

**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IA DIVISION-INDUSTRY-3 SECTOR)**

Dated: 22.03.2021

**MINUTES OF THE 7th EXPERT APPRAISAL COMMITTEE (INDUSTRY-3
SECTOR) MEETING HELD DURING MARCH 11-12, 2021**

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

Time: 10:30 AM

DAY 1: MARCH 11, 2021 (THURSDAY)

(i) Opening Remarks by the Chairman

The Chairman made hearty welcome to the Committee members and opened the EAC meeting for further deliberations. The Chairman has appreciated the efforts of the Ministry's official on preparation and placing the agenda of the EAC meeting on time, preparation of summary on time and also processing of the proposals and uploading the clearance letter on the Ministry's Parivesh Portal.

(ii) Appointment of Vice Chairman: The Chairman has nominated Prof. (Dr.) A.B. Pandit, EAC Member as a Vice Chairman of the Expert Appraisal Committee. The EAC unanimously supported the nomination of Prof. (Dr.) A.B. Pandit, as the Vice Chairman.

(iii) Confirmation of the Minutes of the 6th Meeting of the EAC (Industry-3 Sector) held during February 22-23, 2021 at MoEFCC through VC.

The EAC, having taken note that final minutes were issued after incorporating comments offered by the EAC (Industry-3 Sector) members on the minutes of its **6th Meeting of the EAC (Industry-3) held during February 22-23, 2021** conducted through Video Conferencing (VC), and as such no request has been received for any modifications, in the minutes of the project/activities, **confirmed the same.**

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

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

Consideration of Environmental Clearance

Agenda No. 7.1

Setting up of Technical Ammonium Nitrate Manufacturing Plant by M/s Smartchem Technologies Limited at TSSEZL industrial park, Village- Basanputi, Near Gopalpur, Tehsil- Chatrapur, District- Ganjam, Orissa - Consideration of Environmental Clearance

[Proposal no. IA/OR/IND2/160599/2020, F.No. J-11011/152/2020-IA-II(I)]

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

The proposal is for environmental clearance to the project for setting up of Technical Ammonium Nitrate Manufacturing Plant at TSSEZL industrial park, Village- Basanputi, Near Gopalpur, Tehsil- Chatrapur, District- Ganjam, Orissa.

All Chemical Fertilizer units are listed at S. No. 5(a) of the 'Schedule' of the Environmental Impact Assessment (EIA) Notification under Category 'A' and appraised at Central Level by Expert Appraisal Committee (EAC). The proposal also includes coal-based power generation of 10 MW, which is listed as category 1(d), i.e., thermal power plants in the Schedule under Category 'B' of EIA notification, 2006. Further, the pipeline of the project falls in the CRZ area. Therefore, CRZ clearance is also required.

The details of products and capacity are as under:

S. No	Name of Product	Quantity	
		MTPD	MTPA
1.	Nitric Acid (NA)- (100% basis)	900	2,97,000
2.	Technical Ammonium Nitrate Solution (TAN) (100% basis)	1143	3,77,190
3.	Technical Ammonium Nitrate Prill (LDAN or HDAN on campaign basis)	1000	3,30, 000
4.	Captive Power Plant (CPP) – (I + II)	14.6 MW	-
	I- From Coal Fired Boiler- Applicability of EC- I	10 MW	-
	II- From waste heat turbo Generator (STG)- (Exempted from EC)	4.6 MW	-

Deliberations in the EAC

After detailed deliberations, the Committee **deferred** the proposal and desired following requisite information/inputs:

- (i). The Committee noted that the project proponent has not provided the clarification regarding applicability of CRZ clearance to the project. The PP should apply for both EC and CRZ clearance.
- (ii). EAC noted that CETP has not commissioned yet. PP needs to submit a copy of agreement with CETP for disposal of treated water.

- (iii). The NOC from PESO needs to be submitted.
- (iv). The PP has submitted total project cost which includes cost of pipeline, however details of CRZ and its SCZMA recommendations also needs to be included in the report.
- (v). Details of pollution control equipment with efficiency needs to be resubmitted.
- (vi). Detailed greenbelt plan along with budgetary allocation for completion of greenbelt in one year. Action plan for high carbon sequestration species trees in the greenbelt needs to be submitted.
- (vii). Detailed action plan for mitigation of particulate emission (i.e. PM10, PM2.5) needs to be submitted.
- (viii). Detailed action plan for mitigation of noise pollution.
- (ix). Safety measure to be taken for the storage of chemicals (i.e. raw material and finished products).
- (x). Action plan for use of low ash coal for CPP to control particulate emission (guaranteed performance parameters like efficiency, design ash content of coal, etc., of ESPs).
- (xi). Action Plan for the disposal of fly ash including agreement with cement plants or other suitable methods needs to be submitted.
- (xii). Commitment to use of recycled water for cooling in the power plant.
- (xiii). Schedule-I species conservation plan need to be prepared.
- (xiv). Commitment to treat domestic effluent separately also needs to be submitted.
- (xv). Project proponent shall revise the EIA/EMP Report accordingly with all the requisite information.

The proposal was accordingly **deferred** for further appraisal before the EAC.

Agenda No. 7.2

Setting up of Active Pharmaceutical Ingredient (API) manufacturing unit with production capacity of 18.0 MT/Month by M/s. Pranu Pharma, located at Sy. Nos. 41 - 2A, 2B, 2C, 3A & 35-6, Gollapuram Village, Hindupur Mandal, Anantapur, Andhra Pradesh - Consideration of Environmental Clearance

[IA/AP/IND2/199891/2021, IA-J-11011/74/2021-IA-II(I)]

The Project Proponent and the accredited Consultant M/s. Rightsource Industrial Solutions Pvt. Ltd., made a detailed presentation on the salient features of the project and informed that:

The proposal is for environmental clearance to the project for Setting up of Active Pharmaceutical Ingredient (API) manufacturing unit with capacity of 18 MT/Month by M/s. Pranu Pharma, located at Sy. Nos. 41 - 2A, 2B, 2C, 3A & 35-6, Gollapuram Village, Hindupur Mandal, Anantapur, Andhra Pradesh.

