Estate, Panoli, Taluka Ankleshwar, Dist. Bharuch, Gujarat M/s Rapid Chemicals.
- (ii) All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board is situated within 5 km from the project site, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) Proposed land area is 1500 m<sup>2</sup>. Industry will be developed Greenbelt in an area of 20 % i.e. 300 m<sup>2</sup> out of 1500 m<sup>2</sup> of area of the project.
- (iv) The estimated project cost is Rs. 350 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 25 Lakhs and the recurring cost (operation & maintenance) is about Rs. 2 Lakhs per annum.
- (v) It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. lies within 10 km distance.

- (vi) Ambient air quality monitoring is carried out at 8 locations during March to May 2017.
- (vii) Total water requirement will be 27.5 KL/Day of which fresh water requirement of 27.5 KL/Day and will be met from GIDC Water Supply.
- (viii) Treated Effluent 5.0 KL/Day. After primary treatment and Tertiary Treatment, treated effluent will be sent to the Common Effluent Treatment Plant (CETP) of M/s PETL, Panoli for the further treatment and final disposal. Domestic effluent (2.5 KL/Day) will be disposed of through septic tank & soak pit.
- (ix) Power requirement will be 250 KVA and will be met from DGVCL and D.G. Set (1 No.) 125 KVA capacity (emergency standby)
- Unit will have Boilers (2 nos.), Thermic Fluid Heater (1 no.) Process Vent (1 no.) & DG Set (1 No.). Adequate air pollution control equipments i.e. Stack Height shall be provided, multicyclone separator with bag filter & water scrubber follow by alkali scrubber shall be installed to prevent air pollution with a stack of height of 10 m, 10 m, 15 m & 5 m respectively will be installed for controlling the Particulates emissions.
- (xiii) ETP Sludge and Process waste will be sent to TSDF site. Discarded Drums/Bags will be sold to GPCB registered reprocessor/ Refiner. Discarded Drums/Bags will be given to given to GPCB authorized Vendor. Spent Carbon and Distillation Residue will be sent to cement industries for co-processing or to CHWIF.
- (xiv) Following are the list of proposed products:

Sr. No.	Products	CAS No.	Proposed Capacity (MT/Month)
1	Diclofenac Sodium	15307-79-6	
2	Aceclofenac	89796-99-6	
3	Mefenamic Acid	61-68-7	30.0
4	Chlorzoxazone	95-25-0	
5	Chlorohexidine Base	55-56-1	
	Chlorohexidine Digluconate	18472-51-0	
6	Solution (20%)		
	Total		30.0

The EAC noted that PP has started ambient air quality monitoring at 8 locations since March, 2017. EAC is agreed with it.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- i. Public hearing is exempted under the provisions as per para 7(i) III. Stage (3) (i) (b)) of the EIA notification, 2006.
- ii. ESR plan for 5 year @ 2.5 % with the consultation of nearby villagers to be submitted.
- iii. Submit commitment that Diclofenac will not manufactured for veterinary use.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the

EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b) of the EIA notification, 2006. 23.6.6 Proposed Expansion Project for Dyes and Dye Intermediates Unit of M/s Rachana Dyechem Plot No. 2907, Phase-III, GIDC, Panoli, Tal: Ankleshwar, Dist: Bharuch (Gujarat) by M/s Rachana Dyechem - Terms of References - reg. [IA/GJ/IND2/64129/2017, J-11011/200/2017-IA.II(I) The project proponent informed following:-(i) The project involves proposed Expansion Project for Dyes and Dye Intermediates Unit of M/s Rachana Dyechem Plot No. 2907, Phase-III, GIDC, Panoli, Tal: Ankleshwar, Dist: Bharuch (Gujarat) by M/s Rachana Dyechem. All synthetic organic chemicals industry located in a notified industrial area/estate are listed (ii) at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board is situated within 5 km from the project site, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee. Unit was established prior to EIA notification, 2006. (iii) Proposed land area is 5,000 m<sup>2</sup>. Industry will be developed Greenbelt in an area of 14.4 % (iv) i.e. 720 m<sup>2</sup> out of 5000 m<sup>2</sup> of area of the project. The estimated project cost is Rs. 3.35 Crores. Total capital cost earmarked towards (v) environmental pollution control measures is Rs. 50 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 5 Lakhs per annum. Industry purposes to allocate Rs. 8 Lakhs @ 2.5 % towards Corporate Social (vi) Responsibility. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, (vii) Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. waterbody – sea is flowing at a distance a distance of 5 km. Ambient air quality monitoring is carring out at 8 locations during March-2017 to May-(viii) 2017. Total water requirement will be 144 m<sup>3</sup>/day and will be met from GIDC Water Supply. (ix) Treated Effluent (33 KL/Day) will be sent to GIDC drain for deep sea disposal. Condensate (x) (100 KL/Day) from MEE shall be reuse. Power requirement will be 125 HP (Existing), 100 HP (Proposed) and 150 HP= 1 DG Set (xi) (in emergency case only) and will be met from DGVCL. (xii) Unit will have total 1 No of Boiler (Existing), 1 No. of Hot Air Generator(Proposed) & 3 No. of Thermopack (10 lac kcal/hr: Existing ,6 lac kcal/hr-standy: Existing and 10 lac kcal /hr: Proposed) & 1 Nos. of D. G. Set. Multi cyclone separator/, dust collector and Water Scrubber with a stack of height of 12 m, 15 m & (20m, 15m-standby, 33m) respectively will be installed for controlling the Particulates emissions. Ventury Scubber will be provided to control process emissions. (xiii) Empty Barrels/Containers / Liners contaminated with hazardous chemicals/wastes will be (xiv) sent to send to authorized decontamination facility/ recycler or reuse or send back to supplier. Used or Spent oil will be reused in Plant and machinery as lubricant or sell it to authorized re-refiners/ recycler. Chemical Sludge from waste water treatment, MEE Salt, Process Waste/Sludge and Iron sludge will be sent to TSDF of BEIL, Ankleshwar or PSWMCL, Panoli. MgCO<sub>3</sub> Sludge sent to end user or Disposal at TSDF of BEIL, Ankleshwar or PSWMCL, Panoli. Spent Carbon will be sent to Incinerator Site (BEIL, Ankleshwar) or sell to cement industry for co-processing. Spent Sulfuric Acid will be sold to end users. Following are the list of proposed products: (xv) **Production Capacity (MT/MONTH)** SR. **PRODUCTS** 

NO.					
		CAS NO	EXISTING QUANTIT Y	PROPOSED EXPANSIO N QUANTITY	TOTAL QUANTITY
		EX	ISTING		
1	Amino G Acid	86-65-7	35		35
2	Schaeffer's Acid	93-01-6	35	115	150
3	G SALT	842-18-2	20		20
4	Dimethyl Amino Ethyl Chloride HCl	<u>4584-46-7</u>	20	-20	0.0
5	K. Acid	118-03-6	35		35
6	Broenner's Acid	93-00-5	25	25	50
	Total		170	120	290
			OPOSED		
1	C Acid	131-27-1		15.0	15.0
2	Sulpho C Acid	27310-25-4		15.0	15.0
3	Violet Acid	578-85-8		9.0	9.0
4	EBASA Acid	101-11-1		50.0	50.0
5	Nitri			10.0	10.0
6	Mixed Claves Acid			15.0	15.0
7	EPSILON	117-43-1		8.0	8.0
8	Amido Epsilon Acid	74543-22-9		10.0	10.0
9	Peri Acid &	82-75-7		16.0	16.0
	Laurent Acid	84-89-9		10.0	10.0
10	4 ADAPSA	91-30-5		20.0	20.0
11	Opsamide	98-32-8		15.0	15.0
12	Broenner's Methyl Sulphonamide (NASA)	104259-55- 8		15.0	15.0
	TOTAL		198	198	
	TOTAL (EXISTING+PR	(OPOSED)	170	318	488

The EAC noted that PP has started ambient air quality monitoring at 8 locations since March, 2017. EAC is agreed with it.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

## A. Additional TOR

- i. Public hearing is exempted under the provisions as per para 7(i) III. Stage (3) (i) (b) of the EIA notification, 2006.
- ii. ESR plan for 5 year @ 5 % of the project cost with the consultation of nearby villagers to be

submitted.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7 (i) III. Stage (3)(i)(b)of the EIA notification, 2006.

Proposed Expansion of Bulk Drugs and Bulk Drug Intermediates in Existing Unit of M/s Vandana Chemicals Plot No. 7409, Near Karmatur Chowkadi, GIDC Industrial Estate, Ankleshwar, Dist: Bharuch, Gujarat by M/s Vandana Chemicals – Terms of References – reg. [IA/GJ/IND2/64140/2017, J-11011/201/2017-IA.II(I)]

- (i) The project involves proposed Expansion of Bulk Drugs and Bulk Drug Intermediates in Existing Unit of M/s Vandana Chemicals Plot No. 7409, Near Karmatur Chowkadi, GIDC Industrial Estate, Ankleshwar, Dist: Bharuch, Gujarat by M/s Vandana Chemicals.
- (ii) All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board hence project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) Existing unit is manufacturing synthetic organic chemicals since 2002.
- (iv) Proposed land area is 1024 m<sup>2</sup>. Industry will be developed Greenbelt in an area of 20 % i.e.200 m<sup>2</sup> out of 1024 m<sup>2</sup> of area of the project.
- (v) The estimated project cost is Rs. 2.5 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 40 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 3 Lakhs per annum.
- (vi) Industry purposes to allocate Rs. 6.25 Lakhs @ 2.5 % towards Corporate Social Responsibility.
- (vii) It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Sea is situated at a distance a distance of 5 km.
- (viii) Ambient air quality monitoring is carring out at 8 locations during March-2017 to May-2017.
- (ix) Total water requirement will be 19.2 m<sup>3</sup>/day of which fresh water requirement of 19.2 m<sup>3</sup>/day and will be met from GIDC Water Supply.
- (x) Treated Effluent (21.9 KL/Day) will be sent to CETP, M/s. ETL-Ankleshwar for further treatment.
- (xi) Power requirement will be 250 KVA and will be met from DGVCL.
- (xii) Unit will have 2 Nos. of boiler & 1 Nos. of THF & 1 Nos. of D. G. Set. Multi cyclone separator/bag filter, with a stack of height of 30 m & 11 m respectively will be installed for controlling the Particulates emissions.
- (xiii) Two Stage Scrubber will be provided to control process emissions.
- (xiv) Details of Solid waste/Hazardous waste generation and its management.

CAT.	HAZARDOU S WASTE	EXISTING (MT/Month)	PROPOSED TOTAL (MT/Month)	METHOD OF DISPOSAL
5.1	Used Oil	1.0 Lit/Month	0.02	Collection, Storage,
				Transportation, Re use or Sent to
				GPCB approved recycler
33.1	Discarded	120 Nos./	2	Collection, Storage,

	barrels/ containers/ liners	Month		Transportation, decontamination and Sent back to supplier / to GPCB approved recycler
35.3	ETP Sludge	10	15	Collection, Storage, Transportation and Sent to TSDF site for secured land filling
20.3	Distillation Residue		4	Collection, Storage, Transportation and sell to Cement Industries for Co-processing or Disposal at Common Incineration Site
28.3	Spent Carbon		2	Collection, Storage, Transportation and co-processing in cement industries or disposal at Common Incineration Site
28.2	Spent Catalyst		0.5	Collection, Storage, Transportation and give to manufacturer for regeneration for reuse or sell to end user.
28.6	Spent solvents		100	Collection, Storage, recovered through in house distillation and or sent for distillation job work to authorized recycler then reuse in process.

## (xv) Following are the list of proposed products:

Sr. No.	Name of Product	CAS No.		uction Capaci MT/Month)	ity
110.			Existing	Additional	Total
1	Bromine	7726-95-6	7		
2	Meta Bromo Nitro Benzene	585-79-5	5		
3	Para Nitro Benzyl Bromide	100-11-8	5		
4	Sodium Bromide	7647-15-6	5		57
5	Potasium Bromide	7758-02-3	5	]	
6	Ammonium Bromide	57-09-0	5		
7	Sulphuric Acid (70% to 80%)	7664-93-9	25	<b></b>	
Grou	up-1				
8	2 Amino 3,5 Dibromobenzaldehyde	50910-55-9			
9	2 Bromo 3 Chloro Propiophenone	31736-73-9			
10	2 Phenyl Propionic Acid	492-37-5			
11	2,4 Dichloro 5 Sulfomoyl Benzoic acid	2736-23-4		25	
12	4 Chloro Phenyl Hydrazine	1073-70-7		23	25
12	Hydrochloride				
13	4 Fluoro Phenyl Hydrazine	2924-15-4			
	Hydrochloride				
14	Benzyl Bromide	100-39-0			
15	m Chloro Nitro benzene	121-73-3			
Grou	ир-2				
16	2 Amino Phenyl phenyl Sulfide	1134-94-7			
17	2 Bromo Acetic Acid	18698-97-0			15
18	2-(tert-Butylamino)-1-(3-chlorophenyl)	31677-93-7			

	propan-1-one - Bupropion				
19	2,4 Difluoro Benzonitrile & Its Intermediates	3939-09-1		1.5	
20	3 Chloro Phenyl Piperazine	65369-76-8		15	
21	5 Carboxyethyl 2 Phenylthiophenyl Acetic Acid	83237-49-4			
22	Ethyl Bromo Acetate	105-36-2			
23	Acebrofylline & its intermediates	96989-76-3			
24	Ambroxol Hydrochloride & its intermediates	23828-92-4			
OR	Group-3				
25	Metanilic Acid	121-47-1			40
26	26 Sulfanilamide 63-74-1			40	40
	Total		57	40	97

The EAC noted that PP has started ambient air quality monitoring at 8 locations since March, 2017. EAC suggested to collect the data upto June, 2017.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

### A. Additional TOR

- i. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b) of the EIA notification, 2006.
- ii. ESR plan for 5 year @ 5 % of the project cost with the consultation of nearby villagers to be submitted.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7(i) III. Stage (3) (i) (b)of the EIA notification, 2006.

