

MINUTES OF 22ND EXPERT APPRAISAL COMMITTEE (INDUSTRY-2) MEETING HELD DURING 17TH TO 18TH APRIL 2017 IN BRAHMAPUTRA CONFERENCE HALL, VAYU WING, FIRST FLOOR, MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, INDIRA PARYAVARAN BHAWAN, ALIGANJ, JOAR BAGH ROAD, NEW DELHI -110003.

22.1 Opening Remarks of the Chairman

22.2.1 Confirmation of the Minutes of the 21st Meetings of the EAC (Industry-2) held during 27th to 29th March 2017 at New Delhi.

22.2.2 Correction in the Minutes of previous meeting:

[A.] Drilling of Development wells(KSDA, KSDB) and conversion of Exploratory wells to Development Wells (KSAB, KSAG), Kasomarigaon, Assam Asset, Assam by M/s Oil and Natural Gas Corporation Limited–Environmental Clearance– Correction in the Minutes [No. IA/AS/IND2/27521/2012, F. No. J-11011/30/2012-IA-II(I)pt]-reg.

The Member Secretary informed the EAC that that:The Member Secretary informed that the proposal was considered in 3rd EAC meeting held in 18- 19th January, 2016, wherein the EAC recommended the proposal for grant of Environmental Clearance subject to submission of Stage-1 Forest Clearance.

1. The initial proposal was for Development/ Exploratory Wells, Group Gathering Station and pipeline laying from KSAC to Borholla GGS at Kasomarigaon, Assam. Two development wells ISK-KSDA and ISK-KSDB are proposed to be drilled. KSAB and KSAG which has already been drilled as exploratory wells will be converted to development wells. Another two exploratory cum development wells (KSAD and KSAE) are proposed to be drilled at two new locations. The EAC (Industry-2) considered the proposal in its 3rd EAC meeting held in 18- 19th January, 2016, wherein the EAC recommended the proposal for grant of Environmental Clearance subject to submission of Stage-1 Forest Clearance.
2. Due to long pending issue the proposal was again taken up in 16th EAC meeting held during 8th- 9th December, 2016;wherein it was informed that, forest clearance for development of wells at KSAC location is available and the wells located at KSDA, KSDB, and KSAG will be drilled from KSAC horizontally. The proposal for the locations KSAD, KSAE and Group Gathering Station and Pipeline from KSAC to Boroholla GGS are dropped due to non availability of Forests Clearance.
3. However, it is mentioned in the minutes of the 16thEAC meeting held during 8th- 9thDecember, 2016, that,the proposal was only for issuing the Environmental Clearance for the locations namely KSAC, KSDA, KSDB, and KSAG and EAC has recommended accordingly, leaving the location KSAB.
4. In this regard, it is submitted that:
 - i. The proposal is for Drilling of Development wells (KSDA, KSDB) and conversion of Exploratory wells to Development Wells (KSAB, KSAG), Kasomarigaon, Assam Asset, Assam by M/s Oil and Natural Gas Corporation Limited.
 - ii. The wells located at KSDA, KSDB, and KSAG will be drilled from KSAC horizontally for which Forest Clearance has been obtained vide Ministry's North Eastern

Regional Office at Shillong letter no. 3-AS B 035/2011-SHI/2624-25 dated 22nd December, 2011.

- iii. Forest clearance for the location KSAB has been received vide Ministry's North Eastern Regional Office at Shillong letter no. 3-AS B 061/2007-SHI/209-11 dated 12th June, 2008.
- iv. The geo co-ordinates of the proposed wells are:

S.N.	Well Name	Well Location					
		Latitude (N)			Longitude (E)		
		Degree	Minutes	Second	Degree	Minutes	Second
1	KSAC	26	17	56.54	94	03	37.48
2	ISK-1-KSDA	26	17	56	94	03	28
3	ISK-2-KSDB	26	17	55	94	03	25
4	KSAG	26	17	38	94	02	48
5	KSAB	26	17	31.89	94	03	10.76

EAC has examined the facts and allowed to make correction in the name of drilling well.

[B] Proposed expansion of existing unit at Jhagadia Industrial Estate, Dist. Bharuch, Gujarat by M/s UPL Ltd. (Unit-V)— [IA/GJ/IND2/27263/2015, F.No. J-11011/80/2015-IA-II(I)]-Environment Clearance.

The Member Secretary informed the EAC that the above project has been recommended for grant of Environmental Clearance in the 20th EAC meeting held on during 27th to 28th February, 2017. The Project Proponent vide letter dated 23rd March, 2017 sought following amendments in the minutes of the said EAC meeting.

Condition No.	Existing condition	Modification needed
xiii	'Zero' effluent discharge shall be adopted and no effluent shall be discharged outside the premises	The industry will reduce the effluent quantity from 4,768 KL/Day to 3,000 KL/Day by adopting recycle / reuse. Treated effluent will be discharged to Conveyance System of Narmada Clean Tech and disposed to deep sea.
ii	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from MPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous & Other Wastes (Management & Trans-Boundary Movement) Rules 2016 and amended as on date for management of Hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained

The EAC after examining the facts agreed to the above amendments in the minutes of 20th EAC meeting.

22.3 Consideration of proposal (Environmental Clearance)

22.3.1	Proposed Active Pharmaceutical Ingredients and formulations manufacturing unit (total capacity - 40 MTPA) at plot 81 A, SIPCOT-1, Industrial Area, village Zuzuwadi, TalukHosur, Krishnagiri district, Tamil Nadu by M/s Quest Healthcare Pvt.- reg. EC [IA/TN/IND2/50589/2012, J-11011/36/2013-IA II]
	<p>The Project Proponent and the accredited Consultant M/s. ABC Techno Labs India Limited gave a detailed presentation on the salient features of the project and informed that:</p>
	<ol style="list-style-type: none">i. The proposal is for setting up of Active Pharmaceutical Ingredients and formulations manufacturing unit (total capacity - 40 MTPA) at plot 81 A, SIPCOT-1, Industrial Area, village Zuzuwadi, TalukHosur, Krishnagiri district, Tamil Nadu by M/s Quest Healthcare Private Limited.ii. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 6th EAC meeting held during 5th-7th March, 2013 and recommended Terms of References (TORs) for the project. The TOR has been issued by Ministry vide letter no. J-11011/36/2013-IA II (I) dated: 25th April 2013.iii. The EIA report was appraised in the 11th reconstituted EAC (Industry) held on 26 - 27th August 2013. But due to the market conditions and financial setback project proponent were not able to continue the project. Now it has been planned to execute the project with different type of products as per present market requirement and its demand. Further, the proposed project have been appraised in the 13th EAC (Industry 2) held on 26 - 27th September 2016 and the committee recommended for amendment in exiting TOR and recommended for extension of validity of TOR up to 24.04.2017.iv. All Synthetic Organic Chemicals (Bulk drug intermediates) Industries located inside the notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, project site is located within 10 Km of inter-state boundary (Tamil Nadu & Karnataka) and treated as category 'A' project due to applicability of general condition of the EIA notification, 2006 and appraised at Central level.v. The land area for proposed project is 16,023.32 m² (3.95 Acres). Industry will develop greenbelt in an area of 35 % i.e., 5,608.16 m² area.vi. The estimated project cost is 2,507 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 186 Lakhs and the Recurring cost (operation and maintenance) will be about Rs. 42 Lakhs per annum.vii. Total employment will be 220 persons as direct & indirect employment. Industry proposes to allocate Rs. 125 Lakhs of 2.5 % towards ESC.viii. It is reported that there is no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger / Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Thenpennaiyar River is flowing at a distance of 7.8 km in East direction. Kalavarapalli Reservoir is situated at a distance of 7 km in East direction. Basthi Lake is situated at a distance of 4.5 km in ESE direction. Bidaraguppe Lake is situated at a distance of 4.5 km in NW direction. Darga Lake is situated at a distance of 4.5 km in SE direction. Santhapuram Lake is situated at a distance of 1.6 km in SE direction.ix. Ambient Air quality monitoring was carried out at 6 locations during March to May, 2016 and submitted baseline data indicates that ranges of concentration of PM₁₀ (40.6 to 82.0 µg/m³), PM_{2.5} (17.8 µg/m³ to 39.3 µg/m³), SO₂ (5.9 µg/m³ to 16.8 µg/m³) and NO₂ (11.1 µg/m³ to 29.4 µg/m³), respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 82.96 µg/m³, 20.64 µg/m³ and 31.7 µg/m³ with respect to PM₁₀, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).x. Total water requirement is 205 m³/day of which fresh water requirement of 145 m³/day

and will be met from SIPCOT.

- xi. Treated effluent of 85 KLD will be treated through Effluent Treatment plant. ETP treated effluent is further treated in Reverse Osmosis plant. The Reverse Osmosis permeate is used in utilities. RO rejects is treated in MEE along with other high TDS effluent. Plant will be based on Zero Liquid discharge system.
- xii. Power requirement will be 1.2 MW will be met from Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO) with DG sets of 4 x 380 KVA and 2 x 180 KVA capacity, are used as standby during power failure. Stack height of 10 m (380 KVA) and 9 m (180 KVA) each will be provided as per CPCB norms to the proposed DG set which will be used as standby during power failure.
- xiii. Briquettes fired boiler of 4TPH will be used. Bag filter with a stack of height of 30 m will be installed for controlling the particulate emissions (with in statutory limit of 115 mg/Nm³)
- xiv. Wet scrubber will be used to control the process emissions i.e. Particulate/Acid mist. Lye solution will be used to control Acid vapours.
- xv. The domestic garbage will be sent to nearby Municipality. Process Waste, ETP Sludge, Residue from Solvent Recovery and Residue from MEE will be sent to TSDF for disposal. Used / Spent Oil will be sent to waste oil recyclers. Boiler Ash will be sent for brick making. STP Sludge will be used as manure for gardening.
- xvi. Public hearing is exempted under the provisions as per para 7 III. Stage (3) (b) of the EIA notification, 2006.
- xvii. Following are the list of proposed products:

Product list		
	Product	Capacity (TPM)
1	Mineral Salts of Gluconate, Citrate, Lactate, Lactobionate, Fumerate, Orotate, Pidolate, Aspartate, Ascorbate, Glubionate, and other mineral salts.	1500
2	Perazindimaleate	9
3	GlyceroPhosphates	30
4	CarbasalateCalcium	9
5	Iron Sucrose	36
6	TMS (Tiemonium methyl sulphate)	18
7	Alendronate sodium	15
8	Beta Glycero Phosphate	11.9
9	Phenrocoumon	3
10	Strontium ranelate	6
11	Calcium D saccarate	18
12	Calcium Dobesylate	15
13	Ethamslate	6
14	Benfotiaine	18
15	Tolperisone HCl	9
16	Dobutamine Hcl	6
17	Calcium Folate	0.1
	Total	1710

During presentation EAC has noted that PP has changed the product list in the EIA report and it is not matching with the product list as appraised by the EAC during its 13th meeting held during 26th -27th September, 2016. The EAC suggested that product list as finalized by the EAC will be treated as final. PP agreed.

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

	<ol style="list-style-type: none"> i. As proposed Industry shall develop 10 m wide peripheral greenbelt of perennial trees like Neem, Seesam etc.Total 35 % i.e., 5,608.16 m² area, including green belt area, of the project cover area will be developed as green area. ii. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) and shall be used only for Mookand Pally, Zuzuvadi and Bedarapalli villages. Following activities shall be under taken under ESC activities: <ol style="list-style-type: none"> a. RO plants shall be installed in Mookand Pally, Zuzuvadi and Bedarapalli villages to ensure safe drinking water availability.The expenditure on maintenance on these RO plants will be owned by the Project proponent. b. 5000 trees shall be planted in five years in nearby villages with the consultation of the villagers. Survival rate of plants shall be reported to RO, MoEF&CC in 6 monthly compliance report. iii. A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant. iv. The unit shall adhere to Zero Liquid Discharge (ZLD). v. Continuous online (24 x7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB. vi. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. viii. Storage of hazardous chemical shall not exceed more than one week. ix. All workers should wear mask during working hours. x. Only inorganic waste shall be sent outside for disposal.
22.3.2	<p>Expansion of Bulk Drug Manufacturing Unit (from 48.5 MTPM to 84 MTPM) at Sy. No. 637/23/A1, Village KhambhatKalamsar, Tehsil Khambhat, District Anand, Gujarat by M/s Prism Industries Ltd. –reg. EC [IA/GJ/IND2/63156/2015, J-11011/222/2015-IA-II(I)]</p> <p>The Project Proponent and the accredited Consultant M/s. San Envirotech Pvt. Ltd., gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> i. The proposal is for Expansion of bulk drugs manufacturing from 48.5 MT/month to 84 MT/month at Survey No. 637/23/A1, Village: Kalamsar, Tehsil: Khambhat, District: Anand, Gujarat. ii. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 1st EAC meeting held during 30th November – 1st December, 2015 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter no. J-11011/222/2015-IA II (I), dated 28th December, 2015. iii. All Synthetic Organic Chemical Industries (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)” located outside the notified industrial area are listed at Sl. No. 5(f) of Schedule of EIA Notification, 2006 under Category ‘A’ and are appraised at Central Level by Expert Appraisal Committee (EAC). iv. Existing unit has not obtained Environmental Clearance as Project was established prior EIA Notification, 2006. v. Existing land area is 153781 m², out of which 41,650 m² of land is utilized for this project. The proposed expansion will be within the plant same premises. No additional land will

be required for the proposed expansion. Almost 24% i.e. 10000 m² of the area has already been developed as greenbelt/plantation and unit will increase it up to 33% i.e. 13750 m² after expansion. The total Cost of the project for the expansion is Rs. 10.0 Crores. Capital cost for Environmental Protection Measures will be Rs. 0.3 crores and Recurring Cost will be Rs. 0.352 crores/annum. After expansion, total manpower will be 141 persons.

- vi. It is reported that no national parks, wildlife sanctuaries, Reserve Forest (RF)/Protected Forests (PF), Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. lies within 10 km distance. Estuary of Mahi River is at a distance of 6.5 km from the project site.
- vii. Ambient air quality monitoring was carried out at 8 locations during March to May, 2016 and submitted baseline data indicates that ranges of concentrations of PM₁₀ (60.5 µg/m³ to 63.1 µg/m³), PM_{2.5} (27.7 µg/m³ to 31.9 µg/m³), SO₂ (10.1 µg/m³ to 13.6 µg/m³) and NO_x (12.8 µg/m³ to 15.6 µg/m³) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.440 µg/m³, 0.139 µg/m³, 0.142 µg/m³ and 0.039 µg/m³ with respect to PM₁₀, SO₂, NO_x and H₂S. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
- viii. Total fresh water requirement (existing and proposed) after proposed expansion project will be 47.75 m³/day which will be sourced from Ground water.
- ix. Total industrial wastewater generation will be 18.75 m³/day; out of which 14.0 m³/day (process, washing effluent & reject from water treatment) will be sent to MEE after primary treatment and 4.75 m³/day of utilities effluent will be utilized for greenbelt development after treatment. No wastewater will be discharged outside the factory premises. Domestic wastewater will be sent to Septic Tank.
- x. Power requirement after expansion will be 575KVA including existing 275KVA will be made from Madhya Gujarat Vij Company Ltd. (MGVCL). Additionally 1DG set of 320 kVA will be used as stand by during power failure. Stack (height 11 m) will be provided as per CPCB norms. HSD will be used as a fuel.
- xi. The total steam requirement will be met from 2.0 TPH boiler. Agro waste/briquettes will be used as fuel in boiler & Thermic fluid heater. Multi Cyclone + bag filter with stack height of 30 m is installed. Process emission of SO₂& H₂S from reaction vessel will be scrubbed by alkali scrubber. Vent height of 11 m is provided. DG set of 320 KVA will be installed with adequate stack height.
- xii. Fly ash generated will be given to brick manufacturers. ETP sludge & MEE salt will be disposed by land filling at approved TSDF site. Distillation residue, spent carbon and waste/residue will be disposed at CHWIF or sent for Co-processing. Discarded containers/barrels/liners will be sold to authorized recyclers. Used oil will be sold out to registered re-refiners.
- xiii. CSR plan is prepared for expenditure of 2.5% of project cost.
- xiv. Public Hearing for the proposed project has been conducted by the Gujarat Pollution Control Board on 10.02.2017.
- xv. Following are the list of existing & proposed products.

Sr. No.	Name of Product	Existing Quantity (MT/Month)	Proposed Quantity (MT/Month)	Total Proposed Quantity (MT/Month)
1.	Purification of Spent Potassium Acetate Solution	40	- 40	0
2.	Acetone Thiosemi Carbazole	2.5	+43.5	50
3.	2 Mercapto 5-Methoxy Benzimidazole	4		
4.	Nimesulide	0		
5.	Sildenafil Citrate	0		

6.	Quinine Sulphate/Derivatives	2	+18.0	20
7.	Lumefantrine	0		
8.	Calcium Sennoside	0		
9.	Phenyl Ephedrine HCl	0		
10.	Pentaprozole	0		
11.	Hyoscine Butyl Bromide/ Derivatives	0	4	4
12.	Colchicoside & Thiocolchicoside	0		
13.	10-Deacetyl Baccatin-III (10-Dab-III)	0		
14.	Yohimbine Hydrochloride	0		
15.	Camptothecin	0		
16.	Reserpine	0		
17.	Digoxin	0		
18.	Artemether	0		
19.	A,B – Arteether	0		
20.	Artesunate	0		
21.	Methylcobalamine	0		
22.	Nicorandil	0		
23.	R & D Products	0		
Total		48.5	+35.5	84.0

The EAC has deliberated upon the issues raised during the public hearing. The concerns were raised regarding effect of the factory on the environment, air pollution, disposal for waste water generated from the company, employment, CSR and rain water harvesting etc. The EAC noted that as during public hearing many issues has been raised. The EAC requested to show the video of public hearing but PP did not show the video of public hearing. The EAC noted that base line data has been collected between March, 2016 to May, 2016.

After deliberation, the committee deferred the proposal for want of following additional information;

1. Revised layout plan to be submitted.
2. Video recording of Public hearing proceedings to be submitted.
3. Clarification w.r.t. closure notice to be submitted.
4. Table of synthetic organic bulk drugs to be submitted.

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

22.3.3 Setting up of molasses based 60 KLPD Distillery within existing sugar plant at Village Kundal, Tehsil Palus, District Sangli, Maharashtra by M/s KRANTIAGRANI DR G D BAPU LAD SAHKARI SAKHAR KARKHANA LTD [IA/MH/IND2/42689/2016, J-11011/117/2016- IA II(I)]- Environmental Clearance.

The project proponent and the accredited Consultant M/s. Ultra-Tech gave detailed presentation on the salient features of the project and informed that:

- i) The proposal is for setting up of molasses based 60 KLPD Distillery within existing sugar plant at Village Kundal, Tehsil Palus, District Sangli, Maharashtra by M/s

Krantiagrani Dr. G D Bapu Lad Sahkari Sakhar Karkhana Ltd.

- ii) The project proposal was considered by the Expert Appraisal Committee (Industry 2) in its 9th EAC meeting held during 27-28 June 2016 and recommended Terms of Reference (ToRs) for the project. The ToR has been issued by Ministry vide letter No. J-11011/117/2016-IA II (I) dated 2nd August, 2016.
- iii) All molasses based distillery are listed at S.N. 5(g) (i) under category 'A' and appraised at Central level.
- iv) Ministry has issued EC earlier vide letter No. J-11011/222/2012-IA II (I) dated 22nd March 2016 for Sugar and Co-gen unit by M/s. Krantiagrani Dr. G. D. Bapu Lad Sahakari Sakhar Karkhana Ltd.
- v) Existing land area is 50.59 Ha, no additional land will be proposed for distillery unit. Industry will develop green belt in an area of 33 % i.e. 16.7 Ha out of 50.59Ha of area of the project.
- vi) The estimated cost is Rs. 80.00 Cr. The total capital cost earmarked towards environmental pollution control measures is Rs.7.3 Crore and the Recurring (operation and maintenance) will be about Rs. 2.17 Crore per annum.
- vii) The total employment will be 100 persons as direct and indirect more than 500 persons for proposed project. Industry proposes to allocate Rs. 4.00 Cr. @ 5 % towards Corporate Social Responsibility.
- viii) It is reported that no any national park, biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. However manmade Wild Life Sanctuary namely YashwantraoChavanSagareshwar Wildlife Sanctuary lies within 1.7 Km distance. River /water body is flowing at a distance of 6 km in South- West direction.
- ix) Ambient air quality monitoring was carried out at 9 locations during March to May, 2016 and submitted baseline data indicates that ranges of concentrations of PM₁₀(70 µg/m³ to 60 µg/m³), PM_{2.5} (36 to 28 µg/m³), SO₂ (22 to 14 µg/m³) and NO_x (28 to 20 µg/m³), CO (0.7 to 1.3 mg/m³) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 70.25 µg/m³, 26.97 µg/m³ and 30.97 µg/m³ with respect to PM₁₀, SO₂, and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
- x) Total water requirement is 760 m³/day of which fresh water requirement of 280m³/day and will be met from Krishna River.
- xi) Treated effluent of 630 m³/day will be treated through CPU, MEE & incineration plant will be based on Zero Liquid Discharge system.
- xii) Power requirement will be 1800 KVA and will met from own Turbine & MSEDCL. Existing 3 Nos. of DG sets of capacity 1650 KVA. DG sets are used as standby during power failure. Stack (height 3.5 m) will be provided as per CPCB norms. No additional DG set required.
- xiii) Proposed unit required 22 TPH Slop + coal fired boiler will be installed. ESP with stack height 75 m will be installed for controlling particulate emissions (within statutory limit of 150 mg/Nm³).
- xiv) Process emission generation from boiler will be up to 3000mg/Nm³ and its controlled by ESP.
- xv) Distillation residue will be collected and used in own boiler as fuel. Yeastsludge and Ash will be sold.
- xvi) Received detail certified compliance report submitted by RO, MoEF&CC on 31.03.2017 and reply for the same is submitted.
- xvii) List of proposed product

S.No.	Details	Capacity (TPA)
1	Ethanol/ Rectified Spirit/ ENA	19800TPA

EAC deliberated on the proposal. It is observed that the AAQ are within National Ambient

Air Quality Standards. EAC noted that two specific and three general conditions are found partly complied. The EAC found certified compliance report to be satisfactory.

After detailed deliberations the EAC recommended the proposal for grant of Environmental Clearance subject to following specific conditions and other general conditions.

- i. Clearance from standing committee of NBWL shall be obtained.
- ii. 10 m wide green belt of perennial trees like neem, sesam etc. around periphery of the plant shall be provided.
- iii. Coal (Sulphur content less than 0.5 %) and spent wash shall be used as a boiler fuel.
- iv. 60 % employment shall be given to nearby villagers.
- xi. At least 5 % (Rs. 4 crore) of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) and shall be used only for installation of RO plant for drinking water supply, solar light and provide computer to all BPL card holders of nearby villages. Implementation of such program shall be ensured accordingly in a time bound manner. Following activities shall be under taken under ESC activities:
 - a. RO plants shall be installed in nearby villages to ensure safe drinking water availability. The expenditure on maintenance on these RO plants will be owned by the Project proponent.
 - b. 5000 trees shall be planted in five years in nearby villages with the consultation of the villagers. Survival rate of plants shall be reported to RO, MoEF&CC in 6 monthly compliance report.
- v. A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.
- vi. The unit shall adhere to Zero Liquid Discharge (ZLD).
- vii. Continuous online (24 x7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB.
- viii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- ix. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

22.3.4

Proposed Synthetic organic chemical industry at Plot No. 21/2 Dhatav MIDC, Tal. Roha, Dist. Raigad by M/s Ambernath Organics Pvt. Ltd. [IA/MH/IND2/62401/2016, J-11011/353/2016-IA.II(I)]

The Project Proponent and the accredited Consultant M/s Sadekar Enviro Engineers Pvt. Ltd., gave a detailed presentation on the salient features of the project and informed that:

- i. The proposal is for Proposed Synthetic organic chemical industry at Plot No. 21/2 Dhatav MIDC, Tal. Roha, Dist. Raigad by M/s Ambernath Organics Pvt. Ltd.
- ii. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 17th EAC meeting held during 26th December – 29th December, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter no. J-11011/353/2016-IA II (I), dated 15th March, 2017.
- iii. All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, considering the general condition that location within 5 km area of the Eco-sensitive areas, the project is considered as category

- ‘A’ and appraised at Central level by Expert Appraisal Committee.
- iv. Total land area will be 15703 m². Out of which green belt will be developed in 3805.75 m² area (39.6%).
 - v. The total Cost of the project will be Rs. 8.73 Crore. Capital investment for Environmental Pollution Control Measures is around 2.71 Crore. After expansion, total manpower will be 105 persons.
 - vi. It is reported that no forest/protected area/ reserved forest are located within 10 km distance of the project site. However, the State SEAC has noted that the said project location is in Dhatav appearing in list of ESA village in draft notification of MoEF dated 4th September, 2015 and has kept the proposal in abeyance. Kundalika River is flowing at a distance of 920 meters in North direction.
 - vii. Ambient air quality monitoring was carried out at 8 locations during March 2015 to May 2015 and submitted baseline data indicates that range of concentrations of PM₁₀ (49.6 - 75.2 µg/m³), PM_{2.5} (17.5 - 45.4 µg/m³), SO₂ (11.2 - 30.8 µg/m³), and NO_x (14.6 - 45.2 µg/m³), respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 75.21 µg/m³, 31.30 µg/m³, 45.26 µg/m³ and µg/m³ with respect to PM₁₀, SO_x and NO_x. The resultant concentrations are within National Ambient Air Quality Standards (NAAQS).
 - viii. Total water requirement is 391.26 m³/day of which fresh water requirement of 178.67 m³/day and will be met from MIDC. Plant will be based on Zero Liquid discharge system
 - ix. Power requirement after proposed project will be 520 KW and will be met from MSEDCL.
 - x. Proposed unit will have 3 nos. of 0.8 TPH and 2 nos. of 1 TPH FO fired boilers. Stack height of 33m and 31 m respectively will be installed for controlling the particulate emissions (within statutory limit of 115 mg/Nm³) for proposed FO fired boilers.
 - xi. Two (2 nos) alkali scrubbers of 1000 CFM will be provided for Process emissions like CO₂ and traces of chlorine gas. Details of scrubbers are as follows
 - xii. CSR plan is prepared for expenditure of 2.5% of project cost.
 - xiii. Public hearing was exempted under the provisions as per para 7 III. Stage (3) (b) of the EIA notification, 2006.
 - xiv. The PP proposed to produce the following products at Plot No. 21/2 Dhatav MIDC, Tal. Roha, Dist. Raigad.

Name of the Product	Quantity MT/A
Isatoic Anhydride	3005
Anthranilic Acid	400
Methyl Anthranilate	2000
Dimethyl Anthranilate	200
Buthyl Anthranilate	100
Anthranilamide	80
Dibromoester	40
Total	5825

- i. The By Products during the proposed production are:

Name of the By-Product	Quantity MT/A
Recovered Methanol	673.56
Recovered n- Butanol	36.6
Total	710.16

During presentation EAC noted that layout plan is not adequate and PP has carried out base line monitoring at 8 locations during March 2015 to May 2015 i.e. prior the date issue of TOR.

	<p>Committee suggested to submit fresh base line data.</p> <p>After deliberation, the committee deferred the proposal for want of following additional information;</p> <ol style="list-style-type: none"> 5. Revised layout plan to be submitted.. 6. Fresh 3 months base line monitoring report to be submitted. <p>The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.</p>
--	--

Reconsideration of EC

22.3.5	<p>Proposed enhancement of existing molasses based distillery unit from 30 KLPD to 60 KLPD at Nasik Babhulgaon, Post: Rakshi, Tal.: Shevgaon, Dist.: Ahmednagar, Maharashtra by M/s. Gangamai Industries and Constructions Ltd. (GIACL) - reg. Reconsideration of EC { IA/MH/IND2/55812/2014, J-11011/14/2015/IA II (I); }</p> <p>The proposal for grant of environmental clearance has also been discussed during 12th and 17th EAC meeting held during 23-24th August 2016 and 26-29th December, 2016. The project proponent and their consultant (M/s. Equinox Environments (India) Pvt. Ltd.) during 17th EAC meeting held during 26th-29th December, 2016 produced the action taken report on the non compliance points reported by the R.O. Nagpur vide letter 5-48/2014(ENV)/364 dated 11/05/2016. The EAC examined the action taken report and had suggested to PP to produce the action taken report duly certified by the R.O. Nagpur.</p> <p>Now, the PP has submitted the certified compliance report issued dated 14.03.2017 by RO, Nagpur. The EAC noted that as per the latest certified compliance report submitted by PP, the compliance of existing EC is still under process. PP need to submit the latest certified compliance report w.r.t. completion of road and rain water harvesting works. The EAC also suggested to submit five year CSR plan @ 5% with the consultation of BDO.</p> <p>The EAC decided to defer the proposal for want of above additional information.</p>
22.3.6	<p>Expansion of Specialty Chemicals Manufacturing Unit at Plot No.E-7 & E-8, MIDC Chincholi, Taluka Mohol, District Solapur, Maharashtra by M/s Balaji Amines Ltd.-reg. Reconsideration of EC { IA/MH/IND2/29191/2015 , J-11011/195/2015-IAI (I) }</p> <p>The proposal for grant of environmental clearance has also been discussed during 12th and 17th EAC meeting held during 23-24th August, 2016 and 26-29th December, 2016.</p> <p>During 17th EAC meeting the committee was noted that there was no green belt inside the plant premises and PP was submitted the self certified action taken report on non compliance points raised by RO, MoEF&CC.</p> <p>Now PP has informed that visit was conducted by RO, Nagpur on dated 23.02.2017 and submitted the latest certified compliance report. The EAC found the latest certified compliance report satisfactory. During presentation the EAC noted that product list that mentioned in the EIA report is not matching with the product list as mentioned in TOR letter. The EAC suggested to PP to submit the product list as mentioned in the TOR letter.</p> <p>The EAC decided to defer the proposal for want of above additional information.</p>
22.3.7	<p>Debottlenecking and expansion of existing Petrochemical complex Hazira, Dist.- Surat, Gujarat by M/s Reliance Industries Limited-AAQ Reg. [IA/GJ/IND/24200/2014; J-</p>

11011/40/2015-IA II (I)]

The Member secretary informed that this proposal was considered in 16th EAC meeting held during 8-9th December, 2016 wherein the EAC was recommended the project for grant of Environmental Clearance. Now, project has been listed for reconsideration of EC as during consideration of the EAC recommendations in the Ministry it has been observed that baseline monitoring data collected from 11 locations during summer 2013, post monsoon 2013 and winter 2013-2014 i.e. .

The EAC had taken the note on the observations of the Ministry. The PP was asked by the EAC to explain the reason in this regard. The PP responded that the air quality monitoring was carried out at 11 locations within 10 KM radius for three seasons of 2013-14 and summers 2014. This fact is mentioned in the EIA/EMP report submitted in the Ministry with the application for grant of Environmental Clearance. The EAC (Industry-2) has considered the presented facts and carried out due diligence of the quality of data for its adequacy and applicability.

The PP further informed they have submitted the latest baseline ambient air quality monitoring data collected from 6 locations during Winter season of 2016-2017. Baseline data indicates that range of concentrations of PM₁₀ (60 – 76 µg/m³), PM_{2.5} (17.36 – 27.85 µg/m³), SO₂ (10.32 – 15.88 µg/m³), and NO_x (22.94 -33.78 µg/m³), respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 81.77 µg/m³, 28.08 µg/m³ and 35.82 µg/m³ with respect to PM, SO_x and NO_x. The resultant concentrations are within National Ambient Air Quality Standards (NAAQS).

After deliberation, the committee accepts the baseline ambient air quality monitoring data collected from 6 locations during Winter season of 2016-2017 as submitted by the PP. The EAC recommended to the Ministry for grant of Environmental Clearance.

22.4: Terms of Reference (TOR)**22.4.1 Proposed establishment of synthetic organic chemical (Malic acid) manufacturing facility at Plot T-2/part, MIDC Taloja, Tehsil Panvel, Dist. Raigad, Maharashtra by M/s I G Petrochemicals Ltd. (IGPL) IA/MH/IND2/62777/2017, IA-J-11011/69/2017-IA-II(I)]**

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

- i. The proposal is for Proposed establishment of synthetic organic chemical (Malic acid) manufacturing facility at Plot T-2/part, MIDC Taloja, Tehsil Panvel, Dist. Raigad, Maharashtra by M/s I G Petrochemicals Ltd.
- ii. All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, considering the general condition that location within 5 km area of the Matheran Eco sensitive zone, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- iii. Total land area will be 17,150 m². Total estimated project cost is Approximately Rs. 30 Crores. Expected manpower requirement for the establishment will be 80.
- iv. It is reported that no forest/protected area/ reserved forest are located within 10 km distance of the project site. Matheran Eco sensitive zone is situated within 5 km from the project site.
- v. Total water requirement will be 344 m³/day and will be met from MIDC. Effluent will be treated in suitably ETP & recycled within facility for utilities/ gardening. Part of treated effluent shall be sent to CETP.
- vi. Power requirement will be 1500 KW and will be met from MSEDCL.

- vii. Coal/ Briquette/ Furnace Oil fired boiler of 10 TPH will be used. Cyclone separator/ scrubber will be provided with adequate stack height. Exhaust air from process dryer will be provided with wet scrubber. 1 DG set of 200 KVA will be installed for emergency backup.
- viii. Hazardous waste will be disposed off as per Hazardous waste rule 2016/ MPCB/ CPCB norms.
- ix. The proposed unit will manufactured Malic acid (5,000 TPA).

EAC has deliberated on the proposal. It is recommended to have 10 m wide green belt area around the periphery of the unit. PP informed that base line monitoring has started since March, 2017. The EAC agree with it. EAC suggested to use briquettes only as a fuel. PP confirmed it. As the industry is located in the notified industrial area/estate. The EAC exempted the Public hearing under the provisions as per para 7 III. Stage (3) (b) of the EIA notification, 2006.

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

A. Additional TOR

- i) Public hearing is exempted under the provisions as per para 7 (i). Stage (3) (i) (b) of the EIA notification, 2006 being the project site is located in notified industrial area.
- ii) Lay out plan to accommodated peripheral green belt of 10 width shall be prepared.

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

22.4.2

Establishment of Pesticides industry and pesticide specific intermediates (excluding formulations) & Synthetic organic chemicals manufacturing unit at Plot No. FS-30, AddlMahad MIDC situated in Raigad District, Maharashtra state by M/s PRASOL CHEMICALS LIMITED. IA/MH/IND2/62822/2017, IA-J-11011/70/2017-IA-II(I)]

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

- i. The proposal is for Establishment of Pesticides industry and pesticide specific intermediates (excluding formulations) & Synthetic organic chemicals manufacturing unit at Plot No. FS-30, AddlMahad MIDC situated in Raigad District, Maharashtra state by M/s Prasol Chemicals Limited.
- ii. All Pesticide and synthetic organic chemicals industry are listed at S.N. 5(b) and 5(f) category respectively will be considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- iii. Total land area will be 45,000 m². Total estimated cost of the project will be approx. INR 50.0 Crores. During the construction phase around 60 workers and during the operational phase around 100 workers including contractors will be required.
- iv. It is reported that no forest/protected area/eco-sensitive area are located within 10 km distance of the project site. Savitri River is flowing at a distance of 850 m in South- West direction from the project site.
- v. Total water requirement is 200 m³/day and will be met from MIDC.Wastewater will be treated in ETP and treated effluent will be reused to the maximum extent. Some of the treated effluent will be sent to CETP. Domestic wastewater will be sent to Septic tank followed by Soak pit.