The details of products and capacity are as under:

S. No	Product Name	Quantity in TPM	CAS No	Therapeutic category
1	Bilastine	2.00	202189-78-4	Anti-histamine
2	Curcumin	4.00	458-37-7	Anti-Inflammatory
3	Fluconazole	5.00	86386-73-4	Anti-fungal
4	Ketoprofen	2.00	22071-15-4	Anti-inflammatory
5	Levocetirizine dihydrochloride	2.00	130018-77-8	Anti-histamine
6	Metformin Hydrochloride	6.00	1115-70-4	Anti-Diabetic
7	Minoxidil	2.00	38304-91-5	Anti-hypertensive vasodilator
8	Piroctone Olamine	2.00	68890-66-4	Anti-dandruff
9	Pregabalin	2.00	148553-50-8	Anti-convulsant
10	Rabeprazole	6.00	117976-89-3	Anti-Ulcer
11	Ritonavir	6.00	155213-67-5	Anti-retroviral
12	Rosuvastatin Calcium	2.00	287714-41-4	Used to treat Cardiovascular Disease
13	Sertraline hydrochloride	2.00	79617-96-2	Used to treat depression
14	Telmisartan	4.00	144701-48-4	Anti-hypertensive
15	Topiramate	2.00	97240-79-4	Used to treat epilepsy and prevent migraines.
Total (Any 3 products will be manufactured at any given point of time)		18.00		

LIST OF BY-PRODUCTS AND ITS QUANTITIES

S. No	Name of the product	Name of the By-product	Quantity in Kg/day
1	Bilastine	Sodium p-toluene sulfonate	39.40
		Potassium p-toluene sulfonate	38.00
2	Fluconazole	Aluminium Hydroxide solution (33%)	259.00
		Ammonium nitrate	66.30
3	Pregabalin	Ammonium chloride	164.00
4	Rabeprazole	Sodium Nitrite	87.00
5	Ritonavir	Sodium acetate	114.20
		Sodium phosphate	40.60
6	Rosuvastatin Calcium	Meta Chloro benzoic acid	117.30

The project/activities are covered under Category 'B2' of item 5 (f) 'Synthetic, Organic Chemicals Industry' of the schedule to the Environment Impact Assessment (EIA) Notification, 2006 (amendment on 27.03.2020). Due to applicability of general condition (interstate boundary within 5 km), the project requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry. Public hearing is exempted since the proposed project falls under category B2. It was informed that no litigation is pending against the proposal.

The total land area for the proposed project is 6.0 Acres (24473.00 Sqm). Industry will develop greenbelt in an area of 8379.6 Sqm (34.2 %). The proposed project cost is about Rs.7.0 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.152 Lakhs and the recurring cost (operation and maintenance) will be about Rs.18 Lakhs per annum. Total Employment will be of 50 persons. There are no National parks, Wildlife sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.

The total water requirement is 104.4 m³/day and will be met from Ground water supply. Generated effluent of 28.71 m³/day treated through stripper followed by MEE/ATFD, Biological Treatment Plant followed by RO. Plant will be based on Zero Liquid Discharge System.

The Power requirement will be 500 kVA and will be met from Andhra Pradesh State Southern Power Distribution Company Limited (APSPDCL). The unit is proposed to install 1 x 250 kVA DG Set, Stack height of 7 mts will be provided as per CPCB norms. The unit is proposed to install 3.0 TPH Coal fired boiler with stack of height 30 mtrs. Cyclone separator and bag filters will be installed for the boiler for controlling the particulate emissions (within statutory limit of 115 mg/ Nm³).

Details of Process emissions generation and its management.

S. No.	Name of the Gas	Quantity in Kg/Day	Treatment Method
1	Carbon dioxide	291.00	Dispersed into the atmosphere
2	Hydrogen	4.00	Diffused by using Nitrogen through Flame arrestor
3	Ammonia	57.00	Scrubbed by using chilled water media
4	Oxygen	5.00	Dispersed into the atmosphere
5	Hydrogen chloride	218.00	Scrubbed by using chilled water media
6	Hydrogen Iodide	92.00	Scrubbed by using C. S. Lye Solution
7	Sulphur dioxide	58.00	Scrubbed by using C. S. Lye Solution
8	Chloromethane	8.00	Scrubbed by using C. S. Lye solution

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

S. No	Name of the Hazardous Waste	Quantity	Disposal Method
1	Organic solid waste	1016 Kg/Day	Will be sent to Cement Industries
2	Spent Carbon	77 Kg/Day	
3	Solvent Distillation Residue	329 Kg/Day	
4	Inorganic Solid Waste	375 Kg/Day	Will be sent to TSDF
5	ETP Sludge	50 Kg/Day	
6	MEE Salts	890 Kg/Day	
7	Organic distillate from MEE Stripper	460 Ltrs/Day	Will be sent to Cement Industries
8	Used Oils	50 Ltrs/Annum	Will be sent SPCB Authorized Agencies for Reprocessing/Recycling
9	Detoxified Containers	300 No's / Month	After Detoxification will be sent to SPCB Authorized Agencies.
10	Used Lead Acid Batteries	2 No's/ Annum	Send back to suppliers for buyback of New Batteries
Solid waste details			
11	Ash from boiler	4.2 TPD	Will be sent to Brick Manufacturers

The Member Secretary informed the EAC that the Ministry has recently issued an Office Memorandum dated 28.01.2021 which inter-alia request EAC to clearly recommend the permissible pollution load i.e., quantity and quality, including composition of emissions, discharge and solid waste generation. In compliance this OM, PP has submitted the following

pollution load information and the EAC deliberated on the issue. PP also requested that EC may include the name of products also otherwise PP will face difficulty in obtaining the CTE/CTO from concerned SPCB.

