Minutes of the 36th Expert Appraisal Committee (Industry-2) Meeting held during 24-26 April 2018 at Indira Paryavaran Bhawan, Jor Bagh Road, Ministry of Environment, Forest and Climate Change, New Delhi - 3

24th April 2018 (Day 1)

36.1 Opening Remarks by the Chairman

36.2 Confirmation of minutes of the 35th meeting of the EAC (Industry-2) held on 27-28 March, 2018 at Indira Paryavaran Bhawan, New Delhi.

The EAC, having taken note that no comments were offered on the minutes of its 35th meeting held on 27-28 March, 2018 at New Delhi, confirmed the same.

36.3. Environmental Clearance

Agenda No. 36.3.1

Setting up sulphonation plant 72 TPD (18,000 TPA) of 96% Linear Alkyl Benzene Sulphonic Acid (LABSA) by M/s Power Soap Limited at PIPDIC Industrial Estate, Sedarapet (Pondicherry) - Environmental Clearance

[IA/PY/IND2/39193/2016, J-11011/32/2016-IA II (I)]

36.3.1.1 The project proponent and accredited consultant M/s Vimta Labs Limited, made a detailed presentation on the salient features of the project and informed that:

(i) The proposal is for the environmental clearance to the project 'Proposed Sulphonation plant with a capacity of 72 TPD of LABSA at PIPDIC Industrial Estate, Sedarapet, Puducherry by M/s Power Soaps Pvt Ltd.

(ii) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 6th EAC Meeting held during 30th March - 2nd April, 2016 and recommended Terms of References (ToR) for the Project. The ToR has been issued by Ministry vide letter No. J-11011/32/2016-IA II (I) dated 11th May 2016.

(iii) As per the Environmental Impact Assessment (EIA) Notification dated 14th September 2006, the proposed project falls under Schedule No: 5(f) Synthetic organic chemicals industry. The proposed project is located within 5 km of notified eco-sensitive areas (Oussudu Bird Sanctuary); hence it attracts general condition and falls under 'Category A'. Therefore, it has been appraised at Central Level by Expert Appraisal Committee (EAC).

(iv) The total land required for the proposed project is about 0.907 ha (2.24 acres). It is proposed to develop greenbelt in an area of 33.5% ie., 0.304 ha, out of total area of the project. The estimated project cost is Rs.750 lakhs. The total capital cost earmarked for pollution control measures is Rs.47.0 lakhs and the recurring cost (operation and maintenance) will about Rs.6.0 Lakhs per annum. Total employment will be 35 persons as direct & 60 persons indirectly. It is proposed to allocate Rs.18.75 lakhs @ 2.5% towards Corporate Social Responsibility.

(v) The Oussudu lake and bird sanctuary is located at a distance of 4.0 km in South direction. Lake Turuvai flowing at a distance of 2.2 km in North direction.

(vi) Ambient Air Quality Monitoring (AAQM) was carried out at eight (8) locations during 1st April to 30th June 2016 and the baseline data indicates the ranges of concentrations as PM_{10} -

36.4 to 64.7 µg/m^3; $PM_{2.5}$ - 9.6 to 26.0 µg/m^3; SO_2 - 6.2 to 14.1 µg/m^3; NO_x - 13.1 to 20.0 µg/m^3 and CO - 384 to 570 µg/m^3 respectively. The AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 4.5 µg/m^3 for SO2 occurring at a distance of about 1.0 km in the NW direction. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

(vii) The total water requirement is 53.5 m^3/day of which fresh water requirement of 33.1 m^3/day will be met from private water suppliers.

(viii) The entire effluent generation from the demineralization plant and cooling process will be of quantity 14.3 KLD, which will be treated in the proposed Effluent Treatment Plant capacity of 20 KLD and reused within the plant premises for cooling tower make-up. The domestic sewage of 1.4 KLD generated will be combined with aeration tank of the ETP, subsequently treated and reused for dust suppression. The scrubber bleed generation of quantity 8.0 KLD consists of major proportion of Sodium Sulphate lean solution, which will be concentrated and used in detergent plant of PSPL. Thus, no wastewater will be discharged outside the plant premises and the proposed project will be operated on Zero Liquid Discharge (ZLD) condition.

(ix) Power requirement will be 900 kVA and will be met from Puducherry State Grid. To meet the emergency power requirement during the grid failure, a diesel generator set having capacity of 1000 KVA is proposed. The fuel required in the plant is only for DG operation, the consumption of fuel will be 150 lit/hr of low sulphur high speed diesel (LS-HSD). Stack height of 15 m will be provided as per CPCB norms to the proposed DG set.

(x) The SO_2, acid mist and other volatile gases coming from the Sulphonation process will be cleaned by taking the gas through an ESP to remove the acid mist followed by alkali scrubber to remove the SO_2 gas contaminants. The clean gas will be discharged into atmosphere through a stack of 38.0 m height.

(xi) The spent catalyst (0.3 TPA), ETP sludge (0.3 TPA) removed during annual shutdown works will be stored in drum lined with polythene liners and sent to secured landfill facility (CTSDF), Gummidipoondi for disposal. The sulphur ash (0.7 TPA) and sulphur sludge (1.0 TPA) will be collected in HDPE Bags, stored in hazardous waste storage room and it will be disposed in the secured land fill facility located at Gummidipoondi. The scrubber residue (4.9 TPA) generated will be collected and concentrated using steam and used in detergent industry of PSPL.

(xii) The public hearing for the proposed project has been conducted by Puducherry Pollution Control Committee (PPCC) on 16th October 2017 at Gopalsamy Naikar Marriage Hall, NH-45A, Villianur Bypass Road, Ariyapalayam, Villianur, Puducherry.

(xiii) Details of products and capacity as under

S. No	Product Details	Quantity
1	96% Linear Alkyl Benzene Sulphonic Acid (LABSA)	72 TPD

36.3.1.2 During deliberations, the EAC noted the following:

The proposal is for environmental clearance to the project for setting up sulphonation plant of 96% Linear Alkyl Benzene Sulphonic Acid (LABSA) of capacity 72 TPD (18000 TPA) by M/s Power Soaps Pvt Limited in a total area of 2.24 acres at PIPDIC Industrial Estate, Sedarapet (Pondicherry). The proposed LABSA is to be synthesised in multi tube reactor using raw

materials namely, Linear Alkyl Benzene and Sulphur to be procured from refineries in Chennai and Jamnagar.

The project/activity is covered under category B of item 5(f) 'Synthetic organic chemicals industry' of the Schedule to the Environmental Impact Assessment Notification, 2006. However, due to applicability of General Condition (Oussudu bird sanctuary within 5 km), the project requires appraisal at Central level by the sectoral EAC in the Ministry. The project proponent has applied for clearance from the Standing Committee of NBWL.

The ToR for the project was granted on 11th May 2016. Public hearing was conducted by the SPCB on 16th October 2017.

Total one time water requirement is estimated to be 53.5 cum/day, of which fresh water demand of 33.1 cum/day shall be met from the supply through the STP treated water, as committed by the Government of Puducherry.

Total effluent generated from different industrial operations of 15.7 KLD shall be taken to the Effluent Treatment plant for treatment. The treated water of 14.3 KLD shall be reused within the plant premises for cooling tower make-up. There will be no discharge of treated/untreated waste water from the unit, and thus conforming to Zero Liquid Discharge.

The EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. Issues raised during the public hearing have been duly addressed by the project proponent.

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

- *The environmental clearance is subject to obtaining prior clearance from the wildlife angle including clearance from the Standing Committee of the National Board for Wildlife as applicable. Grant of environmental clearance does not necessarily implies that Wildlife Clearance shall be granted to the project and that their proposals for Wildlife Clearance will be considered by the respective authorities on their merits and decision taken.*
- *Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.*
- *As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.*
- *Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.*
- *National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.*
- *To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.*
- *Total fresh water requirement shall not exceed 33.1 cum/day to be met from the supply through the STP treated water, as committed by the Government of Puducherry. Prior permission in this regard shall be obtained from the concerned regulatory authority.*
- *Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.*

- *Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.*
- *Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.*
- *The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.*
- *The company shall undertake waste minimization measures as below:-*
  (a) Metering and control of quantities of active ingredients to minimize waste.
  (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  (c) Use of automated filling to minimize spillage.
  (d) Use of Close Feed system into batch reactors.
  (e) Venting equipment through vapour recovery system.
  (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- *The green belt of at least 3-5 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.*
- *All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented.*
- *At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.*
- *For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.*
- *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.*
- *Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.*
- *Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution & other fugitive emissions and procured from the nearest refinery.*
- *Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.*
- *The energy sources for lighting purposes shall preferably be LED based.*
- *The spent catalyst shall be sold to authorized recyclers.*

Agenda No.36.3.2

Manufacture of Technical Grade Pesticides by M/s Dhanuka Agritech Limited at Plot No. D-3/1/A, GIDC, Dahej-III Industrial Estate, Tehsil Vagra, District Bharuch (Gujarat) - Environmental Clearance

[IA/GJ/IND2/67203/2017, IA-J-11011/403/2017-IA-II(I)]

36.3.2.1 The project proponent and the accredited Consultant M/s. San Envirotech Pvt. Ltd., Ahmedabad has made detailed presentation on the salient features of the project and informed that:

(i) The proposal is for environmental clearance to the project for manufacturing of Technical Grade Pesticides, with the capacity of 3415 MT/month by M/s Dhanuka Agritech Limited at Plot No. D-3/1/A, Dahej-III Industrial Estate Taluka Vagra, District Bharuch, Gujarat.

(ii) The project proposal was considered by the Expert Appraisal Committee (Industry 2) in its 28th meeting held during 18 - 20 September, 2017 and recommended Terms of References (ToR) for the Project. The ToR has been issued by Ministry vide letter No. J-11011/403/2017-IA-II (I) dated 25th September, 2017

(iii) All Pesticides industry and pesticide specific intermediates (excluding formulations) units are listed at S.N. 5(b) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

(iv) Proposed land area is 151954.70 m^2. It is proposed to develop greenbelt in an area of 33% i.e. 50980 m^2.

(v) The estimated project cost will be Rs.90.0 crores. Total capital cost earmarked for pollution control measures will be Rs.12.0 crores and the recurring cost (operation and maintenance) will be about Rs.4.5 crores per annum. Total employment including direct and indirect will be 150 persons. Industry proposes to allocate Rs.2.25 crores 2.5% of total project cost towards Corporate Social Responsibility.

(vi) There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within the 10 km distance of the project site.

(vii) Ambient air quality monitoring was carried out at 8 locations during October, 2017 to December, 2017 and submitted baseline data indicates that ranges of concentrations of PM_{10} (62.3 – 77.2 µg/m^3), $PM_{2.5}$ (31.9 – 40.6 µg/m^3), SO_2 (12.7 – 21.1 µg/m^3) and NOx (15.3 – 25.9 µg/m^3) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs from the proposed project would be 1.083 µg/m^3, 0.421 µg/m^3, 0.344 µg/m^3, 0.143 µg/m^3, 0.007 µg/m^3, with respect to SPM, SO_2, NOx, HCl, and HBr. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

(viii) Total water requirement is 731.0 m^3/day of which fresh water requirement is 258 m^3/day and 473 m^3/day will be recycled/treated water, which will be met from GIDC water supply.

(ix) Total effluent generation will be tune around 518 KLD; out of which 9 KLD of domestic wastewater discharged into soak-pit. Industrial effluent will be 509 KLD which will be treated in ETP and will be sent to RO and MEE to achieve zero liquid discharge.

(x) Power requirement 1500 kVA will be met from DGVCL. 1 no. of D.G. Set with capacity of 1000 kVA will be installed and used as standby during power failure. Stack (height 11 meters) will be provided as per CPCB norms to the proposed DG set.

(xi) Proposed unit will have boilers of 5 TPH (2 nos.) and Thermic Fluid Heater (10 lakhs kcal/hr.). Briquettes/Coal (30 T/day & 8 T/day) will be used as fuel. Boiler & TFH is connected with stacks of adequate stack height of 30 m & 21 m respectively.

(xii) Process emission will be from stack attached to reactors of Pretilachlor, Metalaxyl, MCA, CMAC, MPBD, Propargite for which alkali & soda ash scrubber will be used as APCM.

(xiii) Details of Solid waste/Hazardous waste generation and its management.

S. No.	Type of waste	Category as per HWM rules, 2016	Quantity	Method of Disposal
1.	ETP Sludge	35.3	50 MT/month	Collection, Storage, Transportation & Disposal at TSDF site approved by GPCB.
	MEE salt		190 MT/month	
2.	Process Residue	29.1	360 MT/month	Collection, Storage, incineration at CHWIF or send to cement industry for co-processing
3.	Spent catalyst	29.5	3.5 MT/month	Collection, Storage and Send for regeneration to suppliers.
4.	Discarded containers/ liners	33.1	Drum: 2500 Nos./month Liner: 1.5 MT/month	Being used for packing of ETP sludge; in case of excess, it will be sold to approved recycler or traders.
5.	Used Lubricating Oil	5.1	1.0 Kl/year	Collection, Storage, Transportation & disposal by selling to Registered Recyclers
6.	Distillation residue	20.3	10 MT/month	Collection, storage, transportation and disposal at CHWIF site or send to cement industry for co-processing.

(xiv) Public Hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006.

(xv) Following are the list of proposed products:

S. No.	Products	Quantity (TPM)
A	**Herbicides**	
1.	Imazethapyr Technical	15
2.	Pendimethalin Technical	10
3.	Atrazine Technical	50
4.	Metribuzine Technical	20
5.	Glyphosate Technical	150
6.	Clodinafop-Propargyl Technical	20
7.	Pretilachlor Technical	50
8.	Paraquat Dichloride Technical	20
9.	2,-4, Dichlorophenoxy Acetic Acid	200
10.	Bispyribac Sodium	5
11.	Dicamba Technical	10
12.	Isoprothiolane Technical	10
13.	Oxyfluorfen Technical	10
B	**Fungicides**	
14.	Tricyclazole Technical	50
15.	Hexaconazole Technical	50
16.	Difenoconazole Technical	50
17.	Propiconazole Technical	50
18.	Myclobutanil Technical	15
19.	Thiophenate Methyl	50

20.	Tebuconazole Technical	50
21.	Mancozeb Technical	300
22.	Propineb Technical	50
C	**Insectisides**	
23.	Thiamethoxam Technical	100
24.	Buprofezin Technical	50
25.	Daifenthiuron Technical	50
26.	Imidacloprid Technical	100
27.	Fipronil Technical	100
28.	Chloropryiphos Technical	100
29.	Metalaxyl Technical	50
30.	Alpha Cypermethrin Technical	30
31.	Cypermethrin Technical	50
32.	Lambda Cyhalothrin Technical	50
33.	Novaluron	50
34.	Bifenthrin Technical	50
D	**Other Pesticides**	
35.	Abamectin Technical	50
36.	Emamectin Benzoate Technical	50
37.	Azoxystrobin Technical	50
38.	Deltamethrin Technical	20
39.	Acetamiprid Technical	25
40.	Trizophos Technical	30
41.	Propargite Technical	25
E	**Pesticide Intermediates**	
42.	Mono Chloro Acetic Acid	100
43.	IDA	100
44.	PMIDA	500
45.	CMAC	200
46.	MPBD	100
47.	CCMP	100
48.	Triazoles	50
	Total	**3415**

36.3.2.2 During deliberations, the EAC noted the following: -

The proposal is for environmental clearance to the project for manufacturing of Technical Grade Pesticides of total capacity 3415 TPM by M/s Dhanuka Agritech Limited in a total area of 151954.70 sqm at Plot No.D-3/1/A, Dahej-III Industrial Estate Taluka Vagra, District Bharuch (Gujarat).

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

The ToR for the project was granted on 25th September, 2017. Public hearing is exempted under the provisions as per Para 7 Stage III (3) (i) (b) of the EIA Notification, 2006, as plant is located in notified Industrial Estate.

Total water requirement is 731 m^3/day of which fresh water demand is 258 m^3/day and remaining 473 m^3/day shall be obtained from recycled/treated water. Fresh water shall be met from GIDC water supply.

Total effluent generated from different industrial operations is estimated to be 509 KLD. Out of it, high COD/TDS effluent of 411 KLD will be taken to the ETP-I followed by MEE and the remaining of 98 KLD to ETP-II followed by RO. Total treated water of 473 KLD (Condensate - 408 KLD, Permeate - 65 KLD) shall be reused within the plant premises. There will be no discharge of treated/untreated waste water from the unit, and thus conforming to Zero Liquid Discharge.

The EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. Issues raised during the public hearing have been duly addressed by the project proponent.

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

- *Total production of pesticides shall include manufacturing at least 25% of bio-pesticides.*
- *Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.*
- *As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.*
- *Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.*
- *National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.*
- *To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.*
- *Solvent management shall be carried out as follows:*
  - *(a) Reactor shall be connected to chilled brine condenser system.*
  - *(b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.*
  - *(c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.*
  - *(d) Solvents shall be stored in a separate space specified with all safety measures.*
  - *(e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.*
  - *(f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.*
  - *(g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.*
- *Total fresh water requirement shall not exceed 258 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.*
- *Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP followed by RO to meet the prescribed standards.*

- *Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.*
- *Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.*
- *Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.*
- *The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.*
- *Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided.*
- *The company shall undertake waste minimization measures as below:-*
  (a) Metering and control of quantities of active ingredients to minimize waste.
  (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  (c) Use of automated filling to minimize spillage.
  (d) Use of Close Feed system into batch reactors.
  (e) Venting equipment through vapour recovery system.
  (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- *The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.*
- *At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.*
- *For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.*
- *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.*
- *Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.*
- *Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.*

Agenda No.36.3.3

Proposed 60 KLPD Molasses Based Distillery along with 2.5 MW Co-Generation Power Plant by Dalmia Chini Mills Nigohi - Distillery Division (A Unit of Dalmia Bharat Sugar and Industries Limited) at Village Kuiyan, Post Areli, Tehsil Tilhar, District Shahjahanpur (Uttar Pradesh) - Environmental Clearance

[IA/UP/IND2/65427/2017, IA-J-11011/315/2017-IA-II(I)]

36.3.3.1 The project proponent and the accredited consultant J M.EnviroNet Pvt.Ltd, made a detailed presentation on the salient features of the project and informed that:

(i) The proposal is for environmental clearance to the project 60 KLPD Molasses based Distillery along with 2.5 MW Co-Generation Power Plant at Village Kuiyan, Post Areli, Tehsil Tilhar, District Shahjahanpur (Uttar Pradesh) by M/s. Dalmia Chini Mills Nigohi-Distillery Division (A unit of Dalmia Bharat Sugar and Industries Limited).

(ii) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 26th Meeting held during 27th to 28th July, 2017 and recommended Terms of References (ToR) for the Project. The ToR has been issued by Ministry vide letter No. IA-J-11011/315/2017-IA-II(I) dated 23rd August, 2017.

(iii) All molasses based distilleries are listed at S.N. 5(g) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

(iv) Total land area is 45000 m^2 (4.5 Hectares) and the same is under the possession of the company. It is proposed to develop greenbelt in an area of 33 % i.e., 14500 m^2 (1.45 ha) out of total area of the project.

(v) The estimated project cost is Rs.65 Crores. Total capital cost earmarked for pollution control measures is Rs.25 Crores and the recurring cost (operation and maintenance) will be about Rs.1 Crores per annum. Total Employment will be 60 persons as direct & approximate 100 persons indirect after installation. It is proposed to allocate Rs.325 lakhs @ 5.0 % towards Corporate Social Responsibility.

(vi) There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance from the project site. River Kaimua is flowing at a distance of 2.9 km in WNW direction, River Barah is flowing at a distance of 3.0 km in East direction, River Barahi is flowing at a distance of 6.0 km in ESE direction, River Deoha/Garra is flowing at a distance of 6.8 km in SSW direction, River Katna is flowing at a distance of 7.5 km in West direction, Nigohi branch is flowing at a distance of 0.1 km in South direction, Tisango Nala is flowing at a distance of 5.5 km in SW direction, Khandni Nala is flowing at a distance of 7.0 km in NNE direction, Kalmua nala is flowing at a distance of 6.8 km in NNE direction, Beor Distributary is flowing at a distance of 5.0 km in ENE direction, Sakaria Nala is flowing at a distance of 7.2 km in ENE direction.

(vii) Ambient air quality monitoring was carried out at 8 locations during October to December, 2017 and the baseline data indicates the ranges of concentrations as: PM_{10} (54.6 - 92.4 $\mu g/m^3$), $PM_{2.5}$ (21.8 -42.9 $\mu g/m^3$), SO_2 (6.7 - 15.9 $\mu g/m^3$) and NO_2 (14.5 - 24.9 $\mu g/m^3$) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.11 $\mu g/m^3$, 1.48 $\mu g/m^3$ and 2.35 $\mu g/m^3$ with respect to PM_{10}, SO_2 and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

(viii) Total water requirement for first run is 1441 m^3/day of which fresh water requirement of 530 m^3/day will be met from groundwater.

(ix) Effluent generated will be treated through state of the art Condensate Polishing Unit/Reverse Osmosis technology and reused/recycle in process itself. The plant will be based on Zero Liquid discharge system.

(x) Power requirement for the project will be 1.5 MW and will be met from proposed 2.5 MW co-generation power plant. Proposed unit will have 1 DG set of 1000 kVA capacity and will be used for emergency power backup. Stack (height 10 m above roof) will be provided as per CPCB norms to the proposed DG sets.

(xi) Proposed unit will have 24 TPH (Incineration boiler) concentrated spent wash and bagasse/biomass/coal fired boiler. Electrostatic precipitator with a stack of height 65 m will be installed for controlling the Particulate emissions (as per CPCB guidelines) for the proposed boiler 24 TPH.

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

(a) Electrostatic Precipitator along with proper stack height (65 m) will be installed with the proposed boiler (24 TPH).
(b) CO_2 will be collected and sold to authorized vendors.
(c) Online stack monitoring system will be installed.

(xiii) Details of Solid waste/ Hazardous waste generation and its management:

a) Conc. Spent wash generated during molasses operation, will be concentrated in Multi-effect evaporator and then used as fuel in boiler.
b) Fly ash from the boiler will be utilized as manure due to rich potash content or sold to fertilizer manufacturers also.
c) Filtered sludge will be mixed with press mud for manufacturing organic manure (bio-composting).
d) Used oil & grease generated from plant machinery/gear boxes as hazardous waste will be completely burnt in incinerator boiler/ sold out to the CPCB authorized recyclers.

(xiv) Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 20th February, 2018. The main issues raised during the public hearing are related to employment, social improvement and expected environmental pollution due to proposed project etc. All these issued were duly addressed and details are available in EIA report.

(xv) The details of products and capacity as under: -

S. No.	Units	Products details	Total quantity
1.	Molasses based distillery	Ethanol/ENA/RS/Impure alcohol	60 KLPD
2.	Co-Generation Power Plant (Incineration based)	Power & steam	2.5 MW

36.3.3.2 During deliberations, the EAC noted the following: -

The proposal is for environmental clearance to the project for Molasses based Distillery of 60 KLPD by M/s Dalmia Chini Mills Nigohi-Distillery Division (A unit of Dalmia Bharat Sugar and Industries Limited) in a total area of 4.5 ha at Village Kuiyan, Post Areli, Tehsil Tilhar, District Shahjahanpur (UP). Raw materials, molasses and bagasse for the proposed distillery & cogeneration power plant of 2.5 MW will be sourced from their own sugar plant of capacity 10,000 TCD (reported to have been established prior to the inception of the EIA Notification, 2006).

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

The ToR for the project was granted on 23rd August, 2017 and public hearing was conducted by the SPCB on 20th February, 2018.

Total water requirement for first run is estimated to be 1441 cum/day, out of which fresh water demand of 530 cum/day is proposed to be met from ground water. The same has been committed to be reduced to 1411 cum/day for first run and 360 cum/day for successive operations (6 KL/KL of alcohol). The project proponent has submitted the proposal to the State Ground Water Board on 22nd January, 2018 for permission for withdrawal of ground water of 530 KLD.