- vi. Proposed power requirement is 1,200 KVA which will be sourced from MSEDCL. One (1) DG set of 400 KVA capacity will be used during emergency.
- vii. The steam requirement and process heat requirement for the proposed set up shall be met from the steam generating boilers. It is proposed to install 1 No of boilers of 10 TPH steam capacity. FO is proposed to be used as fuel its requirement at rated capacity of boiler shall be 25 TPD (Ton per day).
- viii. **Hazardous waste:** Will be disposed off as per Hazardous waste rule 2016/ CPCB/ MPCB norms.
- ix. **Following are the list of proposed products:**

S. No.	Product / By Products	Capacity (T/Year)
Products		
1	Diethyl Thiophosphoric Acid (DETA)	12,000 (Combined capacity will be manufactured on Campaign basis)
2	Diethyl Thiophosphoryl Chloride (DETC)	
3	Dimethyl Thiophosphoryl Chloride (DMTC)	
4	Dimethyl Phosphoramidothioate (DMPAT)	1,000
5	Dithiophosphates	
a	Zinc DialkylDithiophosphate (ZDDP)	6,000(Combined capacity will be manufactured on Campaign basis)
b	Alkyl Sodium Dithiophosphate	
c	Sodium Dithiophosphate	
6	Organic Acetates	5,000 (Combined capacity will be manufactured on Campaign basis)
a	2-Methyl Adrohol Acetate	
b	Trimethyl Cyclohexyl Acetate	
c	Styrallyl Acetate	
d	Phenethyl Acetate	
7	Hydrogenated Products	5,000 (Combined capacity will be manufactured on Campaign basis)
a	O-Methyl Cyclohexanol	
b	O-Methyl Cyclohexanone	
c	Styrallyl Alcohol	
d	3,3,5 Trimethyl Cyclohexanol	
e	3,3,5 Trimethyl Cyclohexanone	
	Sub Total (Products)	29,000
By-Products		
1	Sodium Hydrogen Sulphide (NaHS)	8,500
2	Hydrochloric Acid (HCl)	19,500
3	Wettable Sulphur	3,000
4	Ammonium Hydroxide (NH ₄ OH)	150
5	Sodium Sulphite Na ₂ SO ₃	650
6	Dil. Acetic Acid	3000
	Sub Total (By Products)	34,800
	Grand Total (Products + By products)	63,800

EAC has suggested to PP to conduct public hearing as proposed unit will manufactured pesticide. PP agree for conducting Public hearing.

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

A. Additional TOR

- i. Public Consultation shall be done as per provisions of the EIA Notification, 2006.
- ii. ZLD plan to be submitted.

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

22.4.3

Synthetic Resin and Fatty Acid Manufacturing Facility (Synthetic Resin-1800 t/annum Fatty Acid-2000 t/annum ha.) at Indore, Madhya Pradesh by M/s MPD INDUSTRIES PVT LTD [IA/MP/IND2/62826/2017, IA-J-11011/71/2017-IA-II(I)]

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

- i. The proposal is for Proposed Synthetic Resin and Fatty Acid Manufacturing Facility (Synthetic Resin-1800 t/annum Fatty Acid-2000 t/annum ha.) at Indore, Madhya Pradesh by M/s MPD Industries Pvt. Ltd.
- ii. All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- iii. The project occupies total area of 0.7725 ha (1.909 acre). Industry will be developed greenbelt in an area of 33% i.e. 0.234 Ha out of 0.772 Ha of area of the project. The total cost of the project is Rs. 1811.48 Lacs. As the company is under operation the total manpower required is 90 nos. including all the levels (Plant Manager, Shift Incharges, Operators, Drivers, Security guards, Helpers & general workers.
- iv. It is reported that no forest/protected area/eco-sensitive area are located within 10 km distance of the project site. Sirpur Lake is situated at a distance of 6.5 km in SW direction.
- v. The water requirement for the project is 41.0 KLD which is sourced from bore wells and ETP treated water. The entire wastewater shall be treated in the 50 KLD capacity ETP and the treated water will be used for cooling towers, floor washing and gardening/green belt.
- vi. Power requirement after proposed project will be 475 KVA and will be met from M.P. State power Distribution Corporation limited (MPPKVVCL).
- vii. Agro wastes/ briquettes fired boiler of 5 TPH capacity will be installed. Bag filter will be provided with 30 m stack height. Agro wastes/ briquettes fired Thermopack of 15 Lkcal will be installed with Bag filter and 30 m stack height. One DG set of 500 KVA will be installed with 6 m stack height.
- viii. ETP Sludge and Evaporation residue will be sent to TSDF. Used Spent Oil (D.G. Set) and Waste Residue (containing Oil) will be used within the premises as a lubricant / sold to registered recycler. Discarded Barrels/Containers/drums laminated with Hazardous waste/Chemical will be returned to supplier/Dealer.
- ix. Following are the list of proposed products:

Existing Production Capacity		
S. No.	Name of Items	Existing Capacity (TPA)
1.	Synthetic Resin <ul style="list-style-type: none"> • Alkyd Resin • Alkyl Phenolic Resin • Amine Synergist • Amino Resin • Epoxy Resin • Estergum • Ketonic Resin 	1800 TPA

	<ul style="list-style-type: none"> • Phenolic Resin • Polyamide Resin • Polyester Resin • Polyurethane Resin • Rosin Modified Maleic Resin • Ultra Violet Monomers • Ultra Violet Oligomer • Ultra Violet Varnish 	
2.	Vegetable Oil Fatty Acids	2000 TPA

During presentation the EAC noted that PP has not submitted the adequate Topo Sheet. Revised Form-1 need to be submitted.

The EAC decided to defer the proposal for want of above additional information.

22.4.4 Proposed LNG (Liquefied Natural Gas) Floating, Storage and Regasification Unit (FSRU) of 0.15 MMTPA & land based power plant of 40 MW at Hope town, Port Blair, Andaman and Nicobar Islands by M/s M/s Petronet LNG Limited (PLL) [IA/AN/IND2/62866/2017, IA-J-11011/72/2017-IA-II(I)]

The project proponent informed following:-

- i. The project involves Proposed LNG (Liquefied Natural Gas) Floating, Storage and Regasification Unit (FSRU) of 0.15 MMTPA & land based power plant of 40 MW at Hope town, Port Blair, Andaman and Nicobar Islands by M/s Petronet LNG Limited (PLL).
- ii. All Oil & gas transportation pipe line (crude and refinery/ petrochemical products), passing through national parks /sanctuaries/coral reefs /ecologically sensitive areas including LNG Terminal are listed at S. No. 6(a) considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
- iii. It is reported that Mt. Harriet National Park is situated at a distance of 3.4 km. Snake Island Sanctuary-I is situated at a distance of 7 km. Sank Island Sanctuary-II is situated at a distance of 7.1 km. Mangroves in Bamboo flat is situated at a distance of 1.3 km.
- iv. The power requirement of Andaman & Nicobar Islands is met mainly from Government owned diesel generation units with balance power purchased from independent Power producers such as M/s Surya Chakra Power Corporation Limited at Bamboo flats and other Hired Power plants at Phoenix Bay. PPA with Suryachakra Power Corporation (20 MW) will come to an end in the year 2017-18. Hence, it is proposed to set up gas based power plant of 40 MW at Hope Town, Port Blair which will not only meet the current demand but also the near future demand as well.
- v. The project will be developed on the following basis:
 - Unloading facilities for LNG tankers from 5,000 to 30,000 m³ capacity;
 - LNG Storage of 10,000 m³;
 - Re-gasification capacity of 0.15 MMTPA of LNG;
 - Re-gasification by ambient air vaporizer/ intermediate fluid vaporizer
 - Finger jetty to accommodate FSRU on one side and LNG carrier on the other side;
 - FSRU to be installed at Hope town, Port Blair, Andaman and Nicobar islands;
 - Gas based Power plant of operating capacity 40 MW;
 - Provision to supply RLNG to other domestic / Industrial consumers;
 - Provision for bunkering of LNG as a fuel to inland cargo vessels;
 - Provision to load LNG to small LNG inter island barges and small LNG ships;

	<p>➤ Provision of LNG truck loading facilities.</p> <p>vi. The land in which PLL proposes to set LNG Terminal and gas based power plant is waste & barren land. The land requirement is 0.82 hectares along with adjoining water front for FSRU, finger jetty & for unloading LNG Carrier.</p> <p>vii. PLL has received the formal approval for conducting the required studies and for getting the necessary approval for setting up the LNG terminal at Hope town, Port Blair, Andaman and Nicobar Islands, India.</p> <p>viii. Source of water will be sea water. It shall be primarily used for, service water and fire-fighting requirements. Other plant water requirements i.e. Jacket cooling, lube oil cooling and potable water shall be met by desalination/RO plant installed on the FSRU. About 3 m³/day of water is required for domestic purposes sourced from the desalination/R.O to be installed on FSRU. Marine water of about 1000 m³/hr is required for the re-gasification facility on FSRU.</p> <p>ix. During construction phase, power required will be generated by temporary DG sets. During operation phase, energy requirement of 1000 KVA shall be met through captive power units (GEG's) on FSRU. BOG will be used as fuel for captive power generation using GEG's.</p> <p>x. The proposed LNG Terminal cost is estimated to be about Rs. 496 Crores and for the natural gas based Power Plant about Rs. 215 Crores.</p> <p>After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:</p> <p>A. Additional TOR</p> <p>i. Public Consultation shall be done as per provisions of the EIA Notification, 2006.</p> <p>ii. SCZMA recommendations to be submitted.</p> <p>iii. Permission from NBWL to be obtained.</p> <p>It was recommended that 'TOR' with Public consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.</p>
22.4.5	<p>Manufacture organic products in the existing inorganic products chemical manufacturing unit at Plot no. 905/12/A, GIDC Panoli, Taluka: Ankleshwar, Dist: Bharuch, Gujarat by M/s. Clairchem India Pvt. Ltd. [IA/GJ/IND2/62899/2017, IA-J-11011/73/2017-IA-II(I)]</p> <p>The Project Proponent and the accredited Consultant M/s. Clairchem India Pvt. Ltd. and En-vision Enviro Technologies Pvt. Ltd., gave a detailed presentation on the salient features of the project and informed that:</p> <p>i. The proposal is for Manufacture organic products in the existing inorganic products chemical manufacturing unit at Plot no. 905/12/A, GIDC Panoli, Taluka: Ankleshwar, Dist: Bharuch, Gujarat by M/s. Clairchem India Pvt. Ltd.</p> <p>ii. All synthetic organic chemicals industry located in a notified industrial area/estate are listed at S.N. 5(f) under category 'B'. However, due to applicability of general condition i.e. Critically polluted areas as notified by the Central Pollution Control Board, the project is considered as category 'A' and appraised at Central level by Expert Appraisal Committee.</p> <p>iii. Total 1,612.8 m² land area is available. Around 532 m² (33%) out of total plot area will be developed as green belt.</p> <p>iv. The estimated project cost is Rs. 3 Crore (2 Crore proposed + 1 Crore Existing). Total</p>

- capital cost earmarked towards environmental pollution control measures is 20 Lacs and the Recurring cost (operation and maintenance) will be about Rs. 5 Lacs per annum.
- v. Total Employment will be 20 (11 Existing + 9 Proposed) persons as direct & 08 persons indirect after expansion. Industry proposes to allocate Rs 5 Lacs @ 2.5 % towards Corporate Social Responsibility.
 - vi. It is reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.
 - vii. Total water requirement is 18.44 m³/Day of which fresh water requirement of 17.44 m³/Day and will be met from G.I.D.C, Panoli.
 - viii. Domestic waste water (2.5 KLD) will be disposed through the septic tank, followed by soak pit. Industrial waste water from process (1.18 KLD) will be segregated as Low COD stream (0.9 KLD) & High COD stream (0.9 KLD). Low COD stream along with effluent from washing, cooling and boiler blow down will be treated in proposed hydrodynamic cavitation process followed by chlorination treatment and then sent to PETL for further treatment. High COD stream will be sent to Common Incineration Facility.
 - ix. Existing unit has 0.8 TPH Natural Gas fired Baby boiler & Natural Gas fired Thermopack (4 Lac Kcal/hr)- Adequate stack of height of 09 m will be 1111111111111111 provided.
 - x. Water scrubber/ Ammonia Scrubber will be used to control process emissions.
 - xi. Discarded Containers/ Barrels/ Liner will be reused. Used Oil will be sold to CPCB Registered Recycler / Re-use for machine Lubrication. Process Residue will be sent to TSDF for the incineration. Spent Charcol and ETP Sludge will be sent to Sent to TSDF for landfilling. Spent Solvent and Distillation residue will be sent to Common Incineration Plant for the incineration.
 - xii. Following are the list of Existing & proposed product along with capacity.

Sr. No.	Product	Existing quantity (TPA)	Proposed quantity (TPA)	Total Capacity (TPA)
Inorganic products				
1	Copper Sulphate	10,200	0	10,200
2	Potassium Sulphate			
3	Sodium Nitrate			
4	Mono Ammonium Phosphate			
Organic Products				
1	1H -1,2,4-Triazole	0	360	360
2	4-Amino-1,2,4 -Triazole			
3	Methyl -3-Amino Crotonate			
4	2,4-Difluoro-alpha-(1H-1,2,4-Triazole) acetophenone	0	60	60
5	Trifluoro Acetic Anhydride	0	60	60
6	Trifluoro methane sulphonic Anhydride	0	36	36
7	5-Methyl [1,2,4] triazolo [3,4-b][1,3]benzothiazole	0	120	120
8	Bromo Benzene	0	120	120
9	Benfotiamine	0	24	24
10	Betahistine			
11	Indometacin			
12	Ivermectin			
13	D-biotin	0	6	6
14	Tadalafil			

15	Tobramycin sulfate			
16	Mupirocin			
17	Acarbose			
18	Voglibose	0	0.6	0.6
19	Ethyl Valerate	0	24	24
20	Methyl Valerate	0	24	24
21	Cyclohexyl Acetate	0	60	60
By Products				
1	Liquor Ammonia (12-15%)	0	520.2	520.2
2	Aluminum Hydroxide	0	392.16	392.16
3	Phosphoric Acid (H3PO4) {40 To 50 %}	0	2343.6	2343.6
4	Formic Acid (35%)	0	104.28	104.28
5	Hydrobromic acid (25%-30%)	0	107.64	107.64

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

A. Additional TOR

- i. Public hearing is exempted under the provisions as per para 7 (i). Stage (3) (i) (b) of the EIA notification, 2006.
- ii. Green belt area of 3.5 m width shall be developed around the periphery of the unit.

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

22.4.6 Synthetic organic chemicals industry (dyes & dye intermediates; bulk At Survey No 141/1/2 and 142/1 National Highway 8A, Varsana, PO: Gopalpuri, Gandhidham Kutch, Gujarat by M/s SNF Flopam India Pvt Ltd [IA/GJ/IND2/62913/2017, IA-J-11011/74/2017-IA-II(I)]

The project proponent informed following:-

- (i) The project involves Synthetic organic chemicals industry (dyes & dye intermediates; bulk at Survey No. 141/1/2 and 142/1 National Highway 8A, Varsana, PO: Gopalpuri, Gandhidham Kutch, Gujarat by M/s SNF Flopam India Pvt. Ltd.
- (ii) All synthetic organic chemical manufacturing projects are listed at S.N.5(f) of schedule of Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) Existing activity does not fall in purview of EIA notification and hence do not procure environment clearance.
- (iv) Existing land area is 42.02 Acre, additional 28.31 Acre land will be used for the project.
- (v) Industry will develop green belt in an area of 33 % i.e. 21 Acre out of 70 Acre of area of the project.
- (vi) The estimated cost is Rs. 400.00 Cr. The total capital cost earmarked towards environmental pollution control measures is Rs. 5 Cr. and the Recurring (operation and maintenance) will be about Rs. 1.2 Cr. per annum.
- (vii) The total employment will be 125 persons as direct and indirect more than 200 persons

- for proposed project. Industry proposes to allocate ` 4.00 Cr. @ 1 % towards Corporate Social Responsibility.
- (viii) It is reported that no any national park, biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.
 - (ix) Total water requirement is 760 m³/day of which fresh water requirement of 1482 m³/day and will be met from Narmada Canal (GWIL), permission will be obtained.
 - (x) Effluent of 231 m³/day will be treated through ETP and treated effluent will be used for gardening within premises.
 - (xi) Power requirement will be 16300 KWh and will met from PGVCL No additional DG set required.
 - (xii) The unit requires Heater and natural gas 2200 SCM/hour would be used as fuel.
 - (xiii) Process/fugitive emission generation from vessels will be cotrolled using scrubbers.
 - (xiv) Hazardous waste generation sources and management systems is as follows:

Detail of Hazardous Waste	Category	Total Quantity
Air Filter ash	35.1	20.5 MT/Year
Catalyst empty bags	33.1	2 MT/Year
Glass contaminated Lab equipment	23.1	2.75 MT/Year
ETP Sludge	35.3	60 MT/year

- (xv) List of product:

Sr. No.	Name of Product	Total capacity
1	Acrylamide	120000 MT/Year
2	Poly Acrylamide Powder	60000 MT/Year
3	Poly Acrylamide Liquid	42000 MT/Year
4	Poly Acrylamide Emulsions	36000 MT/Year
5	Total	2,58,000 MT/Year

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

A. Additional TOR

- i. Public Consultation shall be done as per provisions of the EIA Notification, 2006.
- ii. ZLD plan to be submitted.

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

22.4.7 Proposal for Manufacturing Unit of New Technical Pesticides at HD-20, 21, 22 &23, UPSIDC Industrial Area, Sikandrabad, Dist-Bulandshahr (UP) by M/s Samradhi Crop Chemicals (SCC) [IA/UP/IND2/62984/2017, IA-J-11011/76/2017-IA-II(I)]

The project proponent informed following:-

- (i) The project involves proposal for MANUFACTURING UNIT OF NEW TECHNICAL

- PESTICIDES at HD-20, 21, 22 &23, UPSIDC Industrial Area, Sikandrabad, Dist. - Bulandshehar (UP) by M/s Samradhi Crop Chemicals (SCC).
- (ii) All Pesticide manufacturing industry are listed at S.N. 5(b) category considered as category 'A' and appraised at Central level by Expert Appraisal Committee.
 - (iii) Total plot area is 3200 sqm. Green belt development will be developed in an area of 1056 m² (33 %) of the total plot area. The proposed project has an employment potential of 25 persons. Total cost of the project is Rs. 4 Crores. Site is located in notified industrial area developed by UPSIDC as such Public hearing is exempted.
 - (iv) Power requirement of 110 KVA will be sourced from UPVVNL. Additionally one D.G. Sets of capacity 90 KVA will be installed for power-backup.
 - (v) The total requirement of fresh water for the proposed project is 10 KLD. Water requirement will be made available through Borewell. Waste water will be generated from the process, utilities and domestic area.
 - (vi) The process effluent will be treated in ETP (Capacity 10 KL). Also, utilities blow downs and domestic sewage will be disposing off in to septic tank followed soak pit.
 - (vii) Permeate from RO will be reused in cooling tower and reject will be treated to achieving Zero Liquid discharge. Reverse osmosis or ultrafiltration is used to recover and concentrate active ingredients. Effluent treatment normally includes flocculation, coagulation, settling, carbon adsorption, detoxification of pesticides by oxidation (using ultraviolet systems or peroxide solutions), and biological treatment. Exhausted carbon from absorption processes may be sent for regeneration or combustion. The inorganic hazardous residues will be sent to TSDF.
 - (viii) It is reported that no National Parks, Wildlife Sanctuaries, Tiger/ Elephant Reserves, Wildlife Corridors etc. falls within 10 km radius from the plant site.
 - (ix) The proposed installed capacity of the plant is 165 MTPA for manufacturing of herbicides & insecticides. The proposed product details are as follows:
Details of the proposed products with production capacity

S. No.	Technical grade pesticides	Grade	Physical state	Production in MTPA
1	Glyphosate Tech.	Herbicides	Solid	30 MTPA
2	Pretilachlor Tech.	Herbicides	Liquid	30 MTPA
3	Thiomethoxam Tech.	Insecticides	Solid	60 MTPA
4	Bifenthrin Tech.	Insecticides	Solid	15 MTPA
5	Fipronil Tech.	Insecticides	Solid	15 MTPA
6	Imidacloprid Tech.	Insecticides	Solid	15 MTPA
Total				165 MTPA

EAC suggested to PP to conduct public hearing. PP agree to conduct public hearing.

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

A. Additional TOR

- iii. Public Consultation shall be done as per provisions of the EIA Notification, 2006.
- iv. ZLD plan to be submitted.

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

22.4.8 Proposed Distillery, Sugar and Co-Gen Unit by M/s. G M Sugars & Energy Ltd. at Sy. No. 40/2, 40/3, 40/4, 40/5, 40/6, 41/2, 41/3, 41/4, 41/5, 41/6, 47(P), 50/1 (P) of Chatnahalli Village, Hirekerur Taluk, Haveri District, Karnataka State. [IA/KA/IND2/63010/2017, IA-J-11011/77/2017-IA-II(I)]

The project proponent informed following:-

- (i) The project involves proposed Distillery, Sugar and Co-Gen Unit by M/s G M Sugars & Energy Ltd. at Sy. No. 40/2, 40/3, 40/4, 40/5, 40/6, 41/2, 41/3, 41/4, 41/5, 41/6, 47(P), 50/1 (P) of Chatnahalli Village, Hirekerur Taluk, Haveri District, Karnataka State by M/s G M Sugars & Energy Ltd.
- (ii) All molasses based distilleries are listed at Sl.No. 5(g) (i) of Schedule of EIA Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) No National Parks, wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife corridors etc. within 10 km radius. Malebennur State Forest is situated at a distance of 4.5 kms (SE) and Arakeri State Forest is situated at a distance of 7.8 kms in S direction. Tungabhadra River is flowing at a distance of 1.1 kms in E direction and Kumudavathi River is flowing at a distance of 9.5 Km in NW direction from the project site.
- (iv) Capital cost of proposed Project: Rs. 350 Cr.
- (v) Two nos. of Bagasse fired boiler of 120 TPH capacity will be installed. Turbine generator of 50 MW will be installed.
- (vi) Air pollution control measures: ESP and stack.
- (vii) Co-Generation unit will produce 50 MWhr capacity of power which shall be utilized inside the plant and remaining 20.8 MWhr shall be sent to state power grid.
- (viii) Water Requirement: 4000 m³/day (Partly fresh and partly by recycle)
- (ix) Waste water treatment recycle & reuse: ETP, CPU, MEE & incineration boiler for Spent wash. Remaining for plant & plantation.
- (x) The treated process wastewater shall be diluted with the non process wastewater from cogeneration in polishing pond except for domestic wastewater which is treated in septic tank followed by soak pit. The outlet of the polishing pond conforming to the GSR 422 E on land discharge standards shall be utilized for greenbelt development & sugarcane cultivation within the premises. The project is based on zero discharge. Domestic sewage (36m³/day) generated from the industrial complex will be subjected to treatment in Septic tank followed by soak pit.
- (xi) Solid/hazardous waste management and disposal: Hazardous waste like empty containers, lube oil etc. will be re-used or sent to authorized re-processor.
- (xii) Green belt: Green belt will be provided as per norms.
- (xiii) Proposed production details:
 - Distillery - 120 KLPD
 - Sugar – 10,000 TCD
 - Co-Gen – 50 MW

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

A. Additional TOR

- i. Public Consultation shall be done as per provisions of the EIA Notification, 2006.
- ii. ZLD plan to be submitted.
- iii. Baseline study shall be conducted after monsoon period.

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

22.4.9 Proposed PVA Emulsion & Synthetic Wood Adhesive manufacturing unit by M/s Ratankamal Industries Plot No: 65-F & G, Soham Industrial Park, Part - II, Block No. 312 & 313, Timba Village, Daskroi Tahsil, Bareja - Mahijada, Navapura, Dholka Road, Ahmedabad District, Gujarat. [IA/GJ/IND2/63130/2017, IA-J-11011/125/2017-IA-II(I)]

The project proponent informed following:-

- (i) The project involves proposed PVA Emulsion & Synthetic Wood Adhesive manufacturing unit by M/s Ratankamal Industries Plot No: 65-F & G, Soham Industrial Park, Part - II, Block No. 312 & 313, Timba Village, Daskroi Tehsil, Bareja - Mahijada, Navapura, Dholka Road, Ahmedabad District, Gujarat.
- (ii) All Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates) Located outside the notified industrial area/ estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) It is Green field project. Proposed land area is 0.461 Acres /1869 m². Industry will be developed Greenbelt in an area of 33% i.e 650 m² out 1869 m² of area of the project.
- (iv) The estimated proposed project cost is Rs. 1.25 Crores. Total capital cost earmarked towards environmental pollution control measures is around Rs. 18 Lakhs and the recurring cost (operation and maintenance) will be about Rs. 6 Lakhs per annum.
- (v) Total Employment will be 20 persons as direct & 10 persons as indirect. Industry proposed to allocate Rs. 6.5 Lakhs for 5 years @ 5% of Project cost towards Corporate Social Responsibility.
- (vi) It is reported that no national parks, wildlife sanctuaries Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10km distance. Sabarmati River is flowing at a distance of 1.51 kms in S direction.
- (vii) The total water requirement is 34.11 m³/day will be met from ground water sources. Generated effluent of 3.0 m³/day will be treated in Forced evaporation System. Condensate will be reused.
- (viii) Power requirement for proposed project will be 50 KW and will be met from Public Supply. DG set of 30KVA capacity; Stacks (height 8 mts) will be used as standby during power failures.
- (ix) 0.8 TPH Fuel Briquettes based boiler is proposed for the new unit with a stack of height of 11 mtr, Multi cyclone separator/ bag filter will be installed for controlling the particulate emissions (within statutory limit of 115 mg/ Nm³).
- (x) No Process emission will be generated from the manufacturing of PVA Emulsion & Synthetic Wood Adhesive.
- (xi) Details of Solid waste/Hazardous waste generation and its management.

S. No	Name of the Hazardous Waste	Proposed Quantity	Disposal Method
1	Process Organic Waste	100 Kg/Year	Disposed to CHWIF
2	Used Raw material Bags	1800 No's/Year	Reused Or disposed to GPCB authorized vendor
3	Empty Barrels	1200No's/Year	Reused Or disposed to GPCB authorized vendor
4	Used Oil	50 Ltrs/Year	Disposed to Authorized Reprocessors

5	Ash from Boiler Operations	300 Kgs/Day	Sent to Brick manufacturers
6	FE salts	3 kg/day	Sent to TSDF
7	Used Lead Acid Batteries	2 No's/Year	Send back to suppliers for buyback of New batteries

(xii) Following are the list of proposed products

TABLE: PROPOSED PRODUCTS AND QUANTITIES

S. No	Product Name	Quantity in MT/Month
1	PVA Emulsion	800
2	Synthetic wood Adhesive	400
	Total	1200

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

A. Additional TOR

- i. Public Consultation shall be done as per provisions of the EIA Notification, 2006.

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

22.4.10 Expansion of Sugar Factory from 5000 TCD to 7500 TCD (increase by 2500 TCD) and 30 MW co-gen plant of M/s. DeshbhaktRatnappaKumbharPanchgangaSahakariSakharKarkhana Ltd. (D.B.R.K. Panchganga S.S.K. Ltd.) leased unit of Shree Renuka Sugars Ltd., Ganganagar, Ichalkaranji, Tal.: Hathkanangale, Dist. Kolhapur, Maharashtra. [IA/MH/IND2/62894/2017, IA-J-11011/116/2017-IA-II(I)]

The project proponent made a presentation before the EAC and informed following:-

- (i) The project involves expansion of Sugar Factory from 5000 TCD to 7500 TCD (increase by 2500 TCD) and 30 MW co-gen plant of M/s. Deshbhakt Ratnappa Kumbhar Panchganga Sahakari Sakhar Karkhana Ltd. (D.B.R.K. Panchganga S.S.K. Ltd.) leased unit of Shree Renuka Sugars Ltd., Ganganagar, Ichalkaranji, Tal.: Hathkanangale, Dist. Kolhapur, Maharashtra.
- (ii) All Sugar unit are listed at S.N. 5(j) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B' but due to applicability of General Condition i.e. project location is 4.65 km from Interstate boundary Maharashtra – Karnataka, hence project appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) It is reported that no national parks, wildlife sanctuaries Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10km distance.
- (iv) Total land acquired for Sugar Factory & Co-gen is 594651.39 m². Existing Green Belt Area is 89197.7 m² (15 % of total plot). Proposed Green Belt area will be 107037.25 m² (18 % of total plot).
- (v) Cost of the Project:
 - Existing Sugar and Co-gen – Rs. 210 Crores
 - Proposed Sugar Factory Expansion – Rs. 15.91 Crores
- (vi) The total water requirement for existing and proposed expansion project would be

- 4,919 m³/day. Out of this, 497 m³/day would be fresh water and 4,422 m³/day would be cane condensate. The domestic water requirement is 50 m³/day for industrial workers. The fresh water is taken from Panchganga river.
- (vii) The trade effluent generated from existing and expansion activities shall be treated in existing ETP. The existing ETP comprises of primary, secondary and tertiary treatment unit operations viz. oil & grease chamber, anaerobic lagoon, aeration tank, clarifier, treated water sump and sludge drying beds. Refer additional attachment for ETP drawing. The domestic effluent generated under existing sugar and co-gen unit is 45 M³/day. The domestic effluent of existing unit is treated in septic tanks followed by soak pits. After expansion, the domestic effluent of existing and proposed sugar and co-gen unit would be treated separately in proposed STP to be provided on site.
- (viii) Under the existing sugar and co-gen unit, a boiler of 140 TPH and two D.G. Sets of capacities 1010 KVA each is installed. Bagasse to the tune of 1526.4 MT/day is used as fuel for boiler for generating steam required for co-gen, sugar factory operations. No boiler shall be installed under expansion unit. Diesel to the tune of 200 Lit/Hr. is used as fuel for D.G. Sets.
- (ix) The power required for sugar operation and construction work would be taken from existing D.G. sets.
- (x) Solid Waste:

Type of Waste	Existing	Expansion	Total	Disposal
Boiler ash	21.6 MT/Day	--	21.6 MT/D	Farmers / Sale to bricks manufacturers
ETP Sludge	2.5 Mt/Y	1.25 MT/Y	3.75 MT/Y	Used for plantation as manure

- (xi) Hazardous Waste:

Type of Waste	Existing	Expansion	Total	Disposal
Spent Oil	2.5 MT/Y	1 MT/Y	3.5 MT/Y	Burnt in Boiler
Residue Oil	2.5 MT/Y	1 MT/Y	3.5 MT/Y	

- (xii) Production Capacities:

Product & By-product	Quantity		
	Existing (5000 TCD)	Expansion (2500 TCD)	Total (7500 TCD)
• Sugar and Cogeneration Unit			
Sugar (MT/D)	650	325	975
Molasses (MT/D)	225	115	340
Bagasse (MT/D)	1500	750	2250
Press Mud (MT/D)	200	100	300

Electricity (MW)	30	--	30
---------------------	----	----	----

During presentation the EAC noted that as per Form -1, this is an expansion case but PP could not produce the existing EC and compliance of existing EC. PP also did not present the green belt of existing EC.

The EAC decided to defer the proposal for want of above additional information.

22.4.11 Proposal for 30 KLPD molasses based distillery (Ethanol) by M/s Devnandan Ethanol and Allied Products LLP. at RS. NO. 52/52, 52/44 part 1, 52/51 part 1, Moje Ranipura (Samalaya), Ta: Savli, Dist: Vadodara, Gujarat- Reconsideration of TOR. [IA/GJ/IND2/60233/2016, J-11011/312/2016- IA II(I)]-

Proposal was considered in 17th EAC meeting held during 26th-29th December, 2016. Wherein the EAC deferred the proposal for want of following additional information:

- i) The committee felt that PP is not having sufficient water supply to run the plant. The committee suggested to produce permission for fresh water supply from the concerned department and revise the fresh water requirement at the rate of 8 kl/kl.

Now PP during presentation informed that they have applied for water drawl permission from CGWB and Sardar Sarovar Narmada Nigam Ltd. PP has submitted the copy of application for the same. PP also confirmed that fresh water requirement will be 240 m³/day i.e. 8 kl/kl.

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

A. Additional TOR

- i. Public Consultation shall be done as per provisions of the EIA Notification, 2006.
- ii. ZLD plan to be submitted.

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

22.4.12 Proposed expansion of synthetic organic chemicals and pesticide intermediates at Plot No. S/163, G.I.D.C. Dahej-I, Tal. Vagra, Dist. Bharuch, Gujarat by M/s Organic Industries Pvt. Ltd.-reg Reconsideration of TOR. [IA/GJ/IND2/56892/2016, J-11011/315/2016-IA.II(I)]

Proposal was considered in 13th EAC meeting held during 26th-27th September, 2016. Wherein the EAC deferred the proposal for want of following additional information:

- i. Copy of Existing EC if any and or Copy of Consent to Establishment to be submitted.
- ii. Disposal of solid waste since establishment.
- iii. Clarify full details of existing and proposed product.

Now during presentation PP informed the following:

- i. Company is not having Environmental Clearance for Existing Unit because presently the company is manufacturing inorganic chemicals which are not covered under EIA

- Notification, 2006. Company has obtained Consent to Establish for 9 Products and Consent to operate for 4 products from GPCB.
- ii. PP has submitted the details of disposal of solid waste since establishment of the plant.
 - iii. PP has submitted the full details of existing and proposed product.

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

A. Additional TOR

- i. Public Consultation shall be done as per provisions of the EIA Notification, 2006.
- ii. ZLD plan to be submitted.
- iii. Provision for development of 10 M width peripheral green belt.
- iv. All products should be mentioned by their scientific nomenclature.

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

22.4.13 Proposed expansion of manufacturing of Synthetic Organic products plant at Plot No. 609/610, 100 shed area, GIDC Estate, Vapi, Valsad, Gujarat by M/s AArti Industries Limited (Apple Organics Division)-Reconsideration TOR [IA/GJ/IND2/61144/2016, J-11011/384/2016-IA.II(I)]-

Proposal was considered in 18th EAC meeting held during 23rd-25th January, 2017. Wherein the EAC deferred the proposal for want of following additional information:

- i. Revised existing and proposed product list to be submitted.
- ii. ZLD plan to be submitted.