Proposed Expansion of Specialty Chemicals & Agrochemical Intermediates Manufacturing Plant of M/s Anupam Rasayan India Ltd. (UNIT- 4) Plot No. 907/3 & 907/4, Jhagadia Industrial Estate, Jhagadia, Dist: Bharuch, Gujarat by M/s Anupam Rasayan India Ltd. (UNIT- 4) – Terms of References – reg. [IA/GJ/IND2/64151/2017, J-11011/202/2017-IA.II(I)]

- (i) The project involves proposed Expansion of Specialty Chemicals & Agrochemical Intermediates Manufacturing Plant of M/s Anupam Rasayan India Ltd. (UNIT- 4) Plot No. 907/3 & 907/4, Jhagadia Industrial Estate, Jhagadia, Dist: Bharuch, Gujarat by M/s Anupam Rasayan India Ltd. (UNIT- 4).
- (ii) All Pesticide and synthetic organic chemicals industry are listed at S.N. 5(b) and 5(f) category respectively will be considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) SEIAA has issued EC earlier vide letter no. SEIAA/GUJ/EC/5(f)/318/2016; dated 10/05/2016 for 7500 MT/Month unit to M/s. ANUPAM RASAYAN INDIA LTD. (UNIT-

- 4).
- (iv) Proposed land area is 53997 m2. Industry will be developed Greenbelt in an area of 31 % i.e.16467 m<sup>2</sup> out of 53997 m<sup>2</sup> of area of the project.
- (v) The estimated project cost is Rs. 40 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 450 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 50 Lakhs per annum.
- (vi) Industry purposes to allocate Rs. 200 Lakhs @ 2.5 % towards Corporate Social Responsibility.
- (vii) It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada river is flowing at a distance a distance of 7 km.
- (viii) Total water requirement will be 310 m3/day of which fresh water requirement of 310 m3/day and will be met from GIDC Water Supply.
- (ix) Treated Effluent (74 KL/Day) will be sent to NCT New Pipeline for deep sea disposal.
- (x) Power requirement will be 2500 KVA and will be met from DGVCL.
- (xi) Unit will have 3 Nos. of boiler & 3 Nos. of Thermopack & 2 Nos. of Hot air generator & 3 Nos. of D. G. Set. Multi cyclone separator/bag filter, dust collector with a stack of height of 31 m & 11 m respectively will be installed for controlling the Particulates emissions.
- (xii) Two Stage scrubber will be used to control process emissions.
- (xiii) Details of Solid waste / Hazardous waste generation and its management:

C		***	Qua	ntity M'	T/Month	
Sr. No.	Waste Details	Waste Category	Existing	Additio nal	Total	Mode of Disposal
1.	ETP Sludge	34.3	15.83	0	15.83	Collection, Storage, Transportation and Disposal at Nearest TSDF
2.	Process waste Sludge Iron Sludge & Process Salts	26.1	1000	0	1000	Collection, Storage, Transportation and Disposal at Nearest TSDF or sell to Cement Industry
3.	Used Oil	5.1	50 Liter/M onth	0	50 Liter/Mont h	Collection, Storage, Transportation And Selling to authorized recyclers.
4.	Discarded liners/Bags Carboy Drums Unit in No./Month	33.3	1003 Nos/Mo nth	0	1003 Nos/Month	Collection, Storage, Transportation And Selling to authorized recyclers after decontamination.
5.	Salt from MEE	34.3	60	0	60	Collection, Storage, Transportation and Disposal at

						Nearest TSDF
6.	Distillation Residue	36.4	85.66	0	85.66	Collection,
0.	Distillation Residue	30.4	05.00		03.00	Storage,
						Transportation
						and sell to
						Cement Industry
						for Co-processing
						or Disposal at
						Common
						Incineration Site
7.	Fly Ash		80	0	80	Collection,
, ,						Storage,
						Transportation
						and sell to brick
						manufacturers or
						disposal in TSDF.
8.	Dilute Sulphuric		752.2	0	752.2	Sell to end user
	Acid		753.3	0	753.3	
9.	30 % HCl Solution		3375.0	0	3375.0	Sell to end user
10.	35 -40 % Nitrosyl	C1				Sell to end user
	Sulphuric Acid /		986.0	0	986.0	
	Sodium Nitrite		700.0		2010	
	Solution	7.0	267.0		277.0	~ 11 1
11.	POCl <sub>3</sub>	D2	265.0	0	255.0	Sell to end user
12.	Caustic Soda	C7	470.0		470.0	Sell to end user
	Solution (30% to		470.0	0	470.0	
13.	40%) Ammonium					Sell to end user
13.	Chloride		55.0	0	55.0	Sell to ella usel
14.	Ammonium	D2				Sell to end user
17.	Sulphate Salt		150.0	0	150.0	Self to ella user
15.	20-28 % HBr	C12		1092		Sell to end user
15.	Solution	012	0	0	10920	Self to end user
16.	Sodium Bromide				2.550	Sell to end user
	Salt		0	3570	3570	
18.		C1				Collection,
						Storage,
	Sodium Sulphate		0	6093	6093	Transportation
						and Disposal at
						Nearest TSDF
19.	8-10 % Sodium		0	600	600	Sell to end user
	Hypochlorite Soln			300	000	
20.	30 -40 % Dilute		0	20	20	Sell to end user
	Nitric Acid					
21.	Sulphur Dichloride		0	1090	1090	Sell to end user

## (xiv) Following are the list of existing and proposed products:

Sr. No.	Name of Products	CAS No.	Existing Capacit y (MT/Mo nth)	Addition al Capacity (MT/Mo nth)	Total capacity (MT/Mon th)
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1.1	1,4 Dioxane	123-91-1	1000	-				
1.2	2- Methyl 1,3 Dioxolane	497-26-7	1000	0	1000			
			L		-1			
2.0	CHLORO BENZENE COMPOUNDS							
2.1	Chloro Benzene (MCB)	108-90-7						
2.2	Para Di Chloro Benzene (PDCB)	106-46-7	2500					
2.3	Ortho Di Chloro Benzene ( ODCB)	95-50-1						
2.4	1- Amino 2,4,6 Trichloro Benzene/ 2,4,6 Tri Chloro Aniline	634-93-5	0	0	2500			
2.5	2,6 Di Chloro Benzoxazole	3621-82-7	0					
2.6	2,3,4,5,6 Penta Chloro Pyridine	2176-62-7	0					
2.7	3,7 Di Chloro 8- Methyl Quinoline	84086-96-	0					
3.0	CHLORO PHENOLCOMPOUNDS							
3.1	Para Chloro Phenol (PCP)	106-48-9						
3.2	Ortho Chloro Phenol (OCP)	95-57-8						
3.3	2,4 Di Chloro Phenol	120-83-2	500	0	500			
3.4	2,6 Di Chloro Phenol	87-65-0		0	500			
3.5	4- Bromo 2,5 Di Chloro Phenol	1940-42-7	0					
		<u>.                                    </u>			1			
4.0	Meta Di Chloro Benzene (MDCB)	541-73-1	400	0	400			
					1			
5.0	NITRO COMPOUNDS		1					
<b>5.0</b> 5.1	NITRO COMPOUNDS  Nitro Benzene	98-95-3	800					
	Nitro Benzene Meta Di Nitro Benzene ( MDNB)	99-65-0	800					
5.1	Nitro Benzene	99-65-0 29091-09- 6	800	0	800			
5.1 5.2	Nitro Benzene  Meta Di Nitro Benzene ( MDNB)  2,4 Di Chloro 3,5 Dinitro	99-65-0		0	800			
<ul><li>5.1</li><li>5.2</li><li>5.3</li></ul>	Nitro Benzene  Meta Di Nitro Benzene ( MDNB)  2,4 Di Chloro 3,5 Dinitro Benzotrifluoride	99-65-0 29091-09- 6 17700-09-	0	0	800			
<ul><li>5.1</li><li>5.2</li><li>5.3</li><li>5.4</li></ul>	Nitro Benzene  Meta Di Nitro Benzene ( MDNB)  2,4 Di Chloro 3,5 Dinitro Benzotrifluoride  2,3,4 Tri Chloro Nitro Benzene	99-65-0 29091-09- 6 17700-09- 3	0	0	800			
5.1 5.2 5.3 5.4 5.5	Nitro Benzene  Meta Di Nitro Benzene ( MDNB)  2,4 Di Chloro 3,5 Dinitro Benzotrifluoride  2,3,4 Tri Chloro Nitro Benzene  4- Nitro Ortho Xylene	99-65-0 29091-09- 6 17700-09- 3 99-51-4 10043-52-	0 0					
5.1 5.2 5.3 5.4 5.5 <b>6.0</b>	Nitro Benzene  Meta Di Nitro Benzene ( MDNB)  2,4 Di Chloro 3,5 Dinitro Benzotrifluoride  2,3,4 Tri Chloro Nitro Benzene  4- Nitro Ortho Xylene  Calcium Chloride  AMINO BENZOIC ACID / ESTERS  3-Amino-4-Chloro Benzoic Acid Methyl Ester	99-65-0 29091-09- 6 17700-09- 3 99-51-4 10043-52- 4	0 0					
5.1 5.2 5.3 5.4 5.5 <b>6.0</b> <b>7.0</b>	Nitro Benzene  Meta Di Nitro Benzene ( MDNB)  2,4 Di Chloro 3,5 Dinitro Benzotrifluoride  2,3,4 Tri Chloro Nitro Benzene  4- Nitro Ortho Xylene  Calcium Chloride  AMINO BENZOIC ACID / ESTERS  3-Amino-4-Chloro Benzoic Acid Methyl Ester  3-Amino 4-Methyl Benzoic Acid Isopropyl Ester (AMBI)	99-65-0 29091-09- 6 17700-09- 3 99-51-4 10043-52- 4 40872-87- 5 21447-47- 2	0 0					
5.1 5.2 5.3 5.4 5.5 <b>6.0</b> 7.1	Nitro Benzene  Meta Di Nitro Benzene ( MDNB)  2,4 Di Chloro 3,5 Dinitro Benzotrifluoride  2,3,4 Tri Chloro Nitro Benzene  4- Nitro Ortho Xylene  Calcium Chloride  AMINO BENZOIC ACID / ESTERS  3-Amino-4-Chloro Benzoic Acid Methyl Ester  3-Amino 4-Methyl Benzoic Acid Isopropyl Ester (AMBI)  3-Amino 4-Methyl Benzoic Acid(2' - Chloro Ethyl Ester) (AMBC)	99-65-0 29091-09- 6 17700-09- 3 99-51-4 10043-52- 4 40872-87- 5 21447-47- 2 2458-12-0	0 0					
5.1 5.2 5.3 5.4 5.5 <b>6.0</b> 7.1 7.2	Nitro Benzene  Meta Di Nitro Benzene ( MDNB)  2,4 Di Chloro 3,5 Dinitro Benzotrifluoride  2,3,4 Tri Chloro Nitro Benzene  4- Nitro Ortho Xylene  Calcium Chloride  AMINO BENZOIC ACID / ESTERS  3-Amino-4-Chloro Benzoic Acid Methyl Ester  3-Amino 4-Methyl Benzoic Acid Isopropyl Ester (AMBI)  3-Amino 4-Methyl Benzoic Acid(2' -	99-65-0 29091-09- 6 17700-09- 3 99-51-4 10043-52- 4 40872-87- 5 21447-47- 2	0 0	0	1800			

	Total		7500	0	7500
					<b>T</b>
7.13	3,4,5 Tri Methoxy Benzaldehyde	86-81-7	0		
7.12	5- Methyl 2,3 Pyridine Di Carboxyllic Acid	53636-65-	0		
7.11	1- Methyl 3,4,5 Tri Methoxy Benzene / 3,4,5 Tri Methoxy Toluene	6443-69-2	0		
7.10	3,4,5 Tri Methoxy Benzoic Acid	118-41-2	0		
7.9	3,5 Di Amino 4- Chloro Benzoic Acid Is Butyl Ester	32961-44- 7			
7.8	4- Methyl Benzoic Acid Methyl Ester	99-75-2			
7.7	Benzene Sulphonic Acid 2-Methyl-5- Nitrophenyl Ester	85896-03- 5			
7.6	2-Cyano-3,4,5,6-Tetrachloro Benzoic Acid Methyl Ester	10276-78- 2			

## **List of By-Products:**

Sr. No.	Name of By-Products	CAS No.	Existing Capacity (MT/Mont h)	Additiona l Capacity (MT/Mon th)	Total Capacity (MT/Mont h)
1.	Dilute Sulphuric Acid	7664-93-9	753.3	0.0	753.3
2.	30 % HCl Solution	7647-01-0	3375.0	0.0	3375.0
3.	35 -40 % Nitrosyl Sulphuric Acid / Sodium Nitrite Solution	7780-78-7	986.0	0.0	986.0
4.	POCl <sub>3</sub>	10025-87-3	265.0	0.0	255.0
5.	Caustic Soda Solution (30% to 40%)	1310-73-2	470.0	0.0	470.0
6.	Ammonium Chloride	12125-02-9	55.0	0.0	55.0
7.	Ammonium Sulphate Salt	7783-20-2	150.0	0.0	150.0
8.	20-28 % HBr Solution	10035-10-6	0.0	10920.0	10920.0
9.	Sodium Bromide Salt	7647-15-6	0.0	3570.0	3570.0
10.	Sodium Sulphate	7647-15-6	0.0	6093.0	6093.0
11.	8-10 % Sodium Hypochlorite Solution	7681-52-9	00	600.0	600.0
12	2- Methyl 1,3 Dioxolane	497-26-7	0.0	25.0	25.0
13	MnSO <sub>4</sub> Salt	7785-87-7	0.0	650.0	650.0

14.	30 -40 % Dilute Nitric Acid	7697-37-2	0.0	20.0	20.0
15.	Sulphur Dichloride	105454-99-0	0.0	1090.0	1090.0
Total			6054.3	11209.0	17253.3

During presentation PP had informed that they want to add some products within existing quantity. The EAC noted that PP has started ambient air quality monitoring at 8 locations since March, 2017. EAC is agreed with it.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- i. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b) of the EIA notification, 2006.
- ii. ESR plan for 5 year @ 5 % of the project cost with the consultation of nearby villagers to be submitted.
- iii. ZLD plan to be submitted.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7(i) III. Stage (3) (i) (b)of the EIA notification, 2006.