Total effluent shall be treated in the state of the art Condensate Polishing Unit/Reverse Osmosis technology. The treated water of 1051 KLD shall be used in the process. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

The EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. Issues raised during the public hearing have been duly addressed by the project proponent

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

- *Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.*
- *As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.*
- *Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.*
- *To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.*
- *Total fresh water requirement shall not exceed 360 cum/day proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.*
- *Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP followed by RO to meet the prescribed standards.*
- *Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.*
- *Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.*
- *Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.*
- *The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.*
- *The company shall undertake waste minimization measures as below:-*
  a) Metering and control of quantities of active ingredients to minimize waste.

b) *Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.*
c) *Use of automated filling to minimize spillage.*
d) *Use of Close Feed system into batch reactors.*
e) *Venting equipment through vapour recovery system.*
f) *Use of high pressure hoses for equipment clearing to reduce wastewater generation.*

- *The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly least 2.5% along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.*
- *All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented.*
- *At 5% of the total project cost shall be allocated for Enterprise Social Commitment based on public hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.*
- *For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.*
- *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.*
- *Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.*
- *There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.*
- *Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.*
- *Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.*
- *CO_2 generated from the process shall be bottled and sold to authorized vendors.*

Agenda No.36.3.4

Proposed Bulk Drug and Bulk Drug Intermediates Manufacturing Unit by M/s Vasoya Industries Pvt Ltd at Plot No. A2/N-59, Eakta Industrial Estate, Tempa Gali, N.H.8, Pipodara, Taluka Mangrol, District Surat (Gujarat)- Environmental Clearance

[IA/GJ/IND2/62304/2017, IA-J-11011/34/2017-IA-II(I)]

36.3.4.1 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 Proposed APIs & API Intermediates (25 MT/Month) manufacturing unit of M/s Vasoya Industries Pvt.Ltd.

(ii) All Products 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) Proposed land area is 800 m^2. Industry will be developed Greenbelt in an area of 30 % i.e. 240 m^2 out of 800 m^2 of area of the project. The estimated proposed project cost is Rs.800 lakhs. Capital cost of air & water pollution control system and environmental monitoring equipments will be Rs.107.65 lakhs. Industry purposes to allocate Rs. 25 Lakh towards Corporate Social Responsibility.

(iv) It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.

(v) Ambient air quality monitoring is carried out at 9 locations during March 1, 2017 to May 31, 2017. The dispersion of pollutants in the atmosphere is a function of several meteorological parameters viz. temperature, wind speed and direction, mixing depths, inversion level, etc. The ambient air samples were collected and analyzed for Particulate Matter (PM_{10}), Particulate Matter ($PM_{2.5}$), Sulphur Dioxide (SO_2), Oxides of Nitrogen (NOx), Ozone (O_3), Lead (Pb), Carbon Monoxide (CO), Ammonia (NH_3), Benzene (C_6H_6), Benzo (a) Pyrene (BaP), Arsenic (AS), HC, & VOCs were monitored at site and nearby villages for identification, prediction, evaluation and assessment of potential impact on ambient air environment. The PM_{10} values at all the locations in residential/rural areas ranged between 74.14 – 87.23 $\mu g/m^3$ respectively in pre-monsoon season. Similarly, the values of $PM_{2.5}$ varied in the range of 45.21 – 55.79 $\mu g/m^3$. The PM_{10} and $PM_{2.5}$ concentrations at all the AAQM locations were primarily caused by local phenomena including vehicular activities and natural dust getting air borne due to manmade activities and blowing wind. The values of NO_x at all the locations in residential/rural areas were observed to be in the range of 18.78 – 23.26 $\mu g/m^3$. The values of SO_2 at all the locations in residential/rural areas ranged between 15.33 – 21.25 $\mu g/m^3$. The values of O_3 at all the locations in residential/rural areas ranged between 11.6 – 17.8 $\mu g/m^3$. At all the air quality monitoring locations in residential/rural areas, the values of NOx, SO_2 & O_3 were observed to be within limits. The values of CO at all the locations in residential/rural areas ranged between 1.20 – 1.28 mg/m^3. The values of NH_3 at all the locations in residential/rural areas range BDL. The values of VOCs at all the locations in residential/rural areas ranged between 0.5 – 1.1 ppm.

(vi) Total water requirement will be 33.5 m^3/day of which met through ground water supply. Fresh water will be 33.5 m^3/day.

(vii) The effluent will be treated in ETP consists of primary treatment then it will be sent to common MEE of M/s. ACPTCL, Ankleshwar for further treatment and disposal.

Total water requirement will be 33.5 m^3/day which is met through ground water supply. The waste water generations will 21.6 m^3/day. The effluent will be treated in ETP consists of primary treatment then it will be sent to common MEE of M/s. ACPTCL, Ankleshwar for further treatment and disposal. Domestic Waste water will be disposed by septic tank & soak pit.

(viii) Power requirement: Power required from DGVCL is 150 KVA. Power supply from D.G. set 150 KVA (It will be kept for emergency power back up)

(ix) Proposed 1 Nos. of Boiler (1.5 MT/Hr) and 1 No. of D.G.Set (150 KVA) will be installed. Adequate stack of height of 15 m and 8 m will be controlling the Particulates Matter (PM), SO_2 and Nox emissions.

(x) Details of Process gas emissions generation and its management

Unit will be 2 Nos. of Reaction Vessel [(1/R-101 2/R-202 & 3/R-303)] installed Proposed Process gas emission. Scrubber with a stack of height of 11 m is installed for controlling NH_3 and HCl .

(xi) Details of Solid waste / Hazardous waste generation and its management.

S. No.	Name of waste	Category	Total (MT/Year)	Mode of Disposal
1	Spent/ Waste/ used oil	Schedule –I /5.1	0.1 KL/Month	Collection, Storage Transportation & Disposal to registered re-processor /Refiners.
2	Process/ Distillation residue	Schedule – I/28.1	1.5 MT/ Month	Collection, Storage Transportation and given for incineration/ co-processing.
3	Spent Carbon	Schedule – I/28.2	1.0 MT/ Month	Collection, Storage, Transportation & co-processing in cement industries or Disposal to Common TSDF site of M/s. SEPPL or M/s BEIL, Ankleshwar.
4	Spent Catalyst	Schedule-I/28.3	1.0 MT/ Month	Collection, Storage, Transportation & Disposal by co-processing in cement industries or to Common Incinerator site, M/s. SEPPL or M/s BEIL.
5	Off specification Products	Schedule-I/28.4	0.01 MT/ Year	
6	Date Expired, Discarded and off-specification drugs/ medicines	Schedule/ 28.5	0.01 MT/ Year	
7	Spent Organic Solvent	Schedule-I/28.6	5 MT/ Month	Collection, Storage Transportation and given for recovery or to end user.
8	Discarded Containers/ Barrels	Schedule-I/ 33.1	100 nos/ Month	Collection, Storage, Decontamination and given to authorized vendors.
	Liners		0.2 MT/ Month	
	Fiber Board Drums		50 KG/ Month	

(xii) Public Hearing for the proposed project has been conducted by the State Pollution Control Board. Public Hearing has been conducted on 20/02/2018 at 12:00 PM at Project Site, i.e Plot No.A2/N-59,Eakta Industrial Estate, Tempa Gali, Village :Pipodara, Tal: Mangrol, Dist: Surat for the Proposed Project.

(xiii) Following are the list of proposed products:

S. No.	NAME OF PRODUCTS	DRUG TYPE	CAS NO.	LD50/LC50 mg/kg	PROPOSED QUANTITY (MT/Month)
Group A (APIs)					
1	Eslicarbazepine Acetate	Anti -Epiletic	236395-14-5	3200	
2	Oxcarbazepine	Anti -Epiletic	28721-07-5	1240	
3	Dapoxetine Hydrochloride	Anti-Depressant	129938-20-1	500	
4	Dobutamine	Cardiac Drug	49745-95-1	2296	

	Hydrochloride				
5	Edaravone	Anti Oxidant	89-25-8	1915	
6	Flupirtine Maleate	Anti Parkinsonian Agent	75507-68-5	1660	
7	Topiramate	Anti-Convulsant	97240-79-4	1500	
8	Levosulpirride	Antagonist	23672-07-3	2600	
9	Metaxalone	Muscle Relaxant	1665-48-1	1690	10
10	Metoprolol Succinate	Anti Hypertensive	207983-04-8	2000	
11	Modafinil	Cns Stimulant	68693-11-8	64	
12	Dexmethylphenidate	Cns Stimulant	19262-68-1	500	
13	Quetiapine Fumarate	Anti Psychotic	111974-72-2	3.53	
14	Carbamazepine	Epilepsy	298-46-4	1957	
15	Rivaroxaban	Anti coangulant	366789-02-8	3200	
16	Betahistine dihydrochloride	Anti-vertigo	5579-84-0	3200	
17	Flurbiprofen	Anti Inflammatory	5104-49-4	117	
18	Aripiperazole	Bipolar Disorder	129722-12-9	953	
Group-B (API Intermediates)					
19	N-(2-methyl-5-nitrophenyl)guanidine Nitrate		152460-08-7	3200	
20	3-dimethylamino-l-pyridin-3-ylpropenone		55314-16-4	NA	
21	(2-methyl-5-nitrophenyl)-(4-pyridin-3-ylpyrimidin-2-yl)amine		152460-09-8	NA	
22	1-(2-(2-Hydroxyethoxy)ethyl piperazine (HEEP)		13349-82-1	NA	
23	3-(Di methyl amino)propiophenone hydrochloride		879-72-1	100	
24	N,N-Dimethyl-3-phenyl-3-hydroxypropylamine		60577-28-8		15
25	N,N-Dimethyl-3-(2-methylphenoxy)-3-phenylpropylamine oxalate		83015-25-2	NA	
26	3-Di methylamino-1-(2-thienyl)-1-propanone hydrochloride		5424-47-5	NA	
27	N,N-Dimethyl-3-hydroxy-3-(2-thienyl)-1-propylamide		13636-02-7	NA	
28	N,N-Dimethyl-3-(1-naphthoxy)-3-(2-thienyl)-1-propylamine oxalate		116817-12-0	NA	
29	10-Methoxy Iminostilbene		4698-11-7	3200	
	Total				25

36.4.3.2 During deliberations on the proposal, the EAC noted the following:

The proposal is for environmental clearance to the project 'Bulk Drug and Bulk Drug Intermediates Manufacturing Unit' of total capacity 25 TPM by M/s Vasoya Industries Pvt Ltd in

a total area of 800 sqm at Plot No.A2/N-59, Eakta Industrial Estate, Tempa Gali, N.H.8, Pipodara, Taluka Mangrol, District Surat (Gujarat).

The project/activity is covered under category A of item 5(f) 'Synthetic organic chemicals industry' of the Schedule to the Environmental Impact Assessment Notification, 2006, and requires appraisal at Central level by the sectoral EAC in the Ministry.

The ToR for the project was granted on 29th April, 2017. Public hearing was conducted by the SPCB on 20th February, 2018.
Total fresh water requirement is estimated to be 33.5 cum/day and shall be met from ground water. Total effluent generated from different industrial operations is estimated to be 21.6 cum/day, which will be taken to the Effluent Treatment plant followed by common MEE of M/s ACPTCL, Ankleshwar for further treatment and disposal.

The EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. Issues raised during the public hearing have been duly addressed by the project proponent.

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

- *Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.*
- *Effluent treatment of 21.6 cum/day, shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, to take it to the Effluent Treatment plant followed by common MEE of M/s ACPTCL, Ankleshwar for further treatment and disposal.*
- *Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.*
- *National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.*
- *To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.*
- *Solvent management shall be carried out as follows:*
  - *(a) Reactor shall be connected to chilled brine condenser system.*
  - *(b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.*
  - *(c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 98% recovery.*
  - *(d) Solvents shall be stored in a separate space specified with all safety measures.*
  - *(e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.*
  - *(f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.*
  - *(g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.*
- *Total fresh water requirement shall not exceed 33.5 cum/day* to be met from ground water through bore wells. *Prior permission in this regard shall be obtained from the concerned regulatory authority/CGWA.*
- *Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.*

- *Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.*
- *Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.*
- *The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.*
- *The company shall undertake waste minimization measures as below:-*
  (i) Metering and control of quantities of active ingredients to minimize waste.
  (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  (iii) Use of automated filling to minimize spillage.
  (iv) Use of Close Feed system into batch reactors.
  (v) Venting equipment through vapour recovery system.
  (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- *The green belt of at least 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.*
- *All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented.*
- *At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.*
- *For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.*
- *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.*
- *Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.*
- *Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.*
- *Continuous online (24X7) monitoring system for stack emissions and the effluent, shall be installed for measurement of flow/discharge and the pollutants concentration, and the emission and effluent monitoring data to be transmitted to the CPCB and SPCB server as per the directions of CPCB in this regard.*
- *The energy sources for lighting purposes shall preferably be LED based.*

Agenda No.36.3.5

Proposed pesticide technical & intermediates unit of M/s Greentec Chemicals Pvt Ltd at Plot No.D-2/11/B/3/2, GIDC Dahej-II, Dahej-392 130, Taluka Vagra, District Bharuch (Gujarat) - Environmental Clearance

[IA/GJ/IND2/67796/2017, IA-J-11011/437/2017-IA-II(I)]

36.3.5.1 The project proponent and the accredited Consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd. made a detailed presentation on the salient features of the project and informed that:

(i) The proposal is for proposed Pesticides, Pesticide Specific Intermediates @ 7505 MT/Month & Pesticide Formulations @ 11775 MT/Month, By-Products @ 11942 MT/Month &

Bottling Plant @ 12185000 Nos./Month by M/s. Greentec Chemicals Pvt. Ltd. and located at Plot No. D-2/11/B/3/2, GIDC, Dahej-II, Taluka: Vagra, District: Bharuch-392130 (Gujarat)

(ii) The project proposal was granted Standard ToR by the Expert Appraisal Committee (Industry-2) and recommended Standard Terms of References (ToR) for the Project. The ToR has been issued by Ministry vide letter No.IA-J-11011/437/2017-IA-II(I); dated 9th Dec, 2017.

(iii) All Products are listed at S.N. 5(b) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

(iv) Existing land area is 79,999 m^2 land will be used for proposed project. It is proposed to develop Greenbelt in an area of 33% i.e.25,600 (32%) sqm out of 79,999 m^2 of area of the project.

(v) The estimated project cost is Rs.101 Crores. Total capital cost earmarked for pollution control measures is Rs.8.0 Crores and the recurring cost (operation and maintenance) will be about Rs.80 lakhs per annum. Total Employment will be 500 persons as direct & indirect for new project. Industry proposes to allocate Rs.2.5 Crores (approx.) in next 5 years @ 2.5% towards Corporate Social Responsibility.

(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.

(vii) Ambient air quality monitoring was carried out at 8 locations during March, 2017 to May, 2017 and submitted baseline data indicates that ranges of concentrations of PM_{10} (72.5-81.2 µg/m^3), $PM_{2.5}$ (40.65-45.99 µg/m^3), SO_2 (11.97-17.29 µg/m^3) and NO_2 (14.06-18.36 µg/m^3) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.33 µg/m^3, 0.98 µg/m^3 and 0.05 µg/m^3 with respect to PM10, SOx and NOx. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

(viii) Total water requirement is 1750 m^3/day of which fresh water requirement of 1100 m^3/day and will be met from GIDC Water Supply.

(ix) The wastewater generation for proposed project will be 792 KL/day. Wastewater will be segregated in 3 different streams i.e.

a. High COD/High TDS = 632 KL/Day (It will be treated in ETP followed by Solvent stripper + MEE + ATFD ultimately the MEE Condensate i.e. 550 KL/Day will be sent to ETP for further treatment followed by RO)
b. Low COD/Low TDS Stream = 120 KL/Day (It will be treated in ETP followed by RO, where already MEE Condensate i.e. 550 KL/Day is mixed with Low COD/Low TDS Stream i.e. 120 KL/Day so Total 670 KL/Day in RO for further treatment, from where RO Permeate i.e. 500 KL/Day will be reused/recycled for Cooling, Scrubbing & Process & RO Reject i.e. 170 KL/Day is sent to MEE-2 for further treatment and MEE Condensate i.e. 150 KL/Day will be recycled back for further reuse)
c. Domestic = 40 KL/Day (It will be treated in STP and treated water will be reused for land irrigation/gardening)

(x) Power requirement for proposed project will be 7500 KVA and will be met from DGVCL. State power distribution corporation limited (SPDCL). 3 Nos. DG sets of 1500 KVA capacity shall be used as standby during power failure. Stack (height 30 m) will be provided as per CPCB norms to the proposed DG sets of 1500 KVA*3 which will be used as standby during power failure.

(xi) Unit shall have 2 Nos. of 15 TPH Coal fired boiler will be installed. ESP with a stack of height of 30 m will be installed for controlling the Particulate emissions (within statutory limit of 150 mg/Nm^3) respectively.

(xii) Details of Process emissions generation and its management:

S. No.	Stack Attached to	Stack Height	Air Pollution Control System	Prescribed Standards
1	Boiler (15 TPH each) – 2 Nos.	30 m	ESP	PM $\leq$ 150 mg/Nm^3 $SO_2 \leq$ 100 ppm NOx $\leq$ 50 ppm
2	DG Sets (1500 KVA) – 3 Nos.	30 m	--	PM $\leq$ 150 mg/Nm^3 $SO_2 \leq$ 100 ppm NOx $\leq$ 50 ppm
3	Specialty Chloro Phenol Reaction Vessel	15 m	Two Stage Alkali Scrubber	HCl $\leq$ 20 mg/Nm^3
4	Herbicide	15 m	Two Stage Water + Alkali Scrubber, HBr Scrubber	HCl $\leq$ 20 mg/Nm^3 $SO_2 \leq$ 40 mg/Nm^3 HBr $\leq$ 5 mg/Nm^3
5	Fungicide	15 m	Two Stage Water + Alkali Scrubber	HCl $\leq$ 20 mg/Nm^3 $SO_2 \leq$ 40 mg/Nm^3 $CS_2 \leq$ 180 mg/Nm^3
6	Insecticide	15 m	Two Stage Water + Alkali Scrubber, HBr Scrubber	HCl $\leq$ 20 mg/Nm^3 $SO_2 \leq$ 40 mg/Nm^3 HBr $\leq$ 5 mg/Nm^3
7	Amino Compound Reaction Vessel	15 m	Two Stage Alkali Scrubber	HCl $\leq$ 20 mg/Nm^3
8	Nitro Plant	15 m	Two Stage Water + Alkali Scrubber	HCl $\leq$ 20 mg/Nm^3 $SO_2 \leq$ 40 mg/Nm^3
9	Mancozeb / Maneb Plant	15 m	Two Stage Alkali Scrubber	$H_2S \leq$ 45 mg/Nm^3 $CS_2 \leq$ 180 mg/Nm^3
10	Propineb / Zineb Plant, Dithio Carbamate preparation	15 m	Two Stage Water + Alkali Scrubber	$H_2S \leq$ 45 mg/Nm^3 $CS_2 \leq$ 180 mg/Nm^3 $NH_3 \leq$ 175 mg/Nm^3
11	Spray Dryer for Mancozeb Maneb Plant No. 1	31 m	Double Ventury scrubber	PM $\leq$ 150 mg/Nm^3
12	Spray Dryer for Mancozeb Maneb Plant No. 2	31 m	Double Ventury scrubber	PM $\leq$ 150 mg/Nm^3
13	Spray Dryer for Propineb and Zineb Plant	31 m	Double Ventury scrubber	PM $\leq$ 150 mg/Nm^3

(xiii) Details of Solid waste/ Hazardous waste generation and its management.

Thirty Two Categories of Hazardous/Solid Wastes shall be generated from this Unit. ETP Sludge @ 300 MT/Month, Salt from MEE @ 100 MT/Month, Process Inorganic Salt @ 150 MT/Month will be Collected, Stored, Transported and Disposed at Nearest TSDF. Process Waste Sludge (Iron Sludge and residual process salt) @ 550 MT/Month will be Collected, Stored, Transported and Disposed at Nearest TSDF or Co-Processing in Cement Industries. Used Oil @ 2000 Lit./Month will be Collected, Stored, Transported and Sold to authorized recyclers. Discarded liners / Bags Carboy Drums @ 10 MT/Month will be Collected, Stored,

Transported, Decontaminated and Sold to authorized recyclers. Distillation Residue @ 50 MT/Month, Spent Carbon @ 5 MT/Month will be Collected, Stored, Transported and Sent to Cement Industries for Co-processing or Incineration at Common Incineration Site. Fly Ash @ 6000 MT/Month will be Collected, Stored, Transported and Sold to Brick Manufacturers. Cu(OH)2 Powder @ 2 MT/Month, Aluminium Chloride 20 – 30 % Solution @ 1500 MT/Month will be Collected in HDPE tank, Evaporated in Plant and Sold to Dyes industry. Ammonium Chloride Salt @ 500 MT/Month will be collected in woven sag bags, Sold to licensed factories and after purification used. Ammonium Sulphate 25 % Solution & Salt @ 1500 MT/Month will be Collected in HDPE tank and Sold to fertilizer industry. Formic Acid @ 50 MT/Month will be Collected in HDPE tank and Sold to formulation industry. HBr Solution @ 2000 MT/Month will be Collected in HDPE tank and Sold to Dyes industry or In-House Bromine Recovery. Hydrochloric Acid (30%) @ 200 MT/Month will be Collected in HDPE tank and Sold to Dyes/Calcium Chloride industry. KCl Powder @ 130 MT/Month will be Collected in woven sag bags and Sold to agro chemical industry. Manganese Carbonate (MnCO3) @ 980 MT/Month will be collected in woven sag bags, Sold to agro chemical industry which converts it to MnSO4 soln. and use. NH4Cl Powder @ 250 MT/Month, Potassium Bromide @ 215 MT/Month will be collected in HDPE tanks and Sold to Dyes industry or recycle in agro chemical industry. Potassium Bicarbonate @ 500 MT/Month will be collected in woven sag bags, Sold to agro chemical industry which converts it to KCl and use. Potassium Bromide 20 % Solution & Salt @ 175 MT/Month will be collected in HDPE tanks, after Bromine Recovery Recycled to agro chemical industry. Potassium Chloride 20 % Solution & Salt @ 300 MT/Month, Potassium Fluoride 20 % Solution & Salt @ 250 MT/Month, Sodium Bi Sulphite 20 % Solution & Salt @ 400 MT/Month, Sodium Bromide 20 % Solution & Salt @ 150 MT/Month, Sodium Bromide 20 % Solution & Salt 95 % @ 100 MT/Month, Sodium Fluoride 20 % Solution & Salt @ 100 MT/Month will be collected in HDPE tank, Evaporation to Powder and Sold to Dyes industry/recycle in agro chemical industry. Recovered Solvent @ 40 MT/Month will be Stored in MS/SS tanks, Purification in plant and Residue sent in drums to nearest TSDF for incineration. Sodium Sulfite Powder @ 550 MT/Month, Sodium Sulphate (Na2SO4) @ 2000 MT/Month will be collected in woven sag bags and Sold to Dyes/textile/washing powder industry. Spent Acid @ 50 MT/Month will be Collected in HDPE tanks, Neutralized in factory and Sent to nearest TSDF for land filling or Sold to converting Sulphate salt industry.