Now during presentation PP informed the following:

- i. PP has submitted the full details of existing and proposed product which are as follows:
Existing Products as Per CCA No. AWH-73091

Sr. No.	Name of Product	Quantity in MT per Month
1.	Para Chloro Aniline OR	20
2.	3,4 Di Chloro Aniline OR	18
3.	2,5 Di Chloro Aniline OR	18
4.	Mix of 3,4 DCA & 2,3 DCA OR	18
5.	Ortho Anisidine OR	20
6.	Para Toludene OR	20

List of Proposed Products:

Sr. No.	List of Process	Quantity (MT/Month)
1.	CHLORINATED PROCESS AND/OR	5
1.1	Mono Chloro Benzene, Ortho Di Chloro Benzene, Para Di Chloro Benzene AND/OR	
1.2	123,124 Tri Chloro Benzene-(Benzene) AND/OR	
1.3	Para Nitro Toluene (2chloro 4 Nitro toluene) AND/OR	

1.4	Mono Dichloro Benzene AND/OR	
1.5	Ortho chloro toluene / Para chloro toluene AND/OR	
1.6	6-Chloro 2-Nitro Toluene 4-Chloro 2-Nitro Toluene AND/OR	
1.7	Pivalyl Chloride AND/OR	
1.8	2-Ethyl Hexanyl Chloride AND/OR	
1.9	Iso Nonyl Chloride AND/OR	
1.10	2,4,6 Trichloro Aniline (TCAN) AND/OR	
1.11	2, 6 – Dichloro para nitro aniline (2,6 DCPNA) AND/OR	
2.	HYDROGENATION/REDUCTION PROCESS AND/OR	
2.1	Ortho Toludene AND/OR	
2.2	M- O & Para Chloro Aniline AND/OR	
2.3	3,4-2,3-2,5 dichloro Aniline AND/OR	
2.4	3,4 & 4,4Diamino Diphenyl Ether AND/OR	
2.5	Di Floro Benzene (1-3) AND/OR	
2.6	Mixing of 2, 4 / 2, 5 DCA AND/OR	
2.7	Mixing of 2, 5 / 2, 6 DCA AND/OR	
2.8	Mixing of 2, 4 / 2, 5 / 2, 6 DCA AND/OR	
2.9	2,4 Dichloro Aniline / 2,6 DiChloro Aniline / 3,5 DiChloro Aniline AND/OR	
2.10	2,4,5 Trichloro Aniline AND/OR	
2.11	Meta / Ortho / Para Phenylene Di Amine AND/OR	
2.12	3,4 Diamino Diphenyl Ether / 4,4 Diamino Diphenyl AND/OR	
2.13	Ether AND/OR	
2.14	Ortho / Para / Meta Anisidine AND/OR	
2.15	Chloro Fluoro Aniline AND/OR	
2.16	Ortho / Para / Meta Cumidine AND/OR	
2.17	Para / Meta Amino Phenol AND/OR	
2.18	Toludines AND/OR	
2.19	Aniline AND/OR	
2.20	Para / Meta / Ortho Floro Aniline AND/OR	
2.21	Di Floro Aniline (1:3) AND/OR	
2.22	4-Floro-N-Isopropyl Aniline AND/OR	
2.23	4-Chloro-NIsopropyl Aniline AND/OR	
2.24	2 Methoxy 4 Nitro Aniline (Scarlet R - from partial hydrogenation of 24 Dinitro Anisole) AND/OR	
2.25	2,4 Di Amino Anisole AND/OR	
2.26	N-N Disec Butyl PPDA AND/OR	
2.27	Meta Xilidine AND/OR	
2.28	4 Chloro 2,5 Dimethoxy Aniline AND/OR	
2.29	N,N Di Sec tertearly butyl para phenylene Diamine AND/OR	
2.30	DCBH (Di Chloro Benzene Hydro chloride) AND/OR	
2.31	3,5/2,6 DFA (Di Flouro Aniline) AND/OR	
2.32	Di Anisidine AND/OR	
2.33	OT Base AND/OR	
3.	NITRATION PROCESS AND/OR	5

3.1	3-4,2-3,2-5,2,4 Dichloro N Benzene AND/OR	
3.2	Di Chloro Di Fluoro Nitro Benzene AND/OR	
3.3	Ortho Nitro Chloro Benzene/ Para Nitro Chloro Benzene/ Meta Nitro Chloro Benzene AND/OR	
3.4	2,4 Di Nitro Chloro Benzene AND/OR	
3.5	2,4,5 Tri Chloro Nitro Benzene/ 2,3,4 Tri Chloro Nitro Benzene AND/OR	
3.6	4-Nitro N-methyl Phthalimide AND/OR	
3.7	2 EHN (Ethyl Hexanol Nitration) AND/OR	
4.	NITRO ANISOLE PROCESS AND/OR	
4.1	Ortho Nitro Anisole AND/OR	
4.2	Para Nitro Anisole AND/OR	5
4.3	2,4-Di Nitro Anisole AND/OR	
4.4	2 Methoxy 5 Chloro Nitro Benzene (from 25 DCNB) AND/OR	
5.	FLUORINATION PROCESS AND/OR	
5.1	Para Fluoro Nitro Benzene AND/OR	5
5.2	Di Fluoro Nitro Benzene AND/OR	
6.	DE-NITRO CHLORINATION PROCESS AND/OR	
6.1	2,6Di Chloro Fluoro Benzene AND/OR	
6.2	2,6 Di Chloro-benzonitrile AND/OR	
6.3	Di Chloro Di Fluoro Benzene AND/OR	
6.4	Meta Dichloro Benzene AND/OR	5
6.5	2,4 Difluoro Chloro Benzene AND/OR	
6.6	2,4 Dichloro Fluoro Benzene AND/OR	
6.7	1,3 Dichloro 4,6 Difluoro Benzene AND/OR	
6.8	Para Fluoro Chloro Benzene AND/OR	
6.9	Ortho Fluoro Chloro Benzene AND/OR	
7.	AMMONIATION PROCESS AND/OR	
7.1	Di Chloro Ortho Nitro Aniline AND/OR	5
7.2	Ortho Nitro Aniline-Para Nitro Aniline AND/OR	
8.	BROMINATION&DEAMINATION PROCESS AND/OR	
8.1	345Tri Fluoro Bromine Benzene	5
8.2	2 Bromo 4 Fluoro Acetanilide AND/OR	
8.3	Di Chloro Bromo Benzene AND/OR	
9.	SULPHANATION PROCESS AND/OR	
9.1	4B Acid AND/OR	5
10.	ALKYLATION PROCESS AND/OR	
10.1	Methyl Ethyl Aniline AND/OR	5
11.	DEHALGENATION PROCESS AND/OR	
11.1	1,3 Di Fluoro Benzene AND/OR	5
12.	CONDENSATION PROCESS AND/OR	
12.1	Di Nitro Di Phenyl Ether AND/OR	5
13.	CYCLIZATION PROCESS AND/OR	
13.1	Di Amino Phenyl Benzimidazole AND/OR	
13.2	Para fluoroAnisolAND/OR	5
13.3	Quinalphose (TECH) (Diethyl 2-Hydroxy Thiophosphoryl Chloride)AND/OR	
14.	ESTERFICATION AND/OR	
14.1	Ester AND/OR	5
15.	DIAZOTISATION PROCESS AND/OR	
15.1	25&23Di Chloro Phenol AND/OR	5

15.2	-3,5 Di Chloro Nitro Benzene AND/OR	
15.3	Para Flouro Phenol (PFP) AND/OR	
16.	ACETYLATION & HYDROLYSIS PROCESS AND/OR	5
16.1	Meta Nitro Para Anisidine AND/OR	
16.2	Meta Nitro Para Toluidiene AND/OR	
	Total	
17.	BY PRODUCTS	
17.1	30% Hydrochloric Acid	202
17.2	Dilute Sulphuric Acid	327
17.3	Aluminum Oxide (Al ₂ O ₃)	4
17.4	Sodium Chloride (NaCl)	44.5
17.5	Ortho Nitro Phenol (ONP)	3.5
17.6	Calcium Chloride (CaCl ₂) solution	149
17.7	Potassium Chloride (KCL)	187.5
17.8	Acetic Acid (CH ₃ COOH)	10
	Total	927.5

- ii. Total industrial effluent will be treated in Effluent treatment plant after treatment effluent will be sent to CETP.

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

A. Additional TOR

- i. Public hearing is exempted under the provisions as per para 7 (i). Stage (3) (i) (b) of the EIA notification, 2006.

It was recommended that 'TOR' without Public consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted under the provisions as per para 7 III. Stage (3) (b) of the EIA notification, 2006.

22.4.14 Expansion & Modernization of existing project for manufacturing of explosives and defense products at Village – Chakdoh Near Bazargaon, Tahsil - Katol, Dist. Nagpur-440 023 by M/s Solar Industries India Limited-reconsideration of TOR reg.[IA/MH/IND2/61877/2017, IA-J-11011/28/2017-IA-II(I)]

Proposal was considered in 20th EAC meeting held during 27th-28th February, 2017. Wherein the EAC noted that some of the chemical compounds which are being manufactured in the plant are synthetic organic chemicals. The EAC enquired about the applicability of the EIA Notification, 2006 to the existing unit, the PP could not provide the satisfactory clarification about the same. The EAC suggested to provide a copy of the consent to operate order issued by the concerned State Pollution Control Board after enforcement of EIA Notification, 2006.

Now during presentation PP has submitted the clarification vide letter dated 06.03.2017 w.r.t. points raised during 20th EAC meeting and informed that existing unit has obtained CTO wherein it is mentioned that no EC required at that time.

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

	<p>A. Additional TOR</p> <ol style="list-style-type: none"> i. Public Consultation shall be done as per provisions of the EIA Notification, 2006. ii. ZLD plan to be submitted. iii. No ground water shall be used. iv. Submit the safety audit report. v. Revised layout of the plant with 10 m wide green belt around periphery of the plant to be submitted. vi. Risk assessment duly conducted by reputed international company to be submitted. <p>It was recommended that ‘TOR’ with Public consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the ‘Generic Structure of EIA’ given in Appendix III and IIIA in the EIA Notification, 2006.</p>
--	--

22.5 :Any other

22.5.1	<p>Expansion of Agrochemical & Agrochemical Intermediate Products at plot no. 43/1, GIDC Dahej, TalukaVagra, District Bharuch, Gujarat By M/s Tagros Chemical India Ltd. – reg. Tor amendment [IA/GJ/IND2/52237/2016, J-11011/122/2016- IA II(I)]</p> <p>Ministry had issued TOR with Public hearing to M/s Tagros Chemical India Ltd., vide letter No. J-11011/122/2016-IA II (I) dated 15th July, 2016 for Expansion of Agrochemical & Agrochemical Intermediate Products at plot no. 43/1, GIDC Dahej, TalukaVagra, District Bharuch, Gujarat.</p> <p>Now the PP has requested to exempt public hearing given in TOR dated 15th July, 2016 as project is located in Dahej-I, GIDC. PP informed that Dahej-I, GIDC is a Notified Industrial Estate and the Gazette Notification of Dahej-I was published on July 21, 1995.</p> <p>PP also informed that Public hearing was also conducted earlier on dated 17th April, 2013.</p> <p>The EAC after examining the facts submitted by the PP was of the view that this committee has already recommended to the Ministry that pesticide units should have public consultation irrespective of their location. However, in the present case it should be kept in mind that the proposed unit is being expanded in a notified industrial estate and the parent plant has gone through the public consultation process in detail in the year 2013. Secondly, the entire plant including the parent plant will follow the ‘Zero Liquid Discharge’ concept.</p> <p>After detailed deliberations, the committee recommended for exemption in Public hearing under para 7(ii) of the EIA Notification, 2006 for preparation of EIA/EMP Report.</p>
22.5.2	<p>Proposed expansion in existing grain based distillery 50 KLPD to 250 KLPD (Ethanol/RS/ENA) and alternatively operation 125 KLPD Grain & 125 KLPD Molasses along with installation of 5.0 MW Co-Generation Power Plant at Village Boralli, Tehsil Badnawar, District Dhar, Madhya Pradesh by M/s Oasis Distilleries Limited- reg. Tor amendment [IA/MP/IND2/31002/2015 , J-11011/257/2015- IA-II(I)]</p>

- i. Ministry had issued TOR to M/s. Oasis Distilleries Limited vide letter No. J-11011/257/2015-IA II (I) dated 11th May, 2016 for Proposed expansion in existing grain based distillery 50 KLPD to 250 KLPD (Ethanol/RS/ENA) and alternatively operation 125 KLPD Grain & 125 KLPD Molasses along with installation of 5.0 MW Co-Generation Power Plant at Village Boralli, Tehsil Badnawar, District Dhar, Madhya Pradesh.
- ii. Now PP informed that due to market scenario which is subject to availability of raw material in the nearby area and also the sale of the product, PP want to decrease the production capacity which is as follows:

S. No.	As per ToR Letter dated 11 th May, 2016	Proposed Amendment
1.	Proposed expansion in existing grain based distillery 50 KLPD to 250 KLPD (Ethanol/RS/ENA) and alternatively operation 125 KLPD Grain & 125 KLPD Molasses along with installation of 5.0 MW Co-Generation Power Plant at Village Boralli, Tehsil Badnawar, District Dhar, Madhya Pradesh by M/s Oasis Distilleries Limited	Proposed Expansion of Existing Grain based Distillery from 50 to 125 KLPD along with installation of 3.0 MW Co-Generation Power Plant at Village Boralli, Tehsil Badnawar, District Dhar, Madhya Pradesh by M/s M/s. Oasis Distilleries Limited

After detailed deliberations the committee recommended the aforesaid amendment in existing TOR. All specific and additional TOR will remain same.

22.5.3 Proposed specialty chemicals, pesticide intermediates and perfumery chemical unit at Plot No. CH-11/A, Dahej-I, Dahej Industrial Estate, TalukaVagra, District Bharuch, Gujarat by M/s. V India Chemical Industries Pvt. Ltd.- reg. Tor amendment [IA/GJ/IND2/63389/2016, J-11011/34/2016-IA II (I)]

Ministry had issued TOR with Public hearing to M/s. V India Chemical Industries Pvt. Ltd.,vide letter No. J-11011/34/2016-IA II (I) dated 11th May, 2016 for Proposed specialty chemicals, pesticide intermediates and perfumery chemical unit at Plot No. CH-11/A, Dahej-I, Dahej Industrial Estate, TalukaVagra, District Bharuch, Gujarat.

Now the PP has requested to exempt public hearing given in TOR dated 11th May, 2016 as project is located in Dahej-I, GIDC. PP informed that Dahej-I, GIDC is a Notified Industrial Estate and the Gazette Notification of Dahej-I was published on July 21, 1995.

The EAC after examining the facts submitted by the PP was of the view that this committee has already recommended to the Ministry that pesticide units should have public consultation irrespective of their location.

However, Ministry can examine the matter as per existing provisions under concerned law/Act.

22.5.4 Proposed Expansion Of Carbon Black (10950 TPM To 15750 TPM) and Co-Generation Power Plant (22 Mw To 32 Mw) in Existing Premises at Survey No. 47, Sh-46, Village: Mokha. Taluka: Mundra, Dist. Kutch, Gujarat Of M/S. Phillips Carbon Black Ltd.- reg. Tor amendment [IA/GJ/IND2/58103/2016, J-11011/195/2016- IA II(I)]

	PP did not attend the meeting.
22.5.5	<p>Proposed Debottlenecking of Existing Petrochemical Complex along with Expansion of 48 MW Captive Co-generation Power Plant (CCPP) to 240 MW CCPP based on Coal / Pet coken at Khalapur Tehsil, Patalganga Manufacturing Division B1-B3 & B5, MIDC Industrial Area, district Raigarh, Maharashtra BY M/s Reliance Industries Limited [IA/MH/IND2/28025/2015, J-11011/192/2015-IA (II) I]</p> <p>i. Ministry had issued TOR to M/s Reliance Industries Limited vide letter No. J-11011/192/2015-IA II (I) dated 28th December, 2015 for Proposed Debottlenecking of Existing Petrochemical Complex along with Expansion of 48 MW Captive Co-generation Power Plant (CCPP) to 240 MW CCPP based on Coal / Pet coken at Khalapur Tehsil, Patalganga Manufacturing Division B1-B3 & B5, MIDC Industrial Area, district Raigarh, Maharashtra.</p> <p>ii. Now PP informed that during detailed engineering, it is envisaged now, that there exists an opportunity for increase in production capacity of Linear Alkyl Benzene (LAB) to 200,000 TPA instead of 132, 000 TPA (11, 000 TPM) as originally proposed at that time of submission.</p> <p>After detailed deliberations the committee recommended the aforesaid amendment in existing TOR. All specific and additional TOR will remain same.</p>
22.5.6	<p>Setting up of a Distillery 30 KLPD (Molasses based) & 1.0 MW co gen power, within existing sugar premises of IPL Sugar Unit at P.O. Rohana Mill, Block Charthawal Tehsil- Muzzaffarnagar , District Muzaffarnagar, Uttar Pradesh by M/s Indian Potash Limited (Distillery Unit)-reg. TOR Amendment. [IA/UP/IND2/62916/2016, J-11011/310/2016 – IA II (I)]</p> <p>i. Ministry had issued TOR to M/s Indian Potash Limited (Distillery Unit) vide letter No. J-11011/310/2016-IA II (I) dated 30th November, 2016 for Setting up of a Distillery 30 KLPD (Molasses based) & 1.0 MW co gen power, within existing sugar premises of IPL Sugar Unit at P.O. Rohana Mill, Block Charthawal Tehsil- Muzzaffarnagar , District Muzaffarnagar, Uttar Pradesh by M/s Indian Potash Limited (Distillery Unit).</p> <p>ii. During presentation PP informed that they have acquired the Titawl Sugars complex, earlier operated by the Mawana Sugars Limited, as a result of which molasses availability for distillation has been increased.</p> <p>iii. Now PP want to revise the earlier proposal and proposes to set up the 45 KLPD molasses based distillery and co-gen power unit of 1.4 MW instead of 30 KLPD Molasses based distillery& 1.0 MW co-gen power unit.</p> <p>After detailed deliberations the committee recommended the aforesaid amendment in existing TOR. All specific and additional TOR will remain same.</p>
22.5.7	<p>Drilling of 19 wells of exploratory/appraisal/development nature and setting up of production facilities at CB-ONN-2000/1 in Ahmedabad Block by M/s Gujarat State Petroleum Corporation Ltd. -reg. TOR amendment [IA/GJ/IND2/53032/2014, J-11011/96/2014-IA II (I)]</p> <p>i. Ministry has granted the TOR to M/s GSPC Ltd. vide letter no J-11011/96/2014-IA II(I) dated 17th January, 2015 for Drilling of 19 wells of Exploratory/Appraisal/Development and Setting up of Production Facilities of</p>

- M/s GSPC Ltd. in CB-ONN-2000/1 Block at Gandhinagar, Gujarat.
- ii. Ministry has also granted the amendment in TOR to M/s GSPC Ltd. vide letter no J-11011/96/2014-IA II(I) dated 8th March, 2017 for change in coordinate of 7 wells within the same district.
- iii. During presentation PP informed that based on results of latest reservoir data, GSPC requires substituting 5 other well locations with new well locations and hence, a 2nd application for TOR amendment is being submitted. The amended application shall include:
- (i) Drilling of 14 wells and development of the same by setting up of proposed surface facilities and laying of 4 “or 6” pipeline to connect the wells to the EPS. The development of EPS shall be based on commercial and technical feasibility and number of EPS shall be optimized. **(GSAH#5-A2,GSAH#7,GSAH#5-D1, GSAH#5-D2, GSAH#5-D3, GSAH#5-D4, SE#Dev2, PK1-Dev1, PK1-Dev2,PK#dev1,GSAH#6, GSAH#8, C-8, GSAH#3).**
- (ii) Development of 5 already drilled wells by setting up of proposed surface facilities and laying of 4 “or 6” pipeline to connect the wells to the EPS. **(PL#1, PK#2-A1, PK#2-A2, GSAH#5, GSAH#5-A1).**
- iv. Final coordinates of drilling locations are as follows:

Sr. No.	Final locations of this application after two amendments	Latitude	Longitude	Covered in the existing EIA studies	Covered in which TOR application	Connect ion to Propose d EPS through undergr ound 4” or 6” pipeline s
1	GSAH#5A2	22°44'57.30" N	72°25'6.0"E	Yes	Covered in original TOR application	GSAH#5 – Total 8 wells
2	GSAH#5	22°44'32.31" N	72°25'2.50"E	No	Covered in 2 nd TOR amendment application	
3	GSAH#7	22°45'46.994 0"N	72°23'53.759 4"E	Yes	Covered in original TOR application	
4	GSAH#5-A1	22°44'14.1"N	72°25'22.8"E	Yes	Covered in 2 nd TOR amendment application	
5	GSAH5#D4	22°44'42.07" N	72°25'28.95" E	Yes	Covered in 1 st TOR amendment application	
6	GSAH5#D2	22°44'29.40" N	72°25'28.80" E	Yes	Covered in 1 st TOR amendment application	
7	GSAH5#D1	22°44'2.02"N	72°25'17.50" E	Yes	Covered in 1 st TOR amendment application	
8	GSAH5#D3	22°44'57.3"N	72°25'15.3"E	Yes	Covered in 1 st TOR amendment application	
9	SE#Dev-2	23°0'53.77"N	72°26'20.00" E	Yes	Covered in 1 st TOR amendment application	
10	PK1-Dev1	22°36'52.757 0"N	72°28'29.567 2"E	Yes	Covered in original TOR application	PK#1(Ex isting EPS) –

11	PK1-Dev2	22°36'48.980 0"N	72°28'25.999 5"E	Yes	Covered in original TOR application	Total 2 wells
12	<u>PL#1</u>	22°38'14.710 "N	72°28'49.370 "E	No	Covered in 2nd TOR amendment application	PK#2 via PK#2A1 (Existing EPS) – Total 1 wells
13	<u>Pk#2-A1</u>	22°38'16.5"N	72°28'41.4"E	No	Covered in 2nd TOR amendment application	PK#2(Existing EPS)- Total 3 wells
14	PK#Dev-1	22°38'10.98" N	72°28'29.35" E	Yes	Covered in 1st TOR amendment application	
15	<u>PK#2-A2</u>	22°38'16.54" N	72°28'41.4"E	No	Covered in 2nd TOR amendment application	
16	GSAH#3	22°54'6.57"N	72°28'7.65"E	Yes	Covered in 1st TOR amendment application	GSAH#3 – Total one well
17	C-8	22°56'30.00" N	72°22'18.60" E	Yes	Covered in original TOR application	GSAH#8 – Total 2 wells
18	GSAH#8	22°56'15.40" N	72°21'49.70" E	Yes	Covered in original TOR application	
19	GSAH#6	22°48'34.7"N	72°23'16.8"E	Yes	Covered in original TOR application	GSAH#6 – Total 1 well

After detailed deliberations the committee recommended the aforesaid amendment in existing TOR. All specific and additional TOR will remain same.

22.5.8 Drilling of 11 wells & setting up of EPS in BB-ONN 2002/3 Block at District Mehsana, Ahmedabad, Gujarat by M/s Gujarat State Petroleum Corporation Ltd. –reg. TOR amendment [IA/GJ/IND2/31550/2015, J-11011/278/2015-IA II (I)]

- i. Ministry had issued TOR to M/s Gujarat State Petroleum Corporation Ltd., vide letter No. J-11011/278/2015-IA II (I) dated 5th March, 2016 for Drilling of 11 wells & setting up of EPS in BB-ONN 2002/3 Block at District Mehsana, Ahmedabad, Gujarat by M/s Gujarat State Petroleum Corporation Ltd.
- ii. Now PP requested for the following correction:

TOR Point no.	Points in Issued TOR	Correction Required as per original EC application
1	3 rd point of Project Definition In the issued TOR reads as - Connection of wells through underground 4 inch or <u>60</u> inch pipeline to nearest EPS.	3 rd point of Project Definition as submitted in the application is as follows: -connection of wells through underground 4 inch or 6 inch pipeline to nearest EPS. In the issued TOR, the same reads as

		Project definition is to be corrected as submitted in the application.
2	Coordinates of 2 wells locations In the issued TOR read as -M1_D1- <u>23</u> 45 59 79 -M6_Substitute - <u>23</u> 45 49 18	Coordinates of 2 wells locations as submitted in the application is as follows: -M1_D1- <u>22</u> 45 59 79 -M6_Substitute - <u>22</u> 45 49 18 Project coordinates are to be corrected as submitted in the application.
3	Block name in the TOR is BB-ONN-2002/03 whereas GSPC Block name is CB-ONN-2002/03.	Block name is to be changed to CB-ONN-2002/03.
<p>After detailed deliberations the committee recommended the aforesaid corrections/ amendment in existing TOR. All specific and additional TOR will remain same.</p>		

18th April, 2017 (Day 2)

22.6 (Environmental Clearance)

22.6.1	<p>Setting up of Specialty Chemicals, Pigments & Pesticide Plant (22000 MTPM) at Plot NO.73, 74, GIDC Saykha, Taluka Vagra, District Bharuch, Gujarat by M/s Hemani Intermediates Pvt. Ltd. (UNIT-V) [IA/GJ/IND2/34149/2015, J-11011/04/2016-IA II (I)]</p> <p>The project proponent and the accredited consultant M/s Aqua-Air Environmental Engineers P. Ltd., Surat made a detailed presentation on the proposal and informed that:</p> <p>(i) The proposed project is for Setting up of Specialty Chemicals, Pigments & Pesticide Plant at Plot NO.73, 74, GIDC Saykha, Taluka Vagra, District Bharuch, Gujarat by M/s Hemani Intermediates Pvt. Ltd. (UNIT-V)</p> <p>(ii) All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B'. All Pesticides industry and pesticide specific intermediates (excluding formulations) are listed at S.N. 5(b) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).</p> <p>(iii) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 4thEAC meeting held during 11-12th February, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 05th April, 2016.</p> <p>(iv) Proposed land area is 31109 m². Industry will develop Greenbelt in an area of 9932 m² out of 31109 m² of area of the project.</p> <p>(v) The estimated project cost is Rs. 30 Crores. Total capital cost earmarked towards</p>
--------	---

- environmental pollution control measures is Rs. 350 Lakhs and the recurring cost (operation & maintenance) will be about Rs.35 Lakhs per annum.
- (vi) Industry purposes to allocate Rs. 10 Lakhs @ 2.5 % towards Corporate Social Responsibility.
- (vii) It is reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Bhukhi River is flowing at a distance of 4.56 km from the project site.
- (viii) Ambient air quality monitoring is carried out at 8 locations during March-May, 2016.
- (ix) Total water requirement will be 972 m³/day of which fresh water requirement of 363 m³/day and will be met from GIDC Water Supply.
- (x) Treated Effluent (434 KL/Day) will be sent to GIDC drain for deep sea disposal. Condensate (175 KL/Day) from MEE shall be reuse.
- (xi) Power requirement will be 2500 KVA and will be met from DGVCL
- (xii) Unit will have 2 Nos. of boiler & 3 Nos. of Thermopack & 2 Nos. of D. G. Set. ESP, dust collector and scrubber with a stack of height of 50 m & 11 m respectively will be installed for controlling the Particulates emissions.
- (xiii) Details of Process emissions generation and its management:

Sr. No.	Stack attached to	Stack Height	Air Pollution Control System	Parameter	Permissible Limit
Proposed					
1	MCB Plant	15 m	Alkali Scrubber	HCl Cl ₂	20 mg/Nm ³ 9 mg/Nm ³
2	Process Vent-1	15 m	Alkali Scrubber	HCl Cl ₂ NH ₃	20 mg/Nm ³ 9 mg/Nm ³ 175 mg/Nm ³
3	Herbicide	12 m	Two Stage Water Alkali Scrubber	HCl SO ₂ HBR	20 mg/Nm ³ 40 mg/Nm ³ 5 mg/Nm ³
4	Fungicide	12 m	Two Stage Water Alkali Scrubber	HCl SO ₂	20 mg/Nm ³ 40 mg/Nm ³
5	Insecticide	12 m	Two Stage Water Alkali Scrubber	HCl SO ₂	20 mg/Nm ³ 40 mg/Nm ³
6	Process Vent-2	12 m	Water Scrubber	NOx	40 mg/Nm ³

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

Sr. No.	Type of Hazardous Waste	Quantity (MT/Month)	Hazardous Waste Category	Storage, Collection & Disposal
1.	ETP Sludge	120	35.3	Collection, Storage, Transportation & Disposal to nearest TSDF at Dahej
2.	Process Sludge from CaCl ₂ & DCP	300	--	Collection, Storage, Transportation & sell for agricultural use
3.	Used Oil/Spent Oil	200 Lit/Month	5.1	Collection, Storage, Transportation & Sell to GPCB Authorized

				Reprocessor
4.	Empty Drums/Container	500 Nos./Month	33.1	Collection, Storage, Transportation & Sell to GPCB Authorized Vendor
5.	Empty Bags	2000 Nos./Month	33.1	Collection, Storage, Transportation & Sell to GPCB Authorized Vendors
6.	Distillation Residue	110	20.3	Collection, Storage, Transportation & Disposal at nearest Common Incineration Site, Dahej or sell to cement industries
7.	MEE Salt	600	35.3	Collection, Storage, Transportation & Disposal to nearest TSDF at Dahej
8.	Fly Ash	300	A2060	Collection, storage & sell to brick manufactures
9.	Organic waste	120	29.1	Collection, Storage, Transportation & Disposal at nearest Common Incineration Site, Dahej or sell to cement industries
10.	Iron Sludge	510	--	Collection, Storage, Transportation & Disposal to nearest TSDF at Dahej or sell to cement industries
11.	HCl (30%)	4120	29.6	Collection, Storage, Transportation & reuse in Calcium Chloride & Di Calcium Phosphate
12.	H ₂ SO ₄ (70%)	2350	29.6	Collection, Storage, Transportation & reuse in process and excess quantity will be sold to end user.
13.	Inorganic Salt	550	--	Collection, Storage, Transportation & Disposal to nearest TSDF at Dahej
14.	Potassium Carbonate	175	--	Reuse in plant premises or sell to end user
15.	Potassium Chloride Solution	186	--	Sell to end user
16.	Potassium Bromide	123	--	Reuse in bromine recovery unit
17.	Sodium Sulfit Solution	900	--	Sell to end user
18.	HBr (38%)	301	--	Reuse in bromine recovery unit
19.	Liquor Ammonia (36%)	1484	--	Sell to end user
20.	Aluminium Chloride	836	--	Sell to end user
21.	Sodium Bromide Salt	150	--	Reuse in bromine recovery unit
22.	Ammonium	150	--	Reuse in process of CPC

Carbonate			
-----------	--	--	--

(xv) Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 16.12.2016.

(xvi) Following are the list of proposed products:

Sr. No.	Name of Products	Proposed Quantity in MT/Month
1.	Chlorination Derivatives (e.g. MCB, DCB, ODCB, PDCB, MDCB & TCB)	3000
2.	Nitration of Chlorobenzene (ONCB, PNCB & MNCB)	4000
3.	Calcium Chloride	3000
4.	Di Calcium Phosphate	1500
5.	2,4 Dinitro Chloro Benzene(DNCB) & Derivatives	1500
6. Fungicide		
a)	Hexaconzole (T)	500
b)	Tebuconzole (T)	
c)	Propioconzole (T)	
d)	Fenbuconzole (T)	
7. Herbicide		
a)	Dicamba (T)	500
b)	Metribuzine (T)	
c)	Metsulfuron Methyl (T)	
d)	Pendimethalin (T)	
e)	Sulfentrazone (T)	
f)	Ethofumesate (T)	
8. Insecticide		
a)	Transfluthrin (T)	500
b)	Cyfluthrin & Beta Isomers (T)	
c)	Bifenthrin (T)	
d)	Cypermethrin (T) & Beta Isomers (T)	
e)	Chloropyriphos (T)	
f)	Imidacloprid (T)	
g)	Clodinafop Propargyl (T)	
h)	Cloquintocet mexyl (T)	
i)	Thiamethoxam	
9	Para Nitro Chloro Benzene & Derivatives	1000
10	Ortho Nitro Chloro Benzene & Derivatives	500
11	Para Dichloro Benzene & Derivatives	500
12	Ortho Dichloro Benzene & Derivatives	500
13	Pigment (CPC Blue, CPC Green-7, Alpha Blue, Beta Blue, Pigment Red, Pigment Yellow, Pigment Orange)	1500
14	3,3 DCB	800
15	Dimethyl Sulphate	200
16	Sulfuric Acid & Allied Products	1500
17	Nitro Benzene & Derivatives	500
18	Chloro Toulene & Derivatives (Benzyl Chloride & Benzaldehyde)	500
TOTAL		22000

EAC has deliberated on the proposal and public hearing report. The Committee noted that there was a suggestion from the EAC to exclude Bulk drug intermediates from the product list during the discussion for TOR, to avoid contamination with pesticides. EAC has during the current meeting has considered the product list submitted in the EIA report along with the CAS No. EAC has noted that the AAQ monitoring data are within NAAQ Standards. EAC noted that the issued raised during the public hearing are employment, damage to agriculture fields, pollution etc. EAC noted that the PP has addressed the issue in the EIA/EMP report.

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

Specific Conditions

1. Zero Liquid Discharge shall be ensured.
2. PP shall not produce/export any banned products.
3. No ground water shall be used.
4. PP shall develop greenbelt of atleast 10 m width around the periphery of the unit with perinneal trees. PP shall also develop atleast 33 % of green area with trees.
5. The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules
6. Regular monitoring of ground water around 5 km radius of the unit through an accredited lab/institution. Monitoring report shall be provided to RO, MoEF&CC in Six monthly compliance report.
7. Environment Management Cell with full fledged laboratories shall be setup in the unit. A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.
8. As proposed, 60% of the employees shall be from the local villages.
9. 2.5 % of the project cost shall be earmarked towards the Enterprise Social Commitment. PP shall utilize the amount for developing and maintaining the Drinking water facility with RO facilities (with all the pretreatment for safe drinking water) in the 5 nearby villages as per list.
10. PP shall plant and maintain 1000 treess/ year for five years in the identified villages.

22.6.2

Drug Manufacturing Unit (30 MTPM) at Plot No. F-665 & 666, UPSIDC Industrial Area, Phase-1, Tehsil & District - Hapur, Uttar Pradesh House No. 283, Dhannpur, Kuttupur, Post Sadar, District Jaunpur (Uttar Pradesh) by M/s MGL Pharma & Chemicals Pvt. Ltd. [IA/UP/IND2/ 63259/2016, J-11011/165 /2017-IA-II(I)]

The Project Proponent and the accredited consultant M/s .Vardan Environet, Gurgaon gave a detailed presentation on the salient features of the project and informed that:

- (i) The project involves Drug Manufacturing Unit Capacity: 30 Mt/Month at Plot No. F-665 & 666, Upsidc Industrial Area, Phase-1, Tehsil & District - Hapur, Uttar Pradesh House No. 283, Dhannpur, Kuttupur, Post Sadar, District Jaunpur (Uttar Pradesh) by M/s MGL Pharma & Chemicals Pvt. Ltd.
- (ii) All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B'. However, considering that, the State level Expert Appraisal Committee (SEAC) of Uttar Pradesh is not in functional state, the project is appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) The project proposal was considered by the SEAC earlier and the TOR has been issued by SEIAA vide letter dated 16.01.2017.

(iv) The total land area is 1370 m².

(v) **Products and capacities**

S. No.	Product	Capacity (Metric Ton/Month)
1.	Diclofenace	5
2.	Aceclofenace	10
3.	3- Nitro Acetophenone	15
4.	Mono Methyl Chloro Acetate	-
	Total	30

(vi) Water - 11 KLD, will be sourced from Borewell, application is also applied to CGWA for withdrawal of water.

(vii) Power - 60 KW, UPPL& Genset (for emergency).

(viii) Raw Material requirement:

Name of Raw Materials	Source
Dichlofenace	
2-6 Dichlorophenol	Near by Market
Sodium methoxide (30%)	Near by Market
Mono Methyl Chloro Acetate	Near by Market
ChloroAcetyl Chloride	Near by Market
Methanol	Near by Market
Sodium Hydroxide	Near by Market
Acetofenace	
Dichlofenac	Near by Market
Tertiary Butyl Chloro Acetate	Near by Market
Tetra Butyle Ammonium Bromide	Near by Market
Formic Acid	Near by Market
3- Nitroacetophenone	
Acetofenace	Near by Market
Nitric Acid	Near by Market
Sulphuric acid	Near by Market
Methanol	Near by Market

(ix) Fuel required is biomass (100 Kg/Hr) and Diesel (6 Lt/Hr) for DG sets. Source will be from nearby units and local diesel suppliers respectively and will be transported by road.