## 23.6.9 Proposed Expansion of Specialty Organic Chemicals in Existing Plant at Plot No. A-2/4002, GIDC Industrial Estate - Ankleshwar, Tal: Ankleshwar, Dist: Bharuch, Gujarat of M/s Jay Overseas - Terms of References - reg. [IA/GJ/IND2/64158/2017, J-11011/204/2017-IA.II(I)]

- (i) The project involves proposed Expansion of Specialty Organic Chemicals in Existing Plant at Plot No. A-2/4002, GIDC Industrial Estate Ankleshwar, Tal: Ankleshwar, Dist: Bharuch, Gujarat of M/s Jay Overseas.
- (ii) All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board hence project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) Existing plant is in operation since 2004.
- (iv) Proposed land area is 1850 m2. Industry will be developed Greenbelt in an area of 33 % i.e.609 m² out of 1850 m² of area of the project.
- (v) The estimated project cost is Rs. 5 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 50 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 5 Lakhs per annum.
- (vi) Industry purposes to allocate Rs. 12.5 Lakhs @ 2.5 % towards Corporate Social Responsibility.
- (vii) It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. waterbody sea is flowing at a distance a distance of 5 km.

- (viii) Ambient air quality monitoring is carring out at 8 locations during March-2017 to May-2017.
- (ix) Total water requirement will be 11.8 m3/day of which fresh water requirement of 11.8 m3/day and will be met from GIDC Water Supply.
- (x) Treated Effluent (4.5 KL/Day) will be sent to CETP, M/s. ETL-Ankleshwar for further treatment.
- (xi) Power requirement will be 200 KVA and will be met from DGVCL.
- (xii) Unit will have 2 Nos. of boiler & 1 Nos. of THF & 1 Nos. of D. G. Set. Multi cyclone separator/bag filter, with a stack of height of 30 m & 12 m respectively will be installed for controlling the Particulates emissions.
- (xiii) Water scrubber and Water & Caustic Scrubbe will be used to control process emissions.
- (xiv) Details of Solid waste/Hazardous waste generation and its management are as follows:

Type of waste & Category	Source	Existing	Addition al	Total	Disposal Method
ETP Sludge (Cat. 35.3)	ЕТР	5 MT/Year	15 MT/Year	20 MT/Year	Collection, Storage, Transportation and disposal at TSDF
Discarded Drums /Containers/ Discarded Liner/Bag (Cat. 33.1)	Process	25 MT/Year	25 MT/Year	50 MT/Year	Collection, Storage, Transportation, Decontamination & Disposal by selling to registered recycler
Distillation Residue (Cat. 28.1)	Distillation		20 MT/Year	20 MT/Year	Collection, Storage, Transportation and dispose to common incineration Site or co- processing in cement industries
Spent Catalyst (Cat. 28.2)	Process		2 MT/Year	2 MT/Year	Collection, Storage, Transportation and send to recycler
Spent Carbon (Cat. 28.3)	Process		2 MT/Year	2 MT/Year	Collection, Storage, Transportation and dispose to common incineration Site or co- processing in cement industries
Used Oil (Cat. 5.1)	Process	10 Liters/Yea r	30 Liters/Ye ar	40 Liters/Yea r	Collection, Storage, Transportation, Disposal by selling to registered recycler or re-use as lubricant
Process Waste (Cat-26.1)	Process		12 MT/ Year	12 MT/ Year	Collection, Storage, Transportation and Disposal at TSDF site
Spent Solvent (Cat-28.4)	Process	10 Liters/Yea r	39.99 MT/ Year	40 MT/ Year	Collection, Storage, distillation/ Reused within industrial unit or send for job work.
MnO2 Salt	Process		72 MT/ Year	72 MT/ Year	Collection, Storage and sell to end user

Poly				
Aluminium	Process	 240 MT/		Collection, Storage and
Chloride	1100033	Year	Year	sell to end user
Solution				

## (xv) Following are the list of proposed products:

Sr. No	Name of Products		Production Capacity (Mt/Month)		
•		Existing	Additional	Total	
1	Tri Ethyl Benzyl Ammonium Chloride				56-37-1
2	Tetra Butyl Ammonium Bromide	10		10	1643-19-2
3	Glycine (1-Amino Acetic Acid)				56-40-6
4	Ammonia (Aqueous)	2.38		2.38	7664-41-7
A) P	hase Transfer Catalysts				
5	Benzyl Tri Ethyl Ammonium Chloride				56-37-1
6	Benzyl Tri Butyl Ammonium Chloride				23616-79-7
7	Cetyl Dimethyl Benzyl Ammonium				89004-36-4
	Chloride				
8	Phenyl Tri-Methyl Ammonium				138-24-9
	Chloride				
9	Benzyl Tri Phenyl Phosphonium				1100-88-5
	Chloride				
10	Methyl Tri Phenyl Phosphonium				4009-98-7
	Chloride		60	60	
11	Butyl Tri Phenyl Phosphonium				13371-17-0
	Chloride				
12	Tetra Butyl Ammonium Bromide				1643-19-2
13	Ethyl Tri Phenyl Phosphonium				1530-32-1
	Bromide				
14	Butyl Tri Phenyl Phosphonium				1779-51-7
	Bromide				
15	Methyl Tri-Butyl Ammonium Chloride 75%				56375-79-2
16	Methyl Tri-Octyl Ammonium Chloride 85/90/95%				5137-55-3
17	Cetyl Tri-Methyl Ammonium Chloride 30%				112-02-7
18	Tri Methyl Benzyl Ammonium Chloride 60%				56-93-9
19	Cetyl Pyridinium Chloride				6004-24-6
20	Lauryl Pyridinium Chloride				104-74-5
	peciality Intermediates	ı	I.	1	-
21	N-Butyl Bromide		25	25	109-65-9
22	N-Propyl Bromide		25	25	106-94-5
C) P	harma Intermediates		1	1	
23	Tri-Methyl Pyvuric Acid		3	3	815-17-8
24	4-n-Bromo butyl phthalimide		3	3	1515-72-6
25	Bithionol Sulfoxide		5	5	97-18-7
26	4-Amino 1,2,4-Triazole			10	584-13-4
27	Glycine (1-Amino Acetic Acid)	<b></b>	10	10	56-40-6
	Total	12.38	106	118.38	

EAC suggested to use natural gas as boiler fuel. PP agreed. The EAC noted that PP has started ambient air quality monitoring at 8 locations since March, 2017. EAC is agreed with it.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- i. Lay out Plan earmarking space for 5 m wide green belt around periphery of the plant to be submitted.
- ii. Public hearing is exempted under the provisions as per para 7(i) III. Stage (3) (i) (b) of the EIA notification, 2006.
- iii. ESR plan for 5 year @ 5 % of the project cost in consultation of nearby villagers to be submitted.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7(i) III. Stage (3) (i) (b)of the EIA notification, 2006.

Proposed establishment for manufacture of Petroleum products and petrochemical based product at Etcherla Mandal, Srikakulam District, Andhra Pradesh by M/s Deepak Fertilizers & Petrochemicals Corp Ltd. – Terms of References – reg. [IA/AP/IND2/64120/2017, J-11011/199/2017-IA.II(I)]

- (i) The project involves proposed establishment for manufacture of Petroleum products and petrochemical based product at Etcherla Mandal, Srikakulam District, Andhra Pradesh by M/s Deepak Fertilizers & Petrochemicals Corp Ltd.
- (ii) All Petrochemical based processing (processes other than cracking & reformation and not covered under the complexes) located outside the notified industrial area/estate are listed at S.N. 5(f) under category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) Total land area of the plot is 393576.928 m<sup>2</sup>. Industry will develop Greenbelt as per MoEF guidelines.
- (iv) The estimated project cost is Rs 500 crores.
- (v) During construction, approximately 300 persons will be hired and later there will be indirect labour also. About 100 nos. of manpower is envisaged for the project which will include supervision, panel operations and non-supervisory level; same will be recruited based on skill requirement from the surrounding/local areas.
- (vi) It is reported that as per Form- 1 no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Dharmavaram Forest is situated at a distance of 5.7 km in South direction. Nagavali River is flowing at a distance of 2 km in NE direction.
- (vii) The fresh water for the project is  $\sim 3,500 \text{ m}3/\text{day}$  for the process and utilities purpose. The

- water will be sourced from the in-filtration wells in Nagavali River at Tepparevu village by obtaining from GWD/ Irrigation department of Andhra Pradesh.
- (viii) Waste water generation will be 1230 m3/day, which will be treated through ETP and recycled after treatment. There will not be any discharge outside. Unit will be Zero Liquid Discharge Unit.
- (ix) About 120 TPH medium pressure steam is expected to be required for the proposed establishment project. This will be made available from the proposed two Coal / Furnace oil fired boilers of 2X60 TPH capacity. Cyclone separator / Bag Filter will be provided to the boilers.
- (x) Total power requirement of 3.5 MW for the IPA plant will be sourced from APEDCL.
- (xi) Proposed Products and their Capacities

Sr. No	Product / By product	Proposed capacity
	Product	
1	Iso Propyl Alcohol (IPA)	100,000 TPA
	By Products	
1	Di iso propyl ether (DIPE)	7,500 TPA
2	Propane	35,000 TPA
3	Lighter ends	900 TPA
4	Heavier ends	1,200 TPA

During presentation the committee noted that proposed site is full of trees. The EAC felt that proposed location is not suitable for establishment as proposed. Therefore, to assess the existing scenario, it was recommended to undertake a site visit by a sub- committee of EAC.

## Adhesives (Chemical) Manufacturing Unit for Captive Consumption at Village Bhadreshwar, Tehsil Mundra District Kutch, Gujarat by M/s Hindustan Adhesives Limited – Terms of References – reg. [IA/GJ/IND2/64169/2017, J-11011/205/2017-IA.II(I)]

- (i) The project involves adhesives (Chemical) Manufacturing Unit for Captive Consumption at Village Bhadreshwar, Tehsil Mundra District Kutch, Gujarat by M/s Hindustan Adhesives Limited.
- (ii) All synthetic organic chemicals industry located outside from notified industrial area/estate are listed at S.N. 5(f) under category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) Total land area is 2000 m<sup>2</sup>, of which green belt will be developed in 30 % area (600 m<sup>2</sup>). The estimated project cost is Rs 2 crore. Employment generation will be 100 persons.
- (iv) It is reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife corridors etc. lies within 10 km distance. Sakra Nadi is flowing at a distance of 2.18km in NW direction. Chhela Nadi is flowing at a distance of 3.1km in SE direction, Mitti Nadi is flowing at a distance of 4.44km in SW direction. Lerakh Nadi is flowing at a distance of 7.96km in NE direction. High Tide Line is situated at a distance of 3.11km in SE direction. Bhadreshwar Reserve Forest is situated at a distance of 7.71 in SW direction.
- (v) Total water requirement is 155 m3/day of which fresh water requirement of 115 m3/day and will be met from Tanker Supply sourced of nearby Water Works of Gujarat Water Supply and Narmada Supply.
- (vi) Trade effluent of 2 m3/day Will be treated through MEE along with 40 m3/day of RO

- Reject and WTP Wastewater and treated water would be reused in Cooling Tower of the plant and the unit shall be a ZLD Unit.
- (vii) Power requirement after expansion will be Licensed 500 HP and Connected- 300 HP.
- (viii) Proposed Units shall have Boiler 1TPH for Phase I and Phase II and another Boiler of 1TPH would be added at time of implementation of Phase III which would be used for steam generation; using Briquettes (Agro Based Fuel). The Boiler shall have multi cyclone and wet scrubbing system to control flue gas emissions.
- (ix) There are no process emissions envisaged from the plant however the storage tanks and areas shall be equipped to maintain odour/TVOC levels.
- (x) Details of solid waste/Hazardous waste generation and its management are as follows:

Waste Type	In Phase I	In Phase II	In Phase III	Remarks on Waste	Disposal Method
Municipal Waste (Kg/Day)	18	21	23	Domestic Waste	Municipal Solid Waste Management Site as approved by GPCB
Industrial Waste (non-hazardous) (Kg/Day)	100	110	125	Boiler Ash - 25Kg/ Day and 100Kg/Day from MEE Residue/ Cyclone Dust/ Scrubber Ash after Phase III Implementation;	Boiler Ash shall be given to Brick Manufacturers/ Municipal Landfill site. Sludge/ reject of MEE/ Scrubber shall be disposed at TSDF site as approved by GPCB
Industrial Waste (Hazardous) (Kg/Day)	60	75	100	Used Oil; Process Waste; Chemical Container Waste etc.;	Approved TSDF Facility of GPCB
E-waste (Kg/Month)	12	14	15	Motors, Pumps, Electronic and Electrical Items etc.;	Authorised E- waste Recycler/ Dismantler as per E-waste Rules, 2016
Plastic Waste (Kg/Day)	20	22	25	Waste Plastic, Reject packaging Items, Misc. Office Plastic Waste items etc.;	Authorised Plastic Waste Recycler as per Plastic Waste Management Rules, 2016

- (xi) Proposed product is Adhesives (Emulsion Polymer) (water based emulsion of Butyl acrylate);
  - Phase I:- 1000 TPM or 12000 TPA;
  - Phase II:- 2000 TPM or 24000 TPA;
  - Phase III: 3000 TPM or 36000 TPA

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- Public Consultation shall be done as per provisions of the EIA Notification, 2006. i. ii. Submit ZLD plan. iii. Layout Plan for 10 m wide green belt around periphery of the plant to be submitted. It was recommended that 'TOR' with Public consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Proposed expansion of Synthetic organic chemicals in existing plant at Plot No. 801, 801/23, 806 11011/118/2017-IA.II(I)]
- 23.6.12 & 807 Phase-III, GIDC Estate, Vapi, and Dist.: Valsad, Gujarat by M/s Aarti Industries Limited (Organic Division) - Terms of References - reg. [IA/GJ/IND2/63006/2017, J-

PP did not attend the meeting. the EAC decided to defer the proposal.