Kg/day														
	EFFLUENT WATER								SOLID WASTE					
Water Input	Effluent Water	Inorganics	Organics In Effluent	TDS	COD	HTDS	LTDS	Total Effluent	Organic Solid waste	Inorganic Solid waste	Spent Carbon	Distillation Residue	Process	Fugitive loss
1240	12905.	599	509.	599	873	1293	177	1470	101	375	76.	328.	541	35
0.00	44	.03	93	.03	.97	6.25	2.66	8.91	6.24	.21	67	67	.53	9.3

HAZARDOUS SOLID WASTE DETAILS

Kg Per Day			
SOLID WASTE			
Organic solid waste	Inorganic solid waste	Spent Carbon	Distillation Residue
1016.24	375.21	76.67	328.67

EMISSION DETAILS

Kg Per Day	
Process emissions	Fugitive emissions
541.53	359.33

Kg Per Day							
CO2	H2	NH3	O2	HCl	CH3Cl	HI	SO2
291.44	4.47	57.30	5.07	217.78	7.67	92.18	57.87

Deliberations in the EAC:

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

The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of their knowledge and

belief and no information has been suppressed in the PFR & EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Member Secretary further informed the EAC that the Ministry has recently issued an Office Memorandum dated 28.01.2021 and inter-alia requested that EAC shall clearly recommend the permissible pollution load i.e. quantity and quality, including composition, of emissions, discharge and solid waste generation. In compliance of this OM, PP has submitted the pollution load and the EAC also deliberated on the pollution load as estimated by the PP/Consultant.

The Committee noted that the PFR/EMP report reflects the present environmental concerns and the projected scenario for all the environmental components. The Committee deliberated on the action plan and budget allocation for green belt development, mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee also deliberated on the activities/action plan and its mitigation plan and found it to be addressing to the issues in the study area. The Committee also suggested that the storage of toxic/explosive raw material/products shall be undertaken with utmost precautions and following the safety norms and best practices.

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

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

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

- (i). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the PFR/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii). Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology. Regular VOCs monitoring should be carried out.

- (iii). Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (iv). As already committed by the project proponent, Zero Liquid Discharge (ZLD) shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture purpose.
- (v). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vi). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (vii). Total fresh water requirement shall not exceed 104.4 m³/day which will be met from ground water. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (viii). Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (ix). Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (if applicable).
- (x). Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space provided with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valves to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xi). Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF. There shall be commitment from the brick manufacturer to take the fly ash from the plant. The Unit is to be started after getting the commitment from the brick manufacturer / cement plant.
- (xii). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c)

- Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiii). The green belt of at least 5-10 m width shall be developed in at least 33% of the total project area, mainly along the plant periphery/ additional land. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map. Trees have to be planted with spacing of 2m x 2m and number of trees have to be increased accordingly. The plant species can be selected that will give better carbon sequestration. All trees must be planted within first year.
- (xiv). The activities and the action plan proposed by the project proponent to address the socio-economic issues in the study area, shall be completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit. All the commitments made shall be satisfactorily implemented.
- (xv). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No. 7.3

Setting up of Bulk Drugs & Drug Intermediates manufacturing unit with capacity of 60 MT/Month by M/s. Zenith Lifesciences at Plot Nos. 251 & 252, Kadechur & Badiyal Industrial Area, Village Kadechur, Taluk Yadgir, District Yadgir, Karnataka - Consideration of Environment Clearance.

[IA/KA/IND3/199966/2020, IA-J-11011/256/2020-IA-II (I)]

The project proponent and the accredited consultant M/ Rightsource Industrial Solutions Pvt. Ltd. made a detailed presentation on the salient features of the project and informed that:

The proposal is for grant of environmental clearance (EC) to the project for setting up of Bulk Drugs & Drug Intermediates Manufacturing unit with capacity of 60 MT/Month by M/s Zenith Lifesciences at Plot Nos. 251 & 252, Kadechur & Badiyal Industrial Area, Village Kadechur, Taluk Yadgir, District Yadgir, Karnataka.

The details of products and capacity as under:

S. No	Product Name	Quantity in MT/Month	CAS No	Therapeutic Use
1	4-hydroxy thio coumarin	2.00	1076-38-6	Ampicillin intermediate
2	5-Amino Phthalide	5.00	858243-47-7	Vilazodone intermediate
3	5-Bromo-Indole	5.00	10075-50-0	Vilazodone intermediate
4	5-Cyano Phthalide	20.00	82104-74-3	Citalopram intermediate
5	Atorvastatin Calcium Trihydrate	5.00	344423-98-9	Anti-hypertensive
6	Ciprofloxacin hydrochloride	5.00	86393-32-0	Anti-biotic
7	Clenbuterol Hydrochloride	1.00	21898-19-1	Used to treat Asthma
8	Clopidogrel bisulfate	10.00	113665-84-2	Anti-hypertensive
9	Cloxacillin	2.00	61-72-3	Anti-biotic
10	Darunavir	1.00	206361-99-1	Anti-retroviral
11	Duloxetine hydrochloride	10.00	116539-59-4	Anti-Depressant
12	Escitalopram Oxalate	5.00	128196-01-0	To treat depression and anxiety
13	Etoricoxib	2.00	202409-33-4	Anti-inflammatory
14	Favipiravir	1.00	259793-96-6	Antiviral
15	Febuxostat	1.00	144060-53-7	To treat Gout Disease
16	Gabapentin	10.00	60142-96-3	Anti-epileptic drug
17	Itraconazole	10.00	84625-61-6	Anti-fungal
18	Levocetirizine Dihydrochloride	5.00	130018-77-8	Anti-histamine
19	Levosulpride	3.00	23672-07-3	Anti-psychotic
20	Lopinavir	3.00	192725-17-0	Anti-retroviral
21	Losartan Potassium	10.00	124750-99-8	Anti-hypertensive
22	Memantine Hydrochloride	10.00	41100-52-1	Used to treat Alzheimer's disease
23	Nizatidine	1.00	76963-41-2	Used to treat peptic ulcer
24	Olmesartan	2.00	144689-63-4	Anti-hypertensive
25	Pregabalin	5.00	148553-50-8	Anti-biotic
26	Ritonavir	2.00	155213-67-5	Anti-retroviral
27	Telmisartan	2.00	144701-48-4	Anti-hypertensive
Total (Any five products will be manufactured at any given point of time)		60.00		