(x) The cost of the project is Rs. 294.41 Lakhs.

(xi) The AAQ data has been collected during March- May, 2016 and November-December, 2016. SEAC has noted the AAQ collection period and considered the baseline data period for preparation of EIA report.

EAC has deliberated on the proposal. EAC noted that the product list needs correction. The EAC suggested to provide updated product list mentioning scientific nomenclature of the chemicals along with their CAS No. EAC noted that there is no sufficient space for development of 10m width peripheral greenbelt. EAC desired that green belt of at least 5 m (trees of 2 rows) width shall be developed along the periphery of the plant and 33% of the total project cover area shall be ensured for green cover. EAC also desired that the PP shall obtain ground water extraction permission before starting the operation. EAC in view of the fact that veterinary formulations of Diclofenac has been banned by the Government. The PP should produce proper permission of Drug Controller General of India for the manufacture of drugs like diclofenac.

	<p>EAC after detailed deliberation has deferred the proposal for want of above information/documents.</p>
<p>22.6.3</p>	<p>Setting up of resin manufacturing unit (12000 MTPM) at Survey No. 173/1, Village Padana, Padana-Bhimsar Road, Taluka Gandhidham, District Kutch, Gujarat by M/s Maple Panels Pvt. Ltd. – Environment Clearance - reg. [IA/GJ/IND2/63043/2016, J-11011/36/2016-IA.II(I)]</p> <p>The Project Proponent and the accredited consultant M/s En-vision Enviro Technologies Pvt. Ltd., Surat gave a detailed presentation on the salient features of the project and informed that:</p> <ul style="list-style-type: none"> (i) The project involves setting up of resin manufacturing unit (12000 MTPM) at Survey No. 173/1, Village Padana, Padana-Bhimsar Road, Taluka Gandhidham, District Kutch, Gujarat by M/s Maple Panels Pvt. Ltd. (ii) All Synthetic Organic Chemicals Industry located outside a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category ‘A’ and is appraised at Central Level by Expert Appraisal Committee (EAC). (xvii) 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 (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 13th May, 2016. (iii) Total land area is 40,469 sq. mt. out of which 8,628.7 sq. m. will be utilized for resin unit and rest area is for the particle board manufacturing unit and common facilities. No new land area will be acquired for the proposed project. (iv) The major raw materials required for the project are Phenol 220 MT/Month, Melamine 712 MT/Month, Urea (T.G.) 1,000 MT/Month, Formaldehyde Solution 4,566 MT/Month, Methanol 2,955 MT/Month, Caustic Soda 10.5 MT/Month, Acetic Acid 4 MT/Month, Paraffin Wax 219 MT/Month, Borax Powder 7.5 MT/Month, Stearic acid 29 MT/Month and Aqueous Ammonia 7.5 MT/Month. All raw materials will be transported to the project site by road only. (v) Total water requirement for the proposed project will be 129 KLD which will be sourced from surface water body of Gujarat Water Infrastructure Ltd. (GWIL) through tanker. (vi) Total power requirement for the proposed project is 500 KVA which will be sourced from Paschim Gujarat Vij Company Limited (PGVCL). (vii) Fuel requirement for the proposed project will be 10 MT/day imported coal/ lignite/ agro waste (saw dust, wood) for steam boiler and Thermic Fluid Heater and diesel 35 lit/hr for D.G. set of 400 KVA. (viii) The cost of the project is 13. 50 crore. (ix) No National Parks, Wildlife Sanctuaries, Tiger/ Elephant Reserves, Wildlife Corridors etc. falls within 10 km radius from the plant site. (x) Public hearing was conducted on 14/02/2017 by State Pollution Control Board. Issues raised were related to local employment, CSR activities, plantation, waste management, etc. (xi) Ambient air quality monitoring was carried out at 8 locations during March to May 2016 for the parameters like PM_{2.5}, PM₁₀, SO₂, NO_x, VOC (as Isobutylene) and CO. During baseline monitoring, the arithmetic mean values of PM₁₀ varied between 79.8 – 81.0 µg/m³ while the 98th percentile values of PM₁₀ ranged between 86.6 – 88.7 µg/m³. The arithmetic mean values of PM_{2.5} varied between 38.4 – 42.0 µg/m³ while the 98th percentile values of PM_{2.5} ranged between 45.3 – 49.4 µg/m³. The arithmetic

mean value for SO₂ was 8 – 12.9 µg/m³ and the 98th percentile of SO₂ was 13.0 – 17.8 µg/m³. The arithmetic mean values of NO_x varied between 15.7 – 20.7 µg/m³ while the 98th percentile of NO_x ranged from 16.8 – 24.0 µg/m³. The arithmetic mean values of CO varied between 1.0 – 1.6 mg/m³ while the 98th percentile of CO ranged from 1.2 – 2.0 mg/m³. The arithmetic mean & 98th percentile values of VOC (as Isobutylene) were <1.0 µg/m³.

(xii) The proposed products and capacities are :

NO.	PRODUCTS	CAPACITY (MT/M)
1.	Urea Formaldehyde Resin	4,000
2.	Melamine Formaldehyde Resin	2,000
3.	Formalin	5,000
4.	Phenol Formaldehyde Resin	500
5.	Wax	500
	TOTAL	12,000

EAC has deliberated on the proposal and public hearing report. EAC has noted that the AAQ monitoring data are within NAAQ standards. EAC has noted that the PP has properly addressed the issues raised during the public hearing in the EIA/EMP report. EAC has noted that the PP has agreed for ESC/CSR activities at 5 % of the project cost. EAC observed that considering fluoride problem in the drinking water, PP may utilize the ESC amount mainly for providing drinking water to villagers.

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

Specific Conditions

1. Green belt of atleast 10 m width shall be developed along the periphery of the unit with perennial trees like Neem, Seesam, Kadam (Neolamarckia cadamba) etc. 33 % of the area shall be developed as green area with trees.
2. No ground water shall be used for the project.
3. Zero Liquid Discharge shall be ensured.
4. Coal shall not be used for the proposed project. Agrowaste/wood waste/briquettes may be used as fuel.
5. Continuous online (24 x7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB.
6. As proposed, 5 % of the project cost shall be earmarked towards the Enterprise Social Commitment (ESC). RO Drinking water (with purification facilities like chlorination, activated carbon, microfiltration, RO candles) and LED light facility shall be provided and maintained in the three villages namely Padana, Bhimsar and Modvadar.
11. Environment Management Cell with well-equipped laboratories shall be setup in the unit. A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.

22.6.4

BS V/VI Auto fuel Quality Compliance & Associated projects at Tehsil Mangalore, district Dakshina Kannada, Karnataka by M/s Mangalore Refinery And Petrochemicals

Ltd. – Environmental Clearance – Reg. [IA/KA/IND2/39753/2016, J-11011/47/2016-IA.II (I)]

The Project Proponent and the accredited consultant M/s National Environmental and Engineering Research Institute, Nagpur gave a detailed presentation on the salient features of the project and informed that:

- (i) The project involves BS V/VI Auto fuel Quality Compliance & Associated projects at Tehsil Mangalore, district Dakshina Kannada, Karnataka by M/s Mangalore Refinery And Petrochemicals Ltd.
- (ii) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 5th meeting held during 25-26th February 2016 and recommended Terms of References (TORs) for the project. The TOR has been issued by Ministry vide letter dated 19.04.2016 and amended on 14.12.2016.
- (iii) All Petroleum refining industry projects are listed at S.N. 4(a) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- (iv) Ministry has issued EC earlier vide letter no. J-11011/215/2010-IA II (I), dated 1st November, 2011 for Expansion by adding Polypropylene Manufacturing Unit (440000 TPA) to M/s. Mangalore Refinery and Petrochemicals Limited.
- (v) Existing land area is 1592 acre. For the proposed project 20 acre land available in the existing refinery complex will be used.
- (vi) Industry will develop Greenbelt in an area of 33% i.e., 525 acre out of 1592 acre area of the project. Industry shall undertake compensatory afforestation, in case the land is not available for green belt development at existing industry premises.
- (vii) The estimated project cost is Rs 1810 Cr. Total capital cost earmarked towards environmental pollution control measures is Rs 356 Crore and the Recurring cost (operation and maintenance) will be about Rs10 Cr per annum
- (viii) Total employment will be around 40 persons as direct & a round 30 persons indirect after expansion. Industry proposes to allocate Rs.91 Crore (@ 5 % of Rs. 1810 Crore) towards Corporate/Environment Social Responsibility.
- (ix) No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance from the project site. Gurupura river is flowing at a distance of 2 km in South-West direction.
- (x) Ambient air quality monitoring was carried out at 11 locations during March 2016 to May 2016 and the baseline data indicates the ranges of concentrations as: PM₁₀ (53 to 73 µg/m³), PM_{2.5}(22 to 31 µg/m³), SO₂ (7 to 13 µg/m³) and NO₂ (12 to 15 µg/m³) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 9 µg/m³, 3 µg/m³ with respect to SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards(NAAQS).
- (xi) Total water requirement for BS VI Project is estimated to be 85 m³/hr of which fresh water requirement is nil and will be met from Treated Municipal Sewage water.
- (xii) Treated effluent of 7 m³/hr will be treated through existing effluent treatment plant
- (xiii) Power requirement after expansion will be 180 MW including existing 150 MW and will be met from existing Captive Power Plants and import from Mangalore Electricity Supply Company Limited (MESCOM). Existing unit has 8 DG sets of 13.65 MW capacity which are used as standby during power failure. Additionally, no new DG set is envisaged.
- (xiv) Existing unit has 2230TPH of steam generation capacity. No new fired boiler will be installed.
- (xv) Details of Solid waste/Hazardous waste generation and its management for proposed project

Sr. No.	Source	Estimated Generation (MT)	Category of Waste	Method of Disposal
1.	FCC gasoline hydrodesulphurization Unit spent catalyst	16/yr	Sch.1, Sl. No. 4.2	Will be given to KSPCB/CPCB authorized/Registered re-processors/recyclers
2.	SRU spent catalyst	9.4/yr	Sch.1, Sl. No. 4.2	Will be given to KSPCB/CPCB authorized/Registered co-processors/recyclers

(xvi) Public hearing for the proposed project has been conducted by the Karnataka State Pollution Control Board on 27/02/2017.

(xvii) With the implementation of BS VI Auto Fuel Quality Compliance and Associated Projects Facilities, MRPL will be able to achieve the following,

- 1) Conversion of the existing BS IV quality Motor Spirit (MS) and High Speed Diesel (HSD) entirely into BS VI quality MS and HSD.
- 2) Production of BS VI quality 1.2 MMTPA MS and 7 MMTPA HSD, with all other products remaining the same as earlier.
- 3) The details of existing and proposed product list are

Existing Product list	Proposed Product list (Product list post BS VI Project)
Motor Spirit-BS IV	Motor Spirit-BS VI (1.2 MMTPA)
Diesel-BS IV	Diesel-BS VI (7 MMTPA)
Polypropylene	Polypropylene
LPG	LPG
Naphtha	Naphtha
Kerosene	Kerosene
ATF	ATF
Fuel Oil	Fuel Oil
Bitumen	Bitumen
Sulphur	Sulphur
Xylols + Aromatics	Xylols + Aromatics
Pet Coke	Pet Coke

(xviii). The CRZ clearance from KCZMA has been obtained vide no. FEE/323/CRZ/2016 dated 03.04.2017. KCZMA noted that the proposed project does not fall under the purview of CRZ clearance.

(xix). Public hearing for the project has been conducted by SPCB on 27.2.2017. Issues raised during the public hearing are related to employment, development in villages etc.

(xx). The PP has submitted the certified compliance report from the Regional office Bangalore for the existing EC.

EAC has deliberated on the proposal, public hearing report and certified compliance report. EAC noted that CRZ clearance is not required for the proposed project. The committee noted that the PP has addressed the issues raised in the public hearing in the EIA/EMPR report. The committee found the certified compliance report to be satisfactory. Committee noted that the predicted AAQ data are within National AAQ standards.

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

Specific Conditions

1. Green belt of atleast 10 m width shall be planted (with trees like Kadamba etc.) along the periphery of the unit.
2. Atleast 30 % of the area of the unit area shall be developed as green area with native tree species.
3. PP shall undertake tree plantation in village and the Biological Park (flowering/fruit bearing plants). 1000 trees/year for five years shall be planted and maintained.
4. As proposed, 5 % of the total amount shall be earmarked for Enterprises Social Commitment. Solar panel, LED light, Drinking water with RO facilities shall be provided to the proposed ten villages.
5. PP shall explore the possibility of spent clay remediation.
6. PP shall reduce the noise level and odour due to the project from the proposed level.
7. The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.
8. Environment Management Cell with well-equipped laboratories shall be setup in the unit. A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.

22.6.5
(A)

Exploratory drilling of 5 wells for shale oil/shale gas in KG Basin, East Godavari, Andhra Pradesh by M/s Oil Natural Gas Corporation Limited – Environment Clearance – Reg. [IA/AP/IND2/42009/2016, J-11011/37/2016-IA.II (I)]

The Project Proponent and the accredited consultant M/s ONGC gave a detailed presentation on the salient features of the project and informed that:

- (i) The project involves exploratory drilling of 5 wells for shale oil/shale gas in KG Basin, East Godavari, Andhra Pradesh by M/s Oil Natural Gas Corporation Limited.
- (ii) All the projects related to Offshore and Onshore Oil and Gas exploration, Development and Production are listed in S.No. 1(b) of Schedule of Environmental Impact Assessment (EIA) Notification, 2006 under Category ‘A’ and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 5th meeting held during 25-26th February, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 19th April, 2016.
- (iv) Land required for the project is 5-6 Acres per well. No. wells to be drilled is 5 wells. The cost of the project - Rs. 217 Crore. Duration of drilling - 90-120 days per well.
- (v) As per the Government of India’s shale gas / oil policy guidelines announced on 14th, October, 2013, ONGC, KG Basin, has proposed to drill five exploratory wells in the on-land PML blocks in West Godavari, Bantumilli extension, Suryaraopeta, Mahadevapatnam and Mandapeta in Krishna, West Godavari and East Godavari districts of Andhra Pradesh to assess the hydrocarbon potential of the shale. The details of the proposed locations are as given below:

Sl. No	Name of the PML Block	Proposed location	Location coordinates	TD (m)	Estimated cost (Rs.Cr)
--------	-----------------------	-------------------	----------------------	--------	-------------------------

1	West Godavari	WG-SG-A	81 06 54.36 16 28 18.89	3300	35
2	BantumilliExtn.	BT-SG-A	81 22 24.63 16 24 25.47	4200	45
3	Suryaraopeta	SU-SG-A	81 24 10.29 16 32 40.34	4400	47
4	Mahadevapatnam	MA-SG-A	81 36 34.12 16 36 58.86	4300	46
5	Mandapeta	MD-SG-A	81 53 46.01 16 47 55.02	4000	44

- (vi) In the proposed shale gas exploration project, the cores of the potential shale will be collected after drilling a vertical well to study the properties of the shale like mineralogy, porosity, permeability, maturity etc. and record some advanced log suites for proper evaluation of various properties (geochemical, geological, petro physical, mineralogical and geo-mechanical etc.). After these studies if found prospective, a pilot hydro-fracturing job will be carried out to assess the shale gas potential.
- (vii) All these wells are drilled with water base mud only. The water based mud system (WBM) drill cuttings are non-toxic, non-hazardous and will be collected in HDPE impervious lined pit at the site. After completion of drilling these pits will be covered with native top soil. The waste water generated during the operations is collected in the lined waste pit and recycled/reused after treatment with mobile ETP. Water based fracturing fluids are proposed to be used in wells. The composition of fracturing fluid consists of more than 98% water and sand and < 2% of 3-10 chemical additives which are non-toxic and biodegradable. Approximately 400-600 M³ of water will be used for carrying out one hydro-fracturing job in the proposed wells. There is no discharge of any waste water outside from the drill site. Approximately 0.5 MT of spent oil is generated during the drilling of each well is collected in drums. The spent oil & used batteries will be sent to base stores for further disposal through authorized re-cyclers. The Environmental Management Plan (EMP) of ONGC provides a delivery mechanism to address potential adverse impacts if any. ONGC adopts international best oil and gas drilling practices in its operations. All the inherent risks associated with the drilling activity have been assessed in detail in the present report by using risk assessment criteria. Existing risk control measures have been studied and additional measures have been proposed in the report for all the activities having high risk. All the environmental parameters of air, noise, waste water, drill cuttings will be monitored during the drilling at the project site. Surface and ground waters quality will also be monitored at the nearby villages to assess any adverse impacts of the activity. These wells will provide data for assessing the shale gas potential of the area.
- (viii) The AAQ data was collected during March- May, 2016. The resultant concentrations are within NAAQ standards.
- (ix) The public hearing for the project has been conducted on 05.11.2016 (Krishna District), 06.12.2016 (west Godavari district) and 04.02.2017 (East Godavari) by SPCB.

EAC has deliberated on the proposal and public hearing report. EAC noted that the PP has addressed the issues raised in the public hearings in the EIA/EMP report. EAC noted that the AAQ data are within National AAQ standards.

EAC after detailed deliberation has recommended the project with specific condition related to the project and with other general conditions:

Specific conditions:

	<ul style="list-style-type: none"> i. The project proponent shall take due care and adopt the best practices to ensure that there is no oil spill. However, to meet with any unforeseen situation and combat the oil spill, the PP shall prepare the Oil Spill Disaster Contingency Plan in line with the provisions of the National Oil Spill Disaster Contingency Plan. Regular Mock Drills shall also be conducted. ii. The company shall make the arrangement for control of noise from the drilling activity. Acoustic enclosure shall be provided to DG sets and proper stack height shall be provided as per CPCB guidelines. iii. Oil spillage prevention scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers. iv. The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. v. The company shall develop a contingency plan for H₂S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H₂S detectors in locations of high risk of exposure along with self containing breathing apparatus. vi. Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India. vii. The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored to the original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations. viii. Zero Liquid Discharge shall be ensured.
--	---

Reconsideration of EC

<p>22.6.5 (B)</p>	<p>Proposed Revamp of Diesel Hydro De-Sulphurisation (DHDS) unit from 1.8 MMTPA to 2.34 MMTPA and BS-VI Fuel quality upgradation project (Revamp of DHDT unit, New FCC GDS unit and SRU Block for MS quality by M/s Chennai Petroleum Corporation Limited - Reconsideration of Environmental Clearance – reg. [IA/TN/IND2/60940/2016, J-11011/42/2016-IA.II(I)]</p> <p>Member Secretary informed the committee that the proposal has been considered by the EAC in the 18th meeting held during 23-25th January, 2017 and deferred the proposal for want of following information/documents:</p> <ul style="list-style-type: none"> 1) Certified compliance report from RO, MoEF&CC of existing EC to be submitted. 2) Measure the SO₂ emissions from the existing unit. Any additional SO₂ emission from the proposed unit. 3) List of existing and proposed utilities to be submitted. 4) Revised green belt plan to be submitted. 5) Proper response and commitment w.r.t. issues raised during public consultation. 6) Existing and proposed water balance chart to be submitted. 7) CSR plant at the rate of 5 % to be submitted.
-----------------------	---

Thereafter, the project proponent and the accredited consultant M/s Hubert Enviro Care Systems (P) Ltd., Chennai made a detailed presentation on the proposal and informed that:

- (i) The project involves Proposed Revamp of Diesel Hydro De-Sulphurisation (DHDS) unit from 1.8 MMTPA to 2.34 MMTPA and BS-VI Fuel quality upgradation project (Revamp of DHDT unit, New FCC GDS unit and SRU Block for MS quality by M/s CHENNAI PETROLEUM CORPORATION LIMITED.
- (ii) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 4th meeting held during 11-12th February 2016 and recommended Terms of References (TORs) for the project. The TOR has been issued by Ministry vide letter dated 31st March, 2016.
- (iii) All Petroleum refining industry projects are listed at S.N. 4(a) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- (iv) The proposed products and capacities are:

Units	Existing	Proposed
DHDS	1.8 MMTPA	2.34 MMTPA
DHDT	1.8 MMTPA	2.4 MMTPA
VGO treating in DHDS	NIL	0.5 MMTPA
New FCC GDS Unit	NIL	0.6 MMTPA
New SRU	NIL	200 D

- (v) The project will be executed in existing land of the refinery. The total quantity of 12 MGD is required for the Post BS IV and BS VI unit, additional water requirement is not envisaged, as the utilities required for the Revamp condition are met from the available infrastructure. The source of water requirement is from CPCL Desalination Plant, Sewage water treatment and Metro water. The fuel and power required will be sourced from internal refinery fuel oil and existing internal Captive Power Plants.
- (vi) The total quantity of SO₂ emission is 17.41 T/day in the existing unit. For the post BS VI unit, total SO₂ emission less than 17.41 T/day will be ensured. The effluent streams of total quantity 720 KLD generated from process are treated in ETP of 300 m³/hr capacity. Sewage stream of quantity 48 KLD is treated in TTP of 60 KLD capacity. Treated water is partially used for green belt development and the remaining water is sent to RO plant for further treatment and recycled to Cooling Tower and DM plant. Major process wastes include spent catalyst. The Municipal Solid Waste generated from the entire plant is collected and transported to recyclers, municipal yards and landfills depending on the type of waste. All the hazardous wastes to be generated from the project will be properly stored and disposed as per the hazardous waste authorization issued by TNPCB.
- (vii) The raw materials used are mainly diesel and hydrogen in case of DHDS and DHDT unit & FCCU gasoline and Hydrogen in case of FCC GDS Unit. They are internally sourced. Proper storage is provided to prevent any risk of leakage or spill. Emission from the equipments/machineries shall be monitored on regular basis and possible implementation shall be provided on site.
- (viii) The cost of the proposed project for DHDS unit (Phase 1) is Rs. 367.11 Crores (3671.1 Millions). The cost of the proposed project for BS-VI (Phase 2) is Rs.1495 Crores (14950 Millions). Estimated year of completion: 2017 for Phase -1 & 2019 for Phase -2.
- (ix) No forests, wild life sanctuaries, protected/important historical or archaeological

monument, hilly/mountainous areas, defence installations, airports are located around the refinery and within 10 km radius of the project site. The project is envisaged within the existing refinery land/premises (Govt. owned). The nearest water bodies are Bay of Bengal (2.8 km East direction) and Buckingham Canal (1 km East direction) away from the refinery.

- (x) Baseline environmental data of air, water, soil and noise are monitored around 8 different locations and it is found within the limits.
- (xi) Public hearing is exempted as per para 7(i) III Stage (3)(i)(b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.

As desired by the EAC, PP has submitted the following additional information:

- i. PP has submitted the certified compliance report issued by Ministry's Regional office Chennai vide letter dated 14th March, 2017.
- ii. PP has submitted the SO₂ emission details measured from the existing unit and the details of additional SO₂ emission from the proposed unit. Total SO₂ emissions from the 48 locations studied is 17.41 T/Day and the proposed is 11 T/day.
- iii. The existing and proposed utilities are submitted.
- iv. Public hearing is exempted as per para 7(i) III Stage (3)(i)(b) of EIA Notification
- v. PP has submitted the revised green belt plan.
- vi. The existing and proposed water balance chart has been submitted.
- vii. PP has submitted the CSR plant at 5 % of the cost of project

EAC has deliberated on the proposal and the additional documents submitted. EAC has noted that the documents and information are in order. The EAC asked the PP that the desalination plant intake limit through pipeline will not change from the limits as decided in CRZ clearance earlier.

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

Specific condition

1. PP shall ensure that the SO₂ emission shall be less than 17.41 T/Day.
2. No ground water shall be used for the project.
3. There shall not be any change in intake of water than permitted, without prior approval.
4. Zero Liquid Discharge shall be ensured.
5. Green belt of at least 10 m width shall be ensured in the periphery of the unit, wherever possible. PP shall ensure 33% of green cover with trees in the unit area and if area is deficient the green cover shall be compensated with plantation in other designated area. As proposed, 50 acre area purchased for green area shall be developed with perennial and native trees. The status of tree plantation & survival rate of plants in this committed area shall be reported to RO in Six Monthly compliance report.
6. As proposed Enterprises Social Commitment (ESC) shall be undertaken at the rate of 5% of the total cost of the project. PP shall provide and maintain, RO Drinking water facility, LED light, computer facility and Hospital machinery to the selected five villages.
7. The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.
12. Environment Management Cell with well-equipped laboratories shall be setup in the unit. A regular environment manager having post graduate qualification in environmental

	<p>sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.</p>
<p>22.6.6</p>	<p>Proposed Bulk Drug & Intermediates Manufacturing Unit At SY.No:29, Tupakulagudem (V), Tallapudi (M), West Godavari (Dist.), Andhra Pradesh by M/s Vensub Laboratories Pvt. Ltd. - Reconsideration of Environmental Clearance [IA/AP/IND2/60127/2014, J-11011/401/2014-IA.II (I)]</p> <p>Member Secretary informed the committee that the proposal has been considered by the EAC in the 17th meeting held during 26-29th December, 2016 and deferred the proposal for want of following information/documents:</p> <ol style="list-style-type: none"> 1. Layout is not acceptable. PP need to submit revised layout plan in which green belt should be 10 m wide around plant periphery. 2. Point wise response and commitments w.r.t. issues raised in earlier public hearing. 3. Health study of nearby villagers and photographs with current status report of near by forest area. 4. List of plants to be planted at green belt area. 5. List of existing industries around plant site. 6. Coliforms and fecal coliform test in ground and surface water. <p>Thereafter, the project proponent and the accredited consultant M/s Rightsource Industrial Solutions Pvt. Ltd., Hyderabad made a detailed presentation on the proposal and informed that:</p> <ol style="list-style-type: none"> (i). The project involves Proposed Bulk Drug & Intermediates Manufacturing Unit At SY.No:29, Tupakulagudem (V), Tallapudi (M), West Godavari (Dist.), Andhra Pradesh by M/s Vensub Laboratories Pvt. Ltd. (ii). The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 38th meeting held during 20-21st April 2015 and recommended Terms of References (TORs) for the project. The TOR has been issued by Ministry vide letter dated 22.06.2015. (iii). All Synthetic organic chemicals industry projects (Bulk drugs and intermediates excluding drug formulations), located outside the notified industrial area/estate are listed at Sl.No. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). Ministry has issued Environmental Clearance vide letter no. J-11011/897/2008-IA-II(I) dated 14th October, 2009 to M/s Vensub Laboratories Pvt. Ltd., for Bulk drug manufacturing unit. (iv). It is reported that the PP was unable to construct the unit due to financial constrains and the EC validity period has been expired. (v). It is Green field project. Proposed land area is 11.8 Acres/47752.54 Sq.m. Industry will be developed Greenbelt in an area of 33% i.e 6.49 Acres out of 11.80 Acres of area of the project. (vi). The estimated proposed project cost is Rs. 6.00 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 90 Lakhs and the recurring cost (operation and maintenance) will be about Rs. 17 Lakhs Per annum. (vii). No national parks, wildlife sanctuaries Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10km distance. Godavari River is flowing at a distance of 7.8 kms in E direction. (viii). Ambient air quality monitoring was carried out 8 locations during March 2016 and submitted baseline data indicates that ranges of concentrations of PM₁₀ (51.02 – 68.32 µg/ m³), PM_{2.5} (18.49 – 34.87 µg/ m³), SO₂ (7.14 – 14.05 µg/ m³), NO_x (17.59 – 23.41 µg/ m³), CO (0.51 – 0.71 mg/ m³) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project

PM₁₀, SO₂, NO_x would be 69.08 µg/ m³, 15.75 µg/ m³, 25.69 µg/ m³. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

- (ix). The total water requirement is 62 m³/day of which fresh water requirement of 52.28 m³/day and will be met from ground water sources.
- (x). Generated effluent of 19.35 m³/day will be treated through stripper followed by MEE/ATFD, Biological Treatment Plant followed by RO plant will be based on Zero Liquid Discharge System.
- (xi). Power requirement for proposed project will be 300 KVA and will be met from APSPDCL. DG set of 250KVA capacity, Stacks (height 10 mts) will be used as standby during power failures. TPH coal fired/Agro waste boiler is proposed for the new unit with a stack of height of 32 mtr, Multi cyclone separator/bag filter will be installed for controlling the particulate emissions (within statutory limit of 115 mg/ Nm³).
- (xii). Details of Solid waste/Hazardous waste generation and its management:

S. No	Name of the Hazardous Waste	Quantity in Kgs/Day	Disposal Method
1	Organic waste (Process-200 + Solvent Distillation Residue-174)	374 Kgs/Day	Sent to Cement Industries
2	Spent Carbon	3Kgs/Day	Sent to Cement Industries
3	MEE Salts	744Kgs/Day	Sent to TSDF
4	ETP Sludge	30Kgs/Day	Sent to TSDF
5	Used Oils	50 L / Annum	SPCB Authorized Agencies for Reprocessing/Recycling
6	Detoxified Containers	300 Nos / Month	After Detoxification sent back to suppliers/SPCB Authorized Parties
7	Used Lead Acid Batteries	2 Nos/ Annum	Send back to suppliers for buyback of New Batteries
Solid Waste Details			
8	Ash from boiler & Thermo pack boiler	7600Kgs/Day	Sent to Brick Manufacturers

(xiii). Public hearing for the proposed project has been conducted by Andhra Pradesh Pollution Control Board on 28.05.2009 for the earlier project and thus the EAC has exempted public hearing for the present project. PP has submitted the minutes of the hearing conducted on 28.05.2009.

(xiv). List of Proposed Products and Capacities:

S. No	Product Name	CAS Number	Therapeutic category / Application	Quantity In Kgs/Month	Quantity In Kgs/Day
1	5-(Difluoromethoxy)-2-mercapto -1H-benzimidazole(BZL)	-	Drug Intermediate	5200.00	173.33
2	Niacin	59-67-6	Anti hyper lipidimic	26000.00	866.67
3	N-Methyl-4-piperldone(NMP)	1445-73-4	Drug Intermediate	11490.00	383.00

4	Paracetamol-API	103-90-2		14040.00	468.00
5	Sodium methoxide (SMO)	124-41-4	Organic Chemical	8320.00	277.33
Total (Worst combination of any two products on campaign basis only)				40040.00	1334.67

LIST OF BY- PRODUCTS AND QUANTITIES

S. No	Name of the Product	Name of the By-Product	Quantity In Kg/Day	Disposal Option
1	5-(Difluoromethoxy)-2-mercapto -1H-benzimidazole	Disodium sulfide	72	For Sale
2	Niacin	Ammonium sulphate	934	For Sale
		Sodium nitrate	601	For Sale
3	Paracetamol	Acetic acid	200	For Sale
	Total		1807	

EAC has deliberated on the proposal and related documents. EAC noted that PP has earlier conducted the public hearing and addressed the issues in the EIA/EMP report and discussed the point wise reply. EAC noted that the public hearing is exempted under Section 7(ii) of EIA Notiifcation. EAC has noted that the resultant AAQ concentrations are within National AAQ standards. EAC also noted that the PP has submitted the additional documents sought by the EAC. EAC has considered the health study in the area, plant species, details of existing industries and ground water quality and found the information it to be satisfactory.

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

Specific conditions

- i. Zero Liquid discharge system shall be ensured.
- ii. PP shall ensure Good Manufacturing Practices.
- iii. PP shall develop green belt of 10 m width along the periphery of the unit with perennial native trees. PP shall ensure 33 % of green cover area with trees.
- iv. Atleast 2.5 % of the total amount shall be earmarked for Enterprises Social Commitment and PP shall provide RO drinking water, LED light , computer/smart class (for schools) facilities to the nearby villages with this amount.
- v. The PP shoud adopt Good Manufacturing Practices to ensure the goal of sustainable development.

22.6.7

Proposed expansion of a molasses based Distillery Unit (60 KLPD to 100 KLPD) at post Kisanveer Nagar, Tehsil Wai, Dist: Satara Maharashtra by M/s Kisan Veer Satara Sahakari Sakhar Karkhana Ltd. - Reconsideration of Environmental Clearance – reg. [IA/MH/IND2/35354/2013, J-11011/211/2010-IA-II(I)]

Member Secretary informed the committee that the proposal has been considered by the EAC in the 17th meeting held during 26-29th December, 2016 and deferred the proposal for want of following information/documents:

1. Certified compliance report of the existing EC granted to the project vide letter no. J-11011/496/2008-IA.II (I) dated 08.12.2008.
2. Name of Registered Brick Manufacturing Unit to be provided giving commitments for full use of fly ash to be provided by the proposed unit.
3. Layout plan of the plant be revised marking the Green belt of 10m wide around the periphery of the plant. Selection of trees will be done as per CPCB norms and after consultation with forest department.
4. Spent wash will be treated through bio-methanation route followed by evaporation and composting.

Thereafter, the project proponent and the accredited consultant M/s Mahabal Enviro Engineers Pvt. Ltd., Thane made a detailed presentation on the proposal and informed that:

- (i) The project involves Proposed expansion of a molasses based Distillery Unit (60 KLPD to 100 KLPD) at post Kisanveer Nagar, Tehsil Wai, Dist: Satara Maharashtra by M/s Kisan Veer Satara Sahakari Sakhar Karkhana Ltd.
- (ii) The project proposal was considered by the Expert Appraisal Committee (Industry) in its 11th meeting held on 9th June, 2010 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 29th June, 2010. Again the project was considered in 10th EAC meeting (Industry) held on 31st July, 2013 for Extension of ToR. EAC in its 10th meeting granted the fresh ToR.
- (iii) All molasses based distilleries are listed at Sl.No. 5(g) (i) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iv) The proposed products are Rectified Spirit/Extra Neutral Alcohol, Spirit and Ethanol.
- (v) EC for existing molasses based 60 KLPD Distillery unit was obtained vide EC Letter No. J-11011/496/2008 – IA II (I) dated 08.12.2008. The KSSSKL has proposes to expand existing 60 KLPD Unit to 100 KLPD Unit
- (vi) The proposed expansion will be carried out in existing premises of sugar industry having total area of 432 acres. The phase II will be adjacent to Phase I. Out of 432 acres, 10 acres earmarked for proposed expansion. The total water requirement for the proposed expansion (40 KLPD unit) is 720 m³/day and will be met from Krishna River, Farm Pond and left canal of Dhom Dam. The total water requirement for 100 KLPD distillery unit is 1685 m³/day. The basic raw material for the distillery will be Molasses. The Molasses for proposed expansion will be sourced from our sugar factory and nearby sugar factories. The Bagasse (40 TPD) and Biogas (1800 TPD) required for proposed expansion will be sourced from existing sugar Plant and Biomethanation Plant.
- (vii) The manufacturing process involves only three steps process namely molasses preparation, fermentation and distillation. The main gaseous emission from plant is emission from boiler only (PM, SO₂ and NO_x) The CO₂ from fermentation will be scrubbed in water. The spent wash generation for the proposed expansion unit is 320 KLD. The spent wash generation for 100 KLD distillery unit is 800 KLD. The spent wash generation is 8 KL/KL of alcohol production. The yeast/fermented sludge; sludge from Biomethanation plant will be reused in compost making process. Boiler ash will be used in KSSSKL Brick Manufacturing Unit.
- (viii) The spent wash from proposed molasses based distillery will be treated in biomethanation process and evaporated in MEE and concentrated spent wash will be mixed with press mud generated from sugar unit for manufacturing organic manure to achieve 'Zero' discharge. Evaporator Condensate shall be treated and recycled/reused in process. No effluent shall be discharged outside the premises and 'Zero' discharge shall be maintained
- (ix) All fire- fighting facilities as per OISD 117 norms will be provided in proposed expansion area.