(xiv) Public Hearing is exempted for this project as this project is located in Notified Industrial Estate of Dahej GIDC (Covered under PCPIR Region)

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

	Group -I Herbicides			
No.	**Name**	**Capacity (MT/Month)**	**CAS number**	**LD50 (mg/kg)**
1	Pendimethalin	350	40487-42-1	1050 mg/kg
2	2,4 Di Chloro phenoxy Acetic Acid		94-75-7	375 mg/kg
3	Glyphosate Tech and its Intermediates Volume		1071-83-6	5600 mg/kg
	TOTAL	**350**		
4	Aciflurofen	50	50594-66-6	1370 mg/kg
5	Aclonifen		74070-46-5	5628 mg/kg
6	Bispyribac		125401-75-4	41110 mg/kg
7	Carfentrazone		128621-72-7	-
8	Clethodine		99129-21-2	> 500 mg/kg

9	ClodinafopPropargyl		105512-06-9	1.392 mg/kg
10	Dicamba		1918-00-9	1.039 mg/kg
11	Picolinafen		137641-05-5	> 5,000 mg/kg
12	Diclofopmethyl		51338-27-3	>2000 mg/kg
13	Fenoxaprop P Ethyl		66441-23-4	2357 mg/kg
14	Fluazifop P Butyl		79241-46-6	>5000 mg/kg
15	Haloxyfop Methyl		69806-40-2	1.320 - 6.690 mg/kg
16	Napropamide		15299-99-7	>5000 mg/kg
17	CloquintocetMexyl		99607-70-2	1.320 - 6.690 mg/kg
18	Ethofumesate		2625-79-6	1440 mg/kg
19	Lactofen		77501-63-4	1289 mg/kg
20	Fomesafen		72178-02-0	1250-2000mg/kg
21	Halosafen		77227-69-1	-
22	Chlomethoxyfen		32861-85-1	18 gm/kg
23	Fluoroglycofen		77501-90-7	>2000mg/kg
24	ChlorazifopPropargyl		76120-02-0	-
25	Oxyflurofen		42874-03-3	>5000 mg/kg
26	Cyhalofop Butyl		122008-85-9	300 mg/kg
27	FluroxypyrMeptyl		81406-37-3	>5000 mg/kg
28	Pichloram		1918-02-1	4,200 mg/kg
29	Pretilachlor		81690-06-4	6099 mg/kg
30	Metamitron		41394-05-2	2000 mg/kg
31	Metribuzine		21087-64-9	1865 mg/kg
32	HaloxyfopEthoxy Ethyl		87237-48-7	1.320 - 6.690
33	Metamifop		256412-89-2	300 mg/kg
34	Quizalofop P Tefuryl		119738-06-6	300 mg/kg
35	Quizalofop Ethyl		76578-14-8	1.480 mg/kg
36	Sulfentrazone		122836-35-5	1750 mg/kg
37	Thiamethoxam		153719-23-4	> 5000 mg/kg

38	TriclopirButotyl		64700-56-7	1,400 mg/kg
	TOTAL	**50**		
	Group -II Fungicides			
39	AzoxyStrobin	50	131860-33-8	> 2000 mg/kg
40	Kresoxim Methyl		143390-89-0	> 2000 mg/kg
41	Cymoxanil		57966-95-7	1200 mg/kg
42	Orysastrobin		248593-16-0	356 mg/kg
43	Picoxystrobin		117428-22-5	-
44	Triclopyricarb		902760-40-	-

			1	
45	Dimoxystrobin		149961-52-4	> 500 - < 2,000 mg/kg
46	Metominostrobin		133408-50-1	-
47	Fluoxastrobin		361377-29-9	>5000 mg/kg
48	FlufenoxyStrobin		918162-02-4	-
49	Pyraclostrobin		175013-18-0	5000 mg/kg
50	Trifluoxystrobin		141517-21-7	>5,050 mg/kg
51	Fenoxanil		115852-48-7	300 mg/kg
	TOTAL	**50**		
52	Thiafluzamide		130000-40-7	>6500 mg/kg
53	Boscalid		188425-85-6	1490 mg/kg
54	Cyazofamid	20	120116-88-3	> 5,000 mg/kg
55	Difenthuron		80060-09-9	1950 mg/kg
56	Dodine		2439-10-3	> 1500 mg/kg
	TOTAL	**20**		
57	Propineb	**400**	12071-83-9	300 mg/kg
58	Tricyclazole	**425**	41814-78-2	250 mg/kg
59	Mancozeb	**4000**	8018-01-7	>5000mg/kg
60	Maneb	**200**	12427-38-2	6750 mg/kg
61	Zineb	**200**	12122-67-7	1.850 mg/kg
62	Imazalil		3554-44-0	-
63	3 Methyl -1,2,4 Triazole		7170-01-6	300 mg/kg
64	Bromuconazole		116255-48-2	365 mg/kg
65	Azaconazole		60207-31-0	2730 mg/kg
66	Difenoconazole		119446-68-3	1453 mg/kg
67	Epoxiconazole		133855-98-8	5000 mg/kg
68	Etaconazole		84625-61-6	-
69	Hexaconazole	50	79983-71-4	> 2000 mg/kg
70	Penconazole		66246-88-6	2125 mg/kg
71	1,2,4 Triazole		288-88-0	1350 mg/kg
72	Tebuconazole		107534-96-3	3352 mg/kg
73	Fenfuconazole		114369-43-6	5628 mg/kg
74	Ipconazole		125225-28-7	1,338 mg/kg
75	Metconazole		125116-23-6	5.620 mg/kg

76	Tetraconazole		112281-77-3	1.248 mg/kg
77	Cyproconazole		94361-06-5	1020 mg/kg
78	Prothioconazole		178928-70-6	1.320 - 6.690 mg/kg
79	Fluquinconazole		136426-54-5	1.320 - 6.690 mg/kg
80	Myclobutanil		88671-89-0	2500.86 mg/kg
81	Propiconazole		60207-90-1	2105 mg/kg
82	Triadimenol		55219-65-3	700 mg/kg
83	Triadimefol		43121-43-3	2828 mg/kg
84	Triticonazole		131983-72-7	>2000 mg/kg
	TOTAL	**50**		
85	Quinoxyfen		124495-18-7	>2000 mg/kg
86	Clorothalanil		1897-45-6	10000mg/kg
87	Fluazinam	20	79622-59-6	1782 mg/kg
88	Famoxadone		131807-57-3	5800 mg/kg
89	Metalaxyl		57837-19-1	> 2000 mg/kg
90	Benalaxyl		71626-11-4	4.200 mg/kg
	TOTAL	**20**		
91	Propargite		2312-35-8	> 5.0 g/kg
92	Permethrin		52645-53-1	>500 mg/kg
93	Alphamethrin		67375-30-8	>5000 mg/kg
94	Cyfluthrin& Beta Isomers		68359-37-5	960 mg/kg
95	Sulfentrazone		122836-35-5	1750 mg/kg
96	Monocrotophos		6923-22-4	17-18 mg/kg
97	Lambda Cyhalothrin		91465-08-6	> 5000 mg/kg
98	Diethyl Phenyl Acetamide		2431-96-1	825 mg/kg
99	Fipronil		120068-37-3	97 mg/kg
100	Cyfluthrin		68359-37-5	84 – 380 mg/kg
101	TransFluthrin	50	118712-89-3	-
102	Zeta Cypermethrin		52315-97-08	-
103	Spirodiclofen		148477-71-8	> 2,000 mg/kg
104	Spiromesifen		283594-90-1	> 2,000 mg/kg
105	Tolfenpyrod		129558-76-5	386 mg/kg
106	Beta Cypermethrin		86753-92-6	166 mg/kg
107	Dichlorvos		62-73-7	56 mg/kg
108	Acetamaprid		160430-64-8	417 mg/kg

109	Chlorantraniliprole		500008-45-7	> 5000 mg/kg
110	Quinalphos		13593-03-8	300 mg/kg
111	Pyriproxypane		95737-68-1	> 5,000 mg/kg
112	Imidacloprid		138261-41-3	> 4,820 mg/kg
113	Transfluthrin		118712-89-3	-
114	Cypermethrin		52315-07-8	57.5 mg/kg
115	Bifenthrin		82657-04-3	153 mg/kg

116	Thiamethoxam		153719-23-4	1750 mg/kg
117	Deltamethrin		52918-63-5	>2,250 mg/kg
118	Triazophos		24017-47-8	2730 mg/kg
	TOTAL	**50**		
119	Acephate	**300**	30560-19-1	945 mg/kg
120	Profenofos	**300**	41198-08-7	358 mg/kg
121	Chloropyriphos	**300**	2921-88-2	222 mg/kg
122	3, 4'-Di Amino Di Phenyl Ether	50	2657-87-6	-
123	2- Amino-2'-Methyl Diphenyl Ether		3840-18-4	100 mg/kg
124	Amino Resorcine Di Ortho Cresyl Ether		--	5130 mg/kg
125	2-Amino Di Phenyl Ether		2688-84-8	--
126	4, 4'-Di Amino Di Phenyl Ether		101-80-4	685 mg/kg
127	4-Amino 4'Methyl Di Phenyl Ether		--	--
128	2-Amino 2', 4, 4'-Tri Chloro Di Phenyl Ether		--	--
129	4-Amino 2', 4' Di Chloro Di Phenyl Ether		14861-17-7	300 mg/kg
130	4-Amino Di Phenyl Ether		139-59-3	100 mg/kg
131	2 -Amino-2' , 4' Dichloro Diphenyl ether		56966-48-4	--
132	2-Amino-4-Chloro Di Phenyl Ether		93-67-4	--
133	4-Amino-2, 4'-Di Chloro Di Phenyl Ether		14861-17-7	300 mg/kg
134	2-Amino-4'-Chloro Di Phenyl Ether		93-67-4	--
135	2-Amino-4'-Chloro-4-Trifluoromethyl Di Phenyl Ether		349-20-2	--
136	4-Amino-4'-Chloro Di Phenyl Ether		101-79-1	--
137	1, 2-Bis 2-Amino Phenoxy Ethane		85233-19-8	--
138	1,2-Bis4-Amino Phenoxy Ethane		6052-10-4	--
139	4-Amino-4'-Nitro Diphenyl Ether		6149-33-3	980 mg/kg
140	2-Amino-2',4-Dichloro Diphenyl Ether		56966-48-4	--
141	2-Amino-4,4'-Dichloro Diphenyl Ether		121-27-7	--
142	2-4-Nitro Phenoxy Ethanol		16365-27-8	300 mg/kg
143	1,3-Bis(3-Amino Phenoxy) Benzene		10526-07-5	980 mg/kg
144	1,3-Bis(4-Amino Phenoxy) Benzene		2479-46-1	1240 mg/kg
145	1,4-Bis(4-Amino Phenoxy) Benzene		3491-12-1	--

146	5-Amino-2,2',3-Trichloro-4-Nitro-DiphenylEther		--	--
147	2-Amino-4,4'-Dichloro Diphenyl Ether-2'-Sulfonic Acid		42293-27-6	--
148	4,4'-Dihydroxy Diphenyl Ether		1965-09-9	--
149	2-Hydroxy-4,4'-Dichloro Diphenyl Ether		3380-30-1	--
150	2-Hydroxy-2,4,4'-Trichloro Diphenyl Ether		3380-34-5	5000 mg/kg
151	4-Hydroxy-2',4'-Dichloro Diphenyl Ether		--	--
152	1,2-Bis(2-Methyl Phenoxy) Ethane		--	--
153	1,2-Bis(3-Methyl Phenoxy) Ethane		54914-85-1	--
154	1,2-Bis(4-Methyl Phenoxy) Ethane		54914-85-1	--

155	4-Acetyl-3,4'-Dichloro Diphenyl ether		119851-28-4	--
156	2-Acetyl-2',4,4'-Trichloro Diphenyl Ether		--	
157	4,4' Dimethyl Diphenyl Ether		--	
158	4,4'-Dicarboxy Diphenyl Ether		2215-89-6	--
159	Diphenyl Ether		101-84-8	3370 mg/kg
160	4-Hydroxy Diphenyl Ether / 4-Phenoxy Phenol		831-82-3	--
161	5 Chloro-6-(2,3 DichloroPhenoxy)- 2-Methylthio -1H Benzimidazole /Triclabendazole		68786-66-3	> 8 g/kg
162	3,4' Dimethyl Diphenyl Ether		--	--
163	3 - Phenoxy Toluene		3586-14-9	2509 mg/kg
164	Anisole		100-66-3	3.700 mg/kg
165	2,3 Dichloro Anisole		1984-59-4	--
166	2,5 Dichloro Anisole		1984-59-4	--
167	2, 3 - Dichloro phenol		576-24-9	2376 mg/kg
168	2, 5-Dichloro Phenol		583-78-8	946 mg/kg
169	3, 4- Dichloro Phenol		95-77-2	1685 mg/kg
170	3, 5-Dichloro Phenol		591-35-5	2389 mg/kg
171	4-Bromo-2-Chloro Phenol		3964-56-5	--
172	4-Bromo 2,5 Dichloro Phenol		1940-42-7	300 mg/kg
173	4-Fluoro Phenol		371-41-5	293 mg/kg
174	2 - Fluoro Phenol		367-12-4	5628 mg/kg
175	O -Benzyl-p-Chloro Phenol		120-32-1	65 mg/kg
176	O-Cyano Phenol		611-20-1	--
177	3-Mehtyl Phenol		108-39-4	242 mg/kg
178	3-Chloro Phenol		108-43-0	570 mg/kg
179	3-Nitro Phenol		554-84-7	328 mg/kg
180	4-(2-Methoxy Ethyl) Phenol		56718-71-9	--
181	P- Chloro - m-Cresol		59-50-7	1.830 mg/kg
182	P-Chloro-m-Xylenol		88-04-0	3830 mg/kg
183	Dichloro-m-Xylenol		133-53-9	--

184	Dichlorophene		97-23-4	1,506 mg/kg
185	Bromochlorophene		15435-29-7	3700 mg/kg
186	5-Chloro-2-Amino Phenol		--	--
187	4-Chloro-2-Amino Phenol		95-85-*2*	1030 mg/kg
188	4,6- Dichloro - 2-Amino Phenol		527-62-8	--
189	3,4,5 Tri Methoxy Toluene		6443-69-2	--
190	4 – Bromoanisole		104-92-7	2,200 mg/kg
191	Amino Benzene Sulfonate		--	--
192	3- Amino 4-Methyl Benzoic Acid Isopropyl Ester		21447-47-2	--
193	Benzene Sulphonic Acid 2-Methyl-5-Nitrophenyl Ester		--	--

194	5-Amino-2-Methyl Benzene Sulphonic Acid Phenyl Ester		--	--
195	Benzene Sulphonic Acid 3-Amino Phenyl Ester		--	--
196	2-Cyano-3,4,5,6-Tetrachloro Benzoic Acid Methyl Ester		--	--
197	3- Amino 4 -Methyl Benzoic Acid		--	
198	3- Amino - 4 Methyl Benzoic Acid Methyl Ester		--	
199	3 - Amino - 4 - Methyl Benzoic Acid		2458-12-0	--
200	3-Amino-4-Chloro Benzotrifluoride		121-50-6	--
201	3-Amino Benzotrifluoride		98-16-8	480 mg/kg
202	3,4-Diamino Toluene		496-72-0	--
203	2,3-Dichloro Aniline		608-27-5	250 mg/kg
204	2, 5-Dichloro Aniline		95-82-9	1600 mg/kg
205	3, 4-Dichloro Aniline		95-76-1	815 mg/kg
206	3, 5-Dichloro Aniline		626-43-7	--
207	3-Iso Propoxy Aniline		41406-00-2	--
208	2-Chloro-1,4-Phenylene Diamine		615-66-7	150 mg/kg
209	2, 5-Dichloro-1, 4-Phenylene Diamine		6393-01-7	--
210	2-Chloro-5-Methyl-1, 4-Phenylene Diamine		5307-03-9	--
211	2, 5-Dimethyl-1, 4-Phenylene Diamine		6393-01-7	--
212	2,4-Dichlorobuterophenone		--	--
213	6-Methyl-5-Amino Benzimidazolone		67014-36-2	--
214	2,4,5 Tri Chloro Aniline		636-30-6	--
215	2, 4-Dichloro Acetophenone		937-20-*2*	--
216	2, 5-Dichloro Acetophenone		2476-37-1	--
217	4-Fluoro Acetophenone		403-29-2	--
218	2,4-Dichloro-5-Fluoro Acetophenone		704-10-9	> 2000 mg/kg
219	4-Fluoro Phenacyl Chloride		403-26-2	--
220	2,4-Dichloro Phenacyl Chloride		4252-78-*2*	--
221	5-Amino Benzimidazol -2-One		--	--
222	4-Nitro-2,5-Dichloro Aniline		--	1500 mg/kg
223	2-Nitro-4-Methyl Aniline		89-62-3	--

224	4-Nitro-2,5-Dimethyl Aniline		--	--
225	4-Nitro-5-Chloro-2-Methyl Aniline		--	--
226	6-Nitro-3,4-Dichloro Aniline		--	--
227	5-Nitro Salicylic Acid		96-97-9	--
228	3-Nitro-Para Toluic Acid		96-98-0	--
229	3-Nitro-4-Chloro-Benzotrifluoride		121-17-5	1075 mg/kg
230	PCl3		7719-12-2	18 mg/kg
231	4-Nitro-2,3-Dichloro Phenol		--	--

232	4-Nitro-2,5-Dichloro Phenol		5847-57-4	--
233	6-Nitro-2,4-Dichloro Phenol		609-89-2	300 - 2000 mg/kg.
234	2-Nitro-4-Chloro-Phenol		89-64-5	--
	TOTAL	**50**		
235	DMPAT	**500**	17321-47-0	980 mg/kg
236	3,4-Dichloro Aniline	20	95-76-1	545 mg/kg
237	2-Amino Diphenyl Ether		2688-84-8	--
238	3, 5- Dichloro Aniline		626-43-7	--
239	2,3 Dichloro Aniline		608-27-5	250 mg/kg
240	2,5 Dichloro Aniline		95-82-9	1600 mg/kg
	TOTAL	**20**		
241	Phenofen	20	--	--
242	Resorcinol Di (Beta-Hydroxy Ethyl) Ether		--	--
243	Formulated 2-Hydroxy-4-4 DichloroDiphenyl Ether		--	--
	TOTAL	**20**		
244	Metaphenoxybenzyl Alcohol	200	13826-35-2	1496 mg/kg
245	Meta phenoxyBenzaldehyde		39515-51-0	1222 mg/kg
246	1R Hightrans CMA		52314-67-7	--
247	HydroxyBenzo Furan		4790-80-1	--
248	m-Bromo Anisole		2398-37-0	--
249	m-Bromo Nitrobenzene		586-78-7	--
250	m - PhenoxyBenzaldehyde		67-36-7	--
251	DV Acid Chloride		52314-67-7	--
252	High Trans CMA and CMAC		52314-67-7	--
253	High Cis CMA and CMAC		52314-67-7	--
	TOTAL	**200**		
	GRAND TOTAL	**7,505**		
	Formulations			
254	Mancozeb	4,200	--	--
255	Propineb	850	--	--
256	Zineb	425	--	--
257	Maneb	425	--	--
258	Glyphosate	2,925	--	--
259	Liquid Formulations	2,100	--	--
260	Powder Formulations	850	--	--
	GRAND TOTAL	**11,775**		

DETAILS OF BOTTLING PLANT

S. No	Name	Capacity (Nos./Month)
1	HDPE Bottles (100 ml, 250 ml, 500 ml, 1 Lit, 5 Lit)	25,00,000
2	HDPE Bottles (20 Ltr)	85,000
3	PET Bottles (100 ml, 250 ml, 500 ml, 1 Lit)	29,25,000
4	Caps	66,75,000

LIST OF BY-PRODUCTS

S. No	By- Product Name	MT/Month	CAS No.
1	Aluminium Chloride 20 – 30 % Solution	1,500	7784-13-6
2	Ammonium Chloride Salt	500	7446-70-0
3	Ammonium Sulphate 25 % Solution & Salt	1,500	10043-01-3
4	$Cu(OH)_2$ Powder	2	20427-59-2
5	Formic Acid	50	64-18-6
6	HBr Solution	2,000	10035-10-6
7	Hydrochloric Acid	200	7647-01-0
8	KCl Powder	130	7447-40-7
9	Manganese Carbonate	980	598-62-9
10	NH_4Cl Powder	250	12125-02-9
11	Potassium Bicarbonate	500	298-14-6
12	Potassium Bromide	215	7758-02-3
13	Potassium Bromide 20 % Solution & Salt	175	7758-02-3
14	Potassium Chloride 20 % Solution & Salt	300	7447-40-7
15	Potassium Fluoride 20 % Solution & Salt	250	7789-23-3
16	Recovered Solvent	40	8030-30-6
17	Sodium Bi Sulphite 20 % Solution & Salt	400	7631-90-5
18	Sodium Bromide 20 % Solution & Salt	150	7647-15-6
19	Sodium Bromide 20 % Solution & Salt 95 %	100	7647-15-6
20	Sodium Fluoride 20 % Solution & Salt	100	7681-49-4
21	Sodium Sulfite Powder	550	7757-83-7
22	Sodium Sulphate	2,000	7757-82-6
23	Spent Acid	50	7664-93-9

36.3.5.2. During deliberations, the EAC noted the following: -

The proposal is for environmental clearance to the project for manufacturing of Pesticides, Pesticide Specific Intermediates of total capacity 7505 TPM by M/s Greentec Chemicals Pvt. Ltd in a total area of 79999 sqm at Plot No. D-2/11/B/3/2, GIDC, Dahej-II, Taluka Vagra, District Bharuch (Gujarat). Other products/activities include Pesticide Formulations of 11775 TPM, by-products of 11942 TPM and Bottling Plant of 12185000 per month.

The project/activity is covered under category A of item 5(b) 'Pesticide industry and pesticide specific intermediates' of Schedule of Environmental Impact Assessment (EIA) Notification, 2006, and requires appraisal at central level by the sectoral EAC in the Ministry.

The ToR for the project was granted on 9th December, 2017. The project is located in industrial estate/investment region having environmental clearance under item 7(c) of the schedule to the

EIA Notification, 2006, and as such qualifies for exemption from public hearing as provided under the Ministry's OM dated 16th May, 2014.

Total water requirement is estimated to be 1750 m^3/day of which fresh water demand of 1100 m^3/day is to be met from GIDC water supply.

Total effluent generated from different industrial operations is estimated to be 792 KLD, which will be taken to the Effluent Treatment plant followed by MEE & RO for treatment. The treated water of 150 KLD shall be reused in the plant. There will be no discharge of treated/untreated waste water from the unit, and thus conforming to Zero Liquid Discharge.

36.3.5.3 *The EAC, after deliberations, expressed its concern over large number of proposed products (pesticides/pesticide specific intermediates), which could not be technically and practically feasible in terms of pollution concerns and impact on environmental parameters. The Committee desired for reconfiguration of the product list by reducing the number of products with more focus on manufacturing bio-pesticides (nearly 25%) and thus to make the same more rationale and universally acceptable. The Committee further desired for the plant to be natural gas based rather than relying on dual fuel system.*

The proposal was therefore deferred for the needful.

Agenda No.36.3.6

Expansion of agrochemicals (Pesticides), intermediates and polymers unit by M/s Gujarat Insecticides Limited at Plot No. 805/806, GIDC Estate, Ankleshwar, District Bharuch (Gujarat) - Reconsideration of Environmental Clearance

[IA/GJ/IND2/61482/2017, IA-J-11011/3/2017-IA-II(I)]

36.3.6.1 The project proponent and the accredited Consultant M/s Siddhi Green Excellence Pvt. Ltd made a detailed presentation on the salient features of the project and informed that:

(i) The proposal is for expansion of agrochemicals (Pesticides), Intermediates and Polymers Unit at Plot No.805/806, GIDC Estate, Ankleshwar, District Bharuch (Gujarat) M/s Gujarat Insecticides Limited.

(ii) The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 18th meeting held during 24th January, 2017 and recommended Terms of References (ToRs) for the project. The ToR has been issued by Ministry vide letter dated 10th July, 2017.

(iii) All projects are listed at S.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).

(iv) Ministry has issued EC earlier vide letter no. J-11011/1287/2007-IA II (I); dated 17-04-2008 for expansion of Meta Phenoxy Benzyldehyde (MPB) from 1500 MTA to 2400 MTA unit to M/s Gujarat Insecticides Limited.

(v) Existing land area is 73084 sqm, and no additional land will be used for proposed expansion. Industry has already developed Greenbelt in an area of ~16.17 % i.e 11786.73 sq. m out of 73084 sq.m. of area of the project. After proposed expansion M/s. Gujarat Insecticides limited has planned to enhance greenbelt within the premises with total area 12700.87 sq. m (~17.38%) & shall develop greenbelt on GIDC allotted land such that total area developed as greenbelt by unit within the premises and on GIDC allotted land is minimum 33% of plot area.

(vi) The estimated project cost for expansion is Rs.193.02 Crore. Total capital cost for environmental pollution control measures is Rs.55.75 Crore and the recurring cost (operation and maintenance) will be about Rs.3750.35 lakh per annum. Total Employment will be 610 nos. persons as direct & 300 nos. persons indirect after expansion. Industry proposes to allocate Rs.4.83 crore @ 2.5 % towards Corporate Social Responsibility.

(vii) There are no National parks, Wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, Wildlife corridors etc. within 10 km from the project site. Amravati river is flowing at a distance of 6.49 km in the East.