23.6.13 Proposed Bulk Drugs and Bulk Drug Intermediates Manufacturing Plant in Existing Premises of M/s Swaraj Life Sciences Plot No. 906/18, GIDC Industrial Estate, Panoli, Tal: Ankleshwar, Dist: Bharuch, Gujarat by M/s Swaraj Life Sciences – Terms of References – reg. [IA/GJ/IND2/62315/2017, J-11011/89/2017-IA.II(I)]

- (i) The project involves proposed Bulk Drugs And Bulk Drug Intermediates Manufacturing Plant in Existing Premises of M/s Swaraj Life Sciences Plot No. 906/18, GIDC Industrial Estate, Panoli, Tal: Ankleshwar, Dist: Bharuch, Gujarat by M/s Swaraj Life Sciences.
- All synthetic organic chemicals industry located in a notified industrial area/estate are listed (xvi) at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board is situated within 5 km from the project site, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- Proposed land area is 1315 m2. Industry will be developed Greenbelt in an area of 11 % (ii) i.e. 150 m<sup>2</sup> out of 1315 m<sup>2</sup> of area of the project.
- (iii) Existing unit is
- (iv) The estimated project cost is Rs. 2.5 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 40 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 3 Lakhs per annum.
- Industry purposes to allocate Rs. 6.25 Lakhs @ 2.5 % towards Corporate Social (v) Responsibility.
- (vi) It is reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.
- Ambient air quality monitoring is carring out at 8 locations during March-2017 to May-(vii) 2017.
- (viii) Total water requirement will be 24.0 m3/day of which fresh water requirement of 24.0 m3/day and will be met from GIDC Water Supply.
- Treated Effluent (5.67 KL/Day) will be sent to CETP, M/s. PETL-Panoli for further (ix)
- Power requirement will be 250 KVA and will be met from DGVCL. (x)
- Unit will have 2 Nos. of boiler & 1 Nos. of THF & 1 Nos. of D. G. Set. Multi cyclone (xi)

separator/bag filter, with a stack of height of 30 m & 11 m respectively will be installed for controlling the Particulates emissions.

- (xii) Two stage Scrubber will be used to control process emissions.
- (xiii) Details of Solid waste/Hazardous waste generation and its management is as follows:

Type of waste &	Source	Existing	Additional	Total	Disposal Method
Category	ETD			2	G 11 4' G4
ETP Sludge	ETP			2 MT/Mant	Collection, Storage,
(Cat. 35.3)				MT/Mont	Transportation and
			2	h	dispose to TSDF of
			MT/Month		M/s. PSWML, Panoli
					or M/s. SEPPL,
D' 1.1D		100	7.0	1.70	Bharuch
Discarded Drums	Process	100	50	150	Collection, Storage,
/Containers		Nos/Mont	Nos/Month	Nos/Mont	Transportation,
(Cat. 33.1)		h		h	Decontamination &
Discarded	Process	500	100	600	Disposal by selling to
Liner/Bag (Cat.		Nos/Mont	Nos/Month	Nos/Mont	registered recycler
33.1)		h		h	
Distillation Residue	Distillation		1	1	Collection, Storage
(Cat. 28.1)			MT/Month	MT/Mont	Transportation and
				h	dispose to common
					incineration Site of
					co-processing in
					cement industries
Piperazine ML	Process		20	20	Collection, Storage
			MT/Month	MT/Mont	and recovered in
				h	premise
Sulphuric Acid	Process		7	7	Collection, Storage
•			MT/Month	MT/Mont	Transportation and
				h	sell to end user
Spent Catalyst (Cat.	Process		0.5	0.5	Collection, Storage
28.2)			MT/Month	MT/Mont	Transportation and
,				h	send to recycler
Spent Carbon (Cat.	Process		0.5	0.5	Collection, Storage
28.3)			MT/Month	MT/Mont	Transportation and
20.0)				h	dispose to common
					incineration Site of
					co-processing in
					cement industries
Used Oil (Cat. 5.1)	Process	20	30	50	Collection, Storage
Osca OII (Cat. 3.1)	1 100088	Liters/Ye	Liters/Year	Liters/Yea	Transportation,
			Little 18/16af		Disposal by selling to
		ar		r	
					registered recycler or
					re-use as lubricant

Process Waste	Process	3	 3	Collection, Storage,
(Cat-26.1)		MT/Mont	MT/Mont	Transportation and
		h	h	Disposal at TSDF site
				of M/s. PSWML,
				Panoli or M/s.
				SEPPL, Bharuch.
Caustic Lye	Process	40	 40	Collection, Storage,
(Hydride) (Cat-		MT/Mont	MT/Mont	Transportation and
B14)		h	h	sell to end user

## (xiv) Following are the list of proposed products:

SR.	PRODUCTS	Production Capacity (MT/MON)		
NO		Existing	Proposed	Total
			Expansion	
1	Sodium Thiosulphate	60		60
2	Soidum Sulfite			
3	Sodium Bisulfite			
4	Potassium Chloride			
5	Sodium Acetate			
6	Recovered Piperazine Anhydrous	10		10
7	Lamotrigine & Intermediates		5	5
8	Citrizine Dihydrochloride &			
	Intermediates			
9	Levocitrizine & Intermediates			
10	Clopidogrel Bisulphate &			
	Intermediates			
11	Glimepiride & Intermediates			
12	Sodium Valporate &			
	Intermediates			
13	Riboflavine B2 Phosphate &			
	Intermediates			
14	Fenofibarte & Intermediates			
15	Diclofenac Sodium &			
	Intermediates			
16	Aceclofenac & Intermediates			
17	Dexametharan & Intermediates			
18	Tramadol & Intermediates			
19	Atorvastatin & Intermediates			
20	Pregabaline & Intermediates			
	Total	70	5	75

The EAC suggested to remove the products listed at s. no. 15 and 16 i.e., Diclofenac Sodium & Intermediates and Aceclofenac & Intermediates from the product list. PP agreed. The EAC also suggested to use natural gas as a fuel. PP agreed. The EAC noted that PP has started ambient air quality monitoring at 8 locations since March, 2017. EAC is agreed with it.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- i. Layout Plan for 5 m wide green belt around periphery of the plant to be submitted.
- ii. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b) of the EIA notification, 2006.
- iii. ESR plan for 5 year @ 5 % of the project cost with the consultation of nearby villagers to be submitted.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b)of the EIA notification, 2006.

Bulk Drug & Intermediates manufacturing unit at Sy No: Parts of 79, 80 & 94, Gunded Village, Balanagar Mandal, Mahabubnagar, District, Telangana State by M/s Felix Ventures LLP – Terms of References - reg. [IA/TG/IND2/64171/2017, J-11011/206/2017-IA.II(I)]

- (i) The project involves Bulk Drug & Intermediates manufacturing unit at Sy No: Parts of 79, 80 & 94, Gunded Village, BalanagarMandal, Mahabubnagar District, Telangana State by M/s Felix Ventures LLP.
- (ii) All Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates) located outside the notified industrial area/ estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) It is Green field project. Proposed land area is 5.70 Acres/23067.1 Sq.m,
- (iv) Industry will be developed Greenbelt in an area of 33% i.e 2.73 Acres out of 5.70 Acres of area of the project.
- (v) The estimated proposed project cost is Rs. 15.0 Crores.
- (vi) Total Employment will be 50 persons as direct & 50 persons as indirect. Industry proposed to allocate Rs. 75 Lakhs for 5 years @ 5% of Project cost towards Corporate Social Responsibility.
- (vii) It is reported that no national parks, wildlife sanctuaries Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10km distance. Suraram Nala is flowing at a distance of 1.42 kms in NNE direction.
- (viii) The total water requirement is 126 m<sup>3</sup>/day of which fresh water requirement of around 77 m<sup>3</sup>/day and will be met from ground water sources.
- (ix) Generated effluent of 63.3 m<sup>3</sup>/day will be treated through stripper followed by MEE/ATFD, Biological Treatment Plant followed by RO plant will be based on Zero Liquid Discharge System.
- (x) Power requirement for proposed project will be 750 KVA and will be met from TSSPDCL. DG sets of 2x250KVA capacity; Stacks (height 10 mts) will be used as standby during

- power failures.
- (xi) 5.0 TPH coal fired/Fuel Briquettes boiler is proposed for the new unit with a stack of height of 32 mtr, Multi cyclone separator/ bag filter will be installed for controlling the particulate emissions (within statutory limit of 115 mg/Nm³).
- (xii) Carbon dioxide will be dispersed into the atmosphere. Sulphur dioxide will be scrubbed by using Caustic Lye Solution. Hydrogen gas will be diffused by using Nitrogen through Flame arrestor. Hydrogen chloride and Ammonia will be scrubbed by using Chilled water media. Oxygen gas dispersed into the atmosphere. Hydrogen Bromide will be scrubbed by using C.S. Lye Solution. Chloro Methane will be scrubbed by using Caustic Lye Solution.
- (xiii) Process Organic waste, Spent Carbon and Solvent Distillation Residue will be sent to Cement Industries. Inorganic Waste, MEE Salts and ETP Sludge will be sent to TSDF. Used Oils will be sent to SPCB authorized agencies for Reprocessing/Recycling. Container liners will be sent to outside agencies. Used Lead Acid Batteries will be send back to suppliers for buyback of New Batteries. Ash from boiler will be sent to Brick Manufacturers.
- (xiv) Following are the list of existing and proposed products

S. No.	Name of the Product	Quantity in MT/Month
1	Carvedilol	6
2	Ciprofloxacin Hydrochloride	10
3	Citalopram Hydrobromide	5
4	Emtricitabine	6
5	Fexofenadine Hydrochloride	6
6	Fluconazole	10
7	Lamivudine	10
8	Lansoprazole	6
9	Levocetirizine Di hydrochloride	3
10	Loratidine	10
11	Losartan potassium	10
12	Nevirapine	10
13	Omeprazole	10
14	Pantoprazole Sodium	10
15	Pregabalin	4
16	Sertraline Hydrochloride	5
17	Tramodol Hydrochloride	10
18	Zidovudine	10
	Total (Worst combination of any 10	100
	products at any given point of time)	

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

## **B.** Additional TOR

- i. Public Consultation shall be done as per provisions of the EIA Notification, 2006.
- ii. Layout Plan for 10 m wide green belt around periphery of the plant to be submitted.
- iii. Alternate site analysis to be done.

It was recommended that 'TOR' with Public consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.

## 5<sup>th</sup>May 2017 (Day-3)

### 23.7 Terms of Reference (TOR)

23.7.1 Proposed Bulk Drug & its Intermediates Unit at Plot No. 3046 A & B, Phase–III, GIDC, Panoli, Dist: Bharuch (Gujarat) by M/s Mahrshee Laboratories Pvt. Ltd. (UNIT-II) – Terms of References – reg. [IA/GJ/IND2/63398/2017, J-11011/146/2017-IA.II(I)]

- (i) The project involves proposed Bulk Drug & its Intermediates Unit at Plot No. 3046 A & B, Phase–III, GIDC, Panoli, Dist: Bharuch (Gujarat) by M/s Mahrshee Laboratories Pvt. Ltd. (UNIT-II).
- (ii) All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board is situated within 5 km from the project site, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) Proposed land area is 1500 m<sup>2</sup>. Industry will be developed Greenbelt in an area of 10 % i.e. 150 m<sup>2</sup> out of 1500 m<sup>2</sup> of area of the project.
- (iv) The estimated project cost is Rs. 500 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 25 Lakhs and the recurring cost (operation & maintenance) is about Rs. 2 Lakhs per annum.
- (v) It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. lies within 10 km distance.
- (vi) Ambient air quality monitoring is going on at 8 locations during March to May 2017.
- (vii) Total water requirement will be 15.5 KL/Day of which fresh water requirement of 15.5 KL/Day and will be met from GIDC Water Supply.
- (viii) Treated Effluent 11.15 KL/Day. The neutralized low COD effluent after primary treatment (8.68 KL/Day) will be sent to the CETP of M/s PETL, Panoli for the further treatment and final disposal. The neutralized high COD effluent after primary treatment (1.67 KL/Day) will be sent to the Common Spray Dryer of M/s PETL, Panoli for further treatment and final disposal. Domestic effluent (0.8 KL/Day) will be sent to septic tank & soak pit.
- (ix) Power requirement will be 125 HP and will be met from DGVCL.
- (x) Unit will have Boiler, Process Vents (2 Nos.) & DG Set (1 No.). Adequate air pollution control equipments i.e. Stack Height shall be provided & Two stage Scrubbers shall be installed to prevent air pollution. with a stack of height of 15 m & 8 m respectively will be installed for controlling the Particulates emissions.
- (xi) Scrubber will be used to control process emissions.
- (xii) Details of Solid waste/Hazardous waste generation and its management are as follows:

Sr.	Type of Waste	Category	Proposed	Mode of Treatment &
No			Generation	Disposal
1.	ETP Sludge	35.3	0.8 MT/Month	Collection, Storage,
				Transportation & Sent to
				TSDF site of M/s. PSWML,
				Panoli or M/s. BEIL,
				Ankleshwar
2.	Used Oil	5.1	0.1 Lit/Month	Collection, Storage,
				Transportation & Sale to
				registered re-processor or used
				for lubrication within premises

3.	Spent Carbon	28.3	0.8 MT/Month	Collection, Storage,
				Transportation & co-
				processing in cement
				industries or Send to M/s.
				BEIL, Ankleshwar for
				incineration
4.	Discarded	33.1	30 Nos/Month	Collection, Storage,
	Containers			Transportation,
				Decontamination & given to
				registered vendors
5.	Discarded Liners	33.1	50 Nos/Month	Collection, Storage,
				Transportation,
				Decontamination & given to
				registered vendors
6.	Distillation	36.1	2.4 MT/Month	Collection, Storage,
	Residue			Transportation & Sent to
				Common Incineration of M/s.
				BEIL, Ankleshwar or given
				for Co-Processing in Cement
				Industries
7.	Aluminium	-	140 MT/Month	Collection, Storage & Sold to
	Chloride		-	re-processors or end users
8.	Sodium	-	0.5 MT/Month	1 -
	Carbonate			
9.	HBr Soln.	-	45 MT/Month	1
10.	Benzoic Acid	-	17 MT/Month	
11.	Sodium Bromide	_	15 MT/Month	-
11.	South Bronnie			
12.	Sodium Sulfite	-	44 MT/Month	
13.	Aluminium	-	3 MT/Month	1
	Hydroxide			
	,		<u> </u>	

## (xiii) Following are the list of proposed products:

Sr. No.	Name of Product	Production Capacity (MT/Month)	CAS Nos.
1	α-Phenyl-2-Piperidyl Acetamide	<u>\</u> 15	19395-39-2
2	(4-tert-butylcyclohexyl) Acetic Acid		105906-07-8
3	Tranexamic Acid		1197-18-8
4	Masalamine		89-57-6
5	5-Chloro-1-(4-Piperidinyl)-2- Benzimidazolidinone		53786-28-0
6	Phenyleffrine HCl		61-76-7
7	Salbutemol Sulphate		51022-70-9
8	Flavoxate HCl and its Intermediate		3468-01-7
9	Febendazole		43210-67-9
10	Ibuprofen		15687-27-1
	Total	15	

The EAC noted that PP has started ambient air quality monitoring at 8 locations since March,

2017. EAC is agreed with it.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- i. Layout Plan earmarking space for 5 m wide green belt around periphery of the plant to be submitted.
- ii. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b) of the EIA notification, 2006.
- iii. ESR plan for 5 year @ 2.5 % of the project cost with the consultation of nearby villagers to be submitted.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b)of the EIA notification, 2006.