- (x) The capital cost for proposed expansion is Rs. 17 Crore.
- (xi) There are no eco-sensitive areas such as national park/wildlife sanctuary/ biosphere reserves within 10 km radius of project area. The proposed expansion area is not agricultural land.
- (xii) No other distillery is existing within the study area of 10 km Radius. The proposed expansion will be carried out in existing premises of sugar industry having total area of 432 acres. The phase II will be adjacent to Phase I. Out of 432 acres, 10 acres earmarked for proposed expansion. The Krishna River is flowing on West side at ~3.2 km). The study area comprises of 31 villages. The population for study area is 71,651 Nos. The project is accessible by Bhuinj Jamb Road.
- (xiii) The ambient air quality monitoring was carried out at 7 locations during March, 2014 – May, 2014. The ambient air quality results shows that PM₁₀, PM_{2.5}, SO₂, NO_x and CO concentration levels monitored during the study period are well within the prescribed limits promulgated by the CPCB. Surface and ground water samples were collected and analysed at 4 & 5 locations respectively. The water quality of Rivers meets the quality of class A 2, which can be used as drinking water source with necessary treatment & disinfection. There are no endangered species of flora and fauna in the study area. There are no eco-sensitive areas such as national park/wildlife sanctuary/biosphere reserves within 10 km radius of project area. Study area comprises of rural area. Villagers are mainly dependent on agriculture for their livelihood. Economical status is semi-moderate.
- (xiv) All safety measures such as provisions of safety appliances, imparting training, giving of safety awards, display of posters with slogans related to safety will be taken.
- (xv) Impact on ambient air quality due to Particulate and gaseous emissions from Boiler stack. Process Emissions: Fermentation: CO₂ and other gases. Impact on workers working in high noise area. Degradation of water quality due to disposal of treated and untreated effluent. Impact of Fly ash on vegetation/Human settlement.
- (xvi) Public hearing for the proposed project has been conducted by SPCB on 03.03.2016. During public hearing concerns were raised regarding water Pollution control measures, air Pollution Control measures. The KSSSKL has provided the multicyclone to arrest the fly ash for distillery boiler stack. The spent wash from molasses based distillery shall be treated in biomethanation process and evaporated in MEE and concentrated spent wash will be mixed with press mud generated from sugar unit for manufacturing organic manure to achieve 'Zero' discharge.
- (xvii) Budgetary Provision made for Community Welfare is 1.35 Cr. CSR activity proposed are development of Village school and maintenance, Construction of Medical Centre, Training and development locals, Development of village roads, Provision of potable water for the nearby villages, Conducting cultural activities etc. 25 Lacs/annum shall be allocated for the recurring expenses of CSR.
- (xviii) Ambient Air Quality, Stack monitoring & Effluent analysis, Ground water Analysis will be carried out regularly as per CPCB norms and the analysis reports will be submitted to Ministry of Environment & Forests & MPCB regularly.
- (xix) PP has submitted the certified compliance report from Regional Office, Nagpur issued vide letter dated 20.03.2017.
- (xx) PP has reported that the ash generated from the unit will be given to Kisanveer brick manufacturing unit owned by the PP.
- (xxi) PP has submitted the revised Layout plan of the plant be revised marking the Green belt of 10m wide around the periphery of the plant. Selection of trees will be done as per CPCB norms and after consultation with forest department.
- (xxii) PP has informed that the spent wash will be treated through bio-methanation plant followed by evaporation in MEE and concentrated spent wash will be mixed with press mud generated from sugar unit for manufacturing organic manure to achieve zero discharge.

	<p>EAC has deliberated on the proposal and additional documents submitted by the PP. EAC noted that the certified compliance report and the response given by PP to the non-complied point to be satisfactory. EAC noted the PP has carried out the EIA with the revised TOR approved by the committee. EAC has considered the period of data collection and also noted that the resultant concentrations are within National AAQ standards.</p> <p>EAC after detailed deliberation has recommended the project for environmental clearance subject to compliance of specific conditions and other general conditions.</p> <p><u>Specific conditions</u></p> <ol style="list-style-type: none"> 1. PP shall develop green belt of atleast 10 m width along the periphery of the unit. PP shall ensure 33 % of green area coverage with trees in the unit area. 2. PP shall plant 1000 trees/year for five years in the villages nearby villages. The status of plantation and survival of plants shall be reported to the RO, MoEF&CC in the Six monthly compliance report. 3. Zero Liquid discharge shall be ensured. 4. PP shall operate the distillery for 270 days only. 13. Environment Management Cell with well-equipped laboratories shall be setup in the unit. A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant. 5. Atleast 5 % of the total project cost shall be earmarked for Enterprises Social Commitment. PP shall utilize the amount for providing RO drinking water and solar lights on the streets of the nearby three villages.
22.6.8	<p>Proposed Bulk LPG Storage & Bottling Facility at B37/pt to B43/pt, B50/pt, B51/pt, C30 to 41 etc. SIPCOT Industrial Growth Centre, Gangaikondan Village, Tirunelveli Taluk & District Tamil Nadu by M/s Indian Oil Corporation Limited (IOCL) - Violation case of EC – Additional TOR Reg. [IA/TN/IND2/40795/2015, J- 11011/129/2015-IA.II(I)]</p> <p>The project proponent and the accredited consultant M/s ABC Techno Labs, Chennai made a detailed presentation on the proposal and informed that:</p> <ol style="list-style-type: none"> (i) The project involves proposed Bulk LPG Storage & Bottling Facility at B37/pt to B43/pt, B50/pt, B51/pt, C30 to 41 etc. SIPCOT Industrial Growth Centre, Gangaikondan village, Tirunelveli Taluk & District Tamil Nadu by M/s Indian Oil Corporation Limited (IOCL). (ii) The project proposal was considered by the Expert Appraisal Committee (industry -2 in its 44th EAC meeting held during 20-21st July, 2015 and recommended terms of references (TORs) for the project. The TOR has been issued by ministry vide letter dated 15th Sep, 2015. (iii) All the Isolated Storage & Handling of Hazardous chemicals (as per threshold planning quantity indicated in column 3 of schedule 2 & 3 of MSIHC Rules 1989 amended 2000) activity are listed at S.N 6 (b) of schedule of environmental impact assessment (EIA) notification under category 'A' and are appraised at central level by expert appraisal committee (EAC) (iv) Land area of the plant is 42 Acres. (v) IOCL developed Greenbelt in an area of 33% i.e. 5.60 Ha out 16.99 Ha total project area. (vi) The estimated project cost is Rs. 78.85 Crores. Total capital cost earmarked towards Environmental Management measures is Rs.142 Lakhs and the recurring cost (operation and maintenance) will be about Rs.8.2 Lakhs per annum. (vii) Total employment will be 75 Persons. Industry proposes to allocate Rs. 8.0 Lakhs for

- the year 2017-2018 towards corporate social responsibility.
- (viii) Gangaikondan spotted deer sanctuary lies within 1 km distance. River Tamirabarani is located at a distance of 5.9 km & Gangaikondan Kulam is located 3.0 km (ENE) of project site.
 - (ix) Ambient air quality monitoring was carried out at 8 Locations during February 2015 to April 2015 and baseline data indicates the ranges of concentrations as: PM₁₀ (35-66 µg/m³), PM_{2.5} (17 – 35.7 µg/m³) and SO₂ (5.1 - 6.8 µg/m³) and NO₂ (13.5 – 17.2 µg/m³) respectively.
 - (x) Total water requirement is 4 m³/day of which fresh water requirement of 4 m³/day will be met from SIPCOT
 - (xi) Power requirement will be 450 KVA which will be met from Tamil Nadu Electricity Board (TNEB), the unit has 2 DG sets of 750 & 250 KVA capacity are used as standby during power failure. Stack height of 13.5m & 11m respectively has been provided as per CPCB norms.
 - (xii) There will be no continuous source of air pollution from the operation of LPG bottling plant during operation phase. The sources of air pollutants will be limited to the DG sets and diesel engine driven fire water pumps which will be operated during emergency. These sources of air pollution will be intermittent in nature and would emit mainly exhaust gases containing NO₂, SO₂, and negligible quantity of particulate matters. The pollution control in DG sets will be achieved by providing stack of appropriate height as per CPCB guidelines.
 - (xiii) The proposed bottling plant will receive LPG through bullet trucks from IPPL Chennai, unloading and storage of LPG in mounded bullets, filling in cylinders and dispatch of the same by truck/lorries to consumers. The proposed LPG plant will be operated in a well proven leak proof system, thus there will be no source of emissions from the storage and bottling of LPG at the proposed bulk LPG storage and bottling plant.
 - (xiv) Practically, no solid waste shall be generated from operation of proposed LPG bottling. Used oil, grease and empty drums shall be disposed of through TNPCB registered vendors as per Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and subsequent amendments.
 - (xv) Public hearing for the proposed project has been exempted as per para 7 (i) III Stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.
 - (xvi) Following are the list of proposed products: The Indane Bottling Plant has a consented LPG bottling throughput of 1,20,000 MTPA and bulk storage capacity is 1800 MT (3 mounded bullets x 600MT capacity).

The Member Secretary informed that the proposal has been considered in 16th EAC meeting held during 8th – 9th December, 2016; wherein it was noted that the proposal for Environmental Clearance was considered in 4th EAC meeting held during 11-12th February, 2016. After deliberation, the Committee noted that the project is being considered as per the NGT direction in response of application filed by the applicant. Further, it was noted that the project involves violation under the provision of E(P), Act, 1986 and EIA Notification, 2006. The matter will be dealt as per the prevailing laws for dealing such cases. Since, the project is also required to obtain NBWL clearance, the proposal was deferred till the aforesaid information is submitted.

During 16th EAC meeting after examination of the aforesaid facts it was recommended that the Ministry may take a view regarding consideration of the proposal by the EAC for grant of environmental clearance. The 19th EAC meeting held during 6-7 February, 2017 has also considered the proposal.

The Member Secretary further informed that the Ministry has issued a notification vide S.O. 804(E) dated 14th March, 2017 for consideration of the violation cases. Hence, it has been

decided by the Ministry that the EAC may consider the proposal as per notification dated 14th March, 2017.

Accordingly, the EAC has deliberated on the proposal.

EAC after detailed deliberation has recommended for additional TOR for preparation of EIA/EMP report in accordance with the notification S.O. 804(E) dated 14th March, 2017

Additional TOR:

1. Details of action taken by State Government/ State Pollution Control Board under the provisions of section 19 of the Environment (Protection) Act, 1986 against the PP for reported violation.
2. The collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory duly notified under Environment (Protection) Act, 1986, or a environmental laboratory accredited by National Accreditation Board for Testing and Calibration Laboratories, or a laboratory of a Council of Scientific and Industrial Research institution working in the field of environment.
3. Undertake study on ecological damage caused due to the reported activity.
4. Submit a remediation plan and natural and community resource augmentation plan as an independent chapter in the environment impact assessment report by the accredited consultants.
5. PP shall submit the details of undue economic benefit derived during the period of violation.
6. An environmental Cost –benefit Analysis/study to be conducted to reach up to conclusion about environmental damage caused due to act of violation.

22.6.9

Exploratory Drilling of 35 Wells in L-1 PML, Kuthalam PML, Kali & Greater Kali PML, Bhuvanagiri PML and Neyveli PML in Cauvery Basin, Tamilnadu - Grant of Environmental Clearance - reg. [IA/TN/IND/19668/2013; J-11011/234/2013/IA.II (I)]

The Member Secretary informed the committee that the proposal has been considered by the EAC in its 3rd meeting held during 18-19th January 2016. The committee during the said EAC meeting recommended for PH exemption in four districts viz. Nagapattinam, Ariyalur, Thanjavur and Tiruvarur, wherein 21 wells of the proposed project are located. The EAC also recommended for grant of Environmental Clearance for these 21 exploratory wells. However, Ministry has decided to place the proposal before the EAC to reconsider the recommendations and justify the reasons for giving public hearing exemption in aforesaid four (4) districts.

The EAC in its 21st meeting held during 27-29th March, 2017 has discussed the issue with the ONGC and after examining the facts decided to seek information from the PP on following points:

1. The district and year- wise details of public hearings held earlier.
2. The distance between proposed wells and earlier wells for which public hearing has already been held in referred four districts.
3. Public agitation against the project.

Thereafter the the project proponent vide letter no. ONGC/CHSE/EC/2017-18 dated 3RD April, 2017 submitted the response to the above points raised by the EAC during 21st EAC meeting held during 27-29th March, 2017. The PP has informed that:

i. The district and year wise details of Public hearing conducted earlier:

Sl.No	NAME OF THE DISTRICT	PH CONDUCTED ON
1	Thanjavur	10.07.2014 (proposed 5 wells)
2	Nagapattinam	20.06.2014 (proposed 9 wells)
3	Thiruvarur	27.06.2014 (proposed 1 wells)
4	Ariyalur	20.10.2014 (proposed 6 wells)
5	Cuddalore	Applications Submitted to TNPCB, Cuddalore on 10.11.2014; There was a delay of more than 7 months from TNPCB for Conducting PH.

ii. Drilling Sites and Respective Distances:

- a) The drill site location is selected always away from the habitation, highways, railway lines, schools, hospitals etc. keeping the minimum distance as per Oil Mines Regulations.
- b) For the wells for which PH has been conducted earlier in Thiruvarur, Nagapattinam and Thanjavur districts of Tamil Nadu, EC has been issued by the MoEFCC blockwise (F. No. J-11011/250/2011-IA II (I) dated 30.01.2015) and for the wells in Ariyalur district, EC (F. No. J-11011/188/2013-IA II (I) dated 10.09.2015) has been issued wells coordinate wise.

Therefore, for the proposed wells in Ariyalur, the distance calculated between the earlier and proposed wells and are within 10 kms. However, for other districts, as the EC has been given block wise, the issue of distance may not be relevant. However, it is informed that the baseline studies conducted covers 10 kms radius with the center of oil field as its center covering the area around the earlier and proposed locations.

S. No.	EC order	Districts where PH conducted earlier	Number of wells	Number of wells proposed
1	F. No. J-11011/188/2013-IA II (I) dated 10.09.2015	Ariyalur	10	6
2	F. No. J-11011/250/2011-IA II (I) dated 30.01.2015	Nagapattinam	8	9
3		Thiruvarur	20	1
4		Thnjavur	2	5

iii. No ongoing agitation against ONGC's E&P activities in Thiruvarur, Nagapattinam, Thanjavur and Ariyalur district

There is no ongoing agitation against ONGC's E & P activities at present in Tiruvarur, Nagapattinam, Thanjavur and Ariyalur Districts for which PH exemption has been sought. An affidavit from the project proponent issued by the Notary, Government of Tamil Nadu is enclosed in original.

iv. No net increase in Environmental load

- a. By these proposed exploratory wells, there will be neither increase in any capacity of the project nor any environmental load as these wells are exploratory in nature wherein the project proponent do not produce any hydrocarbon.
 - b. The process of drilling of exploratory wells are usually there for a maximum of three months under normal conditions in an open environment. Out of these three months the drilling is carried out for one and half months and for the remaining period other associated geological activities are carried out. Even in during drilling process, the load on the DG set is minimum and more power is required during running in and pulling out of the strings of drill pipes. Hence, there cannot be any issue of air pollution.
 - c. Wastewater is being recycled, water being used for mud preparation remains in closed circuit. Wastewater pits are lined with the HDPE liner as per the CPCB guidelines. The issue of water pollution does not arise at all.
 - d. Only water based mud is used which is non-toxic (tested by NIO, Goa). Drill cuttings produced are non-hazardous as per the Hazardous Waste Rules 2016.
- v. **No produced water is generated** in exploratory drilling except during production testing and the water generated if any at this stage is transported through pipeline to nearest ETP or through tankers.
- vi. Restoration of Drill Site after Abandonment**
- i. There is no permanent structure created at any of the drilling site. Every equipment present at the drill site is skid mounted and others are the bunk houses. These all facilities are transportable.
 - ii. ONGC takes land on temporary long lease basis which is renewable on year to year basis. Once the well is declared dry & abandoned, the restoration of the site to its near original condition is carried out as per the Standard Operating Procedure (SOP) of ONGC.
 - iii. Waste pit is covered with the top soil.
- vii. The possibility of a Blow-out situation in exploratory drilling and necessary preparedness to tackle the situation**
- i. During the last 6 decades of ONGC's existence there was no incidence of Blowout in Cauvery Basin where the Public Hearing exemption has been sought.
 - ii. In this regard, please refer to Clause 1.3 of Risk Assessment Report in EIA Report submitted for the above 35 wells. As per the database of Alberta Energy and Utilities Board for onshore blowouts, frequency of blowout is 4.9×10^{-4} per well. The frequency of blowout for the proposed 35 wells is 1.72×10^{-2} per well drilled, and can be considered negligible.
 - iii. For tackling any eventuality, "Blowout contingency plan" is already in place in the company. (Please refer 'Blowout Contingency Plan' of Risk Assessment Report in EIA Report submitted for the above 35 wells.
 - iv. ONGC is having a dedicated crisis management team (CMT) equipped with all the modern equipments/technology to tackle such eventuality.

Based on the above facts the PP further requested that the ample justification exists that the public hearing conducted by the project proponent earlier in the four districts stands good for

the proposed locations also and will not violate any environmental integrity. In view of the same, it is requested to consider grant of EC for 21 wells falling in the districts of Thiruvavur, Nagapattinam, Thanjavur and Ariyalur after dropping 14 wells in Cuddalore district in Tamil Nadu.

EAC has made indepth analysis of the submissions made by the PP. EAC after detailed deliberation was of the opinion that the public hearing can be exempted. EAC has again recommended for exemption of the proposal from public hearing as recommended by the EAC earlier and recommended for granting EC for 21 wells as per the submissions of the PP.

22.7 Terms of Reference (TOR)

22.7.1	<p>Proposed expansion of Synthetic Organic Pigments manufacturing unit Plot No. 1196/1/A & B, Village Rajpur, Ghumasan - Patia Road, Chhatral - Mehsana Highway, Rajpur, Gujarat, India by M/s Navpad Pigments Pvt. Ltd. [IA/GJ/IND2/63465/2017, J-11011/151/2017-IA.II(I)- Terms of Reference.</p> <p>The project proponent and the accredited consultant M/s Rightsource Industrial Solution Pvt. Ltd., Hyderabad made a detailed presentation on the proposal and informed that:</p> <p>(i) The project involves proposed expansion of Synthetic Organic Pigments manufacturing unit Plot No. 1196/1/A & B, Village Rajpur, Ghumasan - Patia Road, Chhatral - Mehsana Highway, Rajpur, Gujarat, India by M/s Navpad Pigments Pvt. Ltd.</p> <p>(ii) All Synthetic Organic Chemicals Industry located outside a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).</p> <p>(iii) The land area is 2.559 Acres/10357 Sq.m.</p> <p>(iv) Industry will be develop Greenbelt in an area of 33% i.e 1.02 Acres out of 2.559 Acres of area of the project.</p> <p>(v) The estimated proposed expansion project cost is Rs. 20 Crores.</p> <p>(vi) Industry proposed to allocate Rs. 100 Lakhs for 5 years @ 5% of Project cost towards Corporate Social Responsibility.</p> <p>(vii) No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10km distance from the project site. Narmada Canal is flowing at a distance of 9.25 kms in SW direction</p> <p>(viii) The total water requirement is 742 m³/day of which fresh water requirement of 164m³/day will be met from ground water sources.</p> <p>(ix) Generated effluent of 781 m³/day will be treated through stripper followed by MEE/ATFD, Biological Treatment Plant followed by RO plant will be based on Zero Liquid Discharge System.</p> <p>(x) Power requirement for proposed project will be 3000 KVA and will be met from APSPDCL. DG set of 2x1000 KVA capacity; Stacks (height 10 mts) will be used as standby during power failures.</p> <p>(xi) 2x5.0 TPH coal fired boilers are proposed for the new unit with a stack of height of 30 mtr each, Multi cyclone separator/bag filter will be installed for controlling the particulate emissions (within statutory limit of 115 mg/ Nm³).</p> <p>(xii) Details of Process emissions generation and its management:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S. No.</th> <th style="width: 35%;">Name of the Gas</th> <th style="width: 20%;">Quantity In Kg/Day</th> <th style="width: 35%;">Treatment Method</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				S. No.	Name of the Gas	Quantity In Kg/Day	Treatment Method				
S. No.	Name of the Gas	Quantity In Kg/Day	Treatment Method									

1	Hydrogen	180	Dispersed through Flame arrestor along with Nitrogen
2	Hydrogen chloride	272	Scrubbed by using chilled water media
3	Ammonia	705	Scrubbed by using Chilled water media
4	Oxygen	245	Dispersed into the atmosphere

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

S. No	Name of the Hazardous Waste	Quantity Kg/Day	Disposal Method
1	Organic waste	3286	Sent to CHWIF for incineration
2	Solvent Distillation Residue	3634	Sent to CHWIF for incineration
3	MEE Salts	17560	Sent to TSDF
4	ETP Sludge	500	Sent to TSDF
5	Used Oils	500 Ltrs/Annum	Disposed to SPCB Authorized Reprocessors
6	Containers & liners	500 No's/Month	Disposed to SPCB Authorized agencies
7	Used Lead Acid Batteries	4.0 No's/Annum	buyback of New Batteries
Solid Waste Details			
8	Ash from boiler operations	11750	Sent to Brick manufacturers

(xiv) Existing Product And Quantity:

S. No.	Product Name	Quantity MT/Month
Group-A		
1	Pigment Violet 23	3
	Total	3

List of Proposed Products and Capacities

S. No.	Product Name	Quantity MT/Month	Quantity MT/Day
Group-A			
1	Pigment Violet 23	50.00	1.67
	Total	50.00	1.67
Group-B			
1	Pigment Red 122	150.00	5.00
2	Pigment Violet 19	150.00	
3	Pigment Beta Blue15:3	150.00	
4	Pigment Beta Blue15:4	150.00	
5	Carbazole	150.00	
6	Solsperse5000	150.00	

	Total	150.00	5.00
	Grand total (Group-A + Group-B)	200.00	6.67

(xv) It is proposed to manufacture Group-A Product of 50MT/Month along with 150 MT/Month of any one or together of Group- B Products, with a total capacity of 200MT/Month.

EAC has deliberated on the proposal. EAC noted that the PP proposed to manufacture Group-A Product of 50MT/Month along with 150 MT/Month of any one or together of Group- B Products, with a total capacity of 200MT/Month.

EAC after detailed deliberation has recommended for Standard TOR in addition to following Additional TOR along with public hearing, for preparation of EIA/EMP report for the project.

Additional TOR

1. Public hearing shall be conducted as per the provisions of EIA Notification, 2006.
2. Zero Liquid Discharge shall be ensured.
3. Green belt shall be developed with atleast 10 m width around the periphery of the unit with perennial trees. 33 % of the unit area shall be developed as green area with trees.
4. Chemical name along with CAS no. of the product shall be included in the EIA.
5. PP shall obtain permission from the concerned authority for ground water extraction.
6. As agreed PP shall reduce the ground water usage by 50% of the proposed quantity.

22.7.2

Proposed Expansion Project of Active Pharmaceuticals Ingredients (APIs) and its Intermediates with R&D Facility at R.S.Nos. 73/1A, 73/2, 74/7B, 78/1B, 79/1, 79/2B, 79/3, 79/4B, 79/5, 79/6A, 79/6B, 79/7, 80/1, 80/2, 80/3, 80/4, 84/1, 84/2, 84/3A, 84/5A, 84/6, 84/7A, 85/1, 85/2B, 86/2B, 86/2C, 86/2D2, 86/3B, 86/4, 86/5, 86/6, 86/7, 86/8, 86/9, Manali Industrial Area, Vaikkadu Village, Ambattur Taluk, Tiruvallur District, Tamil Nadu State by M/s NATCO Pharma Limited, Chemical Division, Chennai - Terms of References - Reg. [IA/TN/IND2/63014/2017, IA/TN/IND2/63014/2017]

The project proponent and the accredited consultant M/s KKB Envirocare Consultants Pvt. Ltd., Hyderabad made a detailed presentation on the proposal and informed that:

- (i) The project involves proposed Expansion Project of Active Pharmaceuticals Ingredients (APIs) and its Intermediates with R&D Facility at R.S.Nos. 73/1A, 73/2, 74/7B, 78/1B, 79/1, 79/2B, 79/3, 79/4B, 79/5, 79/6A, 79/6B, 79/7, 80/1, 80/2, 80/3, 80/4, 84/1, 84/2, 84/3A, 84/5A, 84/6, 84/7A, 85/1, 85/2B, 86/2B, 86/2C, 86/2D2, 86/3B, 86/4, 86/5, 86/6, 86/7, 86/8, 86/9, Manali Industrial Area, Vaikkadu Village, Ambattur Taluk, Tiruvallur District, Tamil Nadu by M/s NATCO Pharma Limited, Chemical Division, Chennai.
- (ii) All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B' but due to the applicability of general condition (located in the Critically Polluted Area), it is considered under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).

- (iii) The total land area is 10.57 Ha (Existing)
- (iv) The existing water requirement is 216.5KLD. Proposed is 576 KLD (Fresh water requirement- 303 KLD and 182 KLD Recycled water& 91 KLD is recovered as steam condensate). Source: Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB) and private tankers supply.
- (v) Power: Proposed 2350 KVA (CMD) including existing 1175 KVA (CMD) with connected load of 5250 HP (incl. permitted 3250 HP) is the total power requirement. Source:Tamil Nadu Electricity Board (TNEB).
Industry also proposes to install 2 MW Wind Mill Energy plant in Tamil Nadu in order to tap undepletable natural resource like wind to generate wind energy to meet the power requirement thereby reducing the overall power dependency from Tamil Nadu Electricity Board.
- (vi) Fuel: 450 lit/hr of furnace oil will be used in the proposed 6 TPH oil fired boiler. Existing 3 TPH furnace oil fired boiler will be standby.
Diesel of about 630 lit/hr will be used in the proposed D.G. 2x1010 KVA & 100 KVA, in addition to existing 1 x 1010 KVA DG set. Existing 300 KVA DG set will be removed.
- (vii) Proposed Water Requirement andWaste water Generation with Segregation
- (viii)

Sl. No	Description	Input (KLD)		Output (KLD)			Segregation of Wastewater
		Fresh Water	Recovered/ Recycled water	Generation/ Evaporation / Handling Loss	Total Wastewater	Recovered/ Recycled water	
1	Process (16 Products at a time)	30	--	-1	31 (33.7 Tons)		Stream- 1: 25 KLD Stream- 2: 6 KLD
2	Washings (136 reactors, centrifuges, nutch filters, containers, floor moping, etc.)	50	--	--	50		Stream -2
3	Boiler (Proposed 6 TPH)	39	91	26	13	91	Stream- 3
		30 % make up	Recovered as Steam Condensate		10 % Blow down	Steam Condensate	
4	Cooling Towers	47	182	206	23		Stream -3
	3000 TR		Treated effluent		(Bleed)		
5	DM	10	--	--	10		Stream- 2

	Regeneration						
6	Scrubber (Existing 8 nos. & Proposed 4 nos.)	12		--	12		Stream -2
7	QC and R&D	10	---	--	10		Stream -2
8	Domestic (450 nos at 55 lpcd)	25		4	21		Stream- 2
9	Utility rejects (MGF,ACF Back wash, Softener etc.)	25			25		Stream- 3
10	Fire Hydrant make up	5		5			
11	Gardening 10 acres @ 5 kl/acre)	50	--	50	--		
Total		303	273	290	195	91	

Maximum Quantity of Process Emissions from Proposed Products

Sl. No.	Process Emission	Maximum Quantity on various combinations (kg/day)
1.	HCl	196.54
2.	SO ₂	61.53
3.	H ₂	47.37
4.	CO ₂	185.12
5.	Methyl Bromide	0.08
6.	O ₂	2.05
7.	N ₂	2.45
8.	Cl ₂	15.9
9.	Chloroethane	0.9
10.	Dimethylamine	4.83
11.	NH ₃	82.61

Hazardous/Solid Waste Generation from the Proposed Products

Sl. No.	Description	Proposed Quantity (TPD)	Proposed Quantity (TPA)	Handling Method	Disposal
1.	Process Organic residue and distillation residue	2.26	814	HDPE Bags / Drums	Sent to Authorized Cement

	2.	Spent carbon	0.11	40		Industries / TNMWL, for incineration / disposed in in-house incineration in the plant premises
	3.	Inorganic & Evaporation salt (Process)	3.4	1224	HDPE Bags	Sent to TNWML.
	4.	Evaporation salt (Non-Process)	1	360		
	5.	ETP Sludge	0.5	180		
	6.	Incinerator ash	0.1	36		
	7.	Spent Catalyst (Spent Silica gel - 0.188, Spent Raney Nickel catalyst-0.03, Spent Palladium Carbon Catalyst-0.01)	0.228	82.1	Drums	Sold to Authorized Recyclers
Other Hazardous Waste generation from the Plant						
	8.	Detoxified Container / Liners drums, HDPE Carboys, Fiber Drums, PP Bags	--	100 Nos./ month	Stored in Scrap yard	After Detoxification sent to outside agencies/recyclers
	9.	Spent solvents	2 KLD	720 KL/A	Tanks / Drums	Sent to TNWML for incineration /Cement Industries for co-processing/ On-site Incineration (existing Incinerator)
	10.	Spent Mixed solvents	2 KLD	720 KL/A	Tanks/ Drums	After detoxification Sent to TNWML for incineration /Cement Industries for co-processing/ On-site Incineration (existing Incinerator)
	11.	Waste oils & Grease	--	10 KL/A	MS Drums	Senttoauthoriz edre-

					processors/TN WML
12.	Used Lead acid Batteries	--	24 Nos/A	Stored in Covered shed	Sent to suppliers on buy-back basis.
13.	E- waste	0.001	0.36	Designated covered area	Send to authorized e-waste Collection centers/ registered dismantlers/ authorized recyclers/ return back to manufacturers
14.	Date expired, discarded and Off specification products/ chemicals	0.005	1.8	HDPE Bags and stored in covered shed	Sent to TNWML /Cement Industries for processing/On-site Incineration (existing Incinerator)
15.	Spill control Wastes/ Residues containing Oil	0.001	0.36		Sent to TNWML
16.	Decontaminated media from Microbiology Lab	0.01	0.36	HDPE bags and stored in covered shed	Autoclaved and sent to authorized biomedical waste incinerator
17.	Soiled waste from OHC (Cotton, Dressings, Soiled plaster casts, other material)	0.0001	0.04	Packed in yellow colored biomedical waste HDPE bags and stored in covered shed	Sent to authorized biomedical waste incinerator/Disposal near-by hospital with mutual agreement.

The proposed solid waste generation (Non-Hazardous solid waste) and the disposal methods are given below:

Sl. No.	Source	Proposed Quantity (TPD)	Proposed Quantity (TPA)	Handling	Disposal
---------	--------	-------------------------	-------------------------	----------	----------

1	Non-hazardous waste(Domestic – canteenwaste, discarded papers)	0.09	2.7	Packed in drums/HDPE bags	Handed over to local waste collection system
2	Non-hazardous waste(Paper /cartons /packing materials,glass, plastic/Used PPE)	0.06	1.8	Stored in Scrap yard	Sent to outside agencies/ recyclers
3	Used Insulation waste	0.05	1.5	Stored in Scrap yard	
4	Metalscrap (MS/SS/ Aluminum)	0.3	9	Stored in Scrap yard	

(ix) **Capital cost of the project, estimated time of completion –**

- Total Investment: Rs. 186.82 Crores including existing Rs. 86.82 Crores.
- Capital cost for environmental pollution control measures: Rs.20 Crores including existing Rs. 15 crores.
- Recurring Cost: Rs. 14.5 Crores per annum including existing Rs.2.5 crores.
- Estimated time of completion: one to two years.

(x) **Existing Products and their Capacities as per EC**

S. No.	Name of the product	Quantity (Kgs/Annum)	Quantity (TPA)
1	Allylestrenol	4	0.004
2	Drospirenone	50	0.05
3	Daunomycin Hydrochloride	12	0.012
4	Altretamine	5	0.005
5	Epirubicin Hydrochloride	2	0.002
6	Idarubicin Hydrochloride	0.5	0.0005
7	Nandrolone Decanoate	2	0.002
8	Chlorambucil	1	0.001
9	Doxorubicin Hydrochloride	2	0.002
10	Fulvestrant	1	0.001
11	Testosterone Decanoate	2	0.002
12	Geftinib	500	0.5
13	Imatinib Methane Sulfonate	1000	1
14	GB-5 intermediate	3670	3.67
15	Temozolomide	15	0.015
16	Sumatriptan	36000	36
17	Setraline Hydrochloride	5000	5
18	Melphalan	1	0.001
	Total Production Quantity	46267.5	46.2675 (46.267 TPA)

Permitted (Existing) Products and their Capacities as per CFO 2016

S.	Name of the product	Quantity	Quantity
----	---------------------	----------	----------

No.		(Kgs/Annum)	(TPA)
1	Allylestrenol	4	0.004
2	Drospirenone	50	0.05
3	Daunomycin Hydrochloride	12	0.012
4	Altretamine	5	0.005
5	Epirubicin Hydrochloride	2	0.002
6	Idarubicin Hydrochloride	0.5	0.0005
7	Nandrolone Decanoate	2	0.002
8	Chlorambucil	1	0.001
9	Doxorubicin Hydrochloride	2	0.002
10	Fulvestrant	1	0.001
11	Testosterone Deconoate	1	0.002
12	Geftinib	500	0.5
13	Imatinib Methane Sulfonate	1000	1
14	GB-5 intermediate	3670	3.67
15	Temozolomide	15	0.015
16	Melphalan	1	0.001
	Total Production Quantity	5266.5	5.2665

Proposed Products, their Capacities and Therapeutic category

S. No.	List of Products	Quantity kgs//day	Quantity (TPA)	Therapeutic Category
1.	Bendamustine HCl	0.83	0.30	Antineoplastic agent
2.	Bortezomib	0.03	0.01	Antineoplastic agent
3.	Decetabine	0.33	0.12	Antineoplastic agent
4	Everolimus	0.07	0.03	Antineoplastic agent
5	Temsilrolimus	0.03	0.01	Antineoplastic agent
6	Trabectedine	0.03	0.01	Antineoplastic agent
7	Busulfan	0.13	0.05	Antineoplastic agent
8	Lenalidomide	1.00	0.36	Antineoplastic agent
9	Nelarobine	0.03	0.01	Antineoplastic agent
10	Thiotepa	0.03	0.01	Antineoplastic agent
11	Azacitidine	0.83	0.30	Antineoplastic agent
12	Chlorambucil	0.03	0.01	Antineoplastic agent
13	Doxorubicin Hydrochloride	0.13	0.05	Antineoplastic agent
14	Epothiline B	0.13	0.05	Antineoplastic agent
15	Fulvestrant	0.13	0.05	Antineoplastic agent
16	Pomolidomide	0.83	0.30	Antineoplastic agent
17	Sirolimus	0.33	0.12	Immunosuppressive agents
18	Carmustine	0.13	0.05	Antineoplastic agent
19	Melphalan	0.03	0.01	Antineoplastic agent
20	Cabozantinib-S-Malate	2.83	1.02	Antineoplastic agents
21	Dasatinib Monohydrate	3.33	1.20	Antineoplastic agents
22	Erlotinib Hydrochloride	11.67	4.20	Antineoplastic agents
23	Geftinib	11.67	4.20	Antineoplastic agents

24	Imatinib Mesylate	23.33	8.40	Antineoplastic agents
25	Lapatinib Ditosylate Monohydrate	5.67	2.04	Antineoplastic agents
26	Nilotinib Hydrochloride	5	1.80	Antineoplastic agents
27	Palbociclib	5	1.80	Antineoplastic agents
28	Pazopanib Hydrochloride	5	1.80	Antineoplastic agents
29	Sorafenib Tosylate	13.33	4.80	Antineoplastic agents
30	Sunitinib Malate	5	1.80	Antineoplastic agents
31	Dabigatran Etxilate	12.5	4.50	Anticoagulant
32	Deferasirox	2.83	1.02	Chelating Agents
33	Lansoprazole	12.5	4.50	Proton pump inhibitors
34	Lanthanum Carbonate Dihydrate	16.67	6.00	Renal and genitourinary agent
35	Ledipasvir	8.33	3.00	Antiviral
36	Ondansetron Hydrochloride Dihydrate	10	3.60	Antimetic
37	Pirfenidone	5.67	2.04	Anti-inflammatory agent
38	Rizatriptan Benzoate	2.83	1.02	Antimigraine
39	Sacubitril	14	5.04	Cardiovascular Agent
40	Sertaline Hydrochloride	16.67	6.00	Selective serotonin reuptake inhibitors
41	Sumatriptan Succinate	8.33	3.00	Antimigraine
42	Ticagrelor	8.33	3.00	Platelet Aggregation Inhibitor
Total 16 products at time out of total 42 products		183.67	66.12	
R & D Activity				
43	Developmental Products (D)	0.55	0.20	
Total 16 products at time out of total 42 products and R&D products		184.22	66.32	

EAC has deliberated on the proposal. PP has informed the EAC that the unit is located in the Manali Industrial area and the moratorium in the Critically Polluted Area of Manali has been lifted by Ministry. PP has requested EAC to permit collection of baseline data from March- May, 2017.