LIST OF BY-PRODUCTS AND ITS QUANTITIES

S. No	Name of the product	Name of the By-Product	Quantity in Kg/Day
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1	4-Hydroxy Thio coumarin	Polyphosphoric acid (15%)	2222.20
2	5-Amino Phthalide	Zinc hydroxide	153.50
3	5-Cyano phthalide	Sulfuric acid (20%)	2666.70
4	Ciprofloxacin Hydrochloride	Sodium acetate	146.00
		Piperazine Hydrochloride	87.80
5	Clopidogrel Bisulfate	TEA Hydrochloride	171.60
		P-Toluene sulfonic acid	185.00
6	Darunavir	Tert-Butanol	14.70
		Triethylamine hydrochloride	27.20
7	Duloxetine Hydrochloride	Oxalic acid	109.90
8	Escitalopram oxalate	Diparatoluyl D-Tartaric acid	303.30
9	Etoricoxib	Aluminium hydroxide (33%)	76.10
10	Favipiravir	Sodium acetate	36.90
		Potassium Bromide	36.80
11	Febuxostat	Potassium bromide	19.70
12	Levo Cetirizine Dihydrochloride	Tri ethyl amine hydrogen chloride	68.80
		Aluminium chloride solution- (22%)	1894.00
13	Lopinavir	Benzyl Alcohol	57.50
		Monosodium citrate	113.80
		Potassium chloride	92.10
		Monosodium citrate	97.90
14	Losartan Potassium	Acetic acid	92.10
		Succinimide	112.70
		Trityl alcohol	254.30
		Sodium bromide	100.50
15	Memantine hydrochloride	Potassium acetate	215.00
16	Olmesartan	Succinimide	25.30
17	Pregabalin	Sodium acetate	227.80
		Potassium acetate	196.80
		Tartaric acid	217.40
18	Ritonavir	Sodium acetate	38.30
		Boric acid	17.90
		Sodium phosphate	13.70
		4-Nitro phenol	41.90
Note: The quantity of By-products based on respective products being manufactured.			

The project/activity is covered under Category 'A' of item 5 (f) 'Synthetic, Organic Chemicals Industry' of the schedule to the Environment Impact Assessment (EIA) Notification, 2006 (amendment on 27.03.2020). Due to applicability of general conditions (Interstate boundary within 5 Km), the project requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

The Standard Terms of Reference (ToR) for the project has been issued by Ministry vide letter dated 29th October 2020. Public Hearing is exempted in accordance with the Ministry's OM dated 27th April, 2018, as the project site is located inside the notified industrial area. The proposed project will be established in a land area of 2.0 Acres. Industry will develop greenbelt in an area of 2994.00 m² which is 37.05% out of the total project area.

The proposed project cost is about Rs.8.42 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.176 Lakhs and the recurring cost (operation and maintenance) will be about Rs.22 Lakhs per annum. Total Employment under proposed project will be 100 persons. Industry proposes to allocate Rs.16.84 Lakhs towards Corporate Environmental Responsibility. There are no National parks, Wildlife sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.

Ambient air quality monitoring was carried out at 8 locations during Winter Season (November, 2020 to January, 2021) and submitted baseline data indicates that ranges of concentrations of PM10 (43.6 – 67.2 µg/ m³), PM2.5 (16.6 - 26.9 µg/ m³), SO₂ (8.7 – 18.8 µg/ m³) and NO_x (10.2 - 24.1 µg/ m³) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project PM₁₀, PM_{2.5}, SO₂ & NO_x would be 0.42 µg/ m³, 0.3 µg/ m³, 0.97 µg/ m³ & 1.29 µg/ m³ with respect to PM10, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

The total water requirement is 146.73 m³/day and will be met from KIADB water supply. Generated effluent of 56.95 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.

Power requirement of project will be 500 kVA and will be met from Karnataka Power Corporation Limited (KPCL). The unit is proposed to install 1 X 380 kVA DG Set, Stack height of 8 mts will be provided as per CPCB norms. The unit has proposed to install 5.0 TPH Coal fired boiler with stack of height 30 mtrs. Cyclone separator and bag filters will be installed for the boiler for controlling the particulate emissions (within statutory limit of 115 mg/ Nm³).

Details of Process emissions generation and its management.

S. No.	Name of the Gas	Quantity In Kg/Day	Treatment Method
1	Carbon dioxide	492.00	Dispersed into the atmosphere
2	Hydrogen	14.00	Diffused by using Nitrogen through Flame arrestor
3	Ammonia	58.00	Scrubbed by using chilled water media
4	Oxygen	246.00	Dispersed into the atmosphere
5	Nitrogen	43.00	Dispersed into the atmosphere
6	Hydrogen Bromide	642.00	Scrubbed by using C. S. Lye solution
7	Hydrogen Chloride	776.00	Scrubbed by using chilled water media
8	Dimethylamine	132.00	Scrubbed by using chilled water media

S. No.	Name of the Gas	Quantity In Kg/Day	Treatment Method
9	Chloromethane	71.00	Scrubbed by using C.S. Lye Solution
10	Hydrogen Fluoride	40.00	Scrubbed by using C.S. Lye Solution
11	Sulphur dioxide	448.00	Scrubbed by using C.S. Lye Solution

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

S. No.	Name of the Waste	Quantity	Disposal Method
Hazardous Waste details			
1	Organic solid waste	2575 Kg/Day	Will be sent to Cement Industries
2	Spent Carbon	74 Kg/Day	
3	Solvent Distillation Residue	526 Kg/Day	
4	Organic distillate from MEE stripper	830 Ltrs/Day	
6	Inorganic Solid Waste	827 Kg/Day	Will be sent to TSDF
7	MEE Salts	3469 Kg/Day	
8	ETP Sludge	100 Kg/Day	
9	Used Oils	80 Ltrs/Annum	Will be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
10	Detoxified Containers/ Container liners	450 No's / Month	After Detoxification will be sent to SPCB authorized agencies
11	Used Lead Acid Batteries	2 No's/ Annum	Send back to suppliers for buyback of New Batteries
Solid waste details			
12	Ash from boiler	7000 Kg/Day	Will be sent to Brick Manufacturers

The Member Secretary informed the EAC that the Ministry has recently issued an Office Memorandum dated 28.01.2021 which inter-alia request EAC to clearly recommend the permissible pollution load i.e., quantity and quality, including composition of emissions, discharge and solid waste generation. In compliance this OM, PP has submitted the following pollution load information and the EAC deliberated on the issue. PP also requested that EC may include the name of products also otherwise PP will face difficulty in obtaining the CTE/CTO from concerned SPCB.

Kg Per Day														
Water Input	EFFLUENT WATER								SOLID WASTE				Process	Fugitive loss
	Effluent Water	Inorganics In Effluent	Organics In Effluent	TDS	COD	HTDS	LTDS	Total Effluent	Organic Solid waste	Inorganic Solid waste	Spent Carbon	Distillation Residue		
25733.33	27444.95	1514.99	928.48	1514.9	1680.84	27094.15	2857.13	29951.2	2575.11	826.66	73.39	525.56	1776.01	557.61

HAZARDOUS SOLID WASTE DETAILS

Kg Per Day			
SOLID WASTE			
Organic solid waste	Inorganic solid waste	Spent Carbon	Distillation Residue
2575.11	826.66	73.39	525.56

EMISSION DETAILS

Kg Per Day	
Process emissions	Fugitive emissions
1776.01	557.61

Kg Per Day										
CO2	H2	NH3	O2	N2	HBr	HCl	(CH3)2NH	CH3Cl	HF	SO2
491.9	14.3	58.3	246.1	43.0	642.2	775.7	132.25	71.25	40.0	448.1
3	2	9	8	0	9	6			0	1

Deliberations in the EAC:

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

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

The Member Secretary further informed the EAC that the Ministry has recently issued an Office Memorandum dated 28.01.2021 and inter-alia requested that EAC shall clearly recommend the permissible pollution load i.e. quantity and quality, including composition, of emissions, discharge and solid waste generation. In compliance of this OM, PP has submitted the pollution load and the EAC also deliberated on the pollution load as estimated by the PP/Consultant.

The Committee noted that the EIA/EMP report reflects the present environmental concerns and the projected scenario for all the environmental components. The Committee deliberated the action plan and budget allocation for green belt development, mitigation

measure towards Air, Water, Noise and Soil pollutions. The Committee also deliberated on the activities/action plan and its mitigation plan and found it to be addressing to the issues in the study area. The Committee also suggested that the storage of toxic/explosive raw material/products shall be undertaken with utmost precautions and following the safety norms and best practices. The committee deliberated the green belt development plan and recommended to plant additional plants of 362 Nos. along the periphery of the compound wall and 750 Nos. of trees within the plant premises.

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

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

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

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

- (vi). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (vii). Total fresh water requirement shall not exceed 146.73 m³/day and will be met from KIADB water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (viii). Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (xvi). Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (if applicable).
- (xvii). Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xviii). Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xix). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xx). As committed additional plants of 362 Nos. along the periphery of the compound wall and 750 Nos. of trees within the plant premises will be planted. The green belt of at least 5-10 m width shall be developed in at least 33% of the total project area, mainly along the plant periphery/ additional land. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xxi). The activities and the action plan proposed by the project proponent to address the socio-economic issues in the study area, shall be completed as per the schedule presented

before the Committee and as described in the EMP report in letter and spirit. All the commitments made shall be satisfactorily implemented.

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

Agenda No. 7.4

Setting up of Bulk Drugs & Drug Intermediates Manufacturing unit with capacity of 36 MT/Month by M/s. Vision Biotech by dropping the existing Natural Products at Plot No: 2B/1, APIIC Industrial Park, Gollapuram Village, Hindupur Mandal, Anantapur District, Andhra Pradesh State - Consideration of Environment Clearance.

[IA/AP/IND2/172736/2020, IA-J-11011/203/2020-IA-II (I)]

The project proponent and the accredited consultant M/ Rightsource Industrial Solutions Pvt. Ltd. made a detailed presentation on the salient features of the project and informed that:

The proposal is for grant of environmental clearance (EC) to the project for establishment of Bulk Drugs & Drug Intermediates Manufacturing unit with capacity of 36 MT/Month by M/s. Vision Biotech by dropping the existing Natural Products at Plot No: 2B/1, APIIC Industrial Park, Gollapuram Village, Hindupur Mandal, Anantapur District, Andhra Pradesh State.

The details of products and capacity as under:

S. No	Product Name	Quantity in MT/Month	CAS No	Therapeutic category
1	3-O-Acetyl keto beta boswellic acid	1.00	67416-61-9	Anti-inflammatory
2	Alpha Damascone	2.00	43052-87-5	Flavours & Fragrance
3	Alpha Tetralone	4.00	529-34-0	As agriculture agent
4	Avobenzene	3.00	70356-09-1	As UV-filter in cosmetic products
5	Calcium dobesilate	2.00	117552-78-0	Used in the treatment of piles and varicose veins
6	Curcumin	2.00	458-37-7	Anti-Inflammatory

S. No	Product Name	Quantity in MT/Month	CAS No	Therapeutic category
7	Ethyl hexyl triazone	3.00	88122-99-0	Cosmetic sunscreen
8	Evernyl	3.00	4707-47-5	Flavours & Fragrance
9	Fexofenadine hydrochloride	1.00	153439-40-8	Anti-histamine
10	Minoxidil	6.00	38304-91-5	Anti-hypertensive
11	Piroctone olamine	4.00	68890-66-4	Anti-dandruff
12	Safranal	2.00	116-26-7	Anti-convulsant
13	Salicylic acid	3.00	69-72-7	Skin care products
	Total	36.00		

LIST OF BY-PRODUCTS AND ITS QUANTITIES

S. No	Name of the product	Name of the By-product	Quantity in Kg/day
1	Alpha Damascone	Acrylonitrile	22.20
2	Safranal	Sodium bromide	119.00

The project/activity is covered under Category 'A' of item 5 (f) 'Synthetic, Organic Chemicals Industry' of the schedule to the Environment Impact Assessment (EIA) Notification, 2006 (amendment on 27.03.2020). Due to applicability of general conditions (Interstate boundary within 5 Km), the project requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

The Standard Terms of Reference (ToR) for the project has been issued by Ministry vide letter dated 07th October 2020. Public Hearing is exempted in accordance with the Ministry's OM dated 27th April, 2018, as the project site is located inside the notified industrial area. The proposed project will be established in a land area of 1.6 Acres (6513.54 m²). Industry will develop greenbelt in an area of 2239.04 m² which is 34.38% out of the total project area.

The proposed project cost is about Rs.1.5 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.152.6 Lakhs and the recurring cost (operation and maintenance) will be about Rs.22 Lakhs per annum. Total Employment under proposed project will be 50 persons. Industry proposes to allocate Rs.1.5 Lakhs @ 1.0 % of the project cost towards Corporate Environmental Responsibility.

There are no National parks, Wildlife sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.

Ambient air quality monitoring was carried out at 8 locations during Winter Season (November, 2020 to January, 2021) and submitted baseline data indicates that ranges of concentrations of PM10 (47.2 – 65.7 µg/ m³), PM2.5 (18.6 - 26.9 µg/ m³), SO₂ (8.6 – 14.1 µg/ m³) and NO_x (10.9 - 18.1 µg/ m³) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project PM₁₀, PM_{2.5}, SO₂ & NO_x would be 0.313 µg/ m³, 0.23 µg/ m³, 0.603 µg/ m³ & 0.934 µg/ m³ with respect to PM₁₀, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

The total water requirement is 69.65 m³/day and will be met from APIIC water supply. Generated effluent of 16.72 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.

Power requirement of project will be 500 kVA and will be met from Andhra Pradesh Southern Power Distribution Company Limited (APSPDCL). The unit is proposed to install 1 X 125 kVA DG Set & has existing 1 X 82.5 kVA DG Set will be kept as stand-by, Stack height of 7 mts will be provided as per CPCB norms. The unit is proposed to install 2.0 TPH Coal fired boiler with stack of height 30 mtrs & has existing 1.0 TPH boiler with stack height of 20 mtrs. Cyclone separator followed by bag filters will be installed for the proposed boiler & the existing boiler is connected with cyclone separator followed by bag filters for controlling the particulate emissions (within statutory limit of 115 mg/ Nm³). 1 x 2 Lakh K. Cal/ Hr Thermic fluid heater is proposed with stack height of 11 mtrs.

Details of Process emissions generation and its management.

S. No.	Name of the Gas	Quantity in Kg/Day	Treatment Method
1	Carbon dioxide	12.00	Dispersed into the atmosphere
2	Hydrogen	1.00	Diffused by using Nitrogen through Flame arrestor
3	Hydrogen chloride	107.00	Scrubbed by using chilled water media

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

S. No	Name of the Waste	Quantity	Disposal Method
Hazardous Waste Details			
1	Organic solid waste	544 Kg/Day	Will be sent to Cement Industries
2	Spent Carbon	24 Kg/Day	
3	Solvent Distillation Residue	109 Kg/Day	
4	Inorganic Solid Waste	126 Kg/Day	Will be sent to TSDF

5	ETP Sludge	20 Kg/Day	
6	MEE Salts	169 Kg/Day	
7	Organic distillate from MEE Stripper	100 Ltrs/Day	Will be sent to Cement Industries
8	Used Oils	25 Ltrs/Annum	Will be sent SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers	300 No's / Month	After Detoxification will be sent to SPCB Authorized Agencies.
10	Used Lead Acid Batteries	2 No's/ Annum	Send back to suppliers for buyback of New Batteries
Solid waste details			
11	Ash from boilers	3675 Kg/Day	Will be sent to Brick Manufacturers
12	Ash from Thermic fluid heater	525 Kg/Day	

The Member Secretary informed the EAC that the Ministry has recently issued an Office Memorandum dated 28.01.2021 which inter-alia request EAC to clearly recommend the permissible pollution load i.e., quantity and quality, including composition of emissions, discharge and solid waste generation. In compliance this OM, PP has submitted the following pollution load information and the EAC deliberated on the issue. PP also requested that EC may include the name of products also otherwise PP will face difficulty in obtaining the CTE/CTO from concerned SPCB.

Kg Per Day														
Water Input	EFFLUENT WATER								SOLID WASTE					
	Effluent Water	Inorganics In Effluent	Organics In Effluent	TDS	COD	HTDS	LTDS	Total Effluent	Organic Solid waste	Inorganic Solid waste	Spent Carbon	Distillation Residue	Process emissions	Fugitive loss
4650.0	4978.1	116.8	120.0	116.8	219.4	4768.6	451.5	5220.27	543.80	125.33	23.33	108.67	120.51	115.67

HAZARDOUS SOLID WASTE DETAILS

Kg Per Day			
SOLID WASTE			
Organic solid waste	Inorganic solid waste	Spent Carbon	Distillation Residue
543.80	125.33	23.33	108.67

EMISSION DETAILS

Kg Per Day	
Process emissions	Fugitive emissions

120.51	115.67
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Kg Per Day		
CO2	H2	HCl
12.39	0.90	107.22

Deliberations in the EAC:

The proposed project envisages use of natural products for manufacturing final products for which Environmental Clearance is not applicable. The Committee deliberated on previous production and CTO compliance of the unit and demanded the documentary proof to this effect, but PP failed to provide certified CTO compliance report from SPCB as per TOR granted to PP. **The Committee was of the opinion that instant proposal is not greenfield project but it is a proposal for change in product line; therefore, certified compliance report of CTO from SPCB is necessary as per TOR. The PP also needs to submit the NOC from the State Biodiversity Authority.**

The proposal was accordingly **returned** in its present form for submission of the revised application as per provisions of the EIA Notification, 2006.

Agenda No. 7.5

Proposed expansion project for manufacturing of various Synthetic Organic Chemicals by M/s Maldeep Catalysts Private Limited, located at Plot No: 2101, 2102, 2103, Gidc-Panoli Dist.: Bharuch, Gujarat- Consideration of Environment Clearance

[IA/GJ/IND3/196711/2020, IA-J-11011/135/2020-IA-II (I)]

The EAC made deliberations on the proposal. The Committee noted that the PP did not attend the meeting, neither shared any information with the Ministry/EAC. The Committee noted that there are many shortcomings in the proposal and such it cannot be considered. The Committee took serious view of the absence of the PP and opined that they have wasted the precious time of the Committee and Ministry officials trying to making them to attend the meeting and waiting for their presentation. **The Committee recommended that the Consultant (M/s Envisafe Environment Consultants, Ahmedabad) be debarred for presentation before the Committee for next two months, for uploading the incomplete proposal and being absent without any information to the EAC.**

The proposal was accordingly RETURNED in its present form

Agenda No. 7.6

Setting up of Active Pharmaceutical Ingredient (API) manufacturing unit with production capacity of 340.0 MT/Month by M/s. Myland Life Sciences Pvt. Ltd., Unit-I located at Sy

**No.: 290, Dondapadu Village, Chinthalapalem Mandal, Suryapet District, Telangana State
- Consideration of Environmental Clearance**

[IA/TG/IND2/199153/2021, IA-J-11011/175/2016-IA-II (I)]

The Project Proponent and the accredited Consultant M/s. Rightsource Industrial Solutions Pvt. Ltd., made a detailed presentation on the salient features of the project and informed that:

The proposal is for environmental clearance to the project for Setting up of Active Pharmaceutical Ingredient (API) manufacturing unit with capacity of 340 MT/Month by Myland Life Sciences Pvt. Ltd., Unit-I located at Sy No.: 290, Dondapadu Village, Chinthalapalem Mandal, Suryapet District, Telangana State.

The details of products and capacity are as under:

S. No	Product Name	Quantity in MT/Month	CAS No	Therapeutic Use
1	Abacavir	20.00	136470-78-5	Antiviral
2	Acyclovir	10.00	59277-89-3	Antiviral
3	Amoxicillin	100.00	26787-78-0	Antibiotic
4	Ampicillin	100.00		Antibiotic
5	Azithromycin	10.00	83905-01-5	Antibiotic
6	Ciprofloxacin Hydrochloride	10.00	86393-32-0	Anti-Bacterial
7	Cloxacillin	100.00	61-72-3	Antibiotic
8	Diclofenac Sodium	5.00	15307-86-5	Anti-inflammatory
9	Dicloxacillin	40.00	3116-76-5	Antibiotic
10	Dolutegravir	5.00	1051375-16-6	Antiretroviral
11	Favipiravir	5.00	259793-96-6	Antiviral
12	Flucloxacillin	20.00	5250-39-5	Antibiotic
13	Levofloxacin	10.00	100986-85-4	Antibiotic
14	Lopinavir	10.00	192725-17-0	Antiretroviral
15	Oseltamivir Phosphate	5.00	196618-13-0	Used to treat influenza-A & B
16	Oxacillin	40.00	66-79-5	Antibiotic
17	Raltegravir	5.00	518048-05-0	Antiretroviral

S. No	Product Name	Quantity in MT/Month	CAS No	Therapeutic Use
18	Remdesivir	5.00	1809249-37-3	Antiviral
19	Ritonavir	5.00	155213-67-5	Used to treat HIV
20	Valsartan	5.00	137862-53-4	Antiretroviral
Total (Any four products will be manufactured at any given point of time)		340.00		

LIST OF BY-PRODUCTS AND ITS QUANTITIES

S. No	Name of the product	Name of the By-Product	Quantity in Kg/Day
1	Abacavir	Phosphoric acid	334.60
		Disodium tartarate	596.80
2	Acyclovir	Acetic Acid	231.30
3	Amoxicillin	Phenyl acetic acid	1679.00
4	Ampicillin	Phenyl acetic acid	1797.00
5	Ciprofloxacin Hydrochloride	Sodium acetate	191.90
		Piperazine Hydrochloride	152.30
		Ammonium acetate	86.20
6	Cloxacillin	Sodium ethoxide	847.00
7	Dicloxacillin	Sodium methoxide	232.40
8	Favipiravir	Sodium acetate	166.70
		Potassium Bromide	174.70
9	Flucloxacillin	Sodium Methoxide	124.80
10	Levofloxacin	Ethyl acetate	311.70
		Ethanol	165.10
11	Lopinavir	Benzyl Alcohol	191.50
		Monosodium citrate	379.20
		Potassium chloride	306.90

S. No	Name of the product	Name of the By-Product	Quantity in Kg/Day
		Monosodium citrate	326.20
12	Oseltamivir Phosphate	Tert butyl chloride	48.50
13	Oxacillin	Sodium ethoxide	368.40
14	Ritonavir	Sodium acetate	95.80
		Sodium phosphate	34.10
		4-nitro phenol	104.70
Note: The quantity of By-products based on respective products being manufactured.			

The project/activities are covered under Category 'B2' of item 5 (f) 'Synthetic, Organic Chemicals Industry' of the schedule to the Environment Impact Assessment (EIA) Notification, 2006 (amendment on 27.03.2020). Due to applicability of general condition (interstate boundary within 5 km), the project requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry. Public hearing is exempted since the proposed project falls under category B2. It was informed that no litigation is pending against the proposal.

The total land area for the proposed project is 26.9 Acres (108819.97 Sqm). Industry will develop greenbelt in an area of 38034.9 Sqm (34.95 %). The proposed project cost is about Rs.40.5 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.358 Lakhs and the recurring cost (operation and maintenance) will be about Rs.36 Lakhs per annum. Total Employment will be of 300 persons. There are no National parks, Wildlife sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.

The total water requirement is 368.67 m³/day and will be met from Ground water supply. Generated effluent of 165.61 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.

The Power requirement will be 1000 kVA and will be met from Telangana State Southern Power Distribution Company Limited (TSSPDCL). The unit is proposed to install 1 x 500 kVA & 1 x 380 kVA DG Sets, Stack height of 9 mts & 8 mts will be provided as per CPCB norms. The unit is proposed to install 1 x 2.0 TPH & 2 x 4.0 TPH Coal fired boilers with stacks of height 30 mtrs each. Cyclone separators and bag filters will be installed for the boilers for controlling the particulate emissions (within statutory limit of 115 mg/ Nm³).

Details of Process emissions generation and its management.

S. No.	Name of the Gas	Quantity in Kg/Day	Treatment Method
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1	Carbon dioxide	632.00	Dispersed into the atmosphere
2	Hydrogen	22.00	Diffused by using Nitrogen through Flame arrestor
3	Ammonia	1251.00	Scrubbed by using chilled water media
4	Oxygen	280.00	Dispersed into the atmosphere
5	Hydrogen Bromide	140.00	Scrubbed by using C. S. Lye solution
6	Hydrogen chloride	4417.00	Scrubbed by using chilled water media
7	Sulphur dioxide	2606.00	Scrubbed by using C. S. Lye solution
8	Hydrogen Fluoride	22.00	Scrubbed by using C. S. Lye solution
9	Dimethylamine	86.00	Scrubbed by using chilled water media

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

S. No	Name of the Waste	Quantity	Disposal Method
Hazardous Waste Details			
1	Organic solid waste (Process Residue)	9028 Kg/Day	Will be sent to Cement Industries
2	Spent Carbon	82 Kg/Day	
3	Solvent Distillation Residue	595 Kg/Day	
4	Organic distillate from MEE Stripper	1600 Kg/Day	
5	Inorganic Solid Waste	3021 Kg/Day	Will be sent to TSDF
6	MEE Salts	7336 Kg/Day	
7	ETP Sludge	180 Kg/Day	
8	Used Oils	180 Ltrs/Annum	Will be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container liners	1500 No's / Month	After Detoxification will be sent to SPCB authorized agencies.
10	Used Lead Acid Batteries	4 No's/ Annum	Send back to suppliers for buyback of New Batteries
Solid waste details			
11	Ash from boilers	10850 Kg/Day	Will be sent to Brick Manufacturers

The Member Secretary informed the EAC that the Ministry has recently issued an Office Memorandum dated 28.01.2021 which inter-alia request EAC to clearly recommend the permissible pollution load i.e., quantity and quality, including composition of emissions, discharge and solid waste generation. In compliance this OM, PP has submitted the following pollution load information and the EAC deliberated on the issue. PP also requested that EC may include the name of products also otherwise PP will face difficulty in obtaining the CTE/CTO from concerned SPCB.

Kg Per Day														
Water Input	EFFLUENT WATER								SOLID WASTE					
	Effluent Water	Inorganics In Effluent	Organics In Effluent	TDS	COD	HTDS	LTDS	Total Effluent	Organic Solid waste	Inorganic Solid waste	Spent Carbon	Distillation Residue	Process emissions	Fugitive loss
65666.67	65478.83	1759.06	1779.20	1759.06	3377.53	50825.62	32283.07	83108.69	9027.93	3021.28	81.67	594.67	8227.40	584.67

HAZARDOUS SOLID WASTE DETAILS

Kg Per Day			
SOLID WASTE			
Organic solid waste	Inorganic solid waste	Spent Carbon	
9027.93	3021.28	81.67	594.67

EMISSION DETAILS

Kg Per Day	
Process emissions	Fugitive emissions
8227.40	584.67

Kg Per Day