Proposed Bulk Drug & its Intermediates Unit at Plot No. 3352 to 3355, Phase – III, GIDC, Panoli, Dist: Bharuch (Gujarat) by M/s Maharshee Remedies Pvt. Ltd. [IA/GJ/IND2/63397/2017, J-11011/145/2017-IA.II(I)]

The project proponent informed following:-

- (i) The project involves proposed Bulk Drug & its Intermediates Unit at Plot No. 3352 to 3355, Phase III, GIDC, Panoli, Dist: Bharuch (Gujarat) by M/s Maharshee Remedies Pvt. Ltd.
- (ii) All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board is situated within 5 km from the project site, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) Proposed land area is 7900 m<sup>2</sup>. Industry will be developed Greenbelt in an area of 10 % i.e. 790 m<sup>2</sup> out of 7900 m<sup>2</sup> of area of the project.
- (iv) The estimated project cost is Rs. 800 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 50 Lakhs and the recurring cost (operation & maintenance) is about Rs. 4 Lakhs per annum.
- (v) It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. lies within 10 km distance.
- (vi) Ambient air quality monitoring is going on at 8 locations during March to May 2017.
- (vii) Total water requirement will be 38.5 KL/Day of which fresh water requirement of 38.5 KL/Day and will be met from GIDC Water Supply.
- (viii) Treated Effluent 31.4 KL/Day. The neutralized low COD effluent after primary treatment (27.13 KL/Day) will be sent to the CETP of M/s PETL, Panoli for the further treatment and final disposal. The neutralized high COD effluent after primary treatment (1.67 KL/Day) will be sent to the Common Spray Dryer of M/s PETL, Panoli for further treatment and final disposal. Domestic effluent (2.6 KL/Day) will be sent to septic tank & soak pit.
- (ix) Power requirement will be 125 HP and will be met from DGVCL.

- (x) Unit will have Boiler, Process Vents (2 Nos.) & DG Set (1 No.). Adequate air pollution control equipments i.e. Stack Height shall be provided & Two stage Scrubbers shall be installed to prevent air pollution. with a stack of height of 15 m & 8 m respectively will be installed for controlling the Particulates emissions.
- (xi) Scrubbers will be used to control process emissions.
- (xii) Details of Solid waste/Hazardous waste generation and its management:

Sr. No	Type of	Cate-	Genera-	Mode of Treatment &
1	Waste	gory	tion Qty.	Disposal
1.	ETP Sludge	35.3	1.8	Collection, Storage,
			MT/Month	Transportation & Sent to
				TSDF site of M/s. PSWML,
				Panoli or M/s. BEIL,
	11 101	7.1	0.2	Ankleshwar
2.	Used Oil	5.1	0.3	Collection, Storage,
			Lit/Month	Transportation & Sale to
				registered re-processor or
				used for lubrication within
3.	Connet	28.3	2.8	premises Stances
3.	Spent Carbon	28.3	MT/Month	Collection, Storage,
	Carbon		WI 1/WIOHUI	Transportation & sent for
				co-processing in cement industries or to M/s. BEIL,
				Ankleshwar for incineration
4.	Discarded	33.1	100	Collection, Storage,
٦.	Containers	33.1	Nos/Month	Transportation,
	Containers		1NOS/IVIOIIIII	Decontamination & given to
				registered vendors
5.	Discarded	33.1	170	Collection, Storage,
	Liners	33.1	Nos/Month	Transportation,
			1 (05/1/1011011	Decontamination & given to
				registered vendors
6.	Distillation	36.1	12	Collection, Storage,
	Residue		MT/Month	Transportation & sent for
				co-processing in cement
				industries or to M/s. BEIL,
				Ankleshwar for incineration
7.	Aqueous	_	110	Collection, Storage & Sold
	HBR		MT/Month	to re-processors or end users
8.	Sodium	-	100	
	Bromide		MT/Month	
9.	Methyl	-	32 MT/	
	Acetate		Month	
10.	MnO <sub>2</sub>	-	37 MT/	
			Month	
11.	Sodium	-	19	
	Sulphate		MT/Month	

### (xiii) Following are the list of proposed products:

Sr. No.	Name of Product	Production Capacity (MT/Month)	CAS Nos.
1	Betahistine Dil HCl	50	5579-84-0
2	Clopidogrel Bisulfate and its		113665-84-2

	Intermediate		
3	Fluconazole and its Intermediate		86386-73-4
4	Ambroxol HCl		23828-92-4
5	Troxerutin		7085-55-4
6	Doxofylline		69975-86-6
7	Rutin		153-18-4
8	Quercetin		117-39-5
9	Zonisamide		68291-98-5
10	Iron Sucrose		8047-67-4
11	Bromhexine HCl		611-75-6
12	Theophyllin		58-55-9
	Total	50	

The EAC noted that PP has started ambient air quality monitoring at 8 locations since March, 2017. EAC is agreed with it.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- i. Layout plan Plan for 10 m wide green belt around periphery of the plant to be submitted.
- ii. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b) of the EIA notification, 2006.
- iii. ESR plan for 5 year @ 2.5 % of the project cost with the consultation of nearby villagers to be submitted.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7(i) III. Stage (3) (i) (b)of the EIA notification, 2006.

## Proposed API & API Intermediates in Existing Pigment Unit of M/s Amar Pigments Plot No. 3012-3013, Phase – III, GIDC Panoli, Dist: Bharuch (Gujarat) by M/s Amar Pigments [IA/GJ/IND2/62351/2017, J-11011/92/2017-IA.II(I)]

The project proponent informed following:-

- (i) The project involves proposed API & API Intermediates in Existing Pigment Unit of M/s Amar Pigments Plot No. 3012-3013, Phase III, GIDC Panoli, Dist: Bharuch (Gujarat) by M/s Amar Pigments.
- (ii) All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board is situated within 5 km from the project site, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) Existing unit is manufacturing Pigment Beta Blue since 2012 by mixing and blending.

- (iv) Proposed land area is 2000 m<sup>2</sup>. Industry will be developed Greenbelt in an area of 10 % i.e. 200 m<sup>2</sup> out of 2000 m<sup>2</sup> of area of the project.
- (v) The estimated project cost is Rs. 375 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 25 Lakhs and the recurring cost (operation & maintenance) is about Rs. 2 Lakhs per annum.
- (vi) Industry purposes to allocate Yes we are ready to comply with the condition of CSR expenses @ 2.5% of project cost, if deemed necessary as a part of statutory compliances. The CSR investments will be carried out over a period of 5 years pro rata to the project cost invested towards Corporate Social Responsibility.
- (vii) It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. lies within 10 km distance.
- (viii) Ambient air quality monitoring is going on at 8 locations during March to May 2017.
- (ix) Total water requirement will be 39 KL/Day (Existing: 15 KL/Day + Additional Proposed: 24 KL/Day) of which fresh water requirement of 39 KL/Day and will be met from GIDC Water Supply.
- (x) Treated Effluent (33 KL/Day) (Existing: 13.1 KL/Day + Additional Proposed: 19.9 KL/Day). The neutralized low COD effluent after primary treatment will be sent to the CETP of M/s PETL, Panoli for the further treatment and final disposal. The neutralized high COD effluent after primary treatment will be sent to the Common Spray Dryer of M/s PETL, Panoli for the further treatment and final disposal. Domestic effluent will be sent to septic tank/soak pit.
- (xi) Power requirement will be 125 HP and will be met from DGVCL.
- (xii) Unit will have Boiler, Process Vents (2 Nos.) & DG Set (1 No.). Adequate air pollution control equipments i.e. Stack Height shall be provided, Scrubber shall be installed to prevent air pollution with a stack of height of 15 m & 8 m respectively will be installed for controlling the Particulates emissions.
- (xiii) Scrubbers will be used to control process emissions.
- (xiv) Details of Solid waste/Hazardous waste generation and its management is as follows:

Sr.	Type of	Cate	Gene	ration	Mode of Treatment & Disposal
No	Waste	gory	Exist	Total	
			ing	Prop	
				osed	
1.	ETP Waste	35.3	0.01	5	Collection, Storage,
			7	MT/	Transportation & Sent to TSDF
			MT/	Mont	site of M/s. PSWML, Panoli or
			Mont	h	M/s. BEIL, Ankleshwar
			h		
2.	Used Oil	5.1	1.67	18	Collection, Storage,
			Lit/	Lit/M	Transportation & Sale to
			Mont	onth	registered re-processor or use for
			h		lubrication within premises
3.	Spent Carbon	28.3	-	0.09	Collection, Storage,
				MT/	Transportation & co-processing in
				Mont	cement industries or Send to
				h	TSDF of M/s. PSWML, Panoli or
					M/s. SEPL, Jambusar or M/s.
					BEIL, Ankleshwar
4.	<b>Empty Bags</b>	33.1	12	40	Collection, Storage,
			Nos/	Nos/	Transportation, Decontamination
			Mont	Mont	& sale to registered vendors
			h	h	

5.	Discarded	33.1	-	30	Collection, Storage,
	Containers			Nos/	Transportation, Decontamination
				Mont	& sale to registered vendors
				h	
6.	Discarded	33.1	-	50	Collection, Storage,
	Liners			Nos/	Transportation, Decontamination
				Mont	& sale to registered vendors
				h	
7.	Distillation	36.1	-	3	Collection, Storage,
	Residue			MT/	Transportation & Sent to Common
				Mont	Incineration of M/s. SEPPL,
				h	Dahej or M/s. BEIL, Ankleshwar
					or cement industries for Co-
					Processing
8.	AlCl <sub>3</sub> Soln.	-	-	80	Collection, Storage & Sold to end
				MT/	users
				Mont	
				h	

## (xv) Following are the list of proposed products:

Sr. No.	Name of Product	1	tion Capacity <b>Г/Month</b> )	CAS Nos.
		Existing	Total After Proposed Expansion	
1	Pigment Beta Blue	3.5	0	147-14-8
2	α-Phenyl-2-Pyridyl Acetonitrile	-	\ 40	5005-36-7
3	α-Phenyl-2-Pyridyl Acetamide	-		7251-52-7
4	L-(+) 4-Nitro Tartranilic Acid	-		60908-35-2
5	9-Methyl-1,2,3,9-Tetrahydro-4H- Carbazol-4-One	-		27387-31-1
6	2,2',4'-Trichloro Acetophenone	-		4252-78-2
7	1-(2,4-Dichloro Phenyl)-2-(1H- Imidazol-yl) Ethanol	-		24155-42-8
8	Ritanilic Acid	-		19395-41-6
9	α-Phenyl-2-Piperidyl Acetamide	-		19395-39-2
10	P-Chloro Benzophenone	-		134-85-0
11	P-Chlorobenzhydryl Chloride	-		134-83-8
12	p-Chlorobenzhydryl Piperazine	-		303-26-4
13	2-[4-(4-Chlorobenzhydryl)-1-	-		109806-71-5
	Piperazinyl] Ethanol			
14	Lamotrigine	-	'	84057-84-1
15	Roxithromycin EP/BP	_		80214-83-1
	Total	3.5	40	

Note: Pigment Beta Blue (Existing Product) shall be discontinued after proposed expansion

During presentation PP informed that existing unit is manufacturing Pigment Beta Blue since 2012 by mixing and blending. However PP did not provide documentary proof regarding this. The EAC also noted that PP has started ambient air quality monitoring at 8 locations since March, 2017. EAC is agreed with it.

After detailed deliberations, the Committee prescribed the following additional TOR in

addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- i. Layout Plan for 10 m wide green belt around periphery of the plant to be submitted.
- ii. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b) of the EIA notification, 2006.
- iii. ESR plan for 5 year @ 5 % of the project cost with the consultation of nearby villagers to be submitted.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b)of the EIA notification, 2006.

23.7.4 Proposed Expansion of Bulk Drug & its Intermediates in Existing Unit of M/s Shree Ramdev Pharma Chem Plot No. 2314-2315, Phase – III, GIDC Panoli, Dist: Bharuch (Gujarat) – Terms of References – reg. [IA/GJ/IND2/62348/2017, J-11011/91/2017-IA.II(I)]

The project proponent informed following:-

- (i) The project involves proposed Expansion of Bulk Drug & its Intermediates in Existing Unit of M/s Shree Ramdev Pharma Chem Plot No. 2314-2315, Phase III, GIDC Panoli, Dist: Bharuch (Gujarat).
- (ii) All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board is situated within 5 km from the project site, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) Existing unit is manufacturing inorganic chemicals.
- (iv) Proposed land area is 3766 m<sup>2</sup>. Industry will be developed Greenbelt in an area of 10.62 % i.e. 400 m<sup>2</sup> out of 3766 m<sup>2</sup> of area of the project.
- (v) The estimated project cost is Rs. 325 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 25 Lakhs and the recurring cost (operation & maintenance) is about Rs. 2 Lakhs per annum.
- (vi) It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. lies within 10 km distance.
- (vii) Ambient air quality monitoring is going on at 8 locations during March to May 2017.
- (viii) Total water requirement will be 28.5 KL/Day (Existing: 10 KL/Day + Additional Proposed: 18.5 KL/Day) of which fresh water requirement of 28.5 KL/Day and will be met from GIDC Water Supply.
- (ix) Treated Effluent 24.13 KL/Day (Existing: 7.5 KL/Day + Additional Proposed: 16.63 KL/Day). The neutralized low COD effluent after primary treatment will be sent to the CETP of M/s PETL, Panoli for the further treatment and final disposal. The neutralized high COD effluent after primary treatment will be sent to the Common Spray Dryer of M/s PETL, Panoli for the further treatment and final disposal. Domestic effluent will be sent to septic tank & soak pit.
- (x) Power requirement will be 125 HP and will be met from DGVCL.
- (xi) Unit will have Boiler, Process Vents (2 Nos.) & DG Set (1 No.). Adequate air pollution control equipments i.e. Stack Height shall be provided, Scrubber shall be installed to prevent air pollution with a stack of height of 15 m & 8 m respectively will be installed for controlling the Particulates emissions.