EAC after detailed deliberation has recommended the proposal for Standard TOR with the following Additional TOR, for preparation of EIA/EMP report. EAC has also considered the request of PP regarding the collection of baseline data. The committee has exempted the public hearing under para 7 (ii) of EIA Notification, 2006.

Additional TOR

1. Green belt of atleast 10 m width shall be developed around the periphery of the unit with perennial native trees.
2. 33 % of the unit area shall be developed as green area with trees.
3. Zero Liquid Discharge shall be ensured.
4. Chemical name along with CAS no of the proposed product shall be included in the EIA report.

	<p>5. At least 5 % of the project cost shall be earmarked for Enterprises Social Commitment (ESC). ESC plan for five years with facilities like Drinking water (RO), led/solar panel, Computer/smart class, to the nearby villages shall be submitted.</p>
<p>22.7.3</p>	<p>Manufacturing of Synthetic Organic Chemicals (Bulk Drugs and Intermediates) at Sy. No. 50 (Part), Bommaramaram Village and Mandal, Yadradi District, Telangana by M/s Regenesis Industries Pvt. Ltd. [IA/TG/IND2/62707/2017, J-11011/67/2017-IA.II(I)]</p> <p>The project proponent and the accredited consultant M/TEAM Labs and Consultants, Hyderabad made a detailed presentation on the proposal and informed that:</p> <ul style="list-style-type: none"> (i) The project involves manufacturing of Synthetic Organic Chemicals (Bulk Drugs and Intermediates) at Sy. No. 50 (Part), Bommaramaram Village and Mandal, Yadradi District, Telangana by M/s Regenesis Industries Pvt. Ltd. (ii) All Synthetic organic chemicals manufacturing units located outside the notified industrial area are listed at S. No. 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) The proposed unit acquired 100 acres of land for proposed unit. (iv) Industry will develop Greenbelt in an area of 33% i.e., 33 acres out of 100 acres of area of the project site. (v) The estimated project cost is Rs.70 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 20 crores and the Recurring cost (operation and maintenance) will be about Rs. 9.8 crores Per annum (vi) Total Employment will be 400 persons as direct & indirect. Industry proposes to allocate 2.5 % i.e., Rs 1.75 crores capital cost towards Corporate Social Responsibility. (vii) Shamirpet vagu, a seasonal stream flowing from northwest to northeast is passing at a distance of 4 km from the plant site in north direction. Bibinagar chervu is at a distance of 8.92 km in SE direction. (viii) The baseline study for ambient air quality, surface, ground water quality, noise, ecology and soil quality will be carried out during March 2017 to June 2017. (ix) Total water requirement is 858.1 m³/day of which fresh water requirement is 491.1 m³/day and 367 m³/day is recycled water. The fresh water requirement will be met from ground water. (x) Total effluent of 385.4 m³/day will be treated by Zero liquid discharge based effluent treatment system. The high COD/TDS stream of 286.1 m³/day is segregated and sent to stripper followed by multiple effect evaporator (MEE), and agitated thin film dryer (ATFD). The condensate from stripper is sent to cement plants for co-incineration, while the condensate from MEE and ATFD is mixed with low TDS/COD from utility blow downs of 70 KLD in biological treatment plant followed by Reverse Osmosis. The treated wastewater is reused for cooling towers, boilers make-up and scrubbers. Domestic wastewater of 17 KLD shall be sent to sewage Treatment Plant and treated wastewater shall be reused for gardening. (xi) Total Power requirement will be met by TSPDCL. DG sets of capacity 2 x 2000 kva and 4 x 1000 kva are proposed to cater to the energy requirement during load shut down by TS Transco. Stack (height 10 m, 7m) will be provided based on CPCB formulae for proposed DG sets of 2 x 2000 kva and 4 x 1000 kva. (xii) It proposed to establish 3 x 10 TPH and 1 x 5 TPH coal fired boiler. Bag filters with a stack of height of. 35m and 30m height stack for 10 TPH and 5 TPH Coal fired boilers respectively will be installed for controlling the Particulate

emissions (within statutory limit of 115 mg/Nm³) for proposed 3 x 10 TPH and 1 x 5 TPH.

(xiii) Gaseous emissions from process are Hydrogen Chloride, Sulfur dioxide, Carbon dioxide and Hydrogen. HCl and SO₂ are scrubbed in two stage scrubbers. Water is used as scrubbing media in primary scrubbers and caustic in secondary scrubbers. Sodium Chloride, Sodium bicarbonate solutions are sent to ETP. Hydrogen, Carbon dioxide gases are let out into atmosphere by following a standard operating procedure. Hydrogen gas is let out into atmosphere through water column.

(xiv) Solid wastes are generated from process, solvent distillation, wastewater treatment and utilities. The effluent treatment system generates stripper distillate, ATFD salts and ETP sludge. The process operations generate process residue and recycling operation of distillation generates solvent residue and spent mixed solvents. The utilities i.e., coal fired boiler generates ash while DG sets generate waste oil and used batteries. The stripper distillate, process residue and solvent residue are sent to cement plants for co-incineration based on acceptability. If these wastes are not suitable for co-incineration, the same is sent to TSDF facility. The evaporation salts and ETP sludge are sent to TSDF. Waste oil and used batteries from the DG sets are sent to authorized recyclers. The other solid wastes expected from the unit are containers, empty drums which are returned to the product seller or sold to authorize buyers after detoxification.

(xv) Following is the list proposed products:-

Manufacturing Capacity

S. No	Name of the Product	Capacity	
		Kg/Day	TPM
1	Paclitaxel	50	2
2	Pantoprazole Sodium	500	15
3	Paroxetine HCl	200	6
4	Pioglitazone Hydrochloride	70	2
5	Pitavastatin Calcium	150	5
6	Prasugrel HCl	250	8
7	Pregabalin	500	15
8	Rabeprazole Sodium	150	5
9	Raloxifene	250	8
10	Residronate Sodium	600	18
11	Sertraline HCl	500	15
12	Simvastatin	180	5
13	Tamsulosin HCl	500	15
14	Telmisartan	500	15
15	Valsartan	600	18
16	Venlafaxine HCl	500	15
17	Zafirlukast	1000	30
18	Ziprasidone HCl	1000	30
19	Zoledronic Acid	500	15
20	Zolmitriptan	300	9
21	Atazanavir Sulfate	500	15
22	Azilsartan Medoxomil	150	5
23	Citicoline Sodium	1500	45
24	Dabigatran	800	24
25	Daclatasvir Dihydrochloride	2500	75
26	Darunavir	300	9

27	Dimethyl Fumarate	800	24
28	Dolutegravir Sodium	1200	36
29	Doxylamine Succinate	500	15
30	Acyclovir	250	8
31	Benzohydroyl Thioacetamide	500	15
32	Calcium Acetate	200	6
33	Doxofylline	5000	150
34	Fenoprofen Calcium	250	8
35	Entacapone	95	3
36	Thiabendazole	50	2
37	Imatanib Mesylate	50	2
38	Glycopyrrolate	100	3
39	Abacavir Sulphate	50	2
40	Cilostazol	125	4
Total - Worst Case 20 Products on campaign basis		20000	

List of Utilities

S.No	Utility	Capacity
1	Coal Fired Boilers	2 x 10 1 x 10* 1 x 5*
2	DG Sets (KVA)**	2 x 2000 4 x 1000

* Standby Boiler

**DG sets will be used during load shut down

EAC has deliberated on the proposal. EAC has considered the request of the PP for collection of baseline data from March, 2017 onwards.

EAC after detailed deliberation has recommended the project for standard TOR with the additional TOR along with public hearing, for preparation of EIA/EMP report.

Additional TOR

- Public hearing shall be conducted as per the provision of the EIA Notification, 2006.
- Green belt of at least 10 m width shall be developed around the periphery of the unit with perennial native trees.
- 33 % of the unit area shall be developed as green area with trees.
- Zero Liquid Discharge shall be ensured.
- No ground water shall be used for the project.
- Coal with sulphur content less than 0.5 % shall be used as fuel.
- The chemical name of the proposed product along with CAS no. shall be included in the EIA report.
- At least 2.5 % of the project cost shall be earmarked for Enterprises Social Commitment (ESC). ESC plan for five years with facilities like Drinking water (RO), led/solar panel, Computer/smart class, to the nearby villages shall be submitted.

22.7.4

Expansion of Bulk Drugs and Intermediates Manufacturing Unit of M/s Aurobindo Pharma Limited, Unit IX, located at Sy. Nos. 52,53,58,59,61,62,63,64,65,66,67,68,

69,70,71,72,73,74,75,76,77 and 78 (Pydibhimavaram Village), 2,4,5,6,7,8,9 & 11 (Chittivalasa Village), Ranasthalam Mandal, Srikakulam District, Andhra Pradesh by M/s Aurobindo Pharma Limited [IA/AP/IND2/63569/2017, J-11011/153/2017-IA.II(I)]

The project proponent and the accredited consultant M/s TEAM Labs and Consultant, Hyderabad made a detailed presentation on the proposal and informed that:

- (i) The project involves expansion of Bulk Drugs and Intermediates Manufacturing Unit of M/s Aurobindo Pharma Limited, Unit IX, located at Sy. Nos. 52, 53, 58, 59, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77 and 78 (Pydibhimavaram Village), 2, 4, 5, 6, 7, 8, 9 & 11 (Chittivalasa Village), Ranasthalam Mandal, Srikakulam District, Andhra Pradesh by M/s Aurobindo Pharma Limited.
- (ii) All Synthetic organic chemicals manufacturing units located outside notified industrial area are listed at S.No. 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) Ministry has issued EC earlier vide letter F. No. J-1011/48/2001-IA.II (I) dated: 23.05.2002 and F. No. J-1011/83/2004-IA II (I) dated: 21.06.2005 for expansion.
- (iv) Existing land area is 165 acres, no additional of land is used for proposed expansion.
- (v) Industry already developed Greenbelt in an area of 33% i.e., 55 acres out of 165 acres of area of the project.
- (vi) The estimated project cost is Rs250crores for proposed expansion.
- (vii) Total Employment from the expansion will be 300 persons as direct & 600 persons as indirect from proposed expansion. Industry proposes to allocate 2.5 % i.e., Rs. 6.25 crores towards Corporate Social Responsibility.
- (viii) Kandivalasa Nallah is passing from NW to SE in east direction. Bay of Bengal is at a distance of 7.34 km in SE direction. Kumili RF is at a distance of 2.1 km in E direction.
- (ix) The baseline study for ambient air quality, surface, ground water quality, noise, ecology and soil quality is being carried out during March 2017 to June 2017.
- (x) The total water requirement is 4043 KLD after expansion same shall be met from ground water.
- (xi) Total effluent of 2320m³/day will be treated through "Effluent Treatment Plant". The effluents are segregated into different streams. The high TDS and COD effluents generated from process, washings, and scrubbers are sent to Stripper followed by MEE, ATFD followed by biological treatment plant. The low TDS and COD effluents are sent to biological treatment plant, whereas the high TDS effluent stream is neutralized and disposed. The effluents are sent to marine discharge after treatment after achieving disposal standards. Wastewater from domestic usage and Garment washings are sent to Sewage Treatment Plant and treated wastewater is used for onland irrigation for greenbelt development.
- (xii) The total power requirement will be met from AP TRANSCO/captive cogen plant. DG sets with following capacity; 1 x 200 kVA, 1 x 380 kVA, 2 x 1000 kVA, 5 x 1010 kVA and 6 x 1500 kVA are proposed in place of existing DG sets; 1 x 1000 KVA, 1 x 350 KVA and 1 x 125 KVA to cater to energy requirement during load shut down by AP TRANSCO.
- (xiii) Existing unit has 1 x 35 TPH, 1 x 25 TPH, 1 X 20 TPH coal fired boilers. Electrostatic precipitator is provided for 1 x 35 TPH boiler, Bag filters is provided common for 1 x 25 TPH and 1 x 20 TPH capacity boilers. It is proposed to install an additional boiler of 1 x 35 TPH coal fired boiler with Electrostatic precipitator

- (xiv) as control equipment with a stack height of 47 mas part of expansion for controlling the Particulate emissions (within statutory limit of 115 mg/Nm³). Gaseous emissions from process are Ammonia, Hydrogen Chloride, Sulfur dioxide, Carbon dioxide, Hydrogen. Ammonia, Hydrogen Chloride and Sulfur dioxide emissions are scrubbed in two stage scrubbers and the resultant scrubbing effluent sent to ETP. The other gases are Carbon dioxide which are let out into atmosphere following a standard operating procedure while Hydrogen gas is let out into atmosphere through water column.
- (xv) Solid wastes are generated from process, solvent distillation, wastewater treatment and utilities. The effluent treatment system generates stripper distillate, ATFD salts and ETP sludge. The process operations generate process residue and recycling operation of distillation generates solvent residue and spent mixed solvents. The utilities i.e., coal fired boiler generates ash while DG sets generate waste oil and used batteries. The stripper distillate, process residue and solvent residue are sent to cement plants for co-incineration based on acceptability. If these wastes are not suitable for co-incineration, the same is sent to TSDF facility. The evaporation salts and ETP sludge are sent to TSDF. Waste oil and used batteries from the DG sets are sent to authorized recyclers. The other solid wastes expected from the unit are containers, empty drums which are returned to the product seller or sold to authorize buyers after detoxification.
- (xvi) Following are the list of existing and proposed manufacturing capacities

Manufacturing Capacity - Permitted

S. No.	Name of Product	Capacity (TPM)
Group - A		
1	6 APA	20
2	Ampicillin Dane Salt	15
3	Amoxycillin Dane Salt	15
4	AmpilillinTrihydrate	10
5	AmoxycillinTrihydrate	10
6	Cephalexin	15
7	Cloxacillin	10
8	Sulbuctum Sodium	2
9	SutamicillinTosylate	2
10	7 ACA	10
11	CMIC Chloride	30
12	DICMIC Chloride	5
13	Ciprofloxacin	25
14	Enrofloxacin	5
15	EthambutalHCl	10
16	Pyrazinamide	12
17	Cefachlor	0.5
	Total Group A: Worst Case 6 Products on Campaign Basis	120
Group - B		
1	Ampicillin	100
2	Amoxycillin	150
3	Cephalexin	60
4	Cloxacillin Derivatives	35
5	Lamovudine	8
6	Nevirapine	4

7	Cefazolin sodium	6
8	Stavudine	3.3
9	Effavarencz	5
10	Abcavir	1.5
11	Retanovir	1.2
12	Lopinavir	1
13	Zidovudine	20
	Total Group B: Worst Case 5 Products on Campaign Basis	365
Group - C		
1	Cefradine	8
2	Cefadroxil	20
3	Cefixime	10
4	CefdoximeProxetil	10
5	Cefrozil	2
6	Cefidinin	2
7	AtomoxitinHCl	0.08
8	Carisprodolol	6
9	Clarithromycin Carbopol	0.13
10	Clindamycin PalmiateHCl	0.04
11	DuloxitineHCl	0.5
12	Esomeprazole Magnesium	0.83
13	Felodipine	0.04
14	GalanthamineHBr	0.04
15	Ibandranote Sodium	0.4
16	Lamotrigine	3
17	Levetiracitam	6
18	Levofloxacin	4
19	Naproxen Sodium	7.4
20	Neteglinide	0.17
21	Omeprazole	0.92
22	Omeprazole Magnesium	0.13
23	Pioglitazone HCl	0.25
24	QuetiapineFumerate	1.83
25	RaloxifineHCl	0.21
26	Repaglinide	0.02
27	Risedronate Sodium	0.04
28	Rizatriptan Benzoate	0.02
29	Rosuvastatin Calcium	0.17
30	Tramadol HCl	1.42
31	ValacyclovirHCl	2.5
32	ZipresidoneHCl	0.17
33	Tenofovir	7
34	EmtricitabineSalicylate	3
	Total Group C : (34 Products)	98.31
	Grand Total (Group A + Group B + Group C)	583.31

Manufacturing Capacity -After Expansion

S. No.	Name of Product	Capacity (TPM)
Group A		

Regular Products

1	Abcavir	3.5
2	Alendronate Sodium	3
3	AtomoxitinHCl	2.2
4	Carisprodolol	6
5	Cefrozil	2
6	Celecoxib	7
7	Cilastatin Na	1
8	Ciprofloxacin	25
9	ClopidogrelBisulfate	6
10	ColesavelanHCl	1
11	Darunavir propylene glycolate	1.5
12	Dextromethorpan	1
13	Didanosine	1
14	Divalproex Sodium	7
15	Dolutegravir sodium	15
16	DuloxetineHCl	15
17	Effavarenc	5
18	EmtricitabineSalicylate	3.5
19	Enrofloxacin	5
20	Esmoprazole Sodium	1
21	Esomeprazole Magnesium	2.5
22	EthambutalHCl	10
23	Gabapentin Hydrochloride	50
24	Lacosamide	2.4
25	Lamotrigine	6
26	Lamovudine	35
27	Levetiracetam	40
28	Levofloxacin	20
29	Lopinavir	4
30	Metformin Hydrochloride	100
31	MethenamineHippurate	7
32	Methyl Iodide	1
33	Naftopidil	1
34	Naproxen Sodium	10
35	Nevirapine	10
36	OlmestartanMedoxomil	1.5
37	Omeprazole	12
38	Pioglitazone HCl	1
39	Pregablin	6
40	Pyrazinamide	12
41	QuetiapineFumerate	12
42	RaloxifineHCl	5
43	Ranolazine	1.3
44	Retanovir	1.2
45	Rosuvastatin Calcium	2
46	Sertraline Hydrochloride	30
47	Sevelamer Hydrochloride/Carbonate	15
48	Stavudine	1.4
49	Tenofovir	40
50	Tramadol HCl	5

51	ValacyclovirHCl	35
52	Valganocyclovir	1
53	Valsartan	15
54	Voriconazole	1
55	Zidovudine	20
	Total - I	628
Campaign Products		
1	Acetoxy compound	0.3
2	Apixaban	0.25
3	Atovaquone	0.25
4	AzilsartanKamedoxomil	0.16
5	Bosentan	0.25
6	Canaglifozin	0.25
7	Cefachlor	0.5
8	Cinacelcet-Hcl	0.3
9	Clarithromycin Carbopol	0.13
10	Clindamycin PalmiateHCl	0.75
11	Clobazam	0.25
12	Cobicistat	0.25
13	Dabigatran EtexilateMesylate	0.63
14	Dalfampyridine	0.5
15	Darifenacin	0.1
16	Deferasirox	0.25
17	DesuenLafaxine Succinate	0.25
18	Dexlansoprazole Anhydrous	0.25
19	Dimethyl Fumarate	0.25
20	Dronedarone Hydrochloride	0.5
21	Elvitegravir	0.25
22	Ezitimibe	0.3
23	Felodipine	0.04
24	Fudosteine	0.8
25	GalanthamineHBr	0.4
26	Ganciclovir	0.4
27	HydralizinHCl	0.25
28	Ibandranote Sodium	0.04
29	Iron sucrose	0.34
30	Ledipasvir	0.25
31	Linagliptin	0.3
32	Lorcaserin Hydrochloride	0.1
33	Lurasidone Hydrochloride	0.4
34	Methohexital	0.5
35	Mirabegron	0.1
36	Montelukast	0.5
37	Nebivololhcl	0.25
38	Neteglinide	0.39
39	Omeprazole Magnesium	0.5
40	Paliperidone	0.25
41	Penicillamine	0.25
42	PitavastatinCa	0.2
43	Prasugrel HCL	0.1
44	R&D products	0.5

45	Raltegravir Potassium	0.25
46	Repaglinide	0.25
47	Risedronate Sodium	0.8
48	Ritanovir	0.5
49	Rivaroxaban	0.1
50	Rizatriptan Benzoate	0.3
51	Roflumilast	0.25
52	Saxagliptan	0.05
53	Sildenafil Citrate	0.7
54	Silodosin	0.25
55	Sitagliptan	0.8
56	Sodium Ferric Gluconate	0.25
57	Sofosbuvir	0.25
58	Solifenacin	0.25
59	Teriflunamide	0.25
60	ZipresidoneHCl	0.7
61	Zolimitriptan	0.1
	Total - II - Worst Case 20 Products on Campaign Basis	11.11
	Total (I+II) - Group A	639.1
Group B		
1	7-AVNA	2
2	Amoxicillin	400
3	Amoxicillin Dane Salt	100
4	AmoxicillinTrihydrate	10
5	Ampicillin	100
6	Ampicillin Dane Salt	100
7	AmpilillinTrihydrate	10
8	Bacampicillin	0.5
9	CefdoximeProxetil	10
10	Cefidininir	2
11	Cefixime	15
12	Cephalexin	15
13	Cephalexin(Modified Route)	60
14	Cloxacillin	10
15	Cloxacillin Derivatives	35
16	DBDO	3.7
17	Flucloxacillin Mg	0.5
18	SutamicillinTosylate	2
19	Tazobactam	3.5
	Total Group B	879.20
	Grand Total (Group A + Group B)	1518.3
	Captive Power Plant	8.85 MW

List of Utilities

S.No	Utility	Permitted	Proposed	After Expansion
1	Coal Fired Boilers (TPH)	1 x 35 1 x 25 1 x 20	1 x 35	2 x 35 1 x 25 1 x 20
2	DG Sets (kVA)**	1 x 1000# 1 x 350#	6 x 1500 5 x 1010	6 x 1500 5 x 1010

		1 x 125#	2 x 1000 1 x 380 1 x 200	2 x 1000 1 x 380 1 x 200
--	--	----------	--------------------------------	--------------------------------

***DG sets will be used during load shut down by AP TRANSCO.
Will be dismantled after expansion*

EAC has deliberated on the proposal. EAC has considered the request of the PP for collection of data from March, 2017 onwards.

EAC after detailed deliberation has recommended the project for standard TOR with the additional TOR along with public hearing, for preparation of EIA/EMP report.

Additional TOR

1. Public hearing shall be conducted as per the provision of the EIA Notification, 2006.
2. Zero Liquid Discharge shall be ensured.
3. No ground water shall be used for the expansion project.
4. Coal with sulphur content less than 0.5 % shall be used as fuel.
5. The chemical name of the proposed product along with CAS no. shall be included in the EIA report.
6. Atleast 5 % of the project cost shall be earmarked for Enterprises Social Commitment (ESC). ESC plan for five years with facilities like Drinking water (RO), led/solar panel, Computer/smart class, to the nearby villages shall be submitted.
7. No banned drugs shall be produced/exported by the company.
8. Environment Management Cell with Environmental Science/ Environmental Engineering qualified person shall be formed in the unit.
9. Green belt of atleast 10 m width shall be developed around the periphery of the unit with perennial native trees. 33 % of the unit area shall be developed as green area with trees.

22.7.5 Expansion of cane crushing capacity from 2500 TCD to 5000 TCD, establishment of 30 MW cogeneration power plant, 2MW cogeneration power plant using spent wash concentrate and 60 KLPD Molasses based Distillery unit at Kuppattgeri, Doddhosur and Baloga Villages, Khanapur Taluk, Belgaum District, Karnataka by M/s Laila Sugars Private Limited [IA/KA/IND2/63593/2017, J-11011/154/2017-IA.II(I)]

The project proponent and the accredited consultant M/s TEAM Labs and Consultants, Hyderabad, made a detailed presentation on the proposal and informed that:

- (i) The project involves expansion of cane crushing capacity from 2500 TCD to 5000 TCD, establishment of 30 MW cogeneration power plant, 2MW cogeneration power plant using spent wash concentrate and 60 KLPD Molasses based Distillery unit at Kuppattgeri, Doddhosur and Baloga Villages, Khanapur Taluk, Belgaum District, Karnataka by M/s Laila Sugars Private Limited.
- (ii) All molasses based distilleries are listed at Sl.No. 5(g) (i) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) The total site area is 98.26 acres.
- (iv) The capital cost for the proposed expansion is Rs. 220 crores.
- (v) The land area of the plant is 98.26 acres. Malaprabha river flowing from

southwest to northeast located at a distance of 1.5 km in south direction. Bhimgad open forest is at a distance of 8.5 km in west direction. There are no ecologically sensitive areas like national parks, sanctuaries within 10 km radius of the site.

(vi) The process of manufacture of Sugar includes juice extraction, evaporation, crystallization, centrifugation, grading and bagging. The required cane is available to the plant within 20kms. Sugar cane molasses a by-product of sugar mills will be used for distillery unit, manufacturing process includes fermentation and distillation processes. Sugar cane molasses, a by – product of sugar mills, is the common raw material for alcohol production. It is proposed to establish 130 TPH boiler of pressure 110 ATA 540°C at the boiler outlet for 30MW cogeneration power plant.

(vii) The sources of air pollution after the proposed expansion are from utilities of 130 TPH Coal/Bagasse fired boiler, 20 TPH Coal and Concentrated Spent wash fired boiler and proposed 1 x 32 TPH bagasse fired boiler in addition to existing 2 x 32 TPH bagasse fired boiler. Backup DG set of 1 x 1000 KVA is proposed in addition to the existing 2 x 375 KVA DG sets. The proposed air pollution control equipment for 130 TPH boiler is Electro Static Precipitators and for 3 x 32 TPH bagasse fired boiler and 20 TPH boiler it will be bag filters. The proposed 1 x 32TPH and existing 2 x 32 TPH bagasse fired boilers will be kept as standby after installation of proposed 130 TPH bagasse/coal fired boiler. DG sets shall be provided with stack heights based on the CPCB formula for effective stack height.

(viii) The water requirement after expansion is in the order of 2029 KLD during the crushing season and 2703 KLD during off season and shall be drawn from Malaprabha river which is flowing about 1.5 km away from the site with Government’s permission. The total wastewater generated from sugar complex after expansion is 1018 KLD during crushing season and 592 KLD during off-season. The treated wastewater is reused for on-land irrigation. Spent wash generated sent to evaporator, condensate from evaporator reused for cooling towers make-up and concentrate is sent for incineration in boiler for 2MW co-generation power plant.

(ix) Solid waste generated from Integrated Sugar Complex is Bagasse, Filter cake, molasses and ash from spent wash incineration. Baggase is used as fuel for boiler energy requirements. Molasses sent to distillery unit, spent wash incineration boiler of distillery shall be used as fertilizer as the same contains high potassium content. Filter cake shall be sold to farmers. Ash generated from baggase fired boiler sent to brick/cement manufacturers. Sludge generated from ETP shall be used as manure in the green belt. Waste oil and used batteries from the DG sets are sent to authorize recyclers.

(x) 33 acres of land area developed as green belt

(xi) Manufacturing Capacity:

S. No.	Description	Units	Existing	Proposed	After Expansion
1	Sugar Cane Crushing	TCD	2500	2500	5000
2	Captive Power Plant	MW		30 + 2*	32
3	Molasses Based Distillery	KLPD		60	60

* 2 MW power generated from incineration of spent wash.

(xii) List of Utilities:

S. No.	Description	Capacity		
		Existing	Proposed	Total after Expansion
1	Bagasse Fired Boiler	2 x 32 TPH	1 x 32 TPH	3 x 32 TPH*
2	Bagasse/Coal Fired Boiler		1 x 130 TPH	1 x 130 TPH
3	Coal/Conc. Spent Wash Boiler		1 x 20 TPH	1 x 20 TPH
4	DG Sets*	2 x 375 KVA 1 x 500 KVA	1 x 1000 KVA	2 x 375 KVA 1 x 500 KVA 1 x 1000 KVA

* Shall be kept as standby after installation of 1 x 130 TPH bagasse/coal fired boiler

**DG sets will be used during load shut down

Note: The boiler shall use bagasse / coal as fuel. Coal is used as fuel during off season

EAC has deliberated on the proposal. EAC has noted that the PP has obtained a TOR vide letter dated 07.11.2012 and the present proposal is fresh application for TOR. The committee has rejected the PPs proposal regarding collection of baseline data from October- December, 2016. EAC desired that the PP shall collect the baseline data based on the discussion and decision of the committee.

EAC after detailed deliberation has recommended the project for Standard TOR with Additional TOR along with public hearing, for preparation of EIA/EMP report.

Additional TOR

1. Public hearing shall be conducted as per the provision of the EIA Notification, 2006.
2. Zero Liquid Discharge shall be ensured.
3. PP shall explore the feasibility of reducing the water usage by 5 KL/KL of alcohol.
4. Atleast 5 % of the project cost shall be earmarked for Enterprises Social Commitment (ESC). ESC plan for five years with facilities like Drinking water (RO), LED/solar panel, Computer/smart class, to the nearby villages shall be submitted.
5. Green belt of atleast 10 m width shall be developed around the periphery of the unit with perennial native trees. 33 % of the unit area shall be developed as green area with trees.
 1. Details of tree plantation programme for planting of 1000 trees/year (fruit bearing, Neem, Kadamba etc.) for five year in the nearby three identified villages.
 6. Baseline data shall be collected as per the observations of the committee.

22.7.6 **Establishment of new Molasses/Grain Based Distillery (120.0 KLPD) & Co Gen Power (3.0 MW) at Village: Hakimpur, PO: Nandganj, District: Ghazipur Uttar Pradesh by M/s Lords Distillery Limited [IA/UP/IND2/63478/2017, J-11011/150/2017-IA.II(I)]**

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

- (i). The project involves Establishment of new Molasses/Grain Based Distillery (120.0 KLPD) & Co Gen Power (3.0 MW) at Village: Hakimpur, PO: Nandganj,

District: Ghazipur Uttar Pradesh by M/s Lords Distillery Limited.

- (ii). All Molasses based distillery 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).
- (iii). Industry will develop Greenbelt in an area of 33 % i.e.2.13Ha out of 6.482Ha of area of the project.
- (iv). The estimated project cost is Rs125. Crore. Total capital cost earmarked towards environmental pollution control measures is Rs1800.0 Lakhs and the Recurring cost (operation and maintenance) will be about Rs150.0 Lakh per annum. It is proposed to operate the unit for 330 days.
- (v). Total Employment will be 55 persons as direct & 100 person indirect after expansion. Industry proposes to allocate Rs 312.5 Lakhs @ of 2.5% towards Corporate Social Responsibility.
- (vi). No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, wildlife Corridors etc. lies within 10 km distance. River Ganga is flowing at a distance of 6.22 km in south direction.
- (vii). Total water requirement is 3230.0 m³/day of which fresh water requirement for molasses based operation is 1152.0 m³/day and 1080.0 m³/day for grain based operation of m³/day and will be met from ground water.
- (viii). Spent wash from proposed distillery will be treated through :
 - a. Molasses based operation: Spent wash first concentrated in MEE and the MEE reject will be incinerated in Slop fired Boiler of capacity 35.0 TPH.
 - b. Grain based operation: Spent wash from the bottom of the column will be fed to decanter. Centrifuge decanter for separation of suspended Solid from Spent Wash (SLOP). Supernatant from the decantation process will be concentrated in MEE and the reject from MEE (Thick Syrup) will be mixed with Wet Cake of Decanter, then dried in DWGS dryer and Dried Solid will be sold off as cattle feed. Plant will be based on Zero Liquid discharge system.
- (ix). Power requirement will be 2200 KWH will be met from Uttar Pradesh State power Distribution Corporation limited. Proposed distillery has proposed 02 No DG sets of 500.0 KVA capacity, will be used as standby during power failure. Stack height will be provided as per CPCB norms to the proposed DG sets.
- (x). Existing unit has 35.0 TPH Slop / bagasse fired boiler will be installed. Bag filters with a stack of height of 80 m will be installed for controlling the particulate emissions (within statutory limit of 150.0 mg/Nm³) for proposed 35.0 TPH Slop / Bagasse fired boilers respectively.