(viii) Ambient air quality monitoring was carried out at 13(including project site) locations during February 2017 to April 2017 and the baseline data indicates the ranges of concentrations as: PM10 (75-91 µg/m^3), PM2.5 (24-33 µg/m^3), SO_2 (18-27 µg/m^3) and NO_x (22-33 µg/m^3) (98^{th} percentile values) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed expansion project would be 0.62 µg/m^3, 3.45 µg/m^3 and 1.68 µg/m^3 with respect to PM10, SOx and NOx. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

(ix) Total water requirement is 2152 m^3/day, of which fresh water requirement of 2152 m^3/day will be met from GIDC.

(x) At present 820 KLD of effluent (750 KLD industrial + 70 KLD domestic sewage) is treated in own ETP (Primary, Secondary and Tertiary treatment). Treated effluent from ETP is discharged into u/g pipeline connected to FETP of M/s. NCT (formerly known as BEAIL). Unit has membership of NCT for treated effluent quantity upto 820 KLD for discharge into u/g pipeline connected to FETP of M/s NCT for final disposal in deep sea.

Boiler blowdown and cooling tower blowdown (72 + 90 = 162 KLD) shall be reused for washing and then sent to ETP, hence no GIDC water consumption for washing.

- Additional 1027 KLD of industrial effluent generated from expansion shall be treated in ETP and further subjected to RO. RO permeate @ 842 KLD shall be recycled back to process thereby reducing GIDC water requirement. And RO reject shall be sent to MEE for further treatment.
- In this manner, there shall be no increase in consented discharge quantity of effluent i.e 750 KLD for discharge into NCT pipeline conveying treated effluent into deep sea via FETP. 95 KLD domestic effluent shall be treated in STP (110 KLD) & treated water shall be utilized for green belt maintenance

(xi) **Continuous Power**

- At present Electricity power is supplied from DGVCL. Existing requirement of electricity @1800 KVA.
- For proposed expansion additional power requirement will be @ 1200 KVA.
- Total after proposed expansion will be @ 3000 KVA*
- *After the commencement of 3 MW Power Plant the power supply from DGVCL shall be used only when required.

Standby Power

- There are existing two D.G set - capacity: 1250 KVA & 700 KVA
- Additional Two (2) nos. of DG sets (1500 KVA) are proposed as standby source of electricity in case of power supply failure.

Stack	Stack ID / Stack	Capacity / Remarks	Name of fuel	Quantity of fuel	Air Pollution	Stack Heigh	Parameters	Permissible Limits	Unit

No.	Attached to			used	Control Measures (APCM)	t in Meter (From G.L.)			
As per Existing CTO									
1.	60825 - Fuel Heater (Thermic)	Thermopack TP-01 (2 lakh kcal/h)	H.S.D.	45 Lit/Hr	Not Applicable	15	PM SO_2 NO_x	150 100 50	mg/Nm^3 ppm ppm
2.	60826 – Fuel Heater (Thermic)	Thermopack TP-02 (2 lakh kcal/h)	Natural Gas	25 Nm^3/Hr	Not Applicable	15	PM SO_2 NO_x	150 100 50	mg/Nm^3 ppm ppm
3.	9153 – Fuel Heater	HAIZA Hot Oil Unit (2 lakh kcal/h)	Natural Gas	25 Nm^3/Hr	Not Applicable	30	PM SO_2 NO_x	150 100 50	mg/Nm^3 ppm ppm
4.	36250 - Boiler	Boiler (10TPH)	Coal	1500 kg/hr or Briquette: 1500 kg/hr	Electrostatic Precipitator (ESP) + water scrubber	30	PM SO_2 NO_x	150 100 50	mg/Nm^3 ppm ppm
EC applied for New Additional stacks									
5.	Fuel Heater (Thermic)	Hot oil unit (2 lakh kcal/h)	Natural Gas H.S.D.	75 Nm^3/h 70 L/h	--	30	PM SO_2 NO_x	150 100 50	mg/Nm^3 ppm ppm
6.	Fuel Heater (Thermic)	Hot oil unit (2 lakh kcal/h)				30			
7.	Fuel Heater (Thermic)	Hot oil unit (2 lakh kcal/h)				30			
8.	Fuel Heater (Thermic)	Hot oil unit (4 lakh kcal/h)	Natural Gas H.S.D	100 Nm^3/h 95 L/h	--	30	PM SO_2 NO_x	150 100 50	mg/Nm^3 ppm ppm
9.	Fuel Heater (Thermic)	Hot oil unit (4 lakh kcal/h)				30			
10.	Boiler	Coal Fired Boiler (25 TPH) (for 3 MW Power Plant)	Coal	5000 kg/h (Note 3)	Electrostatic Precipitator (ESP) + water scrubber	33	PM SO_2 NO_x	100 100 50	mg/Nm^3 ppm ppm
11.	DG set	DG Set (1500 kVA)-Standby	H.S.D.	350 L/h	--	33	PM SO_2 NO_x	150 100 50	mg/Nm^3 ppm ppm
12.	DG set	DG Set (1500 kVA)-Standby	H.S.D.	350 L/h	--	33	PM SO_2 NO_x	150 100 50	mg/Nm^3 ppm ppm

Note:

1. Steam from proposed 25 TPH boiler shall be utilized for 3 MW Captive Power plant as well as for process.
2. Ready-to-use imported crushed coal is used in coal fired boiler.

Proponent is committed to follow all the guidelines given by solid fuel policy (Office order no. GPCB/ANK-C992/215695 DATED 07/06/2014)

Stack No.	Stack Id / Stack attached to	Name of Process / Plant	Air Pollution Control System	Stack Height in Meter (From	Air Emission	
					Pollutant	Permissible Limit

				G.L.)		
Existing as per CTO						
1.	9155 – Process Emission Vessel	Meta Phenoxy Benzaldehyde Plant (MPB Plant)	Alkali Scrubber	20	SO_2 HCl Cl_2 Br_2	40 mg /Nm^3 20 mg /Nm^3 09 mg /Nm^3 02 mg /Nm^3
2.	36236 - Process Emission Vessel	Quinalphos Plant	Alkali Scrubber	18	HCl Cl_2 SO_2	20 mg /Nm^3 09 mg /Nm^3 40 mg /Nm^3
3.	36239 - Chlorination	Fenevalerte Plant (PCT Chlorinator & Acid Chloride Preparation Vessel)	Alkali Scrubber	18	SO_2 HCl Cl_2	40 mg /Nm^3 20 mg /Nm^3 09 mg /Nm^3
4.	36251 – Gas Exits	Bromine recovery	Alkali Scrubber	20	HBr Br_2	30 mg /Nm^3 02 mg /Nm^3
Proposed additional						
5.	Process Emission Vessel	Meta Phenoxy Benzaldehyde Plant (MPB Plant)	Water+ Alkali Scrubber	20	HCl SO_2 Cl_2 Br_2	20 mg /Nm^3 40mg /Nm^3 09 mg /Nm^3 02 mg /Nm^3
6.	Gas Exits	Bromine recovery	Alkali Scrubber	20	HBr Br_2	30 mg /Nm^3 02 mg /Nm^3
7.	Process Emission Vessel	Profenophos Plant (Quinalphos plant)	Water+ Alkali Scrubber	20	HBr Br_2	30 mg /Nm^3 02 mg /Nm^3
8.	Process Emission Vessel	Azole Plant (Hexaconazole + Metalaxyl)	Water+ Alkali Scrubber	20	HCl SO_2	20 mg /Nm^3 40mg /Nm^3
9.	Process Emission Vessel	Azole Plant (Propiconazole + Metalaxyl)	Two stage Water Scrubber	20	HCl	20 mg /Nm^3
10.	Process Emission Vessel	Azole Plant (Propiconazole)	Water+ Alkali Scrubber	20	HCl HBr	20 mg /Nm^3 30 mg/ Nm^3
11.	Process Emission Vessel	Diafenthiuron Plant (Fenevalerte Plant)	Water+ Alkali Scrubber	20	HBr Br_2	30 mg /Nm^3 02 mg /Nm^3
12.	Process Emission Vessel	Diafenthiuron Plant (Fenevalerte Plant)	Two stage Water Scrubber	20	NH_3	30 mg/Nm^3
13.	Process Emission Vessel	Polymer Plant (PEK,PEKK, ABPBI)	Water+ Alkali Scrubber	20	HCl SO_2	20 mg /Nm^3 40mg /Nm^3

(xii) Details of Solid waste/ Hazardous waste generation and its management. **Annexure-1**

(xiii) M/s Gujarat Insecticides Limited is an existing unit located in the Notified industrial estate GIDC Ankleshwar. Hence Public hearing is exempted under the provisions as per Para 7 Stage III (3)(i)(b) of the EIA notification, 2006

(xiv) Six monthly compliance reports are submitted to MoEF&CC. EC compliance report for month of October 2016 to March 2017 is already submitted at RO-MoEFCC, Bhopal dated 12-04-2017. Inspection by RO-MoEFCC, Bhopal completed, certificate issued

(xv) Following are the list of existing and proposed products: **Annexure-2**

Annexure: 1

DETAILS OF SOLID/ HAZARDOUS WASTE GENERATION & MANAGEMENT

Sr. No.	Type of Waste	Sch.	Category (As Per Schedule) Rules 2016	Generation MT Per Annum			Source of generation	Facility	Mode of disposal & Remarks
				Existing as per CTO	EC additional	Total after EC expansion			
1.	Spent Solvent	I	20.2	12 MT	24 MT	36 MT	From Process	Collection, incineration, disposal, Storage, transportation	Sent to CHWIF for Incineration approved by GPCB
2.	Distillation Residues	I	20.3	420 MT	5928 MT	6348 MT	From Process	Co-processing, Collection, Incineration, Disposal, Storage, transportation	Sent to CHWIF for incineration OR Selling to M/s. Ultra tech Cement Ltd. and M/s. Ambuja Cement Ltd. for Co-processing
3.	Process Waste Sludge/ Residue containing acid, Toxic metals, organic compounds	I	26.1	252 MT	564 MT	816 MT	From Process	Co-processing, Collection, Incineration, Disposal, Storage, transportation	Sent to CHWIF for incineration OR Selling to M/s. Ultra tech Cement Ltd. and M/s. Ambuja Cement Ltd. for Co-processing
4.	Process wastes or residues	I	29.1	360 MT	360 MT	720 MT	From detoxification of effluent	Collection, Incineration, Disposal, Storage, Transportation	Sent to CHWIF for Incineration approved by GPCB
5.	Sludge	I	29.2	2760 MT	6240	9000	From	Collection, Disposal,	Sent to common TSDF

	containing residual pesticides				MT	MT	ETP	Treatment, Storage, Transportation	site approved by GPCB
6.	Date-expired and off specification pesticides	I	29.3	60 MT	60 MT	120 MT	From Process	Collection, Incineration, Disposal, Storage, Transportation	Sent to CHWIF for Incineration approved by GPCB
7.	Spent Catalysts	I	29.5	12 MT	60 MT	72 MT	From Process	Collection, Incineration, Disposal, Reuse, Storage, Transportation	Sent to incineration or sell it to authorized re-refiners/ recycler.
8.	Empty barrels/ containers/liners contaminated with hazardous chemicals/wastes	I	33.1	344.68	734.4	1079.08 MT	From Process & maintenance	Collection, Decontamination, Disposal, Reuse, Storage, Transportation	Disposal by send it to authorized decontamination facility/recycler or reuse or send back to supplier or send it to Common TSDF approved by GPCB.
9.	Oil and Grease skimming	I	35.4	12 MT	36MT	48 MT	From ETP	Collection, Disposal, Storage, Transportation	Disposal to common TSDF site approved by GPCB
10.	Spent Carbon or filter medium	I	36.2	24 MT	48 MT	72 MT	From Tertiary treatment in ETP	Co-processing, Collection, Incineration, Disposal, Storage, transportation	Sent to CHWIF for incineration OR Selling to M/s. Ultra tech Cement Ltd. and M/s. Ambuja Cement Ltd. for Co-processing
11.	Used or Spent Oil	I	5.1	12 MT	24 MT	36 MT	From Machinery	Collection, Incineration, Disposal, Reuse, Storage, Transportation	Disposal by reuse in plant & machinery as lubricant or sell it to authorized re-refiners/ recycler or Sent to CHWIF for incineration approved by GPCB.

12.	Wastes or residues containing oil	I	5.2	6 MT	6 MT	12 MT	From Machinery	Collection, Incineration, Disposal, Reuse, Storage, Transportation	Disposal by reuse in plant & machinery as lubricant or sell it to authorized re-refiners/ recycler or Sent to CHWIF for incineration approved by GPCB.
13.	Ammonia	II	A10	420 MT	336 MT	756 MT	By-product from scrubber	Collection, Generation, Disposal,Storage, Transportation	Aqueous ammonia solution (15 %) - Disposal by sell out to authorized users who are having authorization with valid CTO and rule 9 permission to receive this waste.
14.	Halogen-Containing compounds which produce acidic vapours on contact with humid air or water e.g. slicon tetrachloride, aluminium chloride, titanium tetrachloride	II	B10	864.00	2436 MT	3300 MT	By-product from process	Collection, generation, Disposal, Storage, Transportation	KCl Powder- Disposal by sell out to authorized users who are having authorization with valid CTO and rule 9 permission to receive this waste.
15.	Halogen-Containing compounds which produce	II	B10	14400	46824	61224	By-product from process	Collection, Disposal, Storage, Transportation	Potassium chloride solution & Aluminum chloride solution - Disposal by sell out to authorized users who are

	acidic vapours on contact with humid air or water e.g. slicon tetrachloride, aluminium chloride, titanium tetrachloride								having authorization with valid CTO and rule 9 permission to receive this waste.
16.	Inorganic acids	II	B15	4320	27540 MT	31860 MT	By-product from process	Collection, Disposal, Storage, Transportation	Spent Sulphuric acid - Disposal by sell out to authorized users who are having authorization with valid CCA and rule 9 permission to receive this waste.
17.	Calcium Chloride (35%)	II	B10	0	6396	6396	By-product from process	Collection, Disposal, Storage, Transportation	Calcium chloride (35%) - Disposal by sell out to authorized users who are having authorization with valid CTO and rule 9 permission to receive this waste.
18.	Sodium bisulfite (20-25%)	II	B23	0	15590 MT	15590 MT	By-product from scrubber	Collection, Disposal, Storage, Transportation	Sodium bisulfite (20-25%) - Disposal by sell out to authorized users who are having authorization with valid CTO and rule 9 permission to receive this waste.
19.	Calcium Sulfate (92%)	--	--	0	1992 MT	1992 MT	By-product from	Collection, Disposal, Storage, Transportation	Calcium Sulfate (92%) - Disposal by sell out to authorized users who are

							scrubber		having authorization with valid CTO and rule 9 permission to receive this waste.

- Unit has membership of M/s. Bharuch Enviro Infrastructure Ltd. (BEIL) – Ankleshwar site for disposal of ETP sludge and Incinerable waste. Letter of acceptance is obtained from M/s. BEIL for accepting landfill waste at their Ankleshwar TSDF site and incinerable waste at CHWIF site at Ankleshwar. Copy is annexed in EIA report
- Letter of Intent is obtained from M/s. Ultra tech Cement Ltd. and M/s. Ambuja Cement Ltd. unit for co-processing at their plant at P.O Ambujanagar, Taluka Kodinar, District Gir-Somnath, Gujarat. Copy is annexed in EIA report.

Annexure: 2

Existing & proposed new Products and their capacity (Sr. No. as per CTO)

SN	Name of Product	CAS No.	EC Available*		Remarks	EC Applied for additional production in		Total After EC Expansion		End uses	Category as per EIA Notification, 2006
			MT/month	MT/annum		MT/month	MT/annum	MT/month	MT/annum		
1	Fenvalerate OR	51630-58-1	8.33	100	Either individual or total production of sr. no. 1 to 6 shall not exceed 100 MT/Year	191.67	2300	200	2400	Agriculture	5(b)
2	Lambda Cyhalothrin OR	91465-08-6	8.33	100		191.67	2300	200	2400	Agriculture	5(b)
3	Bifenthrin OR	82657-04-3	8.33	100		191.67	2300	200	2400	Agriculture	5(b)
4	Deltamethrin OR	52918-63-5	8.33	100		191.67	2300	200	2400	Agriculture	5(b)
5	Thiamethoxam OR	153719-23-4	8.33	100		191.67	2300	200	2400	Agriculture	5(b)
6	Buprofezin	953030-84-7	8.33	100		191.67	2300	200	2400	Agriculture	5(b)
7	Quinalphos OR	13593-03-8	100	1200	Either individual or total production of sr.	100	1200	200	2400	Agriculture	5(b)
8	Triazophos OR	24017-47-8	100	1200		100	1200	200	2400	Agriculture	5(b)
9	Chlorpyriphos	2921-	100	1200		100	1200	200	2400	Agriculture	5(b)

	OR	88-2			no. 7 to12 shall not exceed 1200 MT/Year						
10	Temephos OR	3383-96-8	100	1200		100	1200	200	2400	Agriculture	5(b)
11	Methyl Chlorpyriphos OR	5598-13-0	100	1200		100	1200	200	2400	Agriculture	5(b)
12	Profenophos	41198-08-7	100	1200		100	1200	200	2400	Agriculture	5(b)
13	Meta Phenoxy Benzaldehyde (MPB) OR	39515-51-0	200	2400	Either individual or total production of sr. no. 13 & 14 shall not exceed 2400 MT/Year	300	3600	500	6000	Intermediate	5(b)
14	Dichloro Phenol (DCP)	583-78-8	200	2400		300	3600	500	6000	Intermediate	5(b)
15	Indoxacarb OR	173584-44-6	10.83	130	Either individual or total production of sr. no. 15 to 19 shall not exceed 130 MT/Year	189.17	2270	200	2400	Agriculture	5(b)
16	Tricyclazole OR	41814-78-2	10.83	130		189.17	2270	200	2400	Agriculture	5(b)
17	Hexaconazole OR	79983-71-4	10.83	130		189.17	2270	200	2400	Agriculture	5(b)
18	Propiconazole OR	60207-90-1	10.83	130		189.17	2270	200	2400	Agriculture	5(b)
19	Metalaxyl	57837-19-1	10.83	130		189.17	2270	200	2400	Agriculture	5(b)
20	Dicamba	1918-00-9	--	--	--	416.66	5000	416.66	5000	Agriculture	5(b)
21	Diafenthiuron	80060-09-9	--	--	--	100	1200	100	1200	Agriculture	5(b)
22	Carbendazim	10605-21-7	--	--	--	100	1200	100	1200	Agriculture	5(b)
		EXISTING			**3830**	**16770**			**20600**	**Agriculture**	**5(b)**
23	Crude Pigment Violet – 23 OR	215247-95-3	25	300	Either individual	58.33	700	83.33	1000	Paint and ink	5(f)

24	Poly Ether Ketone (PEK) OR	27380-27-4	25	300	or total production of sr. no. 23 to 28 shall not exceed 300 MT/Year	58.33	700	83.33	1000	Engineering plastics	5(f)
25	Poly (2,5 Benzamidazole) (ABPBI) OR	25928-81-8	25	300		58.33	700	83.33	1000	Engineering plastics	5(f)
26	Poly Ether Ketone Ketone (PEKK) OR	74970-25-5	25	300		58.33	700	83.33	1000	Engineering plastics	5(f)
27	Polybenzoxazole (ABPBO) OR	89718–41-2	25	300		58.33	700	83.33	1000	Engineering plastics	5(f)
28	Poly Ether Imide (PEI)	61128-46-9	25	300		58.33	700	83.33	1000	Engineering plastics	5(f)
29	N-Acetoacetyl Aminobenzimidazolone (NAA)	26576-46-5	4.16	50	Total production shall not exceed 50 MT/year	--	--	4.16	50	Raw material for pigment	5(f)
			EXISTING		**350**	**700**			**1050**		**5(f)**

EXISTING 5(b)	3830	MTA	EXISTING 5(f)	350	MTA	=	4180	MTA (TOTAL)
PROPOSED 5(b)	**16770**	**MTA**	**PROPOSED 5(f)**	**700**	**MTA**	**=**	**17470**	**MTA (TOTAL)**
	20600	**MTA**		**1050**	**MTA**	**=**	**21650**	**MTA (TOTAL)**

36.3.6.2 The proposal was last considered by the EAC in its meeting held on 26-28 February, 2018. The details of inputs/clarification sought during the meeting and response thereto, are as under:-

S. No.	Clarification	Response
1	Compliance of Zero Liquid Discharge condition in the ToR.	The water balance was revised to achieve ZLD in compliance with the ToR
2	Revised layout plan with 5-10 m green belt covering 33% of total area.	The revised layout plan with 5-10 m green belt covering 33% of total area was found in order
3	Action taken report/replies submitted by the project proponent in response to the earlier observations of the Regional Office, to be examined for their comments.	The Regional Office has conducted the site inspection and submitted the fresh status of compliance vide letter dated 5th April, 2018.

36.3.6.3 During deliberations, the EAC noted the following: -

The proposal is for environmental clearance to the project for expansion of agrochemicals (Pesticides), intermediates and polymers unit from the present capacity of 4180 TPA to 21650 TPA (Agrochemicals from 3830 TPA to 20600 TPA and organic chemicals from 350 TPA to 1059 TPA) by M/s Gujarat Insecticides Limited in a total area of 73084 sqm at Plot No.805/806, GIDC Estate Ankleshwar, District Bharuch (Gujarat).

The project/activities are covered under category B of item 5(f) 'Synthetic Organic Chemicals' and category A of item 5(b) 'Pesticides industry and pesticide specific intermediates (excluding formulation)' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral EAC in the Ministry.

The ToR for the project was granted on 10th July, 2017. Public hearing is exempted under the provisions as per Para 7(i) III. Stage III (3) (i) (b) of the EIA Notification, 2006, as plant is located in notified Industrial Estate.

Total water requirement is estimated to be 2994 cum/day, of which fresh water requirement is 2152 cum/day proposed to be met from GIDC water supply.

Ministry had earlier issued EC vide letter dated 17th April, 2008 for expansion of Insecticides Manufacturing Unit (Meta Phenoxy Benzyldehyde (MPB)) from 1500 MTA to 2400 MTA in favour of M/s Gujarat Insecticides Limited. The monitoring report on compliance status of EC conditions forwarded by the Regional Office at Bhopal vide their letter dated 19th January, 2018, states that out of 40 conditions, 26 are complied, 6 partly complied, 4 complied subject to acceptance, one complied subject to condition, two not complied and one not applicable. The project proponent has submitted action taken report to the Ministry's Regional Office.

Consent to Operate for the present capacity of 4880 TPA has been obtained from the Gujarat PCB vide letter dated 29th April, 2017, which is presently valid up to 13th March, 2022.

The reply submitted by the project proponent in response to the observations of the EAC in respect of ZLD and the revised layout plan was found in order. In respect of compliance status of EC

conditions, the Regional Office has now informed vide letter dated 5th April, 2018 about much improved status and thus the same was found acceptable.