(xii) (xiii) Scrubbers will be used to control process emissions.

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

Sr.	Type of	Catas			
		Categ		eration	Mode of Treatment &
No	Waste	ory	Existing	Total	Disposal
				Proposed	
1.	ETP Sludge	35.3	-	0.8	Collection, Storage,
				MT/Month	Transportation & Sent to
					TSDF site of M/s. PSWML,
					Panoli or M/s. BEIL,
					Ankleshwar
2.	Used Oil	5.1	0.01	0.5	Collection, Storage,
				Lit/Month	Transportation & Sale to
			h		
					1
3.	-	28.3	-		, ,
	Carbon			MT/Month	
4.		33.1			,
				Nos/Month	_
			h		
	ers				registered vendor
	D: ~4:11 - 4:	26.1		10	Callastian Star
3.		30.1	-		
	Residue			M1/Month	
					_
6.	Hydrobromi	_	_	65	
"					_
7.		_	_		F10100010 01 <b>0110 0001</b> 0
'.					
				1,11,1,1011011	
8.		_	_	40	
				=	
3. 4. 5. 6. 7. 8.	Spent Carbon  Discarded Containers /Barrels/Lin ers  Distillation Residue  Hydrobromi c Acid Aluminium Chloride Soln. Potassium Bromide Soln.	38.3	O.5 MT/Mont h	3.8 MT/Month  500 Nos/Month  10 MT/Month  65 MT/Month 80 MT/Month 40 MT/Month	Transportation & Sale registered re-processor used for lubrication wit premises  Collection, Stora Transportation & processing in cemindustries or Send to Market BEIL, Ankleshwar incineration

#### (xiv) Following are the list of proposed products:

Sr. No.	Name of Product	Production (MT/I	CAS Nos.	
		Existing	Total After Proposed Expansion	
Inorga	nic Products (Existing)			
1	Potassium Sulphate			7778-80-5
2	Potassium Chloride			7440-09-7
3	Potassium Bromide			7758-02-3
4	Potassium Nitrate			7757-79-1
5	Zinc Chloride			7646-85-7
6	Zinc Sulphate	500	500	7733-02-0

7	Copper Sulphate			7758-99-8
8	Magnesium Sulphate			7487-88-9
9	Sodium Nitrate			7631-99-4
10	Sodium Bromide			7647-15-6
11	Sodium Hypo Bromite			13824-96-9
12	Di Calcium Phosphate			7757-93-9
Addition	onal Proposed		•	
13	Diphenyl Acetonitrile	-		86-29-3
14	Diphenyl Acetic Acid	-	] )	117-34-0
15	2-(Diphenylmethoxy)-N,N-	-		147-24-0
	Dimethylethanamine			
	Hydrobromide			
16	Diphenyl Methane	-		101-81-5
17	P-Chloro Benzophenone	-		134-85-0
18	P-Chlorobenzhydryl Chloride	-	75	134-83-8
19	p-Chlorobenzhydryl Piperazine	ı		303-26-4
20	2-[4-(4-Chlorobenzhydryl)-1-	-		109806-71-5
	Piperazinyl] Ethanol			
21	1-(3-Chloropropyl)-2-	-		62780-89-6
	Benzimidazolidinone			
22	5-Chloro-1-(4-Piperidinyl)-2-	-		53786-28-0
	Benzimidazolidinone			
23	Nosyl Chloride	-	<u> </u>	98-74-8
	Total	-	75	
	<b>Grand Total</b>	500	575	

The EAC noted that PP has started ambient air quality monitoring at 8 locations since March, 2017. EAC is agreed with it.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- i. Public hearing is exempted under the provisions as per para 7(i) III. Stage (3) (i) (b) of the EIA notification, 2006.
- ii. ESR plan for 5 year @ 5 % of the project cost with the consultation of nearby villagers to be submitted.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b)of the EIA notification, 2006.

23.7.5 Proposed Bulk Drugs & Bulk Drug Intermediates Manufactuirng Unit of M/s Lycos Chemtech Plot No. 1032/3, GIDC, Panoli, Taluka Ankleshwar, Dist. Bharuch, Gujarat by M/s Lycos Chemtech [IA/GJ/IND2/64184/2017, J-11011/208/2017-IA.II(I)]

The project proponent informed following:-

- (i) The project involves proposed Bulk Drugs & Bulk Drug Intermediates Manufactuirng Unit at Plot No. 1032/3, GIDC, Panoli, Taluka Ankleshwar, Dist. Bharuch, Gujarat by M/s Lycos Chemtech.
- (ii) All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board is situated within 5 km from the project site, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- (iii) Proposed land area is 1040 m<sup>2</sup>.
- (iv) Industry will develop greenbelt in an area of 28.85 % i.e. 300 m<sup>2</sup> out of 1500 m<sup>2</sup> of area of the project.
- (v) The estimated project cost is Rs. 200 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 20 Lakhs and the recurring cost (operation & maintenance) is about Rs. 2 Lakhs per annum.
- (vi) Industry purposes to allocate CSR expenses @ 2.5 % of project cost, if deemed necessary as a part of statutory compliances. The CSR investments will be carried out over a period of 5 years pro rata to the project cost invested towards Corporate Social Responsibility.
- (vii) It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. lies within 10 km distance.
- (viii) Ambient air quality monitoring is carried out at 8 locations during March to May 2017.
- (ix) Total water requirement will be 17.76 KL/Day and will be met from GIDC Water Supply.
- (x) Treated Effluent 3.23 KL/Day. After primary treatment and tertiary Treatment, treated effluent will be sent to the Common Effluent Treatment Plant (CETP) of M/s PETL, Panoli for the further treatment and final disposal. Domestic effluent (2.7 KL/Day) will be disposed of through septic tank & soak pit.
- (xi) Power requirement will be 250 KVA and will be met from DGVCL and D.G. Set (1 No.) 125 KVA capacity (emergency standby).
- (xii) Unit will have Boilers (1 no.), Thermic Fluid Heater (1 no.) & DG Set (1 No.). Adequate air pollution control equipments i.e. Stack Height shall be provided, multicyclone separator with bag filter shall be installed to prevent air pollution with a stack of height of 12 m, 12 m & 5 m respectively will be installed for controlling the Particulates emissions.
- (xiii) Details of Solid waste/Hazardous waste generation and its management are as follows:

Sr.	Type of	Category	Quantity	Disposal
No.	Waste	No.		
1	ETP Sludge	34.3	4 MT/Month	Collection, Storage, Transportation and
				sent to common TSDF site for disposal.
2	Process	28.1	5 MT/Month	Collection, Storage, Transportation and
	Waste			sent to common TSDF site for disposal.
2	Used Oil	5.1	30 Liter/Month	Collection, Storage, Transportation and
				sell to GPCB registered
				reprocessor/refiner
4	Discarded	33.1	300 nos./Year	Collection, Storage, Decontamination,
	Drums/Bags			Transportation & given to GPCB
				authorized Vendor
5	Distillation	20.3	2.7 MT/Month	Collection, Storage, Transportation and

Residue		sentfor	co-processing	in	cement
		industrie	s or to CHWIF.		

## (xiv) Following are the list of proposed products:

Sr. No.	Name of Products	CAS No.	Proposed Capacity (MT/Month)
1	Diethylcarbamazine Citrate	1642-54-2	
2	1-[2-(2-Hydroxyethyl)Ethoxy]	13349-82-1	
	Piperazine (99%)		
3	1-(2, 3- Dichlorophenyl)	119532-26-2	
	PiperazineHCl		
4	1-Benzylpiperazine (99%)	2759-28-6	
5	1-(2-Methoxyphenyl)	5464-78-8	
	PiperazineHCl (98%)		
6	Piperazine Hexahydrate	142-63-2	
7	Piperazine Citrate	144-29-6	
8	Piperazine Adipate	142-88-1	1.5.0
9	Piperazine Dihydrochloride	142-64-3	15.0
10	Piperazine Phosphate	14538-56-8	
11	Povidone Iodine	25655-41-8	
12	N-Phenyl Piperazine (NPP)	92-54-6	
13	N-Methyl Piperazine	109-01-3	
14	1-Amino-4-Methyl Piperazine	6928-85-4	
15	1- BOCPiperazine	57260-71-6	
16	Sodium Barbital	144-02-5	
17	Methoxsalen	298-81-7	
18	5-Methyl Nicotinic Acid	3222-49-9	
19	Ciprofloxacin Lactate	97867-33-9	
20	Ciprofloxacin Base	86483-48-9	
21	Mecobalamin	13422-55-4	0.5
		Total	15.5
By-P	roduct		
1	Manganese Dioxide	1313-13-9	0.92

The EAC noted that PP has started ambient air quality monitoring at 8 locations since March, 2017. EAC is agreed with it.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- i. Layout Plan earmarking space for 10 m wide green belt around periphery of the plant to be submitted.
- ii. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b) of the EIA

notification, 2006.

- iii. ESR plan for 5 year @ 2.5 % of the project cost with the consultation of nearby villagers to be submitted.
- iv. Commitment to use agro-waste as boiler fuel.

It was recommended that 'TORs' prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7(i)III. Stage (3)(i)(b)of the EIA notification, 2006.

Setting up of Ammonium Nitrate Manufacturing Complex for the manufacture of Technical Ammonium Nitrate (1000 MTPD) & Ammonia (380 MTPD) at village Bagadia, Chaukimata, Rangiagarh, Tahsil Paradeep District Jagatsinghpur, Odisha by M/s Deepak Fertilizers & Petrochemicals Corporation Limited.— Terms of References - reg. [IA/OR/IND2/63052/2017, J-11011/141/2017-IA.II(I)]

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

- (i) The project involves setting up of Ammonium Nitrate Manufacturing Complex for the manufacture of Technical Ammonium Nitrate (1000 MTPD) & Ammonia (380 MTPD) at village Bagadia, Chaukimata, Rangiagarh, Tahsil Paradeep District Jagatsinghpur, Odisha by M/s Deepak Fertilizers & Petrochemicals Corporation Limited.
- (ii) All Chemical Fertilizers are listed at S.N.5(a) of Schedule of Environmental Impact Assessment(EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee(EAC).
- (iii) It is reported that as per Form-1, no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Mahanadi, Atrabanki, Bay of Bengal is situated at a distance of 5.40 km, 4.18 km and 4.43 km in N, SE & SE direction respectively. Protected Forest is located at a distance of 5.20 km in SSW direction.
- (iv) The project is proposed to be set up in a part of a total 83.26 Acre plot of land. This area has good infrastructure of roads and good connectivity with the port. The process plants area will be around 20 acres. Industry will develop Greenbelt as per MoEF guidelines.
- (i) The estimated project cost is Rs 1750 crores.
- (ii) Total Employment will be 400 persons as direct & indirect from proposed project. Industry proposes to allocate 2.5 % towards Corporate Social Responsibility.
- (iii) Total water requirement is 11500 m3/day and will be met from Taldanda Canal which flows within 5 Kms of the site.
- (iv) Liquid effluent streams will be treated to meet standards as prescribed by statutory authorities. It will then be discharged into the Santa Nala which flows in proximity to the site.
- (v) Power requirement for proposed project will be 8.5 MW and will be drawn from CESCO/GRIDCO.Proposed 1.5 MW capacity DG sets are used as standby during power failure. Stack will be provided as per CPCB norms.
- (vi) Proposed Products and their Capacities

Products with	Weak Nitric Acid plant = 900 MTPD.
manufacturing conscitu	Ammonium Nitrate Solution plant = 1140 MTPD.
manufacturing capacity	Technical Ammonium Nitrate Prilling plant = 1000 MTPD.
	Ammonia = 380 TPD

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

#### A. Additional TOR

- i. Public Consultation shall be done as per provisions of the EIA Notification, 2006.
- ii. Video recording of proposed location to be submitted.
- iii. Layout Plan earmarking space for 10 m wide green belt around periphery of the plant to be submitted.
- iv. Hazardous storage area shall not be toward human habitation. Plan for minimum storage of Hazardous materials to be submitted.
- v. Recommendation from SCZMA to be submitted.
- vi. Submit a cost-benefit report w.r.t. ZLD implementation.
- vii. Alternate site analysis to be done.

It was recommended that 'TOR' with Public consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.

#### 23.8 Any other

Proposed expansion Bulk Drug & intermediated manufacturing unit of M/s Benova Labs Private Limited at Village Gaddapotharam Tehsil Jinnaram (Mandal), District Medak District Andhra Pradesh by M/s Benova Labs Private Limited – Extension of validity of TOR. [IA/TG/IND2/63721/2013, J-11011/15/2014-IA.II(I)]

Ministry had issued TOR with Public hearing to M/s Benova Labs Private Limited, vide letter No. J-11011/15/2014-IA II (I) dated 19<sup>th</sup> May, 2014 for expansion of Bulk Drug & intermediated manufacturing unit of M/s Benova Labs Private Limited at Village Gaddapotharam Tehsil Jinnaram (Mandal), District Medak District Andhra Pradesh. Now the PP has requested to exempt public hearing given in TOR dated 19<sup>th</sup> May, 2014 and Extension of validity of TOR. PP has applied online for Extension of validity of TOR on dated 12.04.2017 i.e prior expiry of TOR validity. During presentation PP informed that Government of Andhra Pradesh has declared Gaddapotharam as a notified industrial estate on 22.10.2013.

The EAC noted that as Government of Andhra Pradesh has declared Gaddapotharam as a notified industrial estate on 22.10.2013 i.e. after 14.09.2006. Therefore the EAC not agreed with the public hearing exemption request of the PP. EAC recommended for extension of validity of TOR up to 18<sup>th</sup> May, 2018.

Development Drilling of one well (BKDB)-A) of M/s ONGC Ltd., in Banaskandi PML Block of Cachar, A&AA Basin, Dist. Cachar, Assam by M/s ONGC Ltd. - Extension of validity of TOR - reg. [IA/AS/IND/21048/2013, J-11011/20/2014-IA.II(I)]

Ministry had issued TOR with Public hearing to **M/s ONGC Ltd.**, vide letter No. J-11011/20/2014-IA II (I) dated 23<sup>rd</sup> April, 2014 for Development Drilling of one well (BKDB)-A) of M/s ONGC Ltd., in Banaskandi PML Block of Cachar, A&AA Basin, Dist. Cachar, Assam. Now the PP has requested for Extension of validity of TOR. PP has applied online for Extension of validity of TOR on dated 20.04.2017 i.e., prior to expiry of TOR validity.

#### 23.9 Environmental Clearance

Proposed modernization project of Synthetic Organic chemicals and allied products at Plot No.: 1-7 & 26-31, Dhatav MIDC, Roha, Raigad, Maharashtra by M/s Deepak Nitrite Limited – Environmental Clearance – reg. [IA/MH/IND2/63448/2016, J-11011/363/2016-IA.II(I)]

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

- i. The proposal is for Modernization with Change in Product mix of existing manufacturing facility for Synthetic organic chemicals and Specialty Chemicals by Deepak Nitrite Limited. Located at Plot Nos: 1-7 & 26-31, in MIDC Industrial Area, Dhatavvillage, Tal-Roha, Dist-Raigad, in state of Maharashtra.
- ii. The project proposal was considered by the Expert Appraisal Committee(Industry-2) in its 17 EAC meeting held during 26<sup>th</sup> December -29<sup>th</sup> December, 2016 and recommended Terms of References(TORs) for the Project. The TOR has been issued by Ministry vide letter no.J-11011/363/2016-IA-II (I) dated 28<sup>th</sup> February 2017.
- iii. All the proposed products are in the category of Synthetic Organic Chemicals listed as S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification, 2006 under category 'B'. However, SEAC –I Maharashtra was not functioning therefore project proponent approached to EAC. The proposal is appraised at Central Level by Expert Appraisal Committee (EAC) as 'B' category only.
- iv. Unit was set up in 1992 i.e. prior to EIA notification issued in 1994. Unit has valid consent to operate and does not have EC for existing facility.
- v. Existing land area is 26624 m2. Industry has developed Greenbelt in an area of 9.7 % or 2581m<sup>2</sup> out of 26624 m<sup>2</sup> of area of the project.
- vi. The estimated project cost is Rs 38.68 Cr. Total capital cost earmarked towards environmental pollution control measures is Rs 3.41 Cr and the Recurring cost (operation and maintenance) will be about Rs 27 lacs per annum.
- vii. Employment is provided to 220 persons directly and to 102 persons indirectly. Industry proposes to allocate Rs 95 lacs @ of 2.5 % towards Corporate Social Responsibility.
- viii. It is reported that as per Form-1 no National parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, wildlife Corridors etc. lie within 10 km distance. Reserve forest present within 10 km distance. River/water body- Kundalika is flowing at a distance of 1 km in North Direction.
- ix. Ambient air quality monitoring was carried out at 8 locations during March to May2016 and submitted baseline data indicates that ranges of concentrations of PM10 (42.79  $\mu g/m^3$ -48.43  $\mu g/m^3$ ), PM2.5 (21.40  $\mu g/m^3$ -26.22 $\mu g/m^3$ ), SO2 (14.7  $\mu g/m^3$ -24.3  $\mu g/m^3$ ) and NO2 (17.07  $\mu g/m^3$ -26.81  $\mu g/m^3$ ) respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
- x. Total fresh water requirement is 519m<sup>3</sup>/day and will be met from MIDC Dhatav.
- xi. Treated effluent of 243 m³/day will be treated through ETP having primary and secondary treatment. High TDS stream will be treated separately in MEE. Effluent treated to MPCB norms is being disposed to CETP Roha for onward discharge to Arabian sea..
- xii. Power requirement after modernization will be 2625 KVA and will be met from Maharashtra State Power Distribution Corporation limited (MSPDCL).

xiii. Existing unit has 3 DG sets of 750 KVA, 750 KVA and 500 KVA capacities, as standby. These may be used during power failure as per requirement. No DG sets are required additionally. Stack (height = 4.5 m) has been provided as per CPCB norms xiv. Details of stack and Thermopac.

Sr. No.	Source	Capacity	Type of Fuel	Quantity	Stack Height (m)	Air Pollution Control Equipments	Emission
1	Boiler	8 TPH Steam	Indian coal Imported coal	32.83 MT/Day 20.53 MT/Day	34	Cyclone with dust collector	PM <sub>10</sub>
2	Thermopa c	6 Lac Kcal/hr	Imported coal	1 MT/Day	24.5	Cyclone	PM <sub>10</sub>
3	Boiler Stand by	8 TPH steam	Furnace Oil	9 MT/Day	Comm on Stack	with dust collector	$SO_2$
4	Thermopa c Stand by	4 Lac Kcal/hr	Furnace Oil	0.5 MT/Day	20 Comm	Stack	SO <sub>2</sub>
5	Thermopa c Stand by	4 Lac Kcal/hr	Furnace Oil		on Stack		$SO_2$
6	DG Set	750 KVA	HSD	2 MT/Month	4.5	Stack	SO <sub>2</sub>
7	DG Set	640 KVA	HSD	2 MT/Month	4.5	Stack	SO <sub>2</sub>
8	DG Set	500 KVA	HSD	1 MT/Month	4.5	Stack	SO <sub>2</sub>

- xv. Process emissions From Nitration unit plant emissions are controlled by using scrubber and stack of height 8.5 m.
- xvi. Used spent oil of 91 MTPA will be sale to Authorized re processor. Spent Chemical / Acid of 836 MTPA will be sale to Authorized re processor. Spent Chemicals of 91 MTPA will be Sale to Authorized re processor. Discarded containers/barrels/liner of 25 Nos. will be dispose to CHWTSDF ,Taloja/ Sale to Authorized party. Chemical sludge from waste water treatment of 50 MTPA will be dispose to CHWTSDF ,Taloja. Spent catalyst of 0.07 MTPA will be send back to Authorized party. Distillation residue from contaminated organic solvents of 28 MTPA will be dispose to CHWTSDF ,Taloja. MEE Salts of 1778 MTPA will be dispose to CHWTSDF ,Taloja / Sale. Ash from boiler of 2.5 TPD will be Sale to brick manufacturer. Insulating Material of 2 T/A will be Sale or dispose to CHWTSDF ,Taloja.
- xvii. Glass ware / Broken Discarded Glass of 1 T/A will be Sale or dispose to CHWTSDF ,Taloja.
- xviii. Public Hearing is exempted as per para 7(i)III. Stage (3)(i)(b) of EIA notification, 2006

being site is located within notified industrial area.
xix. Following are the list of existing and proposed products:

Sr. NO	Existing Products	Existing Capacity TPM	Proposed Product Mix	Proposed Capacity TPM
1.	Para Cumidine(PC) or  2 Ethyl Hexyl Nitrite	200	Para Cumidine(PC) or  3 Amino BenzotriFlouride (3ABTF)	200 No change
2.	Ortho Anisidine(OA) or Tri Methyl Hydro Quinine(TMHQ)	75	Ortho Anisidine(OA)or Tri Methyl Hydro Quinine(TMHQ)	50 Decrease
3.	2,4 Xylidine, 2,6 Xylidine or nitrobenzene or 2,3 Xylidine and 3,4 Xylidine	250	2,4 Xylidine, 2,6 Xylidine or 2,3 Xylidine, 3,4 Xylidine or 2,5 Xylidine 2,3 xylenol 2,4 and 2,5 Xylenol ,3,5 Xylenol	250 No change
4.	Meta Chloro Aniline, Diphenyl Amine Derivatives	50	Diphenyl Amine Derivatives	50 No change
5.	Crystal Diethyl Meta Amino Phenol(Cryst. DEMAP) or Dibutyl Para Phenylene Di amine (DBPPDA)	55	Crystal Diethyl Meta Amino Phenol(Cryst. DEMAP) or Dibutyl Para Phenylene Di amine (DBPPDA or 3 NAP (3 Nitro Acetophenone)/ or 3AAP(3Amino Acetophenone) or 3 HAP (3 HydroxyAcetoPhenone)	40 Reduce
6.	TFMAP (3-trifluromethyl) acetophenone	55 50 22	TFMAP (3-(trifluromethyl) acetophenone	80 Increase
	MePPDA Sulphate (2 Methyl p-Phenylene	10	2 MePPDA Sulphate (2 Methyl p-Phenylene Diamine	60 Increase

	Diamine Sulphate) or  1,3 CHD(1,3 Cyclohexane dione) or  4-NAX (Benenamine,N-(1-ethyloropy)-3-4-dimethyl)		Sulphate) or  1,3 CHD(1,3 Cyclohexane dione)	
7	Pilot Plant Products 1,3 CHD(1,3 Cyclohexane dione) and SMIA(SynMethoximino(2 furanyl)acetic acid	5	Pilot Plant Products  ( synthetic Organic Chemicals , such as SMIA(SynMethoximino(2 furanyl)acetic acid, MAP Sulfate , Adenine)	10 Increase
	Total	822		740

### **List of By-products:**

Sr. NO.	Name of Existing by Product	Existing Capacity TPM	Name of Proposed by Product Mix	Proposed Capacity TPM
1.	Ortho Nitro Cumene (from p- cumidiene)	150	Ortho Nitro Cumene (from p-cumidiene)	150
2.	PPO (Poly phenylene Oxide) from product tri methyle hydro quinine	201	2 NBTF(2 Nitro BTF) / 2 ABTF (2 Amino BTF) / 4 ABTF (4 Amino BTF) from 3 Amino BTF	41
3.	Ortho Toludine (OT)	20	PPO (Poly phenylene Oxide)	135
4.			OHBTF/OA BTF from TFMAP	20
5.			Ortho Toludine (OT)	25
	Total	371	Total	371

During presentation the EAC observed that PP has not presented significantly plan for hazardous raw material handling system. PP also did not present the risk assessment and its management system. PP did not provide adequate information w.r.t. pollution control equipments of existing unit and for proposed modernization project.

After deliberation, the Committee sought following additional information:

- 1. Risk assessment to be done by 3D model.
- 2. Report on Prediction of Ground Level Concentrations of Air Pollutants to be submitted.
- 3. List of pollution control equipments w.r.t. each pollution source to be submitted.
- 4. Commitment to not store locally available raw materials more than 3 days.
- 5. Make an ESR plan for 5 years @ 5 % of the project cost with the consultation of nearby villagers.

The proposal was deferred till the desired information is submitted. The above information shall be provided through online with the uploading of minutes on the website.

# Modernization with change in product mix of existing unit at MIDC Taloja, Raigarh, Maharashtra by M/s Deepak Nitrite Limited – Environmental Clearance – reg. [IA/MH/IND2/61070/2016, J-11011/367/2016-IA.II(I)]

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

- i) The proposal is for modernization of existing project with change in product mix for manufacture of synthetic organic chemicals and allied products by Deepak Nitrite Limited for unit located at plot nos K-09 and K-10 in MIDC Taloja, District Raigad, Maharashtra.
- ii) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 17<sup>th</sup> EAC meeting held during 26<sup>th</sup>-29<sup>th</sup> December, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter no. J-11011/367/2016-IA II (I); dated 28<sup>th</sup> February 2017.
- All the proposed products are in the category of Synthetic Organic chemicals listed at Sr. N 5(f) of Schedule of Environment Impact Assessment (EIA) Notification,2006 under category 'B'. However, SEAC, Maharashtra was not functioning therefore project proponent approached to EAC Delhi. The proposal is appraised at Central Level by Expert Appraisal Committee (EAC) as 'B' category only.
- iv) Existing land area is 13109.00m<sup>2</sup>, No additional land required. Industry has developed Greenbelt in an area of 1148 m<sup>2</sup> the project. The estimated project cost is Rs.41.24 Cr, including existing investment of Rs 33.78 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 1.26 Cr and the Recurring cost (operation and maintenance) will be about Rs. 10.10lacsper annum.
- viii) Employment is provided to 145 persons. Additional manpower is not required. Industry proposes to allocate Rs. 117 lacs @ of 2.5 % towards Corporate Social Responsibility.
- ix) It is reported that as per form-1, there is no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. River Kasardi is flowing at a distance of approx. 400 m in south direction.
- x) Ambient air quality monitoring was carried out at 8 locations during December 2015toFebruary 2016 and the baseline data indicates that ranges of concentrations of PM<sub>10</sub> (42.5 64.5 μg/m³), PM<sub>2.5</sub> (1.8 32.4 μg/m³), SO<sub>2</sub> (0.22 3.8 μg/m³) and NO<sub>2</sub> (0.07 1.8 μg/m³) respectively. Since the unit was in operation these values represent actual ambient air quality. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
- xi) Total fresh water requirement is 319 m<sup>3</sup>/day and will be met from MIDC water supply.
- xii) Trade effluent of 75 CMD is being treated in full fledged ETP Plant having Primary,

- Secondary, Tertiary treatment. Effluent treated to MPCB norms is being disposed to CETP Taloja for discharge 7 km inside sea.
- xiii) Power requirement after modernization will be 1228 kW including existing and will be met from Maharashtra State power Distribution Corporation Limited (MSPDCL). Existing unit has one DG set of 750 KVA capacity, No more DG sets will be required in addition to the existing DG set.
- xiv) Existing unit has 2 nos. of boilers having capacities 4 TPH & 5 TPH, fired on FO. One Thermopack of 2 lac.kcal/hr fired on FO also available. Thermopac & 5 TPH boiler has common stack of 32 m. For 4 TPH boiler separate 32 m. stack is provided.
- xv) Scrubbers with adequate stack height will be provided to control process emissions.
- xvi) Spent Lube oil of 21 TPA will be Sale to Authorized recycler. Distillation residue of 70 TPA will be Disposal to MWML. Spent Chemicals of 5 TPA will be Disposal to MWML. ETP Sludge of 4 TPA will be Disposal to MWML. Flue gas cleaning residue of 8 TPA will be Disposal to MWML.
- xvii) Public Hearing is exempted as per para 7(i)III. Stage (3)(i)(b) of EIA notification, 2006 being site is located within notified industrial area.
- xviii) Following are the lists of existing products, proposed products and by products:

#### **Existing Product being manufactured:**

Sr. No.	Products		Quantity (TPM)
	Aromatic Amines Like:		
	Toulidines (Ortho/ Meta/Para)		
	Xylidines, O-anisidne,		
1	Cumidines (Ortho/ Para)		1500
	Phynelene, Di-amine (Ortho/ Para)		
	Chloro Aniline Meta (Ortho/Para)		
	Dimethyl Amino Benzoic Acid,DimethylCyclohexanone		
	,	Total	1500

#### **Proposed Products and their quantum of production:**

Sr. No.	Products	Quantity (TPM)
1	Toulidines (Ortho / Meta / Para)	150
2	Xylidines (2,3/2,4/2,5/2,6/3,5) OR Xylidine Derivatives as Xylenols (2,3/2,4/2,5/2,6)	295
3	Cumidines (Ortho / Para)	270
4	Phynelene Di-amine (Ortho / Para)	50
5	Dimethyl Cyclohexanone (DMCH)	425
6	3 Amino BenzoTrifluoride (3-ABTF)	150
7	Benzhydrol OR	
8	Cyclohexenylethylamine (CHEA) OR	100
9	Homoveratrylamine (HVA) OR	100
10	4-(2-Methoxyethyl) Phenol.(4 MEP)	
	Total	1440

## **By-products generation:**

Sr. No.	Name of the By products	Quantity (TPM)
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1.	2 Aminobenzotrifluroirde (2ABTF)	24
2.	4 Aminobenzotrifluroirde (4ABTF)	36
	Total	60

During presentation the EAC observed that PP has not presented significantly plan for hazardous raw material handling system. PP also did not present the risk assessment and its management system. PP did not provide adequate information w.r.t. pollution control equipments of existing unit and for proposed modernization project.

After deliberation, the Committee sought following additional information:

- 1. Risk assessment to be done by 3D model.
- 2. Report on Prediction of Ground Level Concentrations of Air Pollutants to be submitted.
- 3. List of pollution control equipments w.r.t. each pollution source to be submitted.
- 4. Commitment to not store locally available raw materials more than 3 days.
- 5. Make an ESR plan for 5 years @ 5 % of the project cost with the consultation of nearby villagers.

The proposal was deferred till the desired information is submitted. The above information shall be provided through online with the uploading of minutes on the website.

Proposed expansion of Resin, New Pharmaceuticals Intermediates and Specialty Organic Chemicals in Existing plant (150 MT/Month to 2900 MT/Month) at Plot No. 789/3A & 791/4 & 5, Phase-III, G.I.D.C., Vapi-396 195, Dist: Valsad (GUJ.) of M/s. Vapi Products Industries Pvt. Ltd. Environmental Clearance – reg. [IA/GJ/IND2/53440/2016, J-11011/136/2016-IA.II(I)]

Project was not listed in the agenda. During the EAC meeting the PP requested to consider their case in 23<sup>rd</sup> EAC meeting. The PP informed that they have order of their products from USA, Spain and Germany. Our Clients are waiting for EC and CTO to produce Resin, Pharmaceutical Intermediates, Perfumery Products and Specialty Chemicals. Due to this, Project will save Foreign exchange and we will export total material to our foreign client from USA, Spain and Germany. They could get 12000 MT/Year Orders from these Country and Approx Rs. 150 Crore Turnover. They have Urgency to set up our project as soon as possible for Export Purpose. With the permission of Chairman, the Project Proponent and accredited Consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd., gave a detailed presentation on the salient features of the project & informed that:

- i. The proposal is for expansion of Resin, New Pharmaceuticals Intermediates and Specialty Organic Chemicals in Existing plant (150 MT/Month to 2900 MT/Month) at Plot No. 789/3A & 791/4 & 5, Phase-III, G.I.D.C., Vapi-396 195, Dist: Valsad, Gujarat by M/s. Vapi Products Industries Pvt. Ltd.
- ii. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 9<sup>th</sup> EAC meeting held during 27<sup>th</sup>-28<sup>th</sup> June, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter no. J-11011/136/2016-IA II (I); dated 2<sup>nd</sup> August, 2016.
- iii. All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board hence

- project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- iv. Proposed land area is 9757 m2. Industry will be developed Greenbelt in an area of 33 % i.e.3220 m<sup>2</sup> out of 9757 m<sup>2</sup> of area of the project. The existing plant was established prior to EIA, Notification, 2006
- v. The estimated project cost is Rs. 10 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 2.5 Crore and the recurring cost (operation & maintenance) will be about Rs. 30 Lakhs per annum.
- vi. Industry purposes to allocate Rs. 75 Lakhs @ 7.5 % towards Corporate Social Responsibility.
- vii. Total Manpower will be 90 Nos. local people and 10 Nos. technical person.
- viii. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Damanganga river is flowing at a distance a distance of 3 km.
- ix. Ambient air quality monitoring is carring out at 8 locations during October-2016 to December-2016.
- x. Total water requirement will be 250 m3/day of which fresh water requirement of 250 m3/day and will be met from GIDC Water Supply.
- xi. Treated Effluent (110 KL/Day) will be sent to CETP & Common MEE, M/s. VGEL, Va for further treatment.
- xii. Power requirement will be 500 KVA and will be met from DGVCL
- xiii. Unit will have 2 Nos. of boiler & 1 Nos. of THF & 1 Nos. of D. G. Set., with a stack of height of 18 m & 11 m respectively will be installed for controlling the Particulates emissions.
- xiv. Stack of 11 m will be provided to process vent.
- xv. Details of Solid waste / Hazardous waste generation and its management are as follows:

Type of waste & Category	Source	Existing	ADDITION AL	Total	Disposal Method
ETP Sludge (Cat. 35.3)	ETP		350 MT/Month	350 MT/Month	Collection, Storage, Transportation and dispose to TSDF
Spent solvent (Cat. 20.2)	Process	0.0 MT/Month	110.5 MT/Month	110.5 MT/Month	Collection, Storage, & Reprocess/Reus e back in process.

Discarded Drums	Process	16	464	480	Collection,
/Containers		Nos/Month	Nos/Month	Nos/Month	Storage,
(Cat. 33.1)					Transportation,
					Disposal by
					selling to
					registered
					recycler
Iron Sludge	Process		1227	1227	Collection,
			MT/Month	MT/Month	Storage,
					Transportation
					and dispose to
					TSDF or send to
					cement
					industries
Organic Residue	Distillation		30	30	Collection,
			MT/Month	MT/Month	Storage,
					Transportation
					and dispose to
					common
					incineration Site
					or co-processing
					in cement
					industries
Inorganic Salt	Process		350	350	Collection,
			MT/Month	MT/Month	Storage,
					Transportation
					and dispose to
					TSDF
Spent HCL	Process		282	282	Collection,
			MT/Month	MT/Month	Storage,
					Transportation
					and sell to end
					user
Sulphuric Acid	Process		1625	1625	Collection,
			MT/Month	MT/Month	Storage,
					Transportation
					and sell to end
					user

MT/Month Storage, Transportation and dispose to common incineration Site or co-processing in cement industries  Spent Carbon Process 10 10 Collection, MT/Month Storage,	Process Sludg	ze	Process	 75	75	Collection,
Transportation and dispose to common incineration Site or co-processing in cement industries  Spent Carbon Process 10 10 Collection, MT/Month MT/Month Storage,		<i>5</i> -				·
spent Carbon Process 10 10 Collection, MT/Month MT/Month Storage,						_
Spent Carbon  Process   10  MT/Month  MT/Month  Common incineration Site or co-processing in cement industries  Storage,						_
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Spent Carbon Process 10 10 Collection, MT/Month MT/Month Storage,						incineration Site
Spent Carbon Process 10 10 Collection, MT/Month MT/Month Storage,						or co-processing
Spent Carbon Process 10 10 Collection, MT/Month MT/Month Storage,						_
MT/Month MT/Month Storage,						industries
	Spent Carbon	l	Process	 10	10	Collection,
Transportation				MT/Month	MT/Month	Storage,
Tansportation						Transportation
and dispose to						and dispose to
common						common
incineration Site						incineration Site
or co-processing						or co-processing
in cement						in cement
industries						industries
MEE Salt MEE 60 60 Collection,	MEE Salt		MEE	 60	60	Collection,
MT/Month MT/Month Storage,				MT/Month	MT/Month	Storage,
Transportation						Transportation
and dispose to						and dispose to
TSDF						TSDF

xvi. Public Hearing is exempted as per para 7(i)III. Stage (3)(i)(b) of EIA notification, 2006 being site is located within notified industrial area.

xvii. Following are the list of existing and proposed products:

Sr. No.	Name of Product	Existing Capacity (MT/Mont h)	Additional Capacity (MT/Month)	Total after Proposed Expansion (MT/Month)	CAS No.
1.0	Acrylic Polymers	50	200	250	25067- 01-0
2.0	Emulsion Polymers	100	900	1000	67/548/E EC
3.0	4- Nitro N- Methyl PhthaIimide	00	250	250	41663- 84-7
4.0	3- Amino 4- Methoxy Acetanilide	00	100	100	6375-47-
5.0	Specialty Chemicals	1		1	
5.1	2-Aminobenzene Dimethyl - 1,4-Dicarboxylate / 2-Amino Di			500	5372-81-

	Methyl Terephthalate	00	500		
	2,4 DCNB Nitrated Ether /				121-8
5.2	OPNA (NITRATED				
	AROMATIC ETHER)				
5.3	N-Hydroxy Methyl Benzamide				2318-8
J.J	TV Try drowy Wedny's Benzamide				3
	N- Hydroxymethyl Chloro				2832-1
5.4	Acetamide 90 % / N- Hydroxy methyl Chloro Acetamide				1
5.5	Di Phenyl Sulphone				127-63
5.6	4-4" Di Hydroxy Di Phenyl Sulfone				80-09
6.0	Pharma Intermediates				
6.1	Ethyl 2-Chloro-2 -(4-Methoxy				2866
0.1	PhenylHydrazinylidene) Ethanoate				68-5
6.2	5 - (4-Bromophenyl)-4,6-Di hydroxyl pyrimidine /(BDP)				70681 25-8
					6296-5
6.3	3-Acetamidophthalic Anhydride (APA)	00	500	500	3
6.4	6 - Chloro 1,3 Di hydro- 2H –		300	300	5634
0.4	Indole-2- One				37-8
6.5	Dibenzo [b.f][1,4]thiazepin-				3159-0
	11(10H)-one (DTO)				7
6.6	2,4 Dimethyl Benzene Thiol				13610
					82-5
7.0	Perfumery Products				
7.1	Phenyl Ethyl Alcohol				60-12
		00	300	300	3558-6
7.2	Phenyl Ethyl Methyl Ether				9

The EAC noted that PP has submitted the recommendation letter issued from Gujarat Pollution Control Board given vide letter dated 04.04.2017.

The Committee after detailed deliberations recommended the project for grant of Environmental Clearance subject to compliance of following specific conditions:

- (i) 10 m wide green belt around periphery of the plant shall be provided.
- (ii) Continuous online (24 x7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB.
- (iii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (iv) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (v) Storage of hazardous raw material shall not exceed more than 7 days.
- (vi) 5000 trees shall be planted in five years in 3 villages to be identified. Survival rate of plants shall be reported to RO, MoEF&CC in 6 monthly compliance report.
- (vii) As committed 7.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) and shall be used only for installation of RO plant for drinking water supply and solar light to nearby 3 selected villages. Implementation of such program shall be ensured accordingly in a time bound manner.
- (viii) A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.

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## List of the Chairman and Members of the Expert Appraisal Committee (EAC) for Industry-2 who were present in the $23^{rd}$ EAC meeting .

Sr. No.	Name and Address	
1.	Dr. J. P. Gupta A- 1/2 Panchsheel Enclave, New Delhi- 110070 E-mail: jpglobalconsultinggroup@gmail.com	Chairman
2.	Sh. R. K. Singh 301, Tulsi Meadows Building, St. Anthony's Road, Near Uttam Society, Chembur, Mumbai-400071, Maharashtra E-mail: rksingh7854@gmail.com	Member
3.	Dr. Ahmed Kamal 8-2-619, Road no.11, Banjara Hills, Hyderabad 500034. E-mail: ahmedkamal@iict.res.in	Member
4.	Prof. J.R. Mudakavi 1128, Adarsha Layout, West of Chord Road, III Stage, I Block, Basaveshwar Nagar, Bangalore- 560079 E-mail: mudakavijr@gmail.com	Member
5.	Ms.SaloniGoel B-701,CSI Towers, VipinKhand, Gomti Nagar, Lucknow- 226010E-mail sgoel.eac@gmail.com	Member
6.	Shri SuhasRamchandraPharande Ajinkyatara, Kala Nagar, Gangapur Road, Nashik- 422002 E-mail: s pharande@yahoo.com	Member
7.	Shri Sanjay Bist Scientist- D Indian Meteorological Department, MausamBhawan, Lodhi Road, New Delhi- 110003E-mail: sanjay.bist@imd.gov.in	Member
8.	Sh. Paritosh Kumar Additional Director, Central Pollution Control Board, New DelhiEmail: 45pkumar@gmail.com	Member
9.	Shri Yogendra Pal Singh Room No. 236, Vayu Wing, 2 <sup>nd</sup> Floor, Ministry of Environment, Forest & Climate Change, JorBagh Road, New Delhi-110003E- mail: yogendra78@nic.in Tele-fax: 01124695365	Member Secretary