EAC has deliberated on the proposal. **EAC after detailed deliberation has recommended the project for Standard TOR with Additional TOR along with public hearing, for preparation of EIA/EMP report.**

Additional TOR

2. Public hearing shall be conducted as per the provision of the EIA Notification, 2006.
3. Water balance should be maintained to ensure water consumption 5kl/kl.
4. Zero Liquid Discharge shall be ensured.
5. PP shall explore the feasibility of reducing the water usage by 5 KL/KL of alcohol.
6. At least 2.5 % of the project cost shall be earmarked for Enterprises Social

	<p>Commitment (ESC). ESC plan for five years with facilities like Drinking water (RO), LED/solar panel, Computer/smart class, to the nearby villages shall be submitted.</p> <p>7. Green belt of atleast 10 m width shall be developed around the periphery of the unit with perennial native trees. 33 % of the unit area shall be developed as green area with trees.</p> <p>8. Details of tree plantation programme for planting of 1000 trees/year (fruit bearing, Neem, Kadamba etc.) for five year in the nearby three identified villages.</p>
--	---

22.7.7	<p>Manufacturing of Organic chemicals at Survey No. 316, Navagam Bhavnagar-Sihorroad, Village: Navagam, (Kardej) 364001, Taluka: Bhavnagar, Dist: Bhavnagar, Gujarat by M/s Arvee Laboratories (India) Pvt. Ltd. - Reconsideration of TOR - reg. [IA/GJ/IND2/61830/2017, J-11011/26/2017-IA.II(I)]</p> <p>The project proponent and the accredited consultant M/s San Envirotech Pvt. Ltd., Ahmedabad made a detailed presentation on the proposal and informed that:</p> <ol style="list-style-type: none"> (i). The proposal is for expansion of Organic chemicals (specialty chemicals) at Survey No. 316, Navagam Bhavnagar-Sihor road, Village: Navagam, (Kardej) 364001, Taluka: Bhavnagar, Dist: Bhavnagar, Gujarat by M/s Arvee Laboratories (India) Pvt. Ltd. (ii). Existing unit has not obtained Environmental Clearance as Project was established before EIA Notification, 2006. (iii). Existing land area is 7183 m². Proposed expansion will be carried out in the same plant premises. No additional land will be required for the proposed expansion. (iv). The total Cost of the project for the expansion is Rs. 70.0 Crores. Capital cost for Environmental Protection Measures will be Rs. 9.0 crores and Recurring Cost will be Rs. 1.0 crores/annum. (v). Industry will develop Greenbelt in an area 33% i.e. 2370 m². (vi). No National parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Khodiyar dam is at a distance of 3.3 km. Gulf of Cambay is 22.0 km away from the project boundary. (vii). Ambient air quality monitoring will carried out at 8 Locations during March 2017 to May 2017 for applicable parameters. (viii). Total water requirement is 151.5 m³/day of which fresh water requirement of 54.5 m³/day and 97 m³/day will be recycled water. (ix). Total industrial w/w generation will be tune around 84.0 KLD; which will be treated in ETP and finally evaporated in MEE to achieve zero discharge (ZLD). Condensate of MEE will be reused. (x). Total Power requirement will be 1800 kVA [300 kVA (Existing) + 1500 KVA (Proposed)], which will be fulfilled by PGVCL. (xi). Existing unit has 5 TPH 1 No. Coal/ Lignite/Agro waste-Agro-briquettes fired boiler with Multi Cyclone Dust Collector as APCM. Additionaly, unit has one Thermic fluid heater with capacity of (2 Lac Kcal/hr.) (xii). After expansion, unit will install one Thermic fluid heater with capacity of (4 Lac Kcal/hr.). (xiii). Unit has one existing process vent and three will be added after expansion. All vents will have Alkali scrubber as APCM with 11 m stack height. (xiv). Following are the list of existing & proposed products: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Sr. No.</th> <th rowspan="2">Name of product</th> <th colspan="3">Quantity (MT/month)</th> </tr> <tr> <th>Existing</th> <th>Proposed addition</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td colspan="5">Isophthalic Acid derivatives</td> </tr> </tbody> </table>	Sr. No.	Name of product	Quantity (MT/month)			Existing	Proposed addition	Total	Isophthalic Acid derivatives				
Sr. No.	Name of product			Quantity (MT/month)										
		Existing	Proposed addition	Total										
Isophthalic Acid derivatives														

1.	Dimethyl 5- Sodio sulfo Isophthalate	30	325	390
2.	5-Sodiosulfo Isophthalic Acid (Na-SIPA)	20		
3.	5-Lithosulfo Isophthalic Acid (Li-SIPA)	00		
4.	5-Hydroxy Isophthalic Acid (5-HIPA)	05		
5.	5-Sodio Sulpho-bis-(B-Hydro Xyethyl) Isophthalate (Na-SIPHE)	00		
6.	5-Nitro Isophthalic Acid (5-NIPA)	00		
7.	Dimethyl 5-Nitro Isophthalate (DM 5-NIPA)	00		
8.	Mono Methyl 5-Nitroisophthalic Acid (MM 5-NIPA)	05		
9.	5-Amino Isophthalic Acid (5-AIPA)	05		
10.	Dimethyl 5-Amino Isophthalic Acid (DM-5-AIPA)	00		
11.	5-Amino Tri Iodo Isophthalic Acid (ATIPA)	00		
12.	5-Amino Tri Iodo Dichloride	00		
13.	5-Lithio Sulpho-bis-(B-Hydro Xyethyl) Isophthalate (Li-SIPHE)	00		
14.	5-Amino N-N-Bis(2-3 Dihydroxy Propyl) Isophthalamide HCl (ABA-HCl)	00		
15.	5-Amino N-N-Bis(2-3 Dihydroxy Propyl) 2,4,6 TriIodo Isophthalamide (ABATRIIODO)	00		
16.	5-Acetylamino N-N-Bis(2-3 Dihydroxy Propyl) 2,4,6 TriIodo Isophthalamide (ACETRIIODO)	00		
Benzoic Acid Derivatives				
17.	3,5 Di Nitro Benzoic Acid (DNBA)	00	65	65
18.	3,5 Di Amino Benzoic Acid (DABA)	00		
19.	2-Chloro 5-Nitro Benzoic Acid	00		
20.	4-Chloro 3,5 Di Nitro Benzoic Acid (4Cl DNBA)	00		
21.	4-Chloro 3,5 Di Amino Benzoic Acid (4Cl DABA)	00		
22.	4-Chloro 3,5 Di Amino Benzoic Acid Isobutyl Ester (4Cl DABA)	00		
23.	3 Sulpho Benzoic Acid Sodium Salt	00		
Thiopene Derivatives				
24.	Thiopene 2-Aldehyde	05	10	30
25.	Thiopene 2-Acetyl	05		
26.	Thiopene 2-Methanol	05		
27.	Thiopene 2-Carbo Oxalyic Acid	05		
28.	4-Amino Pyridine (4AP)	00	05	05
29.	Bromo benzene	00	10	10
Total		85	415	500
By Products				
1.	Sodium Nitrate solution	00	22	22
2.	Hydrochloric Acid 25%	00	4.16	4.16
3.	Aluminium chloride solution	00	34	34
4.	Sulfuric Acid (50 to 70%)	70	670	740

5.	HBr Solution	00	28	28
6.	Sodium Bisulphate Solution	00	8.5	8.5
7.	Acetic Acid	00	19.0	19.0
8.	IBA	00	6.0	6.0
Total		70	791.66	861.66

EAC has deliberated on the proposal. EAC has considered the request of the PP for collection of baseline data from March, 2017 onwards.

EAC after detailed deliberation has recommended the project for Standard TOR with Additional TOR along with public hearing, for preparation of EIA/EMP report.

Additional TOR

1. Public hearing shall be conducted as per the provision of the EIA Notification, 2006.
2. Zero Liquid Discharge shall be ensured.
3. Atleast 5 % of the project cost shall be earmarked for Enterprises Social Commitment (ESC). ESC plan for five years with facilities like Drinking water (RO), LED/solar panel, Computer/smart class, to the nearby villages shall be submitted.
4. Green belt of atleast 10 m width shall be developed around the periphery of the unit with perennial native trees. 33 % of the unit area shall be developed as green area with trees.
9. Details of tree plantation programme for planting of 1000 trees/year (fruit bearing, Neem, Kadamba etc.) for five year in the nearby three identified villages.
5. Coal with sulphur content less than 0.5 % shall be used. PP shall explore the feasibility of using agro waste/briquettes in place of coal/lignite.

22.7.8

Expansion in existing manufacturing activity by M/s Kundan Pesticem Pvt. Ltd. at Plot No. 3730-31-32, Phase IV, Behind Nirma's New factory, Phase IV, GIDC Estate, Vatva, Ahemdabad, Gujarat.- Terms of Reference [IA/GJ/IND2/63171/2017, J-11011/127/2017-IA-II(I)]

The project proponent and the accredited consultant M/s Bhagwati Enviro Care Pvt Ltd., Ahmedabad made a detailed presentation on the proposal and informed that:

- (i) The project involves expansion in existing manufacturing activity by M/s Kundan Pesticem Pvt. Ltd. at Plot No. 3730 - 31 - 32, -Phase IV, Behind Nirma's New factory, Phase IV, GIDC Estate, Vatva, Ahemdabad, Gujarat.
- (ii) All Pesticides industry and pesticide specific intermediates (excluding formulations) are listed at S.N. 5(b) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) The existing and proposed product and Capacities are:-

S. No.	Name of Product	Quantity in MT /M		
		Existing	Proposed	Total After Expansion
1	Copper Oxychloride	10	100	110

- (iv) The unit was established before EIA notification,2006 and EC was not applicable to the unit. PP have obtained required permission from State Pollution Control Board (CTE & CCA).
- (v) The total plot area is 2934.15 Sq. meter. No additional area required for

proposed project, expansion in existing Plant.

(vi) List of Raw Materials:-

Sr. No.	Name of product	Capacity TPM	Name of R.M.	Raw Material Consumption	
				MT /MT of Product	MT per Month
1	Copper Oxochloride	10 + 100 =110	Copper Scarps	0.510	56.1
			Calcite Powder	0.500	55.0
			China Clay	0.035	3.85
			Dispersing Agent	0.025	2.75
			Hydrochloric Acid	2.000	220.0

Water Consumption & Wastewater Generation

	Water Consumption In KL /Day			Effluent Generation in KL /Day		
	Existing	Proposed	Total After Expansion	Existing	Proposed	Total After Expansion
Domestic	0.5	0.5	1.0	0.5	0.5	1.0
Industrial						
Process	2.0	3.5	5.5	2.0	10.5	12.5
Process Washing	1.0	6.3	7.3	1.0	9.6	10.6
Plant washing	2.0	-1.0	1.0	2.0	-1.0	1.0
Gardening	0.0	0.5	0.5	0.0	0.0	0.0
Total	5.5	9.8	15.3	5.5	19.6	25.1

(vii). Domestic effluent@ 1.0 KLPD is discharged through Septic tank/soak pit.

(viii). Industrial effluent 24.1 KLPD will be treated in Effluent Treatment Plant and finally it will be discharged to CETP, Vatva for further treatment as well as for final discharge.

(vii) Power requirement: 475 KVA, The Source of power is Torrent Power.

(viii) There is no boiler, Hot Air generator, TFH in the unit. PP had dismantled existing Hot Air Generator & installed new electric dryer of capacity 2.5 MT x 04 =10 MT. PP is using electrical dryer for drying activity. There will be no process emission from our proposed manufacturing activity.

(ix) The cost of the project is 20 lacs.

EAC has deliberated on the proposal. The committee noted that the unit is located in the Industrial area.

EAC after detailed deliberation has recommended the project for Standard TOR with Additional TOR alongwith public hearing, for preparation of EIA/EMP report.

Additional TOR

1. Atleast 5 % of the project cost shall be earmarked for Enterprises Social

	<p>Commitment (ESC). ESC plan for five years with facilities like Drinking water (RO), LED/solar panel, Computer/smart class, to the nearby villages shall be submitted.</p> <ol style="list-style-type: none"> 2. Green belt of atleast 10 m width shall be developed around the periphery of the unit with perennial native trees. 33 % of the unit area shall be developed as green area with trees. 3. No ground water shall be used for the proposed project 4. Permission for CETP shall be submitted. 5. Details of tree plantation programme for planting of 1000 trees/year (fruit bearing, Neem, Kadamba etc.) for five year in the nearby three identified villages. 6. Public hearing shall be conducted as per provisions of the EIA Notification, 2006.
--	--

22.7.9	<p>Bulk Drug Intermediates manufacturing unit at Sy. No. : 173/B1, Obulapuram Village, D. Hirehal Mandal, Anantapur District, Andhra Pradesh by M/s Clarus Chem Pvt. Ltd. -Terms of Reference[IA/AP/IND2/63298/2017, J-11011/144/2017-IA.II(I)]</p> <p>The project proponent and the accredited consultant M/s Rightsource industrial Solutions Pvt. Ltd., made a detailed presentation on the proposal and informed that:</p> <ol style="list-style-type: none"> (i) The proposal is for proposed Bulk Drug Intermediates manufacturing Unit at Sy No: 173/B1, Obulapuram Village, D.Hirehal Mandal, Anantapur District, Andhra Pradesh. by M/S Clarus chem Private Limited. (ii) All Synthetic organic chemicals industry located outside the notified industrial area/ estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). (iii) It is Green field project. (iv) The Proposed land area is 6.2 Acres/25099.63 Sq.m, (v) Industry will be developed Greenbelt in an area of 33% i.e 2.22 Acres out of 6.2 Acres of area of the project. (vi) The estimated proposed project cost is Rs. 5.20 Crores. (vii) No national parks, wildlife sanctuaries Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10km distance from the project site. Tungabhadra High Level Canal is flowing at a distance of 9.1 kms in NE direction. (viii) The total water requirement is 62 m³/day of which fresh water requirement of around 44 m³/day will be met from ground water sources. (ix) Generated effluent of 24.50 m³/day will be treated through stripper followed by MEE/ATFD, Biological Treatment Plant followed by RO plant will be based on Zero Liquid Discharge System. (x) Power requirement for proposed project will be 500 KVA and will be met from APSPDCL. DG set of 350KVA capacity; Stacks (height 10 mts) will be used as standby during power failures. (xi) 1.0 TPH & 2.0 TPH coal fired boilers are proposed for the new unit with a stack of height of 30 mtr each, Multi cyclone separator/ bag filter will be installed for controlling the particulate emissions (within statutory limit of 115 mg/ Nm³). (xii) Details of Process emissions generation and its management. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>S. No.</th> <th>Name of the Gas</th> <th>Quantity In Kg/Day</th> <th>Treatment Method</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon dioxide</td> <td>14</td> <td>Dispersed into the atmosphere</td> </tr> <tr> <td>2</td> <td>Sulphur dioxide</td> <td>272</td> <td>Scrubbed by using Caustic Lye Solution</td> </tr> </tbody> </table>	S. No.	Name of the Gas	Quantity In Kg/Day	Treatment Method	1	Carbon dioxide	14	Dispersed into the atmosphere	2	Sulphur dioxide	272	Scrubbed by using Caustic Lye Solution
S. No.	Name of the Gas	Quantity In Kg/Day	Treatment Method										
1	Carbon dioxide	14	Dispersed into the atmosphere										
2	Sulphur dioxide	272	Scrubbed by using Caustic Lye Solution										

3	Hydrogen chloride	372	Scrubbed by using chilled water media
4	Oxygen	7	Dispersed into the atmosphere

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

S. No	Name of the Hazardous/Solid Waste	Quantity	Disposal Method
1	Organic waste (Process Residue)	50 Kgs/Day	Sent to Cement Industries
2	Spent Carbon	25 Kgs/Day	Sent to Cement Industries
3	Solvent Distillation Residue	286 Kgs/Day	Sent to Cement Industries
4	Inorganic Waste	25 Kgs/Day	Sent to TSDF
5	MEE Salts	610 Kgs/Day	Sent to TSDF
6	ETP Sludge	150 Kgs/Day	Sent to TSDF
7	Used Oils	250 Ltrs/Annum	SPCB Authorized Agencies for Reprocessing/Recycling
8	Container liners	350 No's / Month	After Detoxification sent to SPCB Authorized agencies
9	Used Lead Acid Batteries	2 No's/ Annum	Send back to suppliers for buyback of New Batteries
10	Ash from boiler	3525 Kgs/Day	Sent to Brick Manufacturers

(xiv) List of Proposed Products And Capacities:

S. No	Product Name	Quantity in Kg/Month
1	1-(2,3 Dichlorophenyl)piperazine Hydrochloride (Aripiparazol Intermediate)	6000
2	1-(4-Methoxy-Phenyl)-4-(4-Nitro-Phenyl)-Piperazine(Itraconazole Intermediate)	6000
3	1-Acetyl-4-(Hydroxy Phenyl) Piperazine(Itraconazole Intermediate)	6000
4	4-Phenyl butanol (Intermediate for Salmترول)	2000
5	5-Cyano Phthalide (Citalopram Intermediate)	5000
6	Bis (2-chloroethyl) amine Hydrochloride (Itraconazole Intermediate)	6000
7	Diphenyl (Piperidin-4-yl) Methanol (Fexofenadine intermediate)	6000
8	n-Acetyl Piperzine(organic chemical)	2000
9	N-Methyl-1-Napthalenemethylamine Hydrochloride(Terbinafine Hydrochloride)	6000

	Total	45000
22.7.10	<p>EAC has deliberated on the proposal. EAC after detailed deliberation has recommended the project for Standard TOR with Additional TOR along with public hearing, for preparation of EIA/EMP report.</p> <p><u>Additional TOR</u></p> <ol style="list-style-type: none"> 1. Public hearing shall be conducted as per the provision of the EIA Notification, 2006. 2. Zero Liquid Discharge shall be ensured. 3. Atleast 2.5 % of the project cost shall be earmarked for Enterprises Social Commitment (ESC). ESC plan for five years with facilities like Drinking water (RO)/LED/solar panel/street light/Computer/smart class, to the nearby villages shall be submitted. 4. Green belt of atleast 10 m width shall be developed around the periphery of the unit with perennial native trees. 33 % of the unit area shall be developed as green area with trees. 5. Details of tree plantation programme for planting of 1000 trees/year (fruit bearing, Neem, Kadamba etc.) for five year in the nearby three identified villages. 6. Coal with sulphur content less than 0.5 % shall be used. 7. Permission from concerned authority shall be obtained for ground water extraction. 	<p>Installation of IndJet unit at Barauni Refinery at Barauni Refinery Begusarai, Bihar by M/s Indian Oil Corporation Limited- Terms of Reference[IA/BR/IND2/63765/2017, J-11011/15/2015-IA.II(I)]</p> <p>The project proponent and the accredited consultant M/s Engineers India Limited made a detailed presentation on the proposal and informed that:</p> <ol style="list-style-type: none"> (i) The project involves installation of IndJet unit at Barauni Refinery at Barauni Refinery Begusarai, Bihar by M/s Indian Oil Corporation Limited. (ii) All Petroleum refining industry projects are listed at S.N. 4(a) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC). (iii) IndJet project is coming up within the refinery land and no additional land is required. (iv) Raw Material: Straight run Kerosene from Atmospheric and Vacuum Distillation Units (AVUs). (v) Additional raw water requirement for project is 2 m³/hr. The water shall be within allocated quantity approved to refinery. (vi) The additional power requirement is 1.01 MW. The requirement will be met from power generated from refinery. (vii) Additional fuel gas consumption will be 0.136 MT/hr. (viii) The technology is developed in-house by IOCL R&D in partnership with M/S EIL and BR will be the first demonstration unit. This low temperature & low pressure hydrotreatment process which selectively removes mercaptans from ATF while minimizing removal of other sulphur compounds. The process uses Indian Oil R&D developed hydrotreating catalyst. ATF feed is mixed with Hydrogen and is heated to a reaction temperature through a network of heat exchangers before entering the fixed bed downflow

- reactor in presence of hydrotreating catalyst. The reactor effluent is then fed to the stripper. Process is low severity operation which selectivity removes mercaptans to <10 ppm with H₂ consumption of 300-700 ppm. The product ATF passes through sand filter, salt dryer and clay filter before sending to storage.
- (ix) There will be additional 1.7 MT spent catalyst generation after every 3 years of operation which will be disposed to authorized recyclers.
 - (x) The capital cost of the project is Rs. 144.33 Crores.
 - (xi) No forests, wild life sanctuaries, protected area are located around the refinery and within 10 km radius. River Ganga is located at a distance of about 8 km away from the refinery.
 - (xii) Barauni Refinery proposes for exemption of Public Hearing as there is no significant impact on environment due to the proposed project.
 - (xiii) The proposed products/capacities of IndJet project of Barauni Refinery is given below:
 - a. 250 KTA of ATF
 - b. 75 KTA of PCK
 - (xiv) Previous Environmental Clearances issued to Barauni refinery is as follows:

Sl No	Environmental Clearances	Environmental Clearance MoEFCC Document No.	Date
1	MS Quality Up-gradation & HSD Quality Up-gradation (BS-IV Project), Replacement of reactors & allied modernization jobs of Coker A and Installation of Biturox Unit	J-1101/15/2015 - IA II (I)	06.03.2017
2	MS & HSD Quality Up-gradation (BS-III) and HS Crude Maximization Project	J-1101/491/2007-IA II (I)	18.03.2008
3	Expansion of Barauni Refinery to 6.0 MMTPA with matching secondary processing facilities	J-1101/23/98 - IA II (I)	08.03.1999

EAC has deliberated on the proposal. EAC noted that the PP has obtained EC for the existing unit. After due diligence, the committee has exempted the public hearing under para 7 (ii) of EIA Notification, 2006. EAC has also considered the request of the PP to use the baseline data from March, 2017 onwards.

EAC after detailed deliberation has recommended the project for Standard TOR for preparation of EIA/EMP report. Public hearing is exempted under para 7 (ii) of EIA Notification, 2006.

22.7.11

Onshore Oil & Gas Exploratory Drilling (5 wells) and Testing of hydrocarbons in NELP IX Block: AA-ONN-2010/3 in Sadiya Area of Tinsukia district in the state of Assam by Oil India limited. [IA/AS/IND2/63434/2017, J-11011/147/2017-IA.II(I)]

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

- (i) The project involves Onshore Oil & Gas Exploratory Drilling and Testing of hydrocarbons in NELP IX Block: AA-ONN-2010/3 in Sadiya Area of Tinsukia district in the state of Assam by Oil India Limited.
- (ii) All the projects related to Offshore and Onshore Oil and Gas exploration, Development and Production are listed in S.No. 1(b) of Schedule of Environmental Impact Assessment (EIA) Notification, 2006 under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) This is a new project and proposed to drill 5 (five) exploratory wells.
- (iv) Nearly 3 ha (approx.) of agricultural land will be required temporarily for drilling of 1 no. of exploratory well.
- (v) About 50 Cum/day water for the operation (for a period of around 4-5 months per well) will be met by drilling tube-wells at the drill site or by transporting water from nearby sources.
- (vi) Nearly 3.5KLPD of HSD per DG Set will be used to meet the drilling and other requirement of power of nearly 1000KW of 2 units at a time.
- (vii) Exhaust gases generated due to combustion of nearly 3.5 KLPD of HSD will be discharged from mobile DG sets with stacks of appropriate heights.
- (viii) Drilling discharges will be stored in impervious pits and treated effluent, meeting discharge limits, will be recycled for operational use.
- (ix) No hazardous wastes will be generated.
- (x) Drilling discharges will be stored in impervious pits and treated effluent, meeting discharge limits, will be recycled for operational use.
- (xi) Drilling operation is a hazardous in nature. However, OIL has SOP for all the activities to be carried out which are in implementation.
- (xii) Project Cost: RS 74 Crore (approx.) per well. Estimated Project Completion Period: 5 Years.
- (xiii) The block area comprises of villages, suburban areas of Sadiya town, paddy fields, ponds/beels, rivers, reserve forest area. The identified drilling locations are falling on agricultural land area.
- (xiv) The project area lies in the catchment of River Brahmaputra. Two of the most important tributaries of Brahmaputra River namely Lohit River and Dibang River flow through the block area. Apart from those two major rivers other small rivers like Kundil, Balijan, Ghurmura etc. flows through the AA-ONN-2010/3 Block area.
- (xv) The block covers three Reserve Forests Hollogaon (3.71 Sq km), Sadiya Sation (West Block-4.51 Sq km) and part of Kukuramara (2.71 sq km of 3.65 sq km). Population density is light to medium.
- (xvi) The proposed locations are outside of the reserved forest area. No National Park/WLS/Eco-Sensitive Zone exist in the proposed project site.
- (xvii) The mighty Brahmaputra River has bounded the proposed site from the mainland of Assam. As there is no existing bridge over Brahmaputra, ferries are extensively in use for crossing the Brahmaputra river for accessibility to the area. However, the ongoing construction of the Dhola-Sadiya RCC bridge, the longest bridge in India (9.15km) is in final stage of completion and likely to be commissioned during the month of May,2017. Once the Dhola-Sadiya bridge is in operation, the project site can be accessed within one hour from Duliajan, the Field headquarter of Oil India Limited.
- (xviii) The nearest commercial railway station near the project site is at Tinsukia (60 Km) and the domestic airport is at Dibrugarh (90 Km). The NH 37 passes through the Northern boundary of the Block and continuing north, enters Arunachal Pradesh. National Highway 52 connects the Block area and Sadiya as a whole with Arunachal Pradesh.
- (xix) Co-ordinates of the Five Wells are as follows:

Loc Name	Longitude	Latitude
Sadiya-1	95°43' 4.831" E	27°51'38.197"N
Sadiya-2	95°42'35" E	27°51'44" N
Sadiya-3	95°42'40" E	27°51'32" N
Sadiya-4	95°43'09" E	27°51'42" N
Sadiya-5	95°43'05" E	27°51'53" N

(xx) Public Hearing for the proposed project has been requested for Exemption on the following grounds:

- a) Public Hearing in the same area of Tinsukia District was last carried out on 26.12.2016 including previous hearings on 08.07.2011, & 26.08.2011 in connection with OIL's E&P activities
- b) It is a disturbed area located at the proximity to the borders of two States- Assam & Arunachal Pradesh, conducting PH is difficult.

EAC has deliberated on the proposal. EAC noted that public hearing has been conducted by the PP earlier in the district during 26.12.2016. EAC has noted that, the site is located at the proximity to the borders of Assam & Arunachal Pradesh. As requested by the PP, considering the difficulty in conducting public hearing due to various disturbing factors, after due diligence, EAC has recommended to exempt the public hearing.

EAC after detailed deliberation has recommended the project for Standard TOR for preparation of EIA/EMP report. EAC has recommended for exemption from Public hearing.

22.7.12

Onshore Oil & Gas development drilling and production (16 exploratory and 73 development drilling wells) in Dibrugarh, Sibsagar, Assam and Charaideo districts under Moran, Moran Extension, Dholiya and some portion of Dumduma (Block A) PMLs by M/s Oil India Limited. [IA/AS/IND2/63512/2017, J-11011/156/2017-IA.II(I)]

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

- (i) The project involves Onshore Oil & Gas development drilling and production (16 exploratory and 73 development drilling wells) in Dibrugarh, Sibsagar, Assam and Charaideo districts under Moran, Moran Extension, Dholiya and some portion of Dumduma (Block A) PMLs by M/s Oil India Limited.
- (ii) All the projects related to Offshore and Onshore Oil and Gas exploration, Development and Production are listed in S.No. 1(b) of Schedule of Environmental Impact Assessment (EIA) Notification, 2006 under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
- (iii) Co-ordinates of the 89 Exploratory/Development Drilling Wells are:

Co-ordinates of the 16 Exploratory and 73 Development Drilling Locations (Total 89)

S. No.	Location No	Latitude	Longitude	Exploratory/ Development Wells
--------	-------------	----------	-----------	--------------------------------

1	1	27° 9'54.61"N	94°56'19.73"E	Exploratory Well
2	2	27° 8'10.54"N	94°56'1.96"E	Exploratory Well
3	3	27° 8'25.51"N	94°52'37.09"E	Exploratory Well
4	4	27° 8'9.55"N	94°53'35.06"E	Exploratory Well
5	7	27°11'14.67"N	94°48'39.90"E	Exploratory Well
6	9	27°12'25.55"N	94°52'52.81"E	Exploratory Well
7	10	27°13'53.09"N	94°51'29.23"E	Exploratory Well
8	11	27° 9'20.00"N	94°54'40.44"E	Exploratory Well
9	12	27°13'11.53"N	94°51'4.60"E	Exploratory Well
10	104	27° 11' 57.704" N	94° 52' 11.397" E	Exploratory Well
11	107	27° 12' 31.826" N	94° 51' 8.385" E	Exploratory Well
12	401	27° 11' 55.232" N	94° 55' 21.708" E	Exploratory Well
13	402	27° 12' 18.138" N	94° 55' 53.761" E	Exploratory Well
14	403	27° 12' 4.766" N	94° 54' 41.157" E	Exploratory Well
15	404	27° 11' 41.089" N	94° 54' 11.551" E	Exploratory Well
16	101	27° 16' 13.873" N	94° 54' 57.793" E	Exploratory Well
17	5	27°16'21.09"N	94°56'50.73"E	Development Well
18	6	27° 8'23.90"N	94°46'27.33"E	Development Well
19	8	27°13'9.51"N	94°53'33.30"E	Development Well
20	105	27° 12' 6.567" N	94° 50' 51.792" E	Development Well
21	106	27° 12' 53.836" N	94° 50' 52.443" E	Development Well
22	401	27° 12' 28.695" N	95° 0' 37.581" E	Development Well
23	402	27° 13' 26.109" N	95° 0' 58.468" E	Development Well
24	501	27°16'54.62"N	94°49'22.77"E	Development Well
25	502	27°12'4.94"N	94°49'2.52"E	Development Well
26	503	27° 8'2.16"N	94°48'57.48"E	Development Well
27	504	27° 6'0.63"N	94°48'59.10"E	Development Well
28	505	27° 7'32.70"N	94°54'4.24"E	Development Well
29	506	27° 5'38.25"N	94°57'54.50"E	Development Well
30	507	27° 1'12.03"N	94°58'24.56"E	Development Well
31	508	27° 4'35.49"N	94°55'59.29"E	Development Well
32	509	27°13'35.78"N	94°54'44.34"E	Development Well
33	510	27°12'11.92"N	94°58'6.27"E	Development Well
34	511	27° 2'57.21"N	95° 1'41.46"E	Development Well
35	244	27°11'53.31"N	94°51'17.81"E	Development Well
36	248	27°12'41.66"N	94°50'44.32"E	Development Well
37	249	27°12'1.29"N	94°52'1.92"E	Development Well
38	251	27°10'17.02"N	94°54'26.20"E	Development Well
39	252	27°10'0.53"N	94°55'11.55"E	Development Well
40	253	27° 9'24.41"N	94°54'32.36"E	Development Well
41	254	27° 9'11.37"N	94°55'26.22"E	Development Well
42	255	27° 9'3.32"N	94°53'51.72"E	Development Well
43	256	27° 9'15.86"N	94°53'12.49"E	Development Well
44	257	27° 8'0.71"N	94°49'35.96"E	Development Well
45	258	27° 6'46.64"N	94°50'8.46"E	Development Well
46	259	27° 7'10.94"N	94°54'49.77"E	Development Well
47	260	27° 6'6.62"N	94°57'0.92"E	Development Well
48	261	27° 7'8.14"N	95° 0'47.35"E	Development Well
49	262	27° 7'49.40"N	95° 1'39.32"E	Development Well
50	263	27° 7'49.33"N	95° 0'47.02"E	Development Well
51	264	27° 6'47.59"N	95° 1'40.85"E	Development Well

52	265	27° 7'18.56"N	95° 0'16.41"E	Development Well
53	266	27° 7'48.75"N	95° 0'9.34"E	Development Well
54	267	27° 6'54.48"N	95° 0'9.11"E	Development Well
55	268	27° 6'42.62"N	95° 1'56.95"E	Development Well
56	269	27° 8'19.12"N	95° 1'55.06"E	Development Well
57	270	27°10'1.27"N	94°55'45.06"E	Development Well
58	271	27° 8'52.75"N	94°55'23.34"E	Development Well
59	272	27° 8'48.09"N	94°53'59.45"E	Development Well
60	273	27° 9'42.78"N	94°53'47.10"E	Development Well
61	274	27° 9'50.79"N	94°54'27.19"E	Development Well
62	275	27°10'11.84"N	94°54'13.43"E	Development Well
63	276	27° 9'33.08"N	94°53'57.15"E	Development Well
64	277	27° 9'33.64"N	94°53'40.44"E	Development Well
65	278	27°12'53.24"N	94°51'11.79"E	Development Well
66	279	27°12'25.28"N	94°51'8.54"E	Development Well
67	280	27°11'2.07"N	94°48'44.86"E	Development Well
68	281	27°11'25.12"N	94°48'26.97"E	Development Well
69	282	27°11'50.80"N	94°48'42.68"E	Development Well
70	283	27°16'2.56"N	94°50'6.36"E	Development Well
71	284	27°12'48.92"N	94°53'21.41"E	Development Well
72	285	27°12'3.04"N	94°52'54.37"E	Development Well
73	286	27°11'56.31"N	94°53'27.58"E	Development Well
74	287	27°12'20.54"N	94°53'30.68"E	Development Well
75	288	27°12'13.62"N	94°53'13.65"E	Development Well
76	289	27°11'56.94"N	94°53'8.76"E	Development Well
77	290	27°12'19.93"N	94°52'52.98"E	Development Well
78	291	27° 9'53.71"N	94°53'55.93"E	Development Well
79	292	27° 9'34.46"N	94°54'11.86"E	Development Well
80	293	27° 9'6.61"N	94°55'0.91"E	Development Well
81	294	27° 7'51.15"N	95° 1'57.92"E	Development Well
82	295	27° 9'28.36"N	94°54'26.25"E	Development Well
83	296	27° 9'11.82"N	94°54'17.19"E	Development Well
84	297	27°11'29.95"N	94°48'47.07"E	Development Well
85	298	27°11'1.92"N	94°48'29.61"E	Development Well
86	299	27° 8'57.92"N	94°46'30.08"E	Development Well
87	300	27° 8'22.90"N	94°46'55.06"E	Development Well
88	301	27° 8'25.30"N	94°45'55.98"E	Development Well
89	302	27° 7'55.60"N	94°46'20.72"E	Development Well

- (iv) Ministry had issued EC earlier vide letter no F.NO J-11011/ 1259/2007-IA II (I) dated 01.11.2011 for drilling of 2 Development and 6 Exploratory wells
- (v) Existing block area is 902 sq km consisting earlier area of 726 sq Km and additional area of 176 sq km.
- (vi) Project Proponent will develop Green belt in an area of 33 % i.e 100 Ha out of 310 Ha of total used area associated with drilling of 89 Development wells & 9 Production Installations
- (vii) The estimated project cost is Rs 3,074 crores
- (viii) Total Employment will be 20-30 unskilled persons per drilling well temporarily from the locality during execution of the Project. Industry proposes to allocate @ 2.5 % of the estimated project cost towards Corporate Social Responsibility.
- (ix) It is reported that as per Form-I, there is **NO** National Parks, Wildlife Sanctuaries,

	<p>Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc lies within 10 km distance of the block. Three major rivers namely Buridihing, Disang and Diroi are flowing through the block in North-South and East-West direction</p> <p>(x) Ambient Air Quality will be monitored as per NAAQS</p> <p>(xi) Total water requirement is 50 m³/day for Drilling locations and 20 m³/day for Production installations, of which fresh water requirement of 15 m³/day and will be met from deep tube well /River</p> <p>(xii) Effluent from Drilling locations and Production installations will be treated through ETP with an aim of Zero Liquid Discharge system</p> <p>(xiii) Power requirement for the Drilling Rig will be 1,200 KW and 216 KW for each Production Installations and will be met from Portable Acoustic DG Set and Stack height will be provided as per CPCB norms.</p> <p>(xiv) Process emissions generation will be negligible and fugitive emissions, if any, will be taken care through on-line gas monitoring device etc at Production installations</p> <p>(xv) Solid waste/ Hazardous waste generation at Production installations will be of negligible quantity and will be handled as per Hazardous Waste Management Rules, 2016.</p> <p>EAC has deliberated on the proposal. EAC after detailed deliberation has recommended the project for Standard TOR with Additional TOR along with public hearing, for preparation of EIA/EMP report. Public hearing shall be conducted in all the districts in which the drilling site is located.</p> <p><u>Additional TOR</u></p> <ol style="list-style-type: none"> 1. Recommendation of Standing Committee of NBWL shall be obtained, if applicable to the project. 2. Stage -1 Forest clearance shall be obtained, if applicable. 3. PP shall obtain permission from concerned authority (NBWL/FC), if pipeline or any other infrastructure/activity of the proposed project passes through Forest/Protected area./Eco-sensitive area.
--	--

22.8 Any other

22.8.1	<p>Addition of Kerosene Desulphurization section of capacity 500 TMT/Anumwith out changing the crude oil processing of capacity of 7.8 MMTPA of Refinery Debottlenecking project of existing (6 MMTPA to 7.8 MMTPA crude Processing) at village Agasode, Tehsil Bina, District Sagar, Madhya Pradesh by M/s Bharat Oman Refineries Limited (BORL) - EC Amendment - reg. [IA/MP/IND2/62848/2015, J-11011/135/2013-IA.II (I)]</p> <p>The project proponent gave a detailed presentation on the proposal and informed the following:-</p> <ol style="list-style-type: none"> (i) The project involves addition of Kerosene Desulphurization section of capacity 500 TMT/Annum with out changing the crude oil processing of capacity of 7.8 MMTPA of Refinery Debottlenecking project of existing (6 MMTPA to 7.8 MMTPA crude Processing) at village Agasode, Tehsil Bina, District Sagar, Madhya Pradesh by M/s Bharat Oman Refineries Limited (BORL). (ii) Proposed project is coming within the available refinery land and no additional land is required. Kerosene generated in the existing refinery shall be used as raw material for KHDS unit. (iii) Additional water requirement for the proposed modification is 0.7 MGD. However, this will be within the allocated quantity by Water Resource
--------	---

- Department of Govt. of Madhya Pradesh with BORL as approved for the 6 to 7.8 MMTA debottlenecking project.
- (iv) Additional power requirement shall be 0.7 MW. The requirement shall be met from power generation within refinery or imported from grid.
- (v) Additional fuel requirement is only 0.6 TPH which will be from the internal fuel generated in the refinery.
- (vi) Capital cost of the project: Rs 233 Crores, Estimated time of completion of project: 30 months
- (vii) No forests, wild life sanctuaries, protected/important historical or archaeological monument, hilly/mountainous areas, defence installations, airports are located around the refinery and within 10 km radius. The project is envisaged within the existing refinery land/premises (Govt. owned). The nearest water body (river Betwa) is located at a distance of about 5 km away from the refinery.
- (viii) BORL is operating 6 MMTPA of crude refinery. We have received the Environmental Clearance from MoEF for increasing the crude processing from 6.0 to 7.8 MMTPA through debottlenecking of process units viz CDU/VDU, MS Block, HGU, HCU, DHT, DCU and by adding new sulphur train and installing 8 new tanks. Environmental Clearance for the Debottlenecking Project was granted by MoEF on 12th May 2015. Currently this project is under implementation.