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

- *Total production of pesticides shall include manufacturing at least 25% of bio-pesticides.*
- *Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.*
- *Effluent treatment of 750 cum/day, shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, to take it to the final ETP followed by discharge into NCT pipeline conveying treated effluent into deep sea.*
- *Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.*
- *National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.*
- *To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.*
- *Solvent management shall be carried out as follows:*
  - *(i) Reactor shall be connected to chilled brine condenser system.*
  - *(ii) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.*
  - *(iii) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.*
  - *(iv) Solvents shall be stored in a separate space specified with all safety measures.*
  - *(v) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.*
  - *(vi) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.*
  - *(vii) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.*
- *Total fresh water requirement shall not exceed 2491 cum/day to be met from SEZ water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.*
- *Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP/RO to meet the prescribed standards.*
- *Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.*
- *Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.*
- *Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.*

- *The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.*
- *Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided.*
- *The company shall undertake waste minimization measures as below:-*
  - *(i) Metering and control of quantities of active ingredients to minimize waste.*
  - *(ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.*
  - *(iii) Use of automated filling to minimize spillage.*
  - *(iv) Use of Close Feed system into batch reactors.*
  - *(v) Venting equipment through vapour recovery system.*
  - *(vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.*
- *The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.*
- *All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented.*
- *At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.*
- *For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.*
- *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.*
- *Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.*
- *Continuous online (24X7) monitoring system for stack emissions and the effluent, shall be installed for measurement of flow/discharge and the pollutants concentration, and the emission and effluent monitoring data to be transmitted to the CPCB and SPCB server as per the directions of CPCB in this regard.*

Agenda No.36.3.7

Expansion of formaldehyde and resin manufacturing unit by M/s Balaji Action Buildwell at Plot No. C-34, C-34 (a) to (d), C-6(a), 6(b), C-3 & 5, ELDECO SIDCUL INDUSTRIAL PARK, Sitarganj District Udham Singh Nagar (Uttarakhand) - Reconsideration of Environmental Clearance

[IA/UK/IND2/68059/2017, IA-J-11011/453/2017-IA-II(I)]

36.3.7.1 The project proponent and their accredited Consultant M/s Perfact Enviro Solutions Pvt Ltd**,** made a detailed presentation on the salient features of the project and informed that:

(i) The proposal is for Expansion of Formaldehyde and Resin manufacturing unit by M/s Balaji Action Buildwell located at Plot No. C-34, C-34 (a) to (d), C-6(a), 6(b), C-3 & 5, ELDECO SIDCUL Industrial Park Sitarganj, Udham Singh Nagar (Uttarakhand).

(ii) The project proposal was submitted online for EC on 30/11/2017 and Standard TOR was granted by Ministry vide letter No: IA-J-11011/453/2017-IA-II(I)] dated 6/11/2017.

(iii) All products are listed at S.No. 5(f) of Scheduled of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

(iv) Earlier Separate environmental clearance has been taken by M/s Balaji Action Buildwell for formaldehyde & Resin Plant for existing unit vide letter no. 293_5(4)/2013 dated 24/12/2013 for capacity 150 TPD on plot area 5378.06 sqm and vide letter no. J-11011/808/2008-IA II (I) dated 3/11/2008 for capacity 80 TPD on plot area 75452 sqm respectively.

(v) Existing land area for formaldehyde plant is 5378.06 sqm and for Resin plant is 75452 sqm, additional 256521.06 sqm land is taken from ELDECO SIDCUL adjacent to existing plant for the expansion. In expansion Formaldehyde plant will be on the same plot area and Glue plant will be on new plot adjacent to the existing plot. After expansion total plot area will be 3,37,351.12 sqm. Industry will be developed Greenbelt in area of 41.63%, 27755.47 sqm out of 337351.12 sqm of area of the project.

(vi) The estimated project cost is Rs. 10 Crores. Total capital cost embarked towards environment pollution control measures is Rs. 40 lacs and the Recurring cost (operation and maintenance) will be about Rs 23 lakhs/Per annum.

(vii) Total Employment will be 48 persons as directed & 50 persons indirect after expansion. Industry proposed to allocated Rs 26 lakhs @ 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 lies within 10 km distance. River/waterbody within 10 Km area are given below:

Name/ Identity	Aerial distance (within 10 km)
Water bodies:	
NandhauNadi	0.32 km (E)
Kailash Nadi	1.16 km (E)
DeohaNadi	4.23 km (E)
Bhainsiyanala	6.66 km (ENE)
ChungadDhara	8.33 km (E)
SukhiNadi/Begulnala	3.30 km (W)
BahgulNadi	5.11 km (S)
GorhiNala	1.78 km (SSW)
KatnaNadi	5.51 km (W)
DhoraNala	8.42 km (W)

(ix) Ambient air quality was carried out at 8 locations during March to May 2017 and submitted baseline data indicated that ranges of concentration of PM_{10} (83.5 to 135.9 µg/m^3), $PM_{2.5}$ (37.9 to

52.2 µg/m^3), SO_2 (5.8 to 8.1 µg/m3) and NO_2 (21.1 to 29.0 µg/m^3) respectively. AAQ modelling study for point source emissions indicated that the maximum incremental GLCs after the proposed project would be 2.07 µg/m^3, 0.343 µg/m^3 and 3.01 µg/m^3 with respect to PM_{10}, SO_X and NO_X. The resultant concentration of SOX and NOX are within the National Ambient Air Quality Standards (NAAQS). PM_{10} concentration at project site is within limit but at three locations (Village Akrauli, Village Rudpur and Govind Nagar) out of 8, its more than National Ambient Air Quality Standards (NAAQS).

(x) Total water requirement after expansion will be 782 KLD of which fresh water requirement of 447 KLD and will be met from Ground water.

(xi) Treated effluent of 81.6 KLD will be treated through ETP and STP plant will be based on Zero liquid discharge system.

(xii) Power requirement after expansion will be 644 KW including existing 319 KW and will be met from Uttarakhand Power Corporation Ltd. Existing unit has one DG sets of 320 KVA capacity, additionally 320 KVA DG sets are used as standby during power failure. Stack (3.6 m above the roof) will eb provided as per CPCB norms to the proposed DG sets of 1x 320 KVA in addition to the existing DG sets of 1x 320 KVA which will be used as standby during power failure.

(xiii) Existing unit has 2 TPH gas boiler with stack height of 35 m for controlling the Particulate emissions. Proposed Boiler is 2 TPH gas boiler which will be installed with stack height of 35 m (within statutory limit of 115 mg/Nm^3).

(xiv) Details of Process emissions generation and its management given below:

Source of Air Pollution	**Existing**	**After Expansion**	**Management**
DG sets	1 x 320 KVA	2 x 320 KVA	3.6 m stack above roof level is provided for existing DG sets and same shall be provided for proposed DG sets.
Process Gases	150 TPD – Formaldehyde 80 TPD – Resin	From 300 TPD Formaldehyde and 300 TPD Resin Manufacturing	Emission from Formaldehyde plant contains traces of methanol and formaldehyde, this gas is being used as fuel in the boiler for producing steam.
Emission from Boiler	1 x 2 TPH	2 x 2TPH	Stack height of 35 m is provided for existing Boiler and same shall be provided with the proposed Boiler. Emission standard shall be maintained as per CPCB standards.

(xv) Details of Process emissions generation and its management given below:

Municipal Waste:

Category	***Type of Waste***	***Colour of Bins***	***Disposal Method***	***Total Wae (Kg/day) (Existing)***	***Total Waste (Kg/day) (After Expansion)***
Bio Degradable	Organic Waste (Includes Food & Kitchen	Green	Vermicomposting with in project	3	5.3

	Waste, Leaves etc.)		site		
Non-Biodegradable	Recyclable Waste (Includes Poly-bags, Plastic, metal, wood, paper, glass, containers etc.)	Blue	Authorized recycler	1	2
-	**Total**	-	-	**4 Kg/day**	**7.3 Kg/day**

Process Waste (Non-Hazardous Waste):

Process Waste	***Existing***	***Proposed***	***Total***	***Disposal method***
Formaldehyde Sediments	10.25 Kg/day	10.25 Kg/day	20.50 Kg/day	Formaldehyde sediment shall be stored and disposed off at TSDF approved by Uttarakhand Environment Protection & Pollution Control Board
Electrolyte sediments which includes silver & mud	0.33 Kg/day	0.33 Kg/day	0.66 Kg/day	Electrolyte sediment shall be sent to non-ferrous metal smelter plant to recycle.
Urea Bag	80 Kg/day	120 Kg/day	200 Kg/day	Shall be given to approved recycler
Waste catalyst	50 kg/day	50 kg/day	100 kg/day	Automatic recycle or send to non-ferrous metal smelter plant to recycle

Hazardous Waste:

Name of Process	***Name & Category No***	***Quantity Existing***	***Quantity Proposed***	***Quantity Total***
5 Industrial operations using mineral/synthetic oil as lubricant in hydraulic systems (Schedule I)	5.1 Used/spent oil	61 l/month	5 l/month	66 l/month
34 Purification and treatment of exhaust air, water and waste water from the processes in this schedule and CETPs (Schedule I)	34.3. Chemical sludge from ETP	21 l/month	49 l/month	70 l/month

(xvii) As the unit is situated in notified industrial area, thus the same is exempted from Public Hearing as per clause 7 (i) (iii) of EIA notification.

(xviii) Certified compliance has been received vide letter no vide File no.: NC-RO/ENV/IND/UK/15/2015/1695 dated 15th January, 2018 and vide File no.: IV/ENV/UTR/IND-32/93/2010/1696 dated 15th January, 2018 for Formaldehyde and Resin plant respectively. There were some non-compliance points for which reply has been submitted to MoEF&CC.

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

S. No	Product	Unit	Existing Capacity	Proposed Capacity	Total After Expansion Capacity
1.	**Formaldehyde**	TPA	**45000**	**45000**	**90000**
2.	**Resins**	TPA	**24000**	**66000**	**90000**
	Urea Formaldehyde	TPA	18000	57000	75000
	Melamine Formaldehyde	TPA	3000	3000	6000
	Melamine-Urea-Formaldehyde	TPA	3000	6000	9000

*Taking 300 working Days

34.3.7.2 The proposal was last considered by the EAC in its meeting held on 26-28 February, 2018. The details of inputs/clarification sought during the meeting and response thereto, are as under:-

S. No.	Clarification	Response
1	Permission for withdrawal of ground water from the concerned regulatory authority.	The Regional office of Central Ground Water Board at Dehradun has forwarded the proposal vide letter dated 18th April, 2018 to CGWA, New Delhi for grant of NOC to abstract ground water of 1300 cum/day through existing tube wells.
2	Revised water balance	The fresh water requirement has been revised/reduced to 652 KLD from 782 KLD, by recovering STP treated water of 120 KLD instead of 250 KLD envisaged earlier.
3	Action taken report/replies submitted by the project proponent vide letter dated 21st February, 2018 in response to the earlier observations of the Regional Office, to be examined for their comments	The Regional Office has conducted the site inspection on 28th February, 2018 and submitted the fresh status of compliance vide letter dated 20th March, 2018.
4	Action plan of the SPCB for improving the baseline air quality	SPCB does not have any abatement plan for the said region. However PP proposed to adopt the following measures • Sprinkling of water in nearby roads • If any action plan regarding control of air is started by SPCB, PP will coordinate and help to reduce the air pollution. • Plantation on the road side will be done with the help of SPCB. • Green area will be developed within the plant premises and boundary. The plantation work for green belt development shall be carried out as

		per CPCB guidelines.
5	Control measures to be taken by the project proponent to minimize the incremental concentrations.	• The released waste gas is off gas of absorption tower. Therefore large amount of combustible gases in off gas of absorption tower, are burnt off gas boiler for steam generation. 70% of this goes into off gas boiler to produce steam for this system and eliminate the atmospheric pollution due to harmful gases of off gas to make the harmful things into useful things. 30% of the gas reused in the process for production of formaldehyde. • DG Set of 2X325 kVA is being installed for power backup on the surface. To control the air emissions from D.G. Set, stack height of 3.6 m is being provided above the roof level of D.G. Set. • After expansion, Green development (41.63% of plot area) will be developed within the plant premises and boundary. The plantation work for green belt development shall be carried out as per CPCB guidelines. • For control of fugitive emission, hoods is being provided at necessary process locations and channelized to process vents. Local exhaust ventilation is being used near drum/vessel openings which are connected to scrubber. Induced draft fans are used to extract vapour at expected points of release. • There is no emission from resin/Glue manufacturing unit. • Leak proof pumps with mechanical seals and valves is being used for transferring of material and regularly maintained.

34.3.7.3 During deliberations, the EAC noted the following: -

The proposal is for environmental clearance to the project for expansion of Formaldehyde (from 45000 TPA to 90000 TPA) and Resin manufacturing (from 24000 TPA to 90000 TPA) by M/s Balaji Action Buildwell located in a total area of 337351.12 sqm at Plot no. C-34, C-34 (a) to (d), C-6(a), 6(b), C-3 & 5, ELDECO SIDCUL Industrial Park, Sitarganj, Udham Singh Nagar (Uttarakhand).

The project/activity is covered under category B of item 5(f) 'Synthetic organic chemicals' of the Schedule to the Environmental Impact Assessment (EIA) Notification, 2006, and requires appraisal at the State level by the concerned SEAC/SEIAA. However, due to non-existence of SEIAA in Uttarakhand, the proposal was accepted and appraised at central level by the sectoral EAC in the Ministry.

The ToR for the project was granted on 6th November, 2017 with the exemption from Public Hearing as per clause 7 (i) (iii) of EIA notification.

To meet the present industrial operations, fresh water requirement of 208 KLD is being met through ground water. However, the project proponent could not provide any permission in this regard from the concerned regulatory authority. Total water requirement after expansion will be 652 KLD, of which fresh water demand of 447 KLD is proposed to be met from ground water. It was informed that the proposal for withdrawal of ground water has been submitted to the CGWA. Total effluent of 81.6 KLD will be treated through ETP and STP plant, thus ensuring Zero liquid Discharge.

The EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components.

Earlier, separate environmental clearances were obtained by M/s Balaji Action Buildwell with the details as under:-
(i) For the existing Formaldehyde plant of capacity 150 TPD in an area of 5378.06 sqm by SEIAA Uttarakhand vide letter dated 24th December, 2013,
(ii) For the Resin Plant of 80 TPD in an area of 75452 sqm by the Ministry vide letter dated 3rd November, 2008.

The monitoring report on compliance status of existing EC conditions, has been forwarded by the Ministry's Regional Office at Dehradun vide letter dated 15th January, 2018 (site visit carried out 21st February, 2017. The project proponent vide letter dated 21st February, 2018 has submitted their replies in response to the compliance status of the EC conditions.

Consolidated Consent and Authorization for the existing products/utilities has been obtained from the State PCB, which is presently valid up to 31st March, 2018

The reply submitted by the project proponent in response to the observations of the EAC in respect of permission for ground water, revised water balance, action taken report of SPCB and air quality concerns was found in order.

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

- *Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.*
- *As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.*
- *Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.*
- *To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.*
- *Total fresh water requirement shall not exceed 447 cum/day proposed to be met from Krishna* river*. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.*
- *Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD (agitated*

thin film drier). Low TDS effluent stream shall be treated in the ETP and then through RO system.

- *Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.*
- *Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.*
- *Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.*
- *The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.*
- *The company shall undertake waste minimization measures as below:-*
  (a) Metering and control of quantities of active ingredients to minimize waste.
  (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  (c) Use of automated filling to minimize spillage.
  (d) Use of Close Feed system into batch reactors.
  (e) Venting equipment through vapour recovery system.
  (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- *The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly least 2.5% along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.*
- *All the commitments made regarding issues raised during the public hearing/ consultation meeting held on 22nd November, 2017 shall be satisfactorily implemented.*
- *At of the total project cost shall be allocated for Enterprise Social Commitment based on public hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.*
- *For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.*
- *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.*
- *Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.*
- *Continuous online (24X7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.*
- *There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.*
- *Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.*
- *CO_2 generated from the process shall be bottled/converted into dry ice and shall not be let free in atmosphere.*

36.4 Any Other

Agenda No.36.4.1

Proposed Green Field POL Terminal by M/s Bharat Petroleum Corporation Limited at Nandur Kesartagi Industrial Area, 2nd Phase, District Kalaburagi (Karnataka) - Amendment in ToR

[IA/KA/IND2/67245/2017 A-J-11011/406/2017-IA-II(I)

36.4.1.1 The proposal is for amendment in the standard Terms of Reference dated 29th September 2017 in favour of M/s Bharat Petroleum Corporation Limited for the project 'proposed Green Field POL Terminal' located at Nandur Kesartagi Industrial Area, 2nd Phase, District Kalaburagi, (Karnataka).

36.4.1.2 The project proponent has requested for amendment in the ToR with the details are as under: -

S. No.	Para of ToR	Details as per the ToR	To be revised/ read as	Justification/ reasons
1	Standard ToR form Expert Appraisal Committee via letter Vide computer generated File No.IA-J-11011/406/2017-IA-II(I), 2nd page, 1st Para	EDS has been generated that the Standard ToR issued by EAC dated 29.09.2017 specifies the need for Public Consultation	Amendment in the ToR for Exemption from Public Consultation/ Hearing for proposed Green Field POL Terminal at Nandur Kesartagi Industrial Area, 2nd Phase, Kalaburagi District, Karnataka by M/s Bharat Petroleum Corporation Limited	The proposed project is located within a government notified Industrial Area/Estate, i.e Nandur Kesartagi Industrial Area, 2nd Phase, Kalaburagi District, Karnataka and as per the Notification No. S.O.1533 promulgated on 14th September 2006 it falls under Category 'B'. The proposed project is coming up in the Government notified Industrial Area and as point III stage (3) sub point B of the said notification, proposed project has an exemption from public consultation. **(*Exemption from Public consultation is allowed for all projects or activities located within industrial estates or park approved by the concerned authorities, and which are not disallowed in such approvals as mentioned in the Gazette Notification of 2006).***

36.4.1.3 *The Committee, after deliberations, referred to the Ministry's OM dated 16th May, 2014 providing exemption from public hearing under para7(i) III stage(3)(i)(b) of EIA Notification, 2006 to the projects or activities located within the industrial estates or parks, which have obtained prior*

environmental clearance under EIA Notification, 2006, as provided for under item7(c) of the Schedule, and recommended the above proposal accordingly.

The Committee further opined that all such proposals need to be considered on similar lines without referring the matter to the EAC.

Agenda No.36.4.2

Proposed Expansion in Existing Capacity of Pesticides Technical, Intermediate & Pesticides Formulation Products & Addition of New Pesticides Technical Product within Existing Premises by M/s UPL Limited, UNIT - 2 at Plot No. 3405/ 3406/3460A, Notified GIDC Industrial Estate, Ankleshwar, Bharuch (Gujarat)- Amendment in ToR

[IA/GJ/IND2/71948/2017, J-11011/180/2016- I A II(I)]

36.4.2.1 The proposal is for amendment in the terms of reference granted by the Ministry vide letter dated 31st January, 2018 for the proposed expansion of Pesticides Technical, Intermediate & Pesticides Formulation Products & Addition of New Pesticides Technical Product within Existing Premises located at M/s UPL Limited, UNIT # 02, Plot No. 3405/ 3406/3460A, Notified GIDC Industrial Estate, Ankleshwar, Bharuch, Gujarat in favour of M/s UPL Ltd.

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

S.No	Para of ToR	Details as per the ToR	To be revised / read as	Justification/reason
1	In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard ToR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed with ***public consultation*** as follows:	Conduct of Public Hearing as part of EIA Clearance process.	In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed **without** public consultation as follows:	As per EIA Notification, 2006 published by MoEF&CC and in the light of MoEF&CC Office Memorandum (F.No. J-11013/36/2014-IA-I) dated 04th April 2016, since this unit is located within Notified GIDC Industrial Estate of Ankleshwar, Gujarat, Public Hearing is exempted.

36.4.2.3 *The Committee, after deliberations, referred to the Ministry's OM dated 10th December, 2014 providing exemption from public hearing to the projects/activities located within the industrial estates/parks which were notified prior to 14th September, 2006 i.e. the EIA Notification, 2006 coming into force, and recommended the above proposal accordingly.*

The Committee further opined that all such proposals need to be considered on similar lines without referring the matter to the EAC.

Agenda No.36.4.3

Manufacture of drugs and drug intermediates by M/s RL Fine Chem Private Limited at Plot No.165 to 182 APIIC, IDA Thumukunta (V), Hindupur (M), Anantapur (D) (Andhra Pradesh) - Amendment in ToR

[IA/AP/IND2/71919/2017, J-11011/180/2016- I A II(I)]

36.4.3.1 The proposal is for amendment in the Terms of Reference granted by the Ministry vide letter dated 31st January, 2018 in favour of M/s RL Fine Chem private limited for the project for expansion of production capacity, located at Plot No. 165 to 182, APIIC, Thumukunta (V), Hindupur (M), Ananthapur (D), (Andhra Pradesh).

36.4.3.2 The project proponent has requested for amendment in the ToR with the details as under:

S. No	Para of ToR	Details as per the ToR	To be revised/ read as	Justification/ reasons
1	2	In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard ToR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed with public consultation	In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard ToR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance without public consultation	Our unit is categorized as Category A as interstate boundary is within 10 km radius. Our unit is located in APIIC, IDA thumukunta which is notified by Government of Andhra Pradesh in 1995, i.e. prior to 2006 EIA Notification. MoEF & CC issued a circular vide O.M No. J-11013/36/2014-IA-I dated 10th December 2014 exempting Industries from public consultation if the units are within the notified industrial estate which is notified prior to 14.9.2006. We are herewith submitting a copy of G.O of Government of Andhra Pradesh declaring Thumukunta as Notified Industrial area. Hence Public hearing is exempted for our unit. Also in the previous ToR granted vide J-11011/180/2016-

				IA II(I) dated 23.9.2016 Public hearing is exempted as per para7(i) III stage 3 (i)(b) of EIA Notififcation, 2006 as the site is located in Notified Industrial Area. In view of this kindly exempt the public hearing for submission of EIA.

36.4.3.3 *The Committee, after deliberations, referred to the Ministry's OM dated 10th December, 2014 providing exemption from public hearing to the projects/activities located within the industrial estates/parks which were notified prior to 14th September, 2006 i.e. the EIA Notification, 2006 coming into force, and recommended the above proposal accordingly.*

The Committee further opined that all such proposals need to be considered on similar lines without referring the matter to the EAC.

Agenda No.36.4.4

Expansion of Manufacturing Capacity of existing products and manufacturing of new pesticides, intermediate chemicals by M/s UPL Limited Unit -1 at Ankleshwar (Gujarat) - Amendment in ToR

[IA/GJ/IND2/71819/2017, IA-J-11011/582/2017-IA-II(I)]

36.4.4.1 The proposal is for amendment in the Terms of Reference/Environmental Clearance granted by the Ministry vide letter No IA-J-11011/582/2017-IA-II(I) dated 10th February 2018 for the project 'Expansion of Manufacturing Capacity of existing products and manufacturing of new pesticides, intermediate chemicals' proposed by M/s UPL Limited Unit # 01, located at Ankleshwar.

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

S. No	Para of ToR/EC	Details as per the ToR/EC	To be revised/ read as	Justification/ reasons
1	A General Description at Page No 2 of Standard ToR.	In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed **with public consultation** as follows:	In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed **without public consultation** as follows:	• UPL Unit 1 is located at within notified industrial estate at GIDC Ankleshwar Plot No 117 & 118 at Gujarat. The government of Gujarat has notified industrial estate in year 1978 vide Gazette notification no GHU-78-20-GID-1977-660-CH dated 07.02.1978.

2	**A. Standard Terms of Reference**, point number **11**, sub para-**i**	Social Commitment based on **Public Hearing issues** and item-wise details	Social Commitment issues and item-wise details	UPL Unit 1 is located at within notified industrial estate at GIDC Ankleshwar Plot No 117 & 118 at Gujarat. The government of Gujarat has notified industrial estate in year 1978 vide Gazette notification no GHU-78-20-GID-1977-660-CH dated 07.02.1978.
3	Part B – Specific Terms of Reference Condition No 6	Detailed Effluent Treatment Scheme including segregation for Units adopting Zero Liquid Discharge	Detailed Effluent Treatment Scheme including segregation of Effluent Streams. ETP treated effluent shall be sent to FETP operated by M/s NCT, Ankleshwar for further treatment and deep sea disposal.	The Unit has provided Effluent Treatment Plant with Primary, Secondary & Tertiary Treatment facilities with 400 KLD Capacity. The unit is operated as per valid GPCB consent no H – 88493 valid till 12/05/2018 with permission for discharge of treated effluent to Final Effluent Treatment Plant operated by M/s NCT, Ankleshwar for further treatment and deep sea disposal through closed pipeline. The UPL Ltd has extended support for establishment of FETP at Ankleshwar area for prevention of water pollution & will continue as a lead member of FETP operated by NCT, Ankleshwar. Additionally, Unit has installed 125 KLD Capacity RO Plant for recycle and reuse of low cod & low TDS streams which will be continued. The unit has proposed addition of 1000 KLD Capacity to Existing Effluent Treatment Plant & 100 KLD Capacity of Sewage Treatment

				Plant. The treated sewage will be reused in plantation and cooling towers.

36.4.4.3 *The Committee, after deliberations, referred to the Ministry's OM dated 10th December, 2014 providing exemption from public hearing to the projects/activities located within the industrial estates/parks which were notified prior to 14th September, 2006 i.e. the EIA Notification, 2006 coming into force, and recommended the above proposal accordingly. The Committee further opined that all such proposals need to be considered on similar lines without referring the matter to the EAC.*

25th April 2018 (Day 2)

36.5 Environmental Clearance

Agenda No.36.5.1

Capacity expansion of Drug manufacturing unit from 2 existing products to 12 proposed products of M/s Alka Laboratories Private Limited at BH-1124, RIICO Industrial Area, Phase III, Bhiwadi, District Alwar-19 (Rajasthan)

[IA/RJ/IND2/66213/2017, IA-J-11011/376/2017-IA-II(I)]

36.5.1.1 The Project Proponent and the accredited Consultant M/s Vardan Environet made a detailed presentation on the salient features of the project and informed that:

(i) The proposal for environmental clearance was considered in 34th EAC meeting at agenda no 34.5.1 and EAC instructed to reduce the production expansion by half. The earlier proposed production expansion was from 225 MTPA to 2904 MTPA which is revised to 1546 MTPA and accordingly the EIA was revised for the project of capacity expansion of Drug manufacturing unit from 2 existing products to 12 proposed products at BH-1124, RIICO Industrial Area, Phase III, Bhiwadi, District Alwar (Rajasthan) by M/s Alka Laboratories Pvt. Ltd.

(ii) The standard ToR has been issued by Ministry on 24/08/2017 and amended ToR letter exempting public hearing was issued on dated 08/12/2017.

(iii) The project falls under schedule '5(f)' and Category 'B', as per EIA Notification dated 14th September, 2006, as subsequent amended on 25th June 2014, but due to interstate boundary of Rajasthan and Haryana at a distance of 1.6 km NE direction, the project falls under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

(iv) The existing plant was established before the EIA Notification dated 14th September, 2006. So EC is not applicable.

(v) Existing land area is 1.3933 Ha. / 13933 sq.m. No additional land will be required for the proposed expansion project as the adequate land is already available and under the possession. Industry will develop greenbelt in an area of 33 % i.e., 0.464 ha. /4640 m2 out of total area of the project (1.39 ha.)

(vi) The estimated total project cost is Rs 13.39 Crores including existing investment of Rs. 11.89 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 116 lakhs and the Recurring cost (operation and maintenance) will be about Rs. 50 lakhs per annum. Total Employment will be 290 persons as direct & many persons indirect after proposed expansion. Industry proposes to allocate Rs 33.47 lakhs @ of 2.5 % towards Corporate Social Responsibility.

(vii) There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Indori nala is flowing at a distance of 5.8 km in East direction.

(viii) Ambient air quality monitoring was carried out at 8 locations during 1st Oct 2017 to 31st Dec 2017 and during March, 2018. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project are within the National Ambient Air Quality Standards (NAAQS).

(ix) Total water requirement is 80 m^3/day of which fresh water requirement of 50 m3/day will be met from RIICO industrial water supply.

(x) Effluent of 40 m^3/day quantity will be treated through Effluent Treatment plant (capacity of 50 KLD) with tertiary treatment followed by MEE is proposed for the project. The plant will be based on Zero Liquid discharge system.

(xi) Power requirement after expansion will be 800 KVA including existing 400 KVA and will be met from Jaipur vidyutvitrannigam ltd (JVVNL). Existing unit has 1 DG sets of 380 KVA capacity, additionally 1 DG of capacity 500 KVA will be used as standby during power failure. Stack (height of 3 m ARL) will be provided as per CPCB norms to the proposed DG sets.

(xii) Existing unit has 2 TPH coal fired boiler with Multi cyclone separator/bag filter with a stack of height of 30 m, installed for controlling the particulate emissions within the statutory limit of 100 mg/Nm3. Additionally 2 TPH Natural Gas based boiler will be installed for proposed project.

(xiii) Details of Process emissions generation and its management: Emissions is likely to be generated from the process & DG set stacks which will be controlled by providing a). Stack height as per CPCB guidelines b). Multiple cyclones followed by bag filter to control the emission from boiler & c).Green belt development (33% area) 0.4644 Ha. of land, around the peripheral area of 5-10m wide.

Effluent & waste water Management: a). All the waste water generated from domestic use will be treated in STP, b). Process effluent will be treated in ETP.

(xiv) Details of Solid waste/ Hazardous waste generation and its management: Boiler Ash (24 TPA) and ETP sludge (15 TPA) will be disposed through authorized TSDF facility & No waste shall be send out side the premises without treatment.

Hazardous Waste: Used oil is hazardous waste which will be handled properly.

(xv) Public Hearing for the proposed project has been exempted due its location in the notified Industrial area of RIICO, Rajasthan.

(xvi) The details of products and capacity as under:

S.No	Present Product	Present Quantity (MTPA)	Present Quantity (MTPA)
1	6-Aminopenicillin	150	150
2	Trimethoprim	75	75
Present Capacity		**225 (MTPA)**	**225 (MTPA)**
S.No.	**Proposed Product**	**Proposed Quantity (MTPA)**	**Revised Proposed Quantity as per EAC instruction (MTPA)**
3	Nimesulide	600	320
4	Pentaperazole sodium	120	20
5	Diclofenac Sodium	420	215
6	Diclofenac Potassium	180	48
7	Ornidazole	360	220
8	Mometasone Furote	1.2	0.6
9	Aceclofenac	360	230
10	Mefenamic Acid	420	220
11	Disulfiram	36	10
12	Ofloxacin	180	36
13	Deflazacort	1.2	0.6
14	Mecobalamin	1.2	1.2
Proposed Capacity		**2679.6 (MTPA)**	**1321 (MTPA)**
Total Capacity after proposed expansion		**2904.6 (MTPA)**	**1546 (MTPA)**

36.5.1.2 The proposal was earlier considered by EAC in its meeting held on 26-28 February, 2018. The Committee was not agreed with the proposed steep expansion of the drug manufacturing unit, mainly due to higher PM_{10} values reflecting poor baseline air quality which would further deteriorate with the proposed coal fired boiler. The Committee further noted that the proposed expansion involves increase in water requirement from 21 to 90 cum/day, for which the required permission from the concerned regulatory authority (CGWA) is yet to be obtained. The Committee noted that the project proponent agreed for reducing the proposed production by 50%, which would require restructuring of the proposal accordingly and accordingly deferred the proposal.

36.5.1.3 During deliberations, the EAC noted the following: -

The proposal is for environmental clearance to the project for expansion of drug manufacturing unit from 225 TPA (2 No. of products) to 1546 TPA (14 No. of products) by M/s Alka Laboratories Pvt Ltd in an area of 1.39 ha at plot No.B-1124, RIICO industrial area, phase-III Bhiwadi, Tehsil Tijara, District Alwar (Rajasthan).

The project/activity is covered under category B of item 5(f) 'Synthetic Organic Chemicals industry' of the Schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal by the concerned SEAC/SEIAA. However, due to applicability of general conditions (interstate

boundary of Rajasthan and Haryana at 1.6 km), the project was appraised at central level by the sectoral Expert Appraisal Committee in the Ministry.

The ToR for the project was granted on 24th August, 2017 followed by amendment dated 8th December, 2017, providing exemption from public hearing.

With the proposed capacity reduction by nearly 50%, predicted ground level concentrations for PM_{10} values at two of the monitoring locations, would be reduced from 100.552 & 100.501 ug/m^3 to 92.309 & 94.36 ug/m^3 respectively, and thus found to be meeting the prescribed standards.

Total water requirement is estimated to be 80 cum/day, of which fresh water requirement of 50 cum/day will be met from RIICO industrial water supply. Total effluent generated from different industrial operations is estimated to be 40 cum/day, which will be taken to the Effluent Treatment plant (capacity of 50 KLD) with tertiary treatment followed by MEE. The treated water of 40 KLD shall be recycled to supplement the water requirement of cooling tower. There will be no discharge of treated/untreated waste water from the unit, and thus conforming to Zero Liquid Discharge.

Considering the deteriorating air quality in the area, the committee suggested project proponent to use natural gas as fuel in the boilers instead of coal. The proponent agreed to use natural gas in the existing and proposed boilers.

Consent to Operate for the present capacity of 225 TPA bulk drugs has been obtained from the State PCB vide letter dated 23rd February, 2018, which is presently valid up to 31st May, 2022.

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

- *Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.*
- *As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.*
- *Natural gas shall be used as fuel for the existing and proposed boilers of 2 TPH each.*
- *Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.*
- *National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.*
- *To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.*
- *Solvent management shall be carried out as follows:*
  - *(i) Reactor shall be connected to chilled brine condenser system.*
  - *(ii) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.*
  - *(iii) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 98% recovery.*
  - *(iv) Solvents shall be stored in a separate space specified with all safety measures.*

(v) *Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.*
(vi) *Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.*
(vii) *All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.*

- *Total fresh water requirement shall not exceed* 50 cum/day, proposed to be met from RIICO industrial water supply*. Prior permission in this regard shall be obtained from the concerned regulatory authority.*
- *Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.*
- *Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.*
- *Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.*
- *The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.*
- *The company shall undertake waste minimization measures as below:-*
  (g) *Metering and control of quantities of active ingredients to minimize waste.*
  (h) *Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.*
  (i) *Use of automated filling to minimize spillage.*
  (j) *Use of Close Feed system into batch reactors.*
  (k) *Venting equipment through vapour recovery system.*
  (l) *Use of high pressure hoses for equipment clearing to reduce wastewater generation.*
- *The green belt of at least 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.*
- *At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.*
- *For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.*
- *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.*
- *Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.*
- *Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.*
- *Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.*
- *The energy sources for lighting purposes shall preferably be LED based.*

Agenda No.36.5.2

Proposed Manufacturing Unit of New Technical Pesticides by M/s Samradhi Crop Chemicals (SCC)at HD-20, 21, 22& 23, UPSIDC Industrial Area, Sikandrabad, District Bulandshahr (Uttar Pradesh)

[IA/UP/IND2/62984/2017, IA-J-11011/76/2017-IA-II(I)]

36.5.2.1 *The project proponent did not attend the meeting for the second time. The Committee suggested for delisting the proposal.*

Agenda No.36.5.3

Manufacturing of Sodium Cyanide Other Cyanide based products by M/s Hindustan Chemicals Company Ltd at Plot No.26-37, 54-57, 122, 143, Village Asnabad, Tehsil Olpad, District Surat (Gujarat)

[J-11011/466/2011-IA-II(I)]

36.5.3.1 Hon'ble National Green Tribunal (Western Zone) Bench, Pune vide order dated 7th December, 2017 in Appeal No.17/2016 (WZ) in the matter of 'Gujarat Khedut Samaj & othrs Vs MoEF&CC & othrs' regarding environmental clearance granted by the Ministry to the expansion project of M/s Hindusthan Chemicals Company has directed the following:-

(a) The EC dated 22nd January, 2016 granted to the expansion project of M/s Hindustan Chemicals Company is set aside.

(b) The EAC of MoEF shall consider the outcome of the public consultation including public hearing dated 14th November, 2014 along with suggestions/objection/documents made/raised/submitted by the stakeholders including the parties to the appeal, and the EAC shall take appropriate decision in the matter within sixty days and make recommendations accordingly to the MoEF in accordance with law.

(c) Liberty granted to the parties to make representations to the EAC along with all the relevant material in their possession or control within two weeks.

(d) MoEF is directed to take decision in light of the recommendations made by the EAC in accordance with law.

36.5.3.2 In compliance of the above directions of Hon'ble Tribunal, the proposal was considered by the Expert Appraisal Committee in its meeting held on 27-28 March, 2018. The Committee, after deliberations, recommended the following:-

- The Appellants may be consulted/heard in person during next meeting of the EAC, along with their submissions and suggestions to the Committee, if any, for better understanding of the case and also for the Committee to take appropriate decision in the matter.
- The Environment Department of the State Government may be requested for their comments on the public hearing conducted by the State Pollution Control Board on 14th November, 2014, and also on the suggestions/objections/documents submitted by the

stakeholders. Such comments may address the pollution concerns vis-à-vis the developmental projects in the study area.

- The Ministry may file an application before the Hon'ble Tribunal for extension and seeking adequate time to comply with their orders in letter and spirit.

In line with the above recommendations and subsequent approval in the Ministry, State Government/GPCB was requested vide Ministry's letter dated 12th April, 2018 to provide comments on the public hearing conducted by the State Pollution Control Board on 14th November, 2014, and also the suggestions/objections/documents submitted by the stakeholders at that stage. There has been, however, no response from the State Government so far.

36.5.3.3 During the meeting, the Project Proponent and their consultant M/s Aqua-Air Environmental Engineers Pvt. Ltd. made a detailed presentation on the salient features of the project and informed that:

(i) The proposal is for expansion of Sodium Cyanide & Other Cyanide based Products by M/s. Hindustan Chemicals Company and located at Plot No. Plot No. 26-37, 53-57, 122 & 143, GIDC Industrial Estate, Village Asnabad Taluka Olpad, Surat (Gujarat).

(ii) The ToR for the project was granted on 17th February, 2012.

(iii) All Products are listed at S.N. 5(b) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

(iv) Ministry has issued EC earlier vide letter no. J-11011/466/2009-IA II (I) dated October 5, 2010 for Expansion of Pesticide Unit and Co-generation Power Plant (2 MW) to M/s Hindusthan Chemicals Company (Formerly known as Cyanides and Chemicals Company)

(v) Existing land area is 2,04,995 $m^{2.}$ No additional land will be used for proposed expansion project. The proposed expansion project is to be developed in 15, 963 m^2 area of existing premises. HCC has covered a total of 2,04,995 m^2, plot area. The existing unit is already developed in 1,37,855 m^2 area. No additional land shall be purchased for the proposed expansion project.

(vi) Industry has developed Greenbelt in an area of 33% i.e., 92,247 m2 (45%) out of 2,04,995 m^2 of area of the project. The estimated project cost is Rs. 200 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.6.0 Crores and the Recurring cost (operation and maintenance) will be about Rs.1.54Crores per annum.

(vii) Total Employment will be 370 persons (Existing – 220 Nos. + Additional – 150 Nos. = Total – 370 Nos.) as direct & indirect for expansion project. Industry proposes to allocate Rs 10 Crores (approx.) in next 5 years @ of 5/2.5 % (2.5%) towards Corporate Social Responsibility.

(viii) There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.

(ix) Ambient air quality monitoring was carried out at 10 locations during March, 2012 to May, 2012 and submitted baseline data indicates that ranges of concentrations of PM_{10} (42.8-63.7 $\mu g/m^3$), $PM_{2.5}$ (21.9-38.5 $\mu g/m^3$), SO_2 (6.2-13.3 $\mu g/m^3$) and NO_2 (7.8-14.4 $\mu g/m^3$) respectively. AAQ

modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed expansion project would be 0.37 µg/m^3, 0.137 µg/m^3 , 0.12 µg/m^3 , 0.257 µg/m^3 and 0.034 µg/m^3 with respect to PM_{10}, SOx, NOx, HCN and HCl. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

(x) Total water requirement is 1105.2 m^3/day of which fresh water requirement of 1105.2 m^3/day and will be met from Kakrapar Canal.

(xi) The wastewater generation for proposed project will be 512.9 m^3/day. Effluent will be segregated into high TDS/COD and low COD/TDS effluent streams. High TDS/COD effluent stream will be evaporated in Multiple Effect Evaporator (MEE). Condensate will be treated in condensate treatment unit. Low TDS/COD effluent stream will be treated in effluent treatment plant (ETP) comprising of primary, secondary & tertiary treatment (Reverse Osmosis). Permeate will be recycled/reused for cooling tower make up. The proposed effluent treatment scheme for the existing unit as well as proposed expansion is based on “Zero Effluent Discharge”.

(xii) Power requirement for proposed expansion project will be 7200 KW and will be met from DGVCL. Natural gas based Power Plant (CPP) of capacity 2 MW and partly by self-generation from the steam turbine provided in the proposed Sodium Cyanide plant. 3 Nos. DG sets of 4750 KVA capacity (Existing – 2x1250 KVA + Additional – 1x2250 KVA = Total – 4750 KVA). UPS system (Existing – 400 KVA + Additional – 800 KVA = Total – 1200 KVA) shall be used as standby during power failure. Stack (height 20 m) will be provided as per CPCB norms to the proposed DG sets which will be used as standby during power failure.

(xiii) Unit shall have 2 Nos. of 3.5 TPH FO/NG based boiler will be installed. Multi cyclone separator/ bag filterwith a stack of height of 30 m will be installed for controlling the Particulate emissions (within statutory limit of 150 mg/Nm^3) respectively.

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

Details of Air Emission-Existing Plant

	Existing Plant	
	Flue gas emission through stack	
S. No.	1	2
Stack Attached to	Auxiliary Boiler (2 nos.)	D.G.Set (3 No.)
Capacity	3.5 MT/Hr & 3.5 MT/Hr	1250 KVA X 2 2250 KVA X 1
Stack dia in mm	750	500
Stack ht. in mtr.	30	20
Fuel used	Furnace Oil / NG	HSD
Consumption of fuel	F.O. 5 Ltrs./Hr N.G. 112 NM3/Hr	200 LTR./HR.
Flue gas velocity -m/sec	4-6	--
Flue gas temperature (^{0}C)	220 – 240	--
Emission parameter	PM,SO2 & NOX	--

APC	Cyclone Separator	Adequate stack monitoring facility

	Existing Plant	
	Process emission through Vent	
Sr. No.	1	2
Stack Attached to	Tail gas Incinerator (2 nos.)	Scrubber H.T. Plant (1 no.)
Capacity	6000 Kg./Hr	4000 kg/Hr
Stack dia in mm	1250	280
Stack ht. in mtr.	40	19.0
Gas Velocity (m/sec)	7 – 9	15-18
Gas Temperature (^{0}C)	80 – 110	30
Emission Parameter	PM, SO2, NOX HCN, HCl	PM, HCN
Air Pollution Control Measures / Devices	Bag Filter	Water Scrubber & Bag Filter

Details of Air Emission-Proposed Plant

	Proposed Project	
	Flue gas emission through stack	
Sr. No.	1	2
Stack Attached to	Auxiliary Boiler (2 Nos.)	1 x 2250 KVA (DG is installed and got the approval from the Electrical Inspector Application for NOC from GPCB is made
Capacity	3.5 MT/Hr. each	2250 KVA
Stack dia in mm	750	500
Stack ht. in mt.	30	20
Fuel used	NG	HSD
Consumption of fuel	112 NM3/Hr.	200 Lit/hr
Flue gas velocity (m/sec)	4-10	--
Flue gas temperature (0C)	220-240	--
Emission parameter	PM, SO2, NOX,	--
Rate of emission	PM : <150 mg/Nm3	PM : <150 mg/Nm3
	SO2 : <100 ppm	SO2 : <100 ppm
	NOX : < 50 ppm	NOX : < 50 ppm
APC	Not required as NG is used as fuel.	Adequate stack monitoring facility

Proposed Project	
Process emission through Vent	
Sr. No.	1
Stack Attached to	Tail gas Incinerator
Capacity	6000 Kg./Hr
Stack dia in mm	1250
Stack ht. in mt.	40
Gas Velocity (m/sec)	7-9
Gas Temperature (0C)	80-110
Emission Parameter	PM, SO2, NOX, CO, HCN
Rate of emission	PM : <150 mg/Nm3
	SO2 : <100 ppm
	NOX : <50 ppm
	HCN : < 30 mg/Nm3
APC	Bag Filter & Wet Scrubber

(xv) Eight Categories of Hazardous/Solid Wastes shall be generated from this Unit. ETP Sludge @ 25 MT/Annum (Existing-14 MT/Annum, Additional-11 MT/Annum) which will be stored in hazardous waste storage area and send to TSDF site for disposal. Used oil @ 920 Ltr./Annum (Existing-800 Ltr./Annum, Additional-120 Ltr./Annum) which will be sold to the approved recyclers. Empty Containers & Contaminated polyliner @ 450 Nos./Annum (Existing-200 Nos./Annum, Additional-250 Nos./Annum) which will be Sold to MoEF/GPCB approved scrap dealer. Tar Residues/ Distillate Residues @ 90 MT/Annum (Existing-Nil, Additional-90 MT/Annum) & Spent Resin @ 4.5 MT/Annum (Existing-1.5 MT/Annum, Additional-3 MT/Annum) which will be stored in drums at Solid Waste Storage area and send to TSDF site for disposal by incineration. Residues for ETP (MEE Salt) @ 330 MT/Annum Existing – 330 MT/Annum + Additional – 0 MT/Annum) which will be Collected, Stored, Transported and Disposal by Incineration at CHWT Facility. Activated Carbon @ 170 Kg/Day (Existing-170 Kg/Day + Additional- Nil), Ferric Hydroxide @ 40 Kg/Day (Existing – 40 Kg/Day + Additional – 0 Kg/Day) & Iron Sludge @ 8 MT/Annum (Existing – 8 MT/Annum + Additional – 0 MT/Annum) which will be Collected, Stored, Transported and Disposal by Incineration at CHWT Facility.

(xvi) Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 14/11/2014 at HCC's Housing Colonu Compound, Opp. Astha Petrol Pump, Olpad-Surat Road, Village Masma, Tal. Olpad, Surat.

(xvii) Certified Compliance Report was submitted on 15/10/2013.

(xviii) Status of Litigation Pending against the proposal: M/s. Hindusthan Chemicals Company (formerly known as M/s. Cyanide & Chemicals Company) has obtained Environmental Clearance from MoEF&CC, New Delhi vide Letter No. F.No. J-11011/466/2011-IA II (I), dated January 22, 2016 for manufacturing of Sodium Cyanide and other Cyanide based products at Plot No. 26-37, 54-57, 122, 143, Vill: Asnabad, Tehsil Olpad, Dist. Surat, Gujarat.

Hon'ble National Green Tribunal (Western Zone) Bench, Pune in Appeal No. 17/2016(WZ) vide order dated 07/12/2017 has set aside the above said EC and directed that fresh appraisal should be done after consideration of the Public Hearing Comments/Suggestions.

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

No.	Product	Existing capacity MT/Annum	Proposed Capacity MT/Annum	Capacity Total MT/Annum
1	Hydrogen Cyanide	5100	--	5100
2	Sodium Cyanide	6372	15000	21372
3	Potassium Cyanide	2000	-	2000
4	Sodium / Potassium Ferro Cyanide	1000	-	1000
5	Diphenyl Guanidine	1260	-	1260
6	Sodium Dicyanide	300	-	300
7	Mandelonitrile	2500	-	2500
8	Heat Treatment Salt	720	-	720
9	Cyanohydrines	5000	2000	7000
10	Nitriles	3000	300	3300
11	Cyanide Based Products	3500	6300	9800
	Total	30752	23600	54352
12	Ammonium Sulphate (By-product)	2649	-	2649
13	NG based CPP	2 MW	-	2 MW

Bifurcation of Product List

No.	Product	Existing capacity MT/Annum	Proposed Capacity MT/Annum	Capacity Total MT/Annum
1	Hydrogen Cyanide	5100	--	5100
2	Sodium Cyanide	6372	15000	21372
3	Potassium Cyanide	2000	-	2000
4	Sodium Ferro Cyanide	1000	-	1000
5	Potassium Ferro Cyanide			
6	Diphenyl Guanidine	1260	-	1260
7	Sodium Dicyanide	300	-	300
8	Mandelonitrile	2500	-	2500
9	Heat Treatment Salt	720	-	720
10	Cyanohydrines Group			
i)	Meta Phenoxy Benzaldehyde Cyanohydrin (MPBAD Cyanohydrin)	5000	-	5000
ii)	Formaldehyde Cyanohydrin (Glycolonitrile)			
iii)	Acetone Cyanohydrin			
iv)	Methyl Ethyl Ketone Cyanohydrin			

v)	Acetaldehyde Cyanohydrin (Lactonitrile)			
vi)	Para Anisaldehyde Cyanohydrin			
vii)	Cyclohexanone Cyanohydrin			
viii)	Methyl Propyl Ketone Cyanohydrin			
ix)	Methyl Mercapto Butyronitrile (Methyl MercaptgoPropopnaldehyde Cyanohydrin)			
x)	Cyclo Pentanone Cyanohydrin	-	500	500
xi)	2-Chloro Benzaldehyde Cyanohydrin (2-Chloro Mandelonitrile)	-	500	500
(xii)	Ortho Tolyl Benzaldehyde Cyanohydrin (Ortho Tolyl Mandelonitrile)	-	1000	1000
	Total of Cyanohydrines Group	5000	2000	7000
11	Nitriles Group			
i)	Isophoron Nitrile	3000	-	3000
ii)	Imino Diacetonitrile			
iii)	Succinonitrile			
iv)	3-Hydroxy Propionitrile			
v)	Methyl Amino Acetonitrile Hydrochloride			
vi)	Methylene Amino Aceto Nitrile (MAAN)	-	300	300
	Total of Nitriles Group	3000	300	3300
12	Cyanide Based Products			
i)	Sodium Cyano Acetate	3500	-	3500
ii)	Cyanamide (Crystals & Aqueous Solution)			
iii)	Para Anisaldehyde Cyanohydrin			
iv)	DiorthoTolyl Guanidine (DOTG)			
v)	Zinc Cyanide	-	300	300
vi)	Isophoron Diamine	-	6000	6000
	Total of Cyanide Based Products	3500	6300	9800
	Total	30752	23600	54352
13	NG Based CPP	2 MW	--	2 MW
14	Ammonia Sulphate (By-Product)	2649	--	2649

36.5.3.4 During deliberations, the EAC noted the following:-

The Ministry had granted environmental clearance vide letter dated 22nd January, 2016 in favour of M/s Hindusthan Chemicals Company for the project 'Manufacturing of Sodium Cyanide & other

Cyanide based products' at Plot No.26-37, 54-57, 122, 143, Village Asnabad, Tehsil Olpad, District Surat (Gujarat).

The project/activity is covered under category A of item 5(b) 'Pesticides industry and pesticide specific intermediates (excluding formulation)' of Schedule of Environment Impact Assessment (EIA) Notification, 2006, and requires appraisal at central level by the sectoral EAC in the Ministry.

The ToR for the project was granted on 17th February, 2012 and the public hearing was reportedly conducted on 14th November, 2014 by the Gujarat Pollution Control Board. However, the proposal for environmental clearance was appraised by the EAC, considering the project site located in notified Industrial area (Olpad Industrial Area) and thus exempting from public consultation/hearing. The EC dated 22nd January, 2016 granted to the project finds mention that 'Public hearing/consultation was exempted as per stage Section 7(i), III stage (3) Para (i)(b) of the EIA Notification, 2006.

36.5.3.5 The proceedings of public hearing dated 10th November, 2014 conducted by Gujarat SPCB, were made available by the project proponent during the meeting only. The concluding remarks of the same quotes as under:-

'Chairman of the public hearing and District Magistrate informed that this public hearing was commenced at about 4 pm. The people present here were protesting against the company from the very beginning itself. Local public have represented several objections against the company. They have also raised the question about the GIDC land issues. All the representations have been patiently listened to by the panel and also received number of written representations. All this representations will be forwarded to Ministry of Environment and Forest, New Delhi. Company had not given the satisfactory answer and my question also remains unanswered. Company has stated that the replies would be submitted subsequently. Due to heavy protest from the people present here demanded that not only the expansion of the production shall be rejected but the EC sanctioned earlier should also be cancelled. He declared the public hearing completed with expressing thanks to the people.'

36.5.3.6 *The Expert Appraisal Committee, after deliberations, took serious note of the concerns raised during public hearing, which prima-facie appeared to be neither technically concluding nor implying/facilitating consideration of the proposal for grant of environmental clearance. The Committee, however, desired for circulation of the public hearing proceedings to all its members for further deliberations.*

The Committee also insisted for detailed comments of the State Government in response to this Ministry's letter dated 12th April, 2018 to decide further course of action.

Agenda No.36.5.4

Proposed 30 TPH Fertilizer Blending unit for Customized NPK Production, 25 MW along with MP steam, Gas Turbine, Unfired capacity of 50 MT/Hr Heat Recovery Steam Generator & 1X5000 MT Atmospheric Ammonia Storage Tank & Urea Granulation, 1500 MTPD to 1800 MTPD (Urea Prilling-1200 MTPD, Urea Granulation-600 MTPD) by M/s Zuari Agro Chemicals Ltd at Zuarinagar, Sancoale Village, Mormugao Taluka, South Goa District (Goa) - Reconsideration for Environmental clearance

36.5.4.1 The project proponent and the accredited Consultant M/s Kadam Environmental Consultants, made a detailed presentation on the salient features of the project and informed that:

(i) The proposal is for Modernization of the Urea Manufacturing facility by Installation of Urea Granulation Unit, Atmospheric Ammonia Storage Tank, Gas Turbine + HRSG by M/s. ZUARI AGRO CHEMICALS LIMITED and located at Zuarinagar, Sancoale Village, Mormugao Taluka, South Goa District, GOA. The project is to conform with the various policy notifications issued by the Department of Fertilizers, Ministry of Chemicals & Fertilizers, Government of India viz. the New Urea Policy (NUP)-2015 vide Notification No.: 12012/1/2015-FPP dated 25th May, 2015, the New Investment Policy (NIP)-2012, Pooling of Gas for Fertilizer (Urea) Sector-2015 with the objective of maximizing indigenous Urea production, promoting energy efficiency in Urea production and rationalizing subsidy burden on the Government.

(ii) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 44th EAC meeting held during 20-21st July, 2016 and recommended Terms of References (ToR) for the Project. The ToR has been issued by Ministry vide letter no. J-11011/186/2015-IA II (I) dated 18th February, 2016.

(iii) All products 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).

(iv) Ministry has issued EC earlier vide letter no. J-11011/217/2008-IA II (I); dated 1st September, 2009 for Revamp of Ammonia Plant for changeover of feedstock and fuel from Naphtha to NG/RLNG and reduction of specific energy consumption along with debottlenecking the capacity of ammonia-urea plants, changeover of fuel from FO to NG/RLNG in the utility boiler as also debottlenecking the capacity of NPK plant A & B alongwith product mix change at Zuari Nagar, Goa to M/s Zuari Industries Ltd.

(v) No additional land will be used for proposed modernization. The proposed facilities will be located within the existing Factory Boundary Wall. Infact, there is a reduction in FAR/FSI about 8000 m^2. Industry will increase its greenbelt cover within the boundary wall of existing Factory complex from 10.2 % to 20% of area of the project. The greenbelt cover outside the factory complex accounts for approximately 50% of the entire land property of ZACL, Goa.

(vi) The estimated project cost for modernization unit is INR 788.60 crores. Total capital cost earmarked towards environmental pollution control measures is INR 10.35 Crores and the Recurring cost (operation and maintenance) will be about INR 0.91 Crores per annum.

(vii) Total Employment will be 80-100 Persons as direct & 100-150 persons indirect during the operational lifecycle of proposed modernization project. Industry proposes to allocate INR 20 Crores @ of 2.5 % towards Corporate Social Responsibility.

(viii) There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Zuari Estuaryis at a distance of 2.25 Km in SE direction.

(ix) Ambient air quality monitoring was carried out at Six (6) locations during March, 2016 to May, 2016 and submitted baseline data indicates the ranges of concentrations as: PM_{10} (40-91 µg/m^3), $PM_{2.5}$ (16-38 µg/m^3), SO_2 (8-10.7 µg/m^3), NO_x (10-19.5 µg/m^3) and NH_3 (20-47.7 µg/m^3). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 2.57 µg/m^3, 0.08 µg/m^3, 1.39 µg/m^3 and 0.851 µg/m^3 with respect to PM_{10}, SO_2, NO_x& NH_3. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

(x) Total raw water requirement for the overall complex after the modernization is 7,650 m^3/day and will be met from the existing pipeline sourcing from Water Resource Department (WRD) Supply, Govt. of Goa. Post modernization the Raw Water Consumption is reduced by over 2000 m^3/day. Total effluent generated from the overall complex, 2,305 KLD which will be treated in existing ETP, STP & RO Facilities. Post modernization, the effluent generation is reduced by 220 KLD. The Factory will continue to treat the Effluent streams and reuse/recycle the same within the Factory Complex and hence maintain the status of Zero Liquid Effluent Discharge Plant.

(xi) Additional 2 MW Power requirement after modernization will be will be met from a combination of New GTG based Captive Power Plant and the existing unit of 1 DG set of 6 MW capacity. The Factory also has a sanctioned load of 6250 KVA from the Grid. No additional DG sets are required. Adequate Stack height 30 m is provided as per CPCB norms to various existing DG set will be used as standby during power failure.

(xii) Existing unit has 3 x 70 TPH NG fired utility boilers as part of the existing Captive Power Plant (STG based). Adequate stack height of 30 – 45 m is installed for controlling the Particulate emissions. However, this STG based Captive Power Plant would be decommissioned and replaced with the new GTG Based CPP (GT + HRSG). No new utility boiler is required for the modernization unit. Process steam / Drive steam will be sourced from existing Process Waste Heat Boilers and the new HRSG.

(xiii) Details of Proposed Process emissions generation and its management is tabulated as below:

Stack No.	Stack attached to	Proposed APCM	Stack Height (m)	Remarks / Technical Specification
Proposed Flue Gas Stack attached to Boiler / Furnace				
1	GT+ HRSG stack	Dry Low NO_x burners.	30	-
Proposed Various Other Stacks/vent of reactors, process, vessel				
1	Urea Granulation Plant	Wet Scrubber	40	Sampling location and platform shall be made
Proposed Flare Stack				
1	Flare Stack attached to AAST	--	43	Pilot burners will fire natural gas. Flaring capacity of 1,039 Kg/hr

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

S. No.	Waste Name	Cat	Quantity (MTPA)			Details of Storage Facility	Mode of Transportation	Disposal Method
			Existing	Proposed	Total			
1	Spent catalyst	18.1	117	0	117	Partly stored in closed, labeled steel vessel and partly in MS drums with closed lids. Stored in dedicated closed shed area away from normal operating area.	Stored in MS Drums and transported by Trucks dedicated to handle Hazardous waste.	To recycler registered with CPCB and having valid authorization of SPCB.
2	Chemical sludge from waste water treatment	34.3	45	0	45	The sludge after drying in SDBs is totally recycled to NPK-A & NPK-B plants along with filler for process use.	-	Recycled within premises.
3	Furnace oil tank cleaning residue and washing water & sludge	3.1	250	Very less quantity almost negligible	250	Stored in leak proof MS drums with closed lids. Stored in dedicated closed shed area away from normal operating area.	Stored in MS Drums and transported by Trucks dedicated to handle Hazardous waste.	To recycler registered with CPCB and having valid authorization of SPCB.
4	Used/Spent Oil	5.1	35		35			

(xv) Public Hearing for the proposed project has been conducted by the Goa Pollution Control Board on 11th July, 2016. The main issues raised during the public hearing are related to disposal of waste water via deep sea discharge, which was clarified by ZACL that the pipeline has been maintained and monitored as per the mandate of the High Court of Bombay and the directions of the Pollution Control authorities. However it is pertinent to note that though this pipeline exists, it is maintained strictly for emergency situations and till date the Company has maintained its position as a Zero Effluent Discharge Plant since 1990.

(xvi) Details of Certified compliance report submitted by RO, MoEF&CC. (In case of EC Proposal): ZACL has received Environmental Clearances from MoEFCC, New Delhi F. No. J-11011/217/2008-IA-II (I) dated 01/09/2009. Site visit was carried out by RO-MoEFCC (Southern zone), Bangalore on 15th November, 2017. Certified Monitoring & Compliance report was received vide letter no. EP/12.1/232/GOA.

(xvii) The details of products and capacity:

S. No.	Plant	Capacity(MTPD)		
		(Existing)	(Proposed)	(Post-Modernization)

1	Urea	1,500 (All Prilling)	-300 (Prilling) + 600 (New Granulation Plant)	1,200 (Prilling)+ 600 (Granulation) = 1,800
2	Complex Fertilizers produced in NPK A Plant	1,600	0	1,600
3	Complex Fertilizers produced in NPK B Plant	1,600	0	1,600
4	Ammonia	1,050	0	1,050
5	Horton Sphere Ammonia Storage tank	3,000 (1+1)	Atmospheric Ammonia Storage Tank 1 X 5,000	Atmospheric Ammonia Storage Tank 1 X 5,000
6	Gas Turbine	0	25 MW	25 MW
7	Heat Recovery Steam Generator	0	Generation of MP Steam (37 Kg/Cm^{2}g) - Capacity (Unfired/with supplementary firing) = 50 /70 MT/hr	Generation of MP Steam (37 Kg/Cm^{2}g) - Capacity (Unfired/with supplementary firing) = 50 /70 MT/hr

(Proposed Project will not include 30 TPH Fertilizer Blending Unit for Customized NPK Production. – due to Notification of amendment in FCO,1985 (Customized NPK Fertilizers) by DAC,C & FW dated 24th January, 2018).

36.5.4.2 The proposal was earlier considered by the EAC in its meetings held on 26-29 December, 2016 and 28-29 September, 2017. The Committee in its last meeting asked for further clarifications/inputs in respect of the following:-

- The proposal and the project/activities requiring prior EC, need to be consistent with the items listed in the Schedule to the EIA Notification, 2006. The project title also requires correction accordingly to avoid any confusion on admissibility of the proposal vis-à-vis the said Notification.
- The formal recommendations from the Goa SCZMA along with the desired documents are yet to be forwarded to this Ministry by the Authority.
- The permissibility of the project/activity in terms of the CRZ Notification, 2011 is not justified.
- The monitoring report on compliance status of the conditions for the EC dated 1st September, 2009 was earlier submitted by the Regional Office vide their letter dated 25th September, 2013. Since the same is more than 3 years old, fresh inspection needs to be conducted for the latest monitoring report from the concerned Regional Office.

36.5.4.3 In response, para wise details submitted by the project proponent are as under:-

(i) Revised proposal correcting the project title.
(ii) Letter dated 30th November, 2017 from Goa Coastal Zone Management Authority containing comments on the proposal along with recommendation for consideration for CRZ clearance. The major points considered by the Authority while recommending the proposal are:

- ZACL factory was established/constructed in 1971 and the commercial production commenced in May, 1973 well before the CRZ Notification, 1991.

- All the proposed facilities (projects) would be installed within the established factory limits/compound wall. The proposed facilities will be located between 200-500 m from the HWL and falls under the CRZ-III zone (lateral setback).
- The GT+HRSG facility would be built on the location of the erstwhile Argon Recovery Unit which stands demolished. Similarly, the AAST and the customized NPK fertilizer unit would be built on the location of the erstwhile Naphtha tank-yard which has been already demolished. Only the urea granulation unit and the MCC building would be built on a new area. However, both of these facilities are located in such a way that they would be surrounded by existing facilities/buildings. Moreover, the existing SPG facility and the Horton spheres would be demolished. The total area which will be/is demolished and cleared is 22432 sq.m whereas the area that would be occupied by the proposed facilities is 15853 sq.m. Thus there is a reduction in the foot print (FAR/FSI) of the buildings/structures to the tune of 6579 sqm within the factory compound wall.

(iii) Copy of latest report from the Regional Office on compliance status of the conditions stipulated in the EC was submitted.

36.5.4.4 During deliberations, the EAC noted the following:-

The proposal is for environmental clearance to the project for expansion cum modernization of the Urea Manufacturing Plant by installation of 600 MTPD urea granulation unit, 1x5000 MT Atmospheric Storage Tank, 25 MW Gas Turbine and Medium Pressure Steam generating HRSG (70 MT/hr) by M/s Zuari Agro Chemicals Ltd located at Zuarinagar, Sancoale Village, Mormugao Taluka, South Goa District (Goa).

The project/activity is covered under category A of item 5(a) 'Chemical Fertilizer' of the Schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal at central level by the sectoral Expert Appraisal Committee in the Ministry.

The ToR for the project was granted on 18th February, 2016, and the public hearing was conducted by the SPCB on 11th July, 2016. The main issues raised during the public hearing are related to disposal of waste water via deep sea discharge. The project proponent informed that though the pipeline exists, the plant is maintaining Zero Effluent Discharge since 1990.

Total water requirement after modernization is estimated to be 7,650 cum/day, to be met through the existing pipeline supply from Water Resource Department (WRD), Govt. of Goa.

Total effluent generated from different industrial operations is estimated to be 2,305 cum/day, which will be taken to the Effluent Treatment plant, STP & RO for treatment. The treated water of shall be recycled to supplement the water requirement in the factory complex. There will be no discharge of treated/untreated waste water from the unit, and thus conforming to Zero Liquid Discharge.

Earlier, the Ministry had issued environmental clearance on 1st September, 2009 for 'Revamp of Ammonia Plant for changeover of feedstock and fuel from Naptha to NG/RLNG and reduction of specific energy consumption along with debottlenecking the capacity of ammonia-urea plants, changeover of fuel from FO to NG/RLNG in the utility boiler as also debottlenecking the capacity of NPK plant A & B alongwith product mix change'. The latest monitoring report on compliance status

of EC conditions, forwarded by the Ministry's Regional Office at Bangalore after conducting site visit on 15.11.2017 is found to be satisfactory.

36.5.4.5 *The EAC, after deliberations, opined that the project actually involves increase in production of Urea from the present capacity of 1500 TPD to 1800 TPD, along with installation of Ammonia storage tank of 1x5000 MT (replacing the existing storage facilities), gas turbine of 25 MW and Heat recovery steam generator. The said project/activities are proposed to be implemented in the area covered under the CRZ regulations.*

The Committee further noted that bulk of the project area lies between 200 m-500 m from the HTL, classified as CRZ-III, as per the approved Coastal Zone Management Plan of the area. The said activities/facilities are also proposed in that CRZ-III area only, which are not permissible under the extant provisions of the CRZ Notification, 2011.

Accordingly, the Committee observed the proposal not admissible in terms of the statutory provisions, and thus not recommended.

36.6 Any Other

Agenda No.36.6.1

Expansion of specialty chemicals, pesticide, fluoro chemicals & captive power plant in existing unit of M/s. SRF LIMITED Plot No. D-2/1, Village: Suva, GIDC Phase II, Dahej, Taluka-Vagra, District-Bharuch (Gujarat)- Amendment in EC

[IA/GJ/IND2/60725/2016, J-11011/379/2016-IA.II(I)]]

36.6.1.1 *The project proponent did not attend the meeting. The proposal was, therefore, deferred.*

Agenda No.36.6.2

Setting up POL Terminal at Korba (Chhattisgarh) by M/s Indian Oil Corporation Ltd (IOCL) - Amendment of EC reg.

[IA/CG/IND2/72982/2013, F. No. J-11011/8/2011- IA II (I)]

36.6.2.1 The proposal is for amendment in the environmental clearance granted by the Ministry vide letter dated 24th October, 2013 for the project "Setting Up of Petroleum-Oil-Lubricant (POL) Terminal" at Korba (Chattisgarh) in favour of M/s Indian Oil Corporation Limited (IOCL).

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

(a) **Para of EC issued by MoEF & CC:** 2nd Para, Table S.No. 14

(b) **Details as per the EC:**

S.No	Tank No.	Product	Size of Tanks	Nominal Capacity (m^3)	Tank Type	Class
14	HSD-4	HSD	34 M Dia x 13 M	11628	Cone Roof	B

			Ht			

(c) **To be revised/read as:**

S.No	Tank No.	Product	Size of Tanks	Nominal Capacity (m^3)	Tank Type	Class
14	HSD-4	HSD	34 M Dia x 13 M Ht	11488	Cone Roof	B
15	LDO-1	LDO	3.1 M Dia x 10.5 M Length	70	Above-ground Horizontal Tank	C
16	LDO-2	LDO	3.1 M Dia x 10.5 M Length	70	Above-ground Horizontal Tank	C

(d) **Justification/Reasons:** Korba Terminal is a newly commissioned state of the art POL Terminal of Indian Oil Corporation Limited functioning as Logistic Hub towards supplies of Petrol (MS), Diesel (HSD) and Kerosene (SKO) to the northern part of the Chhattisgarh. In order to cater to the industrial demand of Light Diesel Oil (LDO) in the state of Chhattisgarh, a Class C product as per Explosive Rules, which is not marketed by other Oil companies, our Management has planned to introduce the Receipt, Storage and Dispatch facilities in very small scale (two tanks with individual capacity of 70KL) at Korba Terminal.

36.6.2.3 *The EAC, after deliberations, noted that the proposal for amendment in environmental clearance dated 24th October, 2013 is due to minor revision in scope of the project, limited to reduction in HSD storage by 140 KL and addition of two tanks for LDO storage of 70 KL each, with the total storage capacity of 74640 KL of POL terminal remaining the same. The Committee observed that given the details, the provisions of para 7(ii)(b) of the Ministry's Notification dated 23rd November, 2016 would be applicable, requiring no EC or amendment in the existing EC.*

Agenda No.36.6.3

Expansion of Molasses based Distillery unit from 90 KLPD to 200 KLPD, Organic Chemical Products, 12 MW New Captive Power Plant and Acetic Anhydride Plant under product mix by M/s Jubilant Life Sciences Limited at Nimbut Nira, Baramati, Pune (Maharashtra) - Amendment in EC

[IA/MH/IND2/72003/2008, J-11011/745/2007-IA II (I)]

36.6.3.1 The proposal is for amendment in the environmental clearance granted by the Ministry vide letter dated 23rd December, 2008 for the project 'Expansion of Molasses based Distillery unit from 90 KLPD to 200 KLPD, Organic Chemical Products & 12 MW New Captive Power Plant at Nimbut-Nira, District Pune (Maharashtra) in favour of M/s Jubilant Organosys Ltd (now M/s Jubilant Life Sciences Ltd) and amendment dated 21st December, 2010 for 'Acetic Anhydride Plant under product mix'.

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

S. No.	Para of EC	Details as per EC	To be revised/read as	Justification /reason
1	Para 3 of EC -2008	Details of product	1. Ethyl Alcohol : 200 KLD	We propose to manufacture Anhydrous Alcohol (Ethyl alcohol - 99.8%) from in-house

	and 2010	1. Ethyl Alcohol : 200 KLD	Ethyl Alcohol (94%) & Anhydrous Alcohol (Ethyl alcohol - 99.8%) produced from in-house generation of ethyl alcohol and purchased from open market.	generation of ethyl alcohol and purchased from open market. Total quantity within the EC limit. (Manufacturing of Anhydrous Alcohol (99.8%); through Molecular Sieve Bed Technology, does not increase the effluent load)
2	Para 3 of EC -2008 and 2010	Details of product : Unit: TPD	Unit: TPA (TPD x 365 days)	Due to inbuilt features of any continuous operating chemical plant, the net production of the unit on a daily basis fluctuates. This cannot be made up using the margins of capacity in the design of the plant or improved operational efficiencies of the facility, in case of Consent conditions stipulating Tons Per Day (TPD) resulting in completely losing the opportunity to produce. The amendment to EC from TPD to TPA would facilitate us to operate the plant at most optimum conditions of Energy efficiency and resource efficiency without any increase in pollution loads. This also facilitates the unit to take appropriate length of time through shutdown for periodic maintenance thus improve the asset life and reliability.

36.6.3.3 The proposal was earlier considered by the EAC in its meeting held on 26-28 February, 2018. The EAC after deliberations and verification of the documents, noted that the environmental clearance dated 23rd December, 2008 was granted in favour of M/s Jubilant Organosys Ltd. However, the present proposal for amendment was submitted by M/s Jubilant Life Sciences Ltd, without changing the EC in their favour. The Committee noted that the proposal is not admissible and preferred to defer the proposal till needful is done by the project proponent.

36.6.3.4 During the meeting, the project proponent informed the Committee that the proposal for transfer of said environmental clearance from M/s Jubilant Organosys Ltd to M/s Jubilant Life Sciences Ltd was submitted on 6th March, 2018. The same was reported to be under process and yet to be transferred.

In respect of the proposed amendments, the Committee observed that there being no change in the capacity of the distillery, the same could be permissible in terms of the provisions contained in the para 7 (ii) of this Ministry's Notification dated 23rd November, 2016.

36.6.3.5 *The Committee, after deliberations, agreed in-principle for change of one of the product, 'Ethyl Alcohol' to be read as 'Ethyl Alcohol (94%) & Anhydrous Alcohol (99.8%)' subject to their manufacturing through Molecular Sieve Bed Technology with no increase in pollution load. The Committee further suggested the project proponent to seek No increase in Pollution Load certificate from the State Pollution Control Board.*

26th April 2018 (Day 3)

36.6 Environmental clearance

Agenda No.36.6.4

Expansion of Refrigerant gas & Fluorospecialty chemicals Plant from 22,320 MTPA to 46,800 MTPA by M/s Gujarat Fluorochemicals Limited at Survey No.16/3, 26, 27, Village Ranjitnagar, Taluka Ghoghamba, District Panchmahal (Gujarat) - Environmental Clearance

[J-11011/31/2016-IA II (I) IA/GJ/IND2/38613/2016]

36.6.4.1 The Project Proponent and the accredited Consultant M/s Anand Environmental Consultants Pvt Ltd made a detailed presentation on the salient features of the project and informed that:

(i) The proposal is for environmental clearance to the project expansion by addition of new products and change in product quantity (from 22,320 MTPA to 46,800 MTPA) and installation of incinerator at existing refrigerant gas and fluorospecialty chemicals unit at Survey No. 16/3, 26, 27, Village Ranjitnagar, Taluka Ghoghamba, District Panchmahal, Gujarat by M/s Gujarat Fluorochemicals Limited.

(ii) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 8th meeting held during 26-27 May, 2016 and recommended Terms of References (ToRs) for the Project. The ToR has been issued by Ministry vide letter No.J-11011/31/2016-IA II (I) dated 15th July, 2016.

(iii) The project/activity is covered under category A of item 5(f) 'Synthetic organic chemicals' of the Schedule to EIA Notification, 2006, and requires appraisal at central level.

(iv) Earlier Ministry had issued EC to M/s Gujarat Fluorochemicals Limited vide letter no. F.No.J-11011/356/2007-I-A(I) dated 14th August, 2007 for the manufacturing of refrigerant gas & fluorospecialty chemicals.

(v) Existing land area is 2,05,803 m^2 (20.5 ha) and expansion activity will be carried out within the existing premises. Greenbelt has already developed in 87,545 sqm area out of total area.

(vi) The total estimated cost of the proposed expansion is Rs.100 crores. Total capital cost earmarked towards environmental pollution control measures is Rs.2 crores and the recurring cost (operation & maintenance) will be about Rs.4 Crore per annum. Total Employment will be 170 persons as direct & indirect.

(vii) There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Pavagadh Archeological Park World Heritage is situated at 8.5 km distance for the project site. Mahi River is flowing at a distance of more than 10 km from the project site.

(viii) Ambient air quality monitoring was carried out at 8 locations during September 2016 to November 2016 and the baseline data indicates the ranges of concentrations as: PM_{10} (65 - 74

µg/m³), $PM_{2.5}$ (18 - 28 µg/m³), SO_2 (12-16 µg/m³) and NO_2 (17-24 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 7 µg/m³, 7 µg/m³ and 3 µg/m³ with respect to PM_{10}, SO_2 and NOx. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

(ix) Total fresh water requirement will be 775 cum/day and the same will be met from Narmada Nigam Water Supply/borewell from 2nd day onwards and condensate from evaporator will be used to process scrubber.

(x) Effluent of 36 m³/day (industrial effluent) quantity will be treated through ETP & treated effluent will be evaporated through Psychometric Evaporator/ SEE/ MEE/ Spray dryer and condensate from evaporator will be reused to process scrubber as well as 30 m³/day (domestic effluent) will be treated through STP and treated domestic effluent water will be used for gardening /plantation purpose within premises. The plant will be based on Zero Liquid discharge system.

(xi) Power requirement will be 3400 kW proposed to be met from Madhya Gujarat Vij Company Limited (MGVCL) and GG sets of 1020 kVA, 1365 kVA and 1365 kVA capacity. Additionally four DG sets of 1500 kVA (D.G. Set No. 1), 1500 kVA (D.G. Set No. 2), 125 kVA (D.G. Set No. 3), 62.5 kVA (DG Set No.4) capacity will be used as standby during power failure. Stack height provided as per CPCB norms to the DG sets.

(xii) Existing unit has 6 TPH coal fired boiler, 5 TPH gas fired boiler and 4 TPH waste heat recovery boilers. Multi cyclone dust collector/ bag filter with a stack of height of 33 m for coal fired boiler and 30 m stack height for waste heat recovery boilers is provided. No additional boiler will be installed for proposed expansion.

(xiii) Water and caustic scrubber will be provided for MPP to control the process emissions of - HF, HCl and HBr.

(xiv) ETP sludge, spent catalyst, dessicants (alumina/ molecular sieve), discarded asbestos roof sheet will sent to TSDF site for disposal. Oily cotton waste, resin, organic residue will be sent to common hazardous waste incineration facility. Used oil and discarded containers sold to registered re-refiners and authorized recyclers respectively.

(xv) Public Hearing for the proposed project has been conducted by the Gujarat State Pollution Control Board on 20.1.2017. The main issues raised during the public hearing are related to develop green belt area in surrounding villages; Quality of water is deteriorated in nearby villages; Farming and crops are affected due to release of gases.

(xvi) The details of products and capacity as under:

S. No.	Product	Production Capacity (MTPA)		
		Existing	Additional	Total
1	Monochloro Difluoro Methane (HCFC-22)	18,000	0	18,000
2	Difluoromethane (HFC-32)	500	8,500	9,000
3	Ethyl difluoroacetate (EDFA)	600	600	1,200
4	Bromo Trifluoromethane (BTFM)	400	0	400
5	4-(Heptafluoroisopropyl)-2-methyl aniline/	400	200	600

	2- Bromo Heptafluoro Propane			
6	2,5-Dichloro-4-Hexafluoropropoxy aniline	300	0	300
7	Ethyl difluoroaceto acetate (EDFAA)	600	0	600
8	Chloro difluoro ethane (R-142)	50	450	500
9	Ethyl tetrafluoroethyl ether (ETFEE)	150	4,850	5,000
10	Penta Fluoro Phenol	120	380	500
11	4-Chloro-2-Trifluoro Acetyl Aniline	1,200	300	1,500
12	Difluoro acetic acid	0	400	400
13	Difluoro acetone	0	500	500
14	Difluoro ethyl amine	0	500	500
15	Penta fluoro benzoic acid	0	500	500
16	Tetra fluoro benzyl alcohol	0	500	500
17	Trifluoroacetic acid (TFA) & its derivatives	0	5,000	5,000
18	2,6-Dichloro-4-trifluoromethyl aniline (DCTFMA)	0	500	500
19	2-Bromo-5-Fluorobenzotrifluoride	0	500	500
20	2,3-Dichloro-5-Trifluoromethyl Pyridine	0	500	500
21	Difluoromethane sulfonyl chloride (DFMSC)	0	300	300
	TOTAL	**22,320**	**24,480**	**46,800**

S. No.	**By-Product**	**Capacity (MTPA)**		
		Existing	**Additional**	**Total**
1	Hydrochloric Acid (30±1%)	70,000	15,000	85,000
2	Gypsum	46,800	0	46,800
3	Potassium Fluoride (KF)	275	100	375
4	Silica (SiO_2)	281	19	300
5	HBr (45%)	675	125	800
6	H_2SiF_6 (20-23%)	2,213	0	2,213
7	Potassium Chloride (KCl)	525	25	550
8	NaBr (Solution)	25	10	35
9	Potassium Ethoxide/Ethanolic-KOH solution	493	0	493
10	Sulfuric Acid	521	29	550
11	Orthophosphoric acid	0	350	350
12	Dichloro acetic acid	0	180	180
13	Ammonium Chloride	0	65	65
14	Sodium Chloride	0	650	650
15	Urea	0	650	650
16	Toluene	0	950	950
17	Ammonium Bisulphate	0	10	10
18	Carbon Tetrachloride	0	10	10
19	Recover Methanol	0	10	10
20	Zinc Chloride	0	20	20
21	Methylene Dichloride	0	20	20
22	Benzyl Chloride	0	1,300	1,300
	TOTAL	**1,21,808**	**19,523**	**1,41,331**

36.6.4.2 During deliberations, the EAC noted the following:-

The proposal is for environmental clearance to the project for expansion by addition of new products and change in product quantity (from 22,320 MTPA to 46,800 MTPA) and installation of incinerator at existing refrigerant gas and fluorospecialty chemicals unit by M/s Gujarat Fluorochemicals Limited at Survey No.16/3, 26, 27, Village Ranjitnagar, Taluka Ghoghamba, District Panchmahal (Gujarat).

The project/activity is covered under category A of item 5(f) 'Synthetic organic chemicals' of the Schedule to EIA Notification, 2006, and requires appraisal at central level. The ToR for the project was granted on 15th July, 2016 and public hearing was conducted by the SPCB on 20th January, 2017.

36.6.4.3 The proposal was earlier recommended by the EAC (Industry-2) in its meeting held during 6-7 February, 2017. During processing, Hon'ble MEF&CC has noted that some representations were received regarding violations done by the PP by starting the construction activities and desired to have report from CPCB in this regard after site visit

The Ministry vide letter dated 13th April, 2017 has requested the CPCB to submit a report on the status of the project and other issues raised in complaint after conducting a site visit. In response, the CPCB vide letter dated 12th June, 2017 informed that their Regional Directorate at Vadodara has earlier received a communication on similar matter from Ministry's Regional Office at Bhopal. The same was forwarded to Gujarat SPCB for further action. Accordingly, the GPCB has inspected the industry site on 19th April, 2017. The inspection report forwarded by CPCB's Regional Directorate, Vadodara vide letter dated 15th May, 2017 has been now forwarded to Ministry by CPCB. The main observation of inspection report were as following:

(i) The unit has violated the provision of the EIA Notification, 2006 by installing:

(a) Plant and machinery for the production of ETFEE Plant (MPP-2) (Block No. 128)
(b) Four new storage tank (Block No. 127) near ETFEE plant for storage of crude and pure ETFEE and phase separation tank.
(c) Finishing unit (block no. 130) for EDFA plant and ETFEE plant.
(d) Constructed the RFA/DHA plant (MPP-3 plant) (Block-132) and their utility plant.

36.6.4.4 Based on findings of CPCB/GPCB, the proposal was placed before the Expert Appraisal Committee for the proposal involving violation of EIA Notification, 2006 in its meeting held on 19-21 February, 2018, in pursuance of the Ministry's Notification dated 14th March 2017.

The Committee noted that the Ministry directed CPCB to verify the complaints. The CPCB, in turn, directed GPCB to carryout investigation in this regard. GPCB inspected the unit on 19/04/2017 and found that one complainant did not exist whereas the other complainant refused of having made the stated complaint. The GPCB further noted that the unit was engaged in manufacturing only consented products within their consented quantities. However, it was also noted by them that unit has constructed a structure for RFA/DHA. Based on the findings of GPCB, a case was filed bearing No.1817/2017 in the Court of Additional Chief Judicial Magistrate, Halol. The court stated that the offence occurred due to lack of knowledge of law and ordered to pay fine of Rs 3,25,000/- to the company as well as all the accused (Director).

36.6.4.5 The EAC (violation), after detailed deliberations on the proposal, noted that the appraisal process for expansion was already completed at the central level, as per the provisions of the EIA Notification, 2006. The Committee further observed that the structure, which could be a part of the project, was incomplete and not in operation. Also, the project proponent have already been penalised by the Court of Additional Chief Judicial Magistrate, for the structure erected and noted by GPCB during their inspection of the project site on 19th April, 2017. The case has been disposed off and the penalty has been deposited.

The Committee further noted that since the sectoral EAC had already recommended the project, the proposal may be taken to the same Committee with the above observations. The Committee suggested that based on fresh recommendations of the sectoral EAC, the proposal for EC may be taken forward with the additional condition that the project proponent would assess any environmental/ecological damage as special study and submit the findings to the Ministry.

36.6.4.6 *The EAC, in the first instance, observed that the proposal for grant of environmental clearance to the above project for expansion of refrigerant gases and fluoro-specialty chemicals from 22320 TPA to 46800 TPA, was already recommended in its meeting held on 6-7 February, 2017 based on the EIA/EMP report submitted at that stage. There being no change in scope of work, the proposal may not require its further deliberations and/or any fresh recommendations.*

The Committee noted that even after its recommendations for grant of EC to the above said project, the same was not concluded and approved by the Ministry due to some complaint received regarding certain works already undertaken in violation of the EIA Notification, 2006. The Committee further noted that subsequent to investigation of the same by the State Pollution Control Board, complaint case was filed in the Court of Law, which was disposed off vide order dated 17th December, 2017 imposing penalty on the directors of the company.

The EAC was informed that the unit has been in operation manufacturing products covered under the earlier environmental clearance dated 14th August, 2007 with the total production capacity of 25000 TPA, and/or subsequent consents issued by the State Pollution Control Board allowing the change in product mix without any change in total capacity and increase in pollution load.

The EAC, however, after deliberations and especially in view of findings of the inspecting team, reporting violation of the EIA Notification, 2006, desired for reconsideration of the proposal by the EAC (Violation) in pursuance of this Ministry's Notification dated 14th March, 2017.

Agenda No.36.6.5

Proposed Expansion Project of Bulk Drug (Synthetic Organic Chemical) by M/s Reckitt Benckiser (India) Private Limited at Plot No. 176 SIPCOT Industrial Complex, Phase-I, Taluk Hosur, District Krishnagiri (Tamil Nadu) - Amendment in ToR

[IA/TN/IND2/71814/2017, IA-J-11011/581/2017-IA-II(I)]

36.6.5.1 The proposal is for amendment in the standard terms of reference (ToR) granted by the ministry vide letter No.J-11011/581/2017-IA-II(I) dated 28th January, 2018 to the proposed expansion of APIs manufacturing unit at Plot No. 176, SIPCOT Industrial Complex, Hosur Taluk, Krishnagiri District, Hosur (Tamil Nadu) in favour of M/s Reckitt Benckiser (India) Private Limited.

36.6.5.2 The project proponent requested for amendment in the said ToR with the details as under:-

S. No.	Para of Standard ToR	As per the ToR	To be revised read as	Justification/ reasons
1.	**Page No. 1** Line 3 of 2nd paragraph	In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed with **public consultation**	Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance with exemption from Public Consultation as the industry located in Notified Industrial Area at SIPCOT Industrial Complex-Hosur.	SIPCOT – Hosur is a Notified Industrial Area as per Government of Tamilnadu vide G.O. Ms. No. 1702 dated 16-12-1980

36.6.5.3 *The Committee, after deliberations, referred to the Ministry's OM dated 10th December, 2014 providing exemption from public hearing to the projects/activities located within the industrial estates/parks which were notified prior to 14th September, 2006 i.e. the EIA Notification, 2006 coming into force, and recommended the above proposal accordingly.*

The Committee further opined that all such proposals need to be considered on similar lines without referring the matter to the EAC.

Agenda No.36.6.6

Manufacture of Technical Grade Pesticides and its intermediates by M/s Krishi Rasayan Exports Pvt Ltd at Plot No. 19/1, GIDC Industrial estate, Panoli, District Bharuch (Gujarat) - Amendment in ToR

[IA/GJ/IND2/69917/2017, IA-J-11011/488/2017-IA-II(I)]

36.6.6.1 The proposal is for amendment in the standard terms of reference (ToR) granted by the Ministry vide letter No.J-11011/488/2017-IA-II(I) dated 6th November, 2017 to the project for manufacturing of Technical Grade Pesticides and its intermediates at Plot No.19/1, GIDC Industrial estate, Panoli, District Bharuch (Gujarat) in favour of M/s Krishi Rasayan Exports Pvt Ltd.

36.6.6.2 The project proponent has requested for amendment in the said ToR with the details as under:-

S. No.	Para of Standard ToR	As per the ToR	To be revised read as	Justification / reasons

1.	**Page No. 1** Line 3 of 2nd paragraph	In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed with **public consultation**	Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance with exemption from Public Consultation as the industry located in Notified Industrial Area at Panoli GIDC.	Panoli GIDC –is a Notified Industrial Area as per Government of Gujarat vide G.O. dated 18-11-1998

36.6.6.3 *The Committee, after deliberations, referred to the Ministry's OM dated 10th December, 2014 providing exemption from public hearing to the projects/activities located within the industrial estates/parks which were notified prior to 14th September, 2006 i.e. the EIA Notification, 2006 coming into force, and recommended the above proposal accordingly.*

The Committee further opined that all such proposals need to be considered on similar lines without referring the matter to the EAC.

Agenda No.36.6.7

Expansion of PVC capacity from 300000 TPA to 600000 TPA by M/s Chemplast Sanmar Limited at RS No.70 part, 71 part, 72,73,74 part 75 part, 76 part, 133 part, 134 and bounded, Semmankuppam, District Cuddalore (Tamil Nadu) - Amendment in ToR

[IA/TN/IND2/72311/2018, IA-J-11011/31/2018-IA-II(I)]

36.6.7.1 The proposal is for amendment in the standard Terms of Reference (ToR) granted by the Ministry vide letter No.IA-J-11011/31/2018-IA-II(I) dated 5th March 2018 for the project Expansion of PVC capacity from 3,00,000 TPA to 6,00,000 TPA at RS No.70 part, 71 part, 72,73,74 part 75 part, 76 part, 133 part, 134 and bounded, Semmankuppam Village, District Cuddalore (Tamil Nadu) in favour of M/s Chemplast Sanmar Limited.

36.6.7.2 The project proponent has requested for amendment in the said ToR with the details as under:-

S. No.	Para of ToR	As per the ToR	To be revised/ read as	Justification/ reasons
1	Para under S. No. 5	In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for	In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for	Public hearing for proposed project will not be required as the unit is located in Notified Industrial Estate i.e. SIPCOT Industrial Complex, Cuddalore in South Arcot District set up prior to EIA

		obtaining prior environment clearance is prescribed with public consultation as follows:	obtaining prior environment clearance is prescribed as follows:	Notification dated 14th September 2006 i.e. 4th October 1980. Hence, public hearing is not applicable as per the OM dated 10 Dec 2014.

36.6.7.3 *The Committee, after deliberations, referred to the Ministry's OM dated 10th December, 2014 providing exemption from public hearing to the projects/activities located within the industrial estates/parks which were notified prior to 14th September, 2006 i.e. the EIA Notification, 2006 coming into force, and recommended the above proposal accordingly.*

The Committee further opined that all such proposals need to be considered on similar lines without referring the matter to the EAC.

Agenda No.36.6.8

Exploration and Development of drilling wells in the existing PML area (PML12.7 sq.km) of Modhera Field by M/s Sun Petrochemicals Private Limited at Village Matresan, Tehsil Becharaji, District Mehsana (Gujarat) - Amendment in ToR

[IA/GJ/IND2/69768/2017, IA-J-11011/523/2017-IA-II(I)

36.6.8.1 The proposal is for amendment in the standard Terms of Reference granted by the Ministry vide letter dated 4th March, 2018 in favour of by M/s Sun Petrochemicals Private Limited to the project for exploration and development drilling of wells in the existing PML area of 12.7 sq km of Modhera Field located at Village Matresan, Tehsil Becharaji, District Mehsana (Gujarat).

36.6.8.2 The project proponent has requested for amendment in the said ToR with the details as under:

S. No.	Para of ToR	Details as per the ToR	To be revised/ read as	Justification/ reasons
1	Page 2 of the ToR Granted by MoEF&CC	As per ToR Sun Petro has to go through the Public Consultation for the Modhera Field.	Public consultation has to be exempted.	The project is expansion project and public hearing done for similar activities in the same field in year 2010. The exemption will reduce the valuable time for obtaining of EC and expansion project activities can start early, which will add to the fuel security of the Nation.

36.6.8.3 *The EAC, after deliberations, observed that the public hearing for the PML Block/Field was earlier conducted in the year 2010 while seeking environmental clearance dated 24th December, 2010 to the project 'Drilling of Appraisal Wells (2 Nos.) in Modhera Field'. The said public hearing being more than 3 years old, may not be applicable for the above project as per the extant norms/guidelines in this regard. The Committee further noted that the above proposal also involves revised scope of work, and as such not admissible.*

The proposal for amendment in the standard ToR was, therefore, not recommended.

Agenda No.36.6.9

Exploration and Development of drilling wells in the existing PML area (PML 4 sq.km) of Baola Field by M/s Sun Petrochemicals Private Limited at Village Salajada, Tehsil Bavla, District Ahmedabad (Gujarat) - Amendment in ToR

[IA/GJ/IND2/69719/2017, IA-J-11011/522/2017-IA-II(I)]

36.6.9.1 The proposal is for amendment in the standard Terms of Reference granted by the Ministry vide letter dated 11th Mar, 2018 to the project for Exploration and Development of drilling wells in the existing PML area (PML 4 sq.km) of Baola Field located at Village Salajada, Tehsil Bavla, District Ahmedabad (Gujarat) in favour of M/s Sun Petrochemicals Private Limited.

36.6.9.2 The project proponent has requested for amendment in the said ToR with the details as under:

S. No.	Para of TOR	Details as per the TOR	To be revised/ read as	Justification/ reasons
1	Page 2 of the ToR granted by MoEF&CC	As per ToR Sun Petro has to go through the Public Consultation for the Baola Field.	Public consultation has to be exempted.	The project is expansion project and public hearing done for similar activities in the same field in year 2010. The exemption will reduce the valuable time for obtaining of EC and expansion project activities can start early, which will add to the fuel security of the Nation.

36.6.9.3 *The EAC, after deliberations, observed that the public hearing for the PML Block/Field was earlier conducted in the year 2010 while seeking environmental clearance dated 19th August,2010 to the project 'Drilling of Appraisal Wells (2 Nos.) in Baola Field'. The said public hearing being more than 3 years old, may not be applicable for the above project as per the extant norms/guidelines in this regard. The Committee further noted that the above proposal also involves revised scope of work, and as such not admissible.*

The proposal for amendment in the standard ToR was, therefore, not recommended.

Agenda No.36.6.10

Proposed Manufacturing of Specialty Chemicals and Agro Chemical Products by M/s Crimsun Organics Private Limited at Plot No. C-10 & C-11, SIPCOT Industrial Complex, Kudikadu Village Cuddalore Taluk (Tamil Nadu) - Amendment in ToR

[IA/TN/IND2/72006/2018, IA-J-11011/5/2018-IA-II(I)]

36.6.10.1 The proposal is for amendment in the standard Terms of Reference granted by the Ministry vide letter No.IA-J-11011/5/2018-IA-II(I) dated 11th February, 2018 for the project 'Manufacturing of Specialty Chemicals and Agro Chemical Products' at Plot No.C-10 & C-11, SIPCOT Industrial Complex, Kudikadu Village Cuddalore Taluk (Tamil Nadu) in favour of M/s Crimsun Organics Private Limited.

36.6.10.2 The project proponent has requested for amendment in the standard ToR with the details as under:-

S. No.	Para of ToR	As per the ToR	To be revised/ read as	Justification/ reasons
1	Page no. 2 before the start of ToR points at page no.3.	Under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed with public consultation as follows:	Under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed as follows: The public consultation is exempted since the project site is located within the SIPCOT industrial area established by Government of Tamil Nadu.	The project site is located in SIPCOT Industrial Complex and also the village where project site is located has been declared as an industrial zone by the Government of Tamil Nadu as given in the document submitted to MoEF&CC for Pubic Consultation waiver.

36.6.10.3 *The Committee, after deliberations, referred to the Ministry's OM dated 10th December, 2014 providing exemption from public hearing to the projects/activities located within the industrial estates/parks which were notified prior to 14th September, 2006 i.e. the EIA Notification, 2006 coming into force, and* recommended the above proposal *accordingly.*

The Committee further opined that all such proposals need to be considered on similar lines without referring the matter to the EAC.

*****

Members of the EAC (Industry-2) present during 36th meeting held on 24-26 April, 2018 at MoEF&CC, New Delhi

1	Dr. J. P. Gupta	Chairman
2	Dr. R. K. Singh	Member
3	Prof. J.R. Mudakavi	Member
4	Dr. Ahmed Kamal	Member
5	Prof. (Dr.) H.R.V. Reddy	Member
6	Dr. Nandini N	Member
7	Ms. Saloni Goel	Member
8	Sh. Paritosh Kumar	Member
9	Dr. Ajay Gairola	Member
10	Prof. (Dr.) Y.V. Rami Reddy	Member
11	Shri S.K. Srivastava	Member Secretary