During detailed engineering of Debottlenecking Project, requirement of additional Kerosene Desulphurization Unit (KHDS) and two tanks has emerged. Inclusion of this unit will not affect the crude processing for which Environmental Clearance was granted. The Environmental Clearance is to be amended to include KHDS unit of 500 KTPA capacity and two storage tanks of 10623 KL each for storage of product.

Previous Environmental Clearances issued to BORL refinery is as follows:-

S No	Environmental Clearances	Environmental Clearance MoEF&CC Document No.	Date
1	6 MMTPA Grass Root Refinery	J-11011/21/94-IA.II(I)	16.02.1995
2	6 MMTPA Refinery with modified configuration	J-11011/21/94-IA.II(I)	20.03.2009
3	6 to 7.8 MMTPA Refinery Debottlenecking Project	J-11011/135/2013/IA II (I)	12.05.2015

EAC has deliberated on the proposal. EAC has noted that, due to the proposed project, no additional pollution load is added to the environment. EAC also noted that, there is no change in overall crude processing capacity.

EAC after detailed deliberation and after due diligence has recommended the project for Amendment in Environmental Clearance under the provisions of para 7(ii) of EIA Notification, 2006 , subject to compliance following conditions:

- i. PP shall maintain the existing green belt and green area in the unit premise.
- ii. Atleast 5 % of the project cost shall be earmarked for Enterprises Social Commitment (ESC). Facilities like Drinking water (RO)/LED/solar panel/street light/Computer/smart class, to the nearby villages shall be provided with ESC amount.
- iii. Details of tree plantation programme for planting of 1000 trees/year (fruit

	<p>bearing, Neem, Kadamba etc.) for five year in the nearby three identified villages. The status of plantation and survival rate of plants shall be reported to the RO, MoEF&CC in Six monthly compliance report.</p> <p>iv. Environment Management Cell with well-equipped laboratories shall be setup in the unit. A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant</p>
22.8.2	<p>Proposed Fine Chemical Intermediates Manufacturing Unit at Plot No. E-18, Taluka Mohol, Chincholi MIDC Area, District Solapur, Maharashtra by M/s OC Specialties Pvt. Ltd. - Correction in EC - reg. [IA/MH/IND2/63036/2017, J-11011/92/2015-IA.II (I)]</p> <p>The Project proponent vide letter dated 07.03.2017 has requested for correction in the EC letter dated 31st January, 2017.</p> <p>The PP has informed the following:</p> <ul style="list-style-type: none"> i. Ministry vide letter dated 31st January, 2017 has issued EC to the project 'Setting up of Fine Chemical Intermediates Manufacturing Unit at Plot No. E-18, Taluka Mohol, Chincholi MIDC Area, District Solapur, Maharashtra by M/s OC Specialties Pvt. Ltd'. ii. In the EC letter, it is mentioned that 'the total plot area is 8450 m², out of which, greenbelt will be developed in 2166.85 m². iii. PP requested that the green belt area shall be 1735 m², instead of 2166.85 m² as presented in the EAC meeting by the PP. <p>EAC has deliberated on the proposal. EAC noted that, as per EIA/EMP report, the greenbelt development is in an area of 2166.85 m². Considering the same and considering the importance of green belt area, EAC has rejected the proposal of PP for correction in EC.</p>
22.8.3	<p>Amendment in Environmental clearance for 40.0 KLD Molasses based distillery unit at vill-AbdulpurMunna, Tehsil Bijnor, District: Bijnor by M/s Jain Distillery - Amendment in EC - Reg. [IA/UP/IND2/63202/2007, J-11011/343/2006-IA.II (I)]</p> <p>The project proponent made a detailed presentation on the proposal and informed the following:-</p> <ul style="list-style-type: none"> (i) The project involves amendment in Environmental clearance for 40.0 KLD Molasses based distillery unit at vill-AbdulpurMunna, Tehsil Bijnor, District: Bijnor by M/s Jain Distillery. (ii) Ministry has issued EC to the existing project vide letter dated 5th September, 2007. (iii) As per existing EC, number of operating days is 270 days/per year. (iv) As per CPCB guidelines, covered shed in an area of 1.8 acre has been constructed for active bio-compost area, for operating the unit throughout the year. (v) Considering this, PP has requested for increase in number of operating days to 330 days per year. <p>EAC after detailed deliberations accepted the proposal subject to compliance of following conditions:</p> <ol style="list-style-type: none"> 1. Zero Liquid Discharge System to be adopted. 2. Rain water harvesting system to be installed.

	<p>3. 2.5% of the total project cost shall be earmarked for expenditure on Enterprises Social Commitment. Following activities shall be undertaken:</p> <p>4.</p> <ol style="list-style-type: none"> i. Planting of 1000 trees/year for five years in Three nearby identified villages. ii. Solar powered LED/LED light on the streets of Three nearby identified villages. iii. Drinking water facility with RO plant to be provided in each three identified villages.
22.8.4	<p>Distillery unit (40 KLPD) by M/s Mohit Petrochemicals Pvt. Ltd. at village Firojpur Hafij in Tehsir and District Bijour, Uttar Pradesh by M/s Mohit Petrochemicals Pvt. Ltd. – Amendment in EC - reg. [IA/UP/IND2/63262/2004, J 11011/247/2003-IA.II (I)]</p> <p>The project proponent made a detailed presentation on the proposal and informed the following:-</p> <ol style="list-style-type: none"> i. The project involves amendment in Environmental clearance for Distillery unit (40 KLPD) by M/s Mohit Petrochemicals Pvt. Ltd. at village Firojpur Hafij in Tehsir and District Bijour, Uttar Pradesh by M/s Mohit Petrochemicals Pvt. Ltd. ii. EC has been accorded by MOEF to the 40.0 KLD Distillery plant vide order no. J-11011/247/2003 – IA II (I) dated March 10, 2004. iii. The present proposal is request for increase in number of operational days of Distillery from 270 to 330 days iv. Covered shed in an area of 1.8 acre has been constructed for active bio-compost area, for operating the unit throughout the year, as per CPCB guidelines. <p>EAC has deliberated on the proposal. The committee noted that the existing EC of the PP is issued before the EIA Notification, 2006. After detailed deleberations the EAC accepted the amendment subject to compliance of following conditions:</p> <ol style="list-style-type: none"> 1. Zero Liquid Discharge System to be adopted. 2. 2. Rain water harvesting system to be installed. 3. 2.5% of the total project cost shall be earmarked for expenditure on Enterprises Social Commitment. Following activities shall be undertaken: <ol style="list-style-type: none"> i. Planting of 1000 trees/year for five years in Three nearby identified villages. ii. Solar powered LED/LED light on the streets of Three nearby identified villages. iii. Drinking water facility with RO plant to be provided in each three identified villages.
22.8.5	<p>Exploratory drilling of 67 wells of M/s Oil And natural Gas Corporation (ONGCL) in 23 blocks of Onshore Basin, Baroda, Gujarat – Amendment in EC - reg. [IA/GJ/IND/4977/2011, J-11011/431/2011-IA.II(I)]</p> <p>The project proponent made a detailed presentation on the proposal and informed the following:-</p>

- (i) The project involves exploratory drilling of 67 wells of M/s Oil and Natural Gas Corporation (ONGCL) in 23 blocks of Onshore Basin, Baroda, Gujarat.
- (ii) Earlier EC letter issued vide letter No. J-11011/431/2011-IA.II (I) dated 25.06.2014.
- (iii) All the 12 wells in the existing EC of 67 wells, falling in the Block Gandhar & Gandhar Ext- to XII, have already been drilled and produced a substantial quantity of Hydrocarbons. Subsequent re-interpretation of data has helped to identify more prospective areas in the above block. In view of above, it is requested for amendment in the existing EC of 67 wells so that exploratory drilling of two wells GGAS and GGAT may be taken up.
- (iv) The two high prospective locations viz: GGAS in Gandhar Ext. VI and GGAT in Gandhar Ext. III ML block is proposed to be taken up by dropping drilling of two wells granted in Pakhajan ML and Pakhajan Ext. I & II ML block.
- (v) In the existing EC, four locations are approved to be drilled under block Pakhajan ML and Pakhajan Ext. I & II.
- (vi) The firmed up well co-ordinates of the locations is as given below:-

S. No.	Name of the Well	Latitude	Longitude
1.	GGAS	21° 43' 33.66" N	72° 33' 8.61"E
2.	GGAT	21° 55' 01.238" N	72° 44' 48.838" E

- (vii) In existing EC no. J - 11011/431/2011-IA.II (I), dt: 25.06.2014, Public Hearing for the project was conducted by GPCB on 12.11.2013 for district Surat and 13.11.2013 for Vadodara district. Public hearing for Bharuch was exempted as per para 7 (iii) of EIA notification 2006.
- (viii) PP has submitted the certified compliance report from the Regional Office of Ministry issued vide no. 5-6/2014(ENV)/284 dated 16.08.2016, regarding compliance of conditions in the EC.

EAC has deliberated on the proposal. **EAC after detailed deliberation, and after due diligence under the para 7 (ii) of EIA Notification, 2006, has recommended for amendment in EC with change in location, subject to compliance of the following:**

- i. An undertaking with respect to the status of 67 wells, i.e whether wells are drilled or not.
- ii. An undertaking stating that the existing environmental settings are restored after drilling.

22.8.6 Proposal for petroleum product storage and dispatch facilities at Asoj Dumad and product pipeline from Gujarat refinery to Asoj Dumad by M/s IOCL in Tehsil - Vadodara, Gujarat - Amendment in EC - reg. [IA/GJ/IND2/63741/2001, J-11011/8/2001-IA.II (I)]

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

- (i) The project involves proposal for petroleum product storage and dispatch facilities at AsojDumad and product pipeline from Gujarat refinery to Asoj Dumad by M/s IOCL in Tehsil Vadodara, Gujarat.
- (ii) The proposed project is an amendment to existing Environmental Clearance. It is proposed to include 2 nos of additional tanks for ethanol storage (internal floating roof) within the existing terminal. The proposed tanks specification is given below:

S. No.	Material	Capacity (KL)	Type of Tank	Class	Diameter	Height
1	Ethanol (2 nos.)	1000	Internal Floating Roof	A	12.00 m	10.00 m

(iii) Previous Environmental Clearances issued to IOCL Vadodara Terminal is as follows:

S. No.	Environmental Clearances	Environmental Clearance MoEF&CC Document No.	Date	Compliance
1	Petroleum Storage and dispatch facilities	F. No. J-11011/8/2001 - IA II (I)	30/04/2001	Complied

(iv) Proposed Tanks are coming within the terminal and no additional land is required.
(v) There will be no additional water requirement for the terminal after post expansion. Additional 50 KVA is required and same will be sourced from Gujarat Electricity Board. The Capital cost of the project: Rs 5.3 Crores.

EAC has deliberated on the proposal. **EAC after detailed deliberation has recommended for amendment in the existing EC under Para 7 (ii) of EIA Notification, 2006.**

22.8.7 **Amendment in existing EC for Carbon black plant (1,20,000 TPA) to install a tail gas Flare System to improve the Process and Equipment Safety at Patalganga, Dist. - Raigah, Maharashtra by M/s SKI Carbon Black India Pvt. Ltd. [IA/MH/IND2/27746/2006, J-11011/35/2007-IA.II (I)]**

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

- (i) The project involves amendment in existing EC for Carbon black plant (1,20,000 TPA) to install a tail Gas Flare System to improve the Process and Equipment Safety at Patalganga, Dist. - Raigah, Maharashtra by M/s SKI Carbon Black India Pvt. Ltd.
- (ii) LP Gas Start up fuel – approx. 14kg, would be required during flare startup. Power requirement is negligible (1.0 kw) for Instrumentation and control of Burner.
- (iii) Project requirement is to install a Flare system at SKI Carbon Black (India) Pvt. Ltd., unit: Hi-tech Carbon Patalganga, to improve the Process and Equipment safety during Carbon Black production and Steam & Power generation from its Carbon Black and Power plant operations. As per current plant process flow, in the event of power plant equipment like boiler /turbine's sudden stoppage/failure, flow of tail gas (which is a by-produce of Carbon black manufacturing process) shall suddenly stop, which will lead to pressurizing of upstream gas supply line and bag house (carbon & tail gas filtration system). To overcome this, Gas line depressurizing and Reactors needs to be turn down immediately. To have improved safety in Reactors turn down process under emergency conditions and safe guarding the environment in the event of safety valve operation and releasing gases to environment, Flare shall be installed which can depressurize the system and burn the gases before venting them to atmosphere. Tail gas from process which in the current scheme of operation goes

in to boiler as fuel for steam and power generation will be diverted to Flare and the installation of the Flare System will be a process safety enhancement device which will come into operation only in emergency situations and will not be used on daily basis or on a permanent basis. The proposal to install the standby tail gas Flaring system at the Unit is more with the purpose to mitigate Process and environment hazards in emergency situations.

- (iv) There will be no additional impact on the environment with the proposed modification. As such, no mitigating measures are required. There is no expansion and capacity enhancement proposed with this project.
- (v) Estimated Capital cost is Rs. 1 Crore, Estimated completion time: 6 months.
- (vi) **Products and capacities:-**

Product	Capacity
Carbon Black	120000TPA

EAC has deliberated on the proposal and recommended for amendment in the existing EC under Para 7 (ii) of EIA Notification, 2006.

22.8.8 Expansion of bulk drugs & intermediate manufacturing unit-I alongwith CPP (3MW) at village Gunlamachanoor, Mandal Halnoor, district Medak, Andhra Pradesh by M/s Covalent Lab. Pvt. Ltd. - Amendment in EC - reg. [IA/TG/IND2/63797/2015, J-11011/375/2013-IA II (I)]

The project proponent and the accredited consultant M/s KKB Envirocare Consultants Pvt. Ltd., Hyderabad made a detailed presentation on the proposal and informed that:

- (i) The project involves expansion of bulk drugs & intermediate manufacturing unit-I alongwith CPP (3MW) at village Gunlamachanoor, Mandal Halnoor, District Medak, Andhra Pradesh by M/s Covalent Lab. Pvt. Ltd.
- (ii) Industry obtained its Environmental Clearance F. No. J-11011/375/2013-IA.II (I) dated 30-12-2015 to manufacture any 20 products at a time on campaign basis out of 65 products with total production capacity of 2400 TPA (200 TPM) along with 3 MW coal based CPP.
- (iii) The Public Hearing for this project was conducted on 04-12-2014.
- (iv) Industry obtained Consent for Establishment (CFE) vide order No. 01/TSPCB/CFE/RO-SR-I/HO/2016-1596 dated 29-09-2016 and Consent for Operation (CFO) vide order no. TSPCB/SRD/HO/CFO/2017-2861 dated 28-01-2017 valid upto 30-09-2021.
- (v) After the unit was put into operation in January 2017, it has come to the knowledge that the overall Steam Requirement was underestimated during the proposal submitted in 2014-15 for expansion by about 12 TPH. Hence, Proponent after thorough understanding of the requirement has proposed to request for Amendment to the Environmental Clearance from the MoEF&CC for the installation of an additional boiler of 20 TPH capacity with 2 MW Captive Power generation along with changes in the list of products i.e. dropping 20 products and revise individual production capacity of about 3 products thereby marginally increasing the overall production capacity and pollution load.
- (vi) *Products and capacities* - Application for Environmental Clearance (EC) amendment for additional boiler of 20 TPH with 2MW CPP with changes in the list of products i.e. dropping 20 products and revise individual production

capacity of about 3 products

List of Permitted Products with their capacities

Reference: EC order vide No. F. No. J- J-11011/375/2013-IA II (I) dated 30-12-2015

Sl. No.	Products	Quantity (Kg/Day)	Quantity (TPA)	Therapeutic Category / API Intermediate
1	Cefixime Trihydrate	2166.7	780	Antibiotic
2	Cefpodoxime Proxetil	333.3	120	
3	Cefuroxime Axetil	500	180	
4	Cefuroxime Sodium	66.7	24	
5	Ceftriaxone Sodium	500	180	
6	Cefpirome Sulfate	33.3	12	
7	Cefdinir Monohydrate	200	72	
8	Cefprozil Monohydrate	166.7	60	
9	Cefepime Dihydrochloride Monohydrate	33.3	12	
10	Cefuroxime Acid	100	36	Anti-Infective
11	Cefditoren Pivoxil	33.3	12	Antibiotic
12	Ceftibuten Monohydrate	66.7	24	Anti-Infective
13	Cefazoline Sodium	33.3	12	Anti-Infective
14	Cefoperazone Sodium	33.3	12	Antibiotic
15	Cefoxitin Sodium	16.7	6	
16	Ceftazidime Pentahydrate	16.7	6	
17	Cefotaxime Sodium	100	36	
18	Ceftizoxime Sodium	33.3	12	
19	Cephalothin Sodium	33.3	12	
20	Cefpodoxime Acid	33.3	12	Antibacterial
21	Cefcapene Pivoxil	26.7	9.6	Antibiotic
22	Cefmetazole Sodium	33.3	12	
23	Cefmetazole	33.3	12	
24	Meropenem	166.7	60	
25	Imipenem	66.7	24	Antibiotic
26	Cilastatin Sodium	66.7	24	
27	Ertapenem Sodium	33.3	12	
28	Doripenem Monohydrate	166.7	60	
29	Biapenem	33.3	12	
30	Faropenem Sodium	100	36	
31	Panipenem	33.3	12	
32	Tebipenem Pivoxil	3.3	1.2	
33	Darifenacin Hydrobromide	16.7	6	Anticholinergic
34	Solifenacin Succinate	16.7	6	Antimuscarinic
35	Tolterodine Tartrate	16.7	6	Antispasmodic
36	7-AVNA	166.7	60	Cefixime Intermediate
37	MEAT (Thio Ester)	166.7	60	Cefdinir Intermediate
38	7-APCA	100	36	Cefprozil Intermediate

39	7-Amino-3-(methoxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid (7-AMCA)	33.3	12	Cefpodoxime Proxetil Intermediate
40	7-Amino-3-thiazole cephalosporanic acid (7-ATCA)	66.7	24	Cefditoren Pivoxil Intermediate
41	Lacosamide	333.3	120	Anticonvulsant
42	Silodosin	66.7	24	Antagonist
43	Fingolimod Hydrochloride	66.7	24	Multiple Sclerosis
44	Cinacalcet Hydrochloride	333.3	120	Treatment of Hyperparathyroidism
45	Fexofenadine Hydrochloride	333.3	120	Antihistamine
46	Sitagliptin Phosphate	66.7	24	<u>Antidiabetic</u>
47	Prasugrel Hydrochloride	66.7	24	Anti-Hypertensive
48	Venlafaxine Hydrochloride	66.7	24	Anti-depressant
49	Pregabalin	66.7	24	Anti-Convulsant
50	Diacerein	66.7	24	Anti-inflammatory
51	Dronedarone Hydrochloride	333.3	120	Anti-arrhythmic
52	Linezolid	66.7	24	Antibiotic
53	Ropinirole Hydrochloride	66.7	24	Antidyskinetic
54	D-Cycloserine	66.7	24	Antituberculosis
55	Clopidogrel Hydrogen Sulfate	66.7	24	Anti-thrombotic
56	Bosentan	66.7	24	Anti-Hypertensive
57	Candesartan Cilexetil	66.7	24	Anti-Hypertensive
58	Deferasirox	333.3	120	Antidote
59	Febuxostat	66.7	24	Antigout
60	Azilsartan medoxomil	66.7	24	Anti-Hypertensive
61	Solifenacin Succinate	66.7	24	Antimuscarinic Agent
62	Darifenacin Hydrobromide	66.7	24	Anticholinergic
63	Trospium Chloride	66.7	24	Antispasmodic
64	Tolterodine Tartrate	66.7	24	Antimuscarinic Agent
65	Valsartan	66.7	24	Anti-Hypertensive
Maximum Production on various combinations (any 20 products at a time on campaign basis)		6666.7	2400	
Captive Power Generation		3 MW		

Permitted By- Products from APIs & API Intermediates

S.No.	By-Product	TPA	By product from the product
1.	Triphenylphosphine oxide	565.5	Cefixime Trihydrate
		159.94	Cefdinir Monohydrate

		62.4	Cefprozil Monohydrate
		17.16	Cefditoren Pivoxil
		4.2	Ceftazidime Pentahydrate
		88.78	7-AVNA
		60.0	MEAT (Thio Ester)
		52.94	7-APCA
		34.32	7-Amino3-thiazole cephalosporanic acid (7-ATCA)
2.	2-Mercaptobenzothiazole	280.8	Cefixime Trihydrate
		57.6	Cefpodoxime Proxetil
		3.84	Cefpirome Sulfate
		88.46	Cefdinir Monohydrate
		3.6	Cefepime Dihydrochloride Monohydrate
		6.0	Cefditoren Pivoxil
		4.8	Ceftazidime Pentahydrate
		100.8	Cefotaxime Sodium
		6.0	Ceftizoxime Sodium
		6.47	Cefpodoxime Acid
		36.36	MEAT (Thio Ester)
3.	Sodium Acetate	549.82	Cefuroxime Axetil
4.	Mixed Solvent (Ethanol≈50%, Cyclohexane≈6%, Ethyl Acetate ≈1% &Water≈43%)	621.82	

List and Quantities of the Proposed and retained permitted Products and its status:-

Sl. No.	Products	Permitted Quantity (TPA)	Proposed Quantity (TPA)	Status
1	Cefixime Trihydrate	780	1100	Increased
2	Cefpodoxime Proxetil	120	300	Increased
3	Cefuroxime Axetil	180	300	Increased
4	Cefuroxime Sodium	24	24	Retained
5	Ceftriaxone Sodium	180	180	Retained
6	Cefpirome Sulfate	12	12	Retained
7	Cefdinir Monohydrate	72	72	Retained
8	Cefprozil Monohydrate	60	60	Retained
9	Cefepime Dihydrochloride Monohydrate	12	12	Retained
10	Cefuroxime Acid	36	36	Retained
11	Cefditoren Pivoxil	12	12	Retained
12	Ceftibuten Monohydrate	24	24	Retained
13	Cefazoline Sodium	12	12	Retained
14	Cefoperazone Sodium	12	12	Retained
15	Cefoxitin Sodium	6	6	Retained
16	Ceftazidime Pentahydrate	6	6	Retained
17	Cefotaxime Sodium	36	36	Retained

18	Ceftizoxime Sodium	12	12	Retained
19	Cephalothin Sodium	12	12	Retained
20	Cefpodoxime Acid	12	12	Retained
21	Cefcapene Pivoxil	9.6	10	Retained
22	Cefmetazole Sodium	12	12	Retained
23	Cefmetazole	12	12	Retained
24	Meropenem	60	-	Dropped
25	Imipenem	24	-	Dropped
26	Cilastatin Sodium	24	-	Dropped
27	Ertapenem Sodium	12	-	Dropped
28	Doripenem Monohydrate	60	-	Dropped
29	Biapenem	12	-	Dropped
30	Faropenem Sodium	36	-	Dropped
31	Panipenem	12	-	Dropped
32	Tebipenem Pivoxil	1.2	-	Dropped
33	Darifenacin Hydrobromide	6	-	Dropped
34	Solifenacin Succinate	6	-	Dropped
35	Tolterodine Tartrate	6	-	Dropped
36	7-AVNA	60	60	Retained
37	MEAT (Thio Ester)	60	60	Retained
38	7-APCA	36	36	Retained
39	7-Amino-3-(methoxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0] oct-2-ene-2-carboxylic acid (7-AMCA)	12	12	Retained
40	7-Amino3-thiazole cephalosporanic acid (7-ATCA)	24	24	Retained
41	Lacosamide	120	-	Dropped
42	Silodosin	24	-	Dropped
43	Fingolimod Hydrochloride	24	-	Dropped
44	Cinacalcet Hydrochloride	120	-	Dropped
45	Fexofenadine Hydrochloride	120	-	Dropped
46	Sitagliptin Phosphate	24	18	Decreased
47	Prasugrel Hydrochloride	24	18	Decreased
48	Venlafaxine Hydrochloride	24	-	Dropped
49	Pregabalin	24	18	Decreased
50	Diacerein	24	18	Decreased
51	Dronedarone Hydrochloride	120	-	Dropped
52	Linezolid	24	18	Decreased
53	Ropinirole Hydrochloride	24	18	Decreased
53	Ropinirole Hydrochloride	24	18	Decreased
54	D-Cycloserine	24	18	Decreased
55	Clopidogrel Hydrogen Sulfate	24	18	Decreased
56	Bosentan	24	18	Decreased
57	Candesartan Cilexetil	24	18	Decreased
58	Deferasirox	120	-	Dropped
59	Febuxostat	24	18	Decreased
60	Azilsartan medoxomil	24	18	Decreased
61	Solifenacin Succinate	24	18	Decreased
62	Darifenacin Hydrobromide	24	18	Decreased

63	Trospium Chloride	24	18	Decreased
64	Tolterodine Tartrate	24	18	Decreased
65	Valsartan	24	18	Decreased
Maximum Production on various combinations (any 20 products at a time on campaign basis)		2400	2420	
Captive Power Generation		3 MW	3 & 2 MW	

Proposed Products with their capacities and Therapeutic Category:-

Sl. No.	Products	Quantity (Kg/Day)	Quantity (TPA)	CAS No.	Therapeutic Category / API Intermediate
1	Cefixime Trihydrate	3055	1100	125110-14-7	Antibiotic
2	Cefpodoxime Proxetil	833	300	87239-81-4	
3	Cefuroxime Axetil	833	300	64544-07-6	
4	Cefuroxime Sodium	66.7	24	56238-63-2	
5	Ceftriaxone Sodium	500	180	104376-79-6	
6	Cefpirome Sulfate	33.3	12	98753-19-6	
7	Cefdinir Monohydrate	200	72	213978-34-8	
8	Cefprozil Monohydrate	166.7	60	121123-17-9	
9	Cefepime Dihydrochloride Monohydrate	33.3	12	123171-59-5	
10	Cefuroxime Acid	100	36	55268-75-2	Anti-Infective
11	Cefditoren Pivoxil	33.3	12	117467-28-4	Antibiotic
12	Ceftibuten Monohydrate	66.7	24	97519-39-6	Anti-Infective
13	Cefazoline Sodium	33.3	12	27164-46-1	Anti-Infective
14	Cefoperazone Sodium	33.3	12	62893-20-3	Antibiotic
15	Cefoxitin Sodium	16.7	6	33564-30-6	
16	Ceftazidime Pentahydrate	16.7	6	78439-06-2	
17	Cefotaxime Sodium	100	36	64485-93-4	
18	Ceftizoxime Sodium	33.3	12	68401-82-	

				1	
19	Cephalothin Sodium	33.3	12	58-71-9	
20	Cefpodoxime Acid	33.3	12	80210-62-4	Antibacterial
21	Cefcapene Pivoxil	26.7	10	105889-45-0	
22	Cefmetazole Sodium	33.3	12	56796-39-5	Antibiotic
23	Cefmetazole	33.3	12	56796-20-4	
24	7-AVNA	166.7	60	79349-82-9	Cefixime
25	MEAT (Thio Ester)	166.7	60	143183-03-3	Intermediate Cefdinir
26	7-APCA	100	36	120709-09-3	Intermediate Cefprozil
27	7-Amino-3-(methoxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0] oct-2-ene-2-carboxylic acid (7-AMCA)	33.3	12	24701-69-7	Intermediate Cefpodoxime Proxetil Intermediate Cefditoren Pivoxil
28	7-Amino3-thiazole cephalosporanic acid (7-ATCA)	66.7	24	155723-02-7	Intermediate
29	Sitagliptin Phosphate	50	18	654671-78-0	<u>Antidiabetic</u>
30	Prasugrel Hydrochloride	50	18	389574-19-0	Anti-Hypertensive
31	Pregabalin	50	18	148553-50-8	Anti-Convulsant
32	Diacerein	50	18	13739-02-1	Anti-inflammatory
33	Linezolid	50	18	165800-03-3	Antibiotic
34	Ropinirole Hydrochloride	50	18	91374-20-8	Antidyskinetic
35	D-Cycloserine	50	18	68-41-7	Antituberculosis
36	Clopidogrel Hydrogen Sulfate	50	18	135046-48-9	Anti-thrombotic
37	Bosentan	50	18	147536-97-8	Anti-Hypertensive
38	Candesartan Cilexetil	50	18	145040-37-5	Anti-Hypertensive
39	Febuxostat	50	18	144060-53-7	Antigout
40	Azilsartan medoxomil	50	18	863031-21-4	Anti-Hypertensive
41	Solifenacin Succinate	50	18	242478-38-2	Antimuscarinic Agent
42	Darifenacin Hydrobromide	50	18	133099-07-7	Anticholinergic

43	Trospium Chloride	50	18	10405-02-4	Antispasmodic
44	Tolterodine Tartrate	50	18	124937-52-6	Antimuscarinic Agent
45	Valsartan	50	18	137862-53-4	Anti-Hypertensive
	Total (Any 20 products at a time)	6721	2420		

Recovered & Purified By-Products for Reuse:

S. No.	By-Product	Permitted Crude (TPA)	Proposed Crude (TPA)	By product from the product	Reuse/Sale
1.	Triphenylphosphine oxide	565.3	797.6	Cefixime Trihydrate	Reuse
2.	2-Mercaptobenzothiazole	280.7	396.05	Cefixime Trihydrate	Reuse
		57.5	143.94	Cefpodoxime Proxetil	Reuse
		36.36	36.36	MEAT (Thio Ester)	Reuse
	Total		576.35		
3.	Recovered Sodium Salts (Sodium Bromide & Sodium Chloride)	-	623.5	Cefixime Trihydrate Cefuroxime Axetil 7-AVNA	Sale
4.	Phenyl acetic acid		330.05	Cefixime Trihydrate	Reuse
		-	36.72	7-AVNA	Reuse
	Total		366.77		

- (vii) Land: Permitted Land: 11.85
- (viii) Raw materials: Raw materials are chemicals/solvents and the fuel etc. Source local (indigenous) markets/imported based on the availability.
- (ix) Water Requirement: Permitted: 457 KLD (Fresh Water): Addittional: 86 KLD and Total after amendment 543 KLD (Fresh Water). Source: Ground water through Private Tankers.
- (x) Power: Permitted 30 TPH coal fired boiler for 3 MW CPP and proposed additional 20 TPH coal fired boiler for 2 MW CPP.
- (xi) Fuel: Permitted Coal consumption: 150 TPD for 30 TPH boiler. Additional 100 TPD for 20 TPH boiler. Source: Imported/Indian coal Existing 10, 4 TPH boilers and 15 lakh Kcal/hr coal fired Thermic fluid heater will remain standby. 1075 lit/hr of diesel will be used for permitted 5x1010 KVA & 320 KVA DG sets. DG sets are used for during power failure.
- (xii) The Gross investment for the proposed project would marginally increase from the originally estimated Rs. 212.94 crores to Rs. 225 Crores.
- (xiii) This site is at a distance of about 0.7 km from Gundlamachanoor village (nearest habitation), Water bodies: Nakka Vagu (rivulet) - 1 km; Manjeera River - 2.5 km (W). There are no Reserved Forests in 10 km radius.

EAC has deliberated on the proposal. EAC noted that the proposal is for installation of an additional boiler of 20 TPH capacity to met the steam requirement. The proposal also involves dropping 20 products and revise individual production capacity of about 3 products thereby marginally increasing the overall production capacity.

The EAC after detailed deleberations accepted the amendments subject to compliance of following conditions:

- i. No increase in total production/year.
- ii. The plant will follow Zero Liquid discharge concept.
- iii. The plant will use coal with sulphor content less than 0.5% as a fuel source for boilers.
- iv. Development of 10m wide green belt of perennial trees like Neem, Seesam, Kadamda etc. around the plant periphery.
- v. Planting of 1000 trees/year for Five Years in Five nearby identified villages. The status of plantation and survival rate of plants shall be reported to RO, MoEF&CC in Six Monthly compliance report.
- vi. Environment Management Cell with well-equipped laboratories shall be setup in the unit. A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.

List of the Chairman and Members of the Expert Appraisal Committee (EAC) for Industry-2.

Sr. No.	Name and Address	
1.	<u>Dr. J. P. Gupta</u> A- 1/2 Panchsheel Enclave, New Delhi- 110070 E-mail: jpglobalconsultinggroup@gmail.com	Chairman
2.	<u>Sh. R. K. Singh</u> 301, Tulsi Meadows Building, St. Anthony's Road, Near Uttam Society, Chembur, Mumbai-400071, Maharashtra E-mail: rsingh7854@gmail.com	Member
3.	<u>Dr. Ahmed Kamal</u> 8-2-619, Road no.11, Banjara Hills, Hyderabad 500034. E-mail: ahmedkamal@iict.res.in	Member
4.	<u>Prof. J.R. Mudakavi</u> 1128, Adarsha Layout, West of Chord Road, III Stage, I Block, Basaveshwar Nagar, Bangalore- 560079 E-mail: mudakavijr@gmail.com	Member
5.	<u>Dr. N. Nandini</u> Reader Quarters 7, Jnanabharthi campus, Bangalore University E-mail: nandini.sai@rediffmail.com	Member
6.	<u>Shri SuhasRamchandraPharande</u> Ajinkyatara, Kala Nagar, Gangapur Road, Nashik- 422002 E-mail: s_pharande@yahoo.com	Member
7.	<u>Shri Sanjay Bist</u> Scientist- D Indian Meteorological Department, MausamBhawan, Lodhi Road, New Delhi- 110003 E-mail: sanjay.bist@imd.gov.in	Member
8	<u>Prof. (Dr.) Y.V. Rami Reddy</u> Dept.of Chemistry, S V University, Tirupati Andhra Pradesh E-mail: dryvrsvu@gmail.com	Member

9	Shri Yogendra Pal Singh Room No. 236, Vayu Wing, 2 nd Floor, Ministry of Environment, Forest & Climate Change, JorBagh Road, New Delhi-110003 E-mail: yogendra78@nic.in Tele-fax : 01124695365	Member Secretary
---	--	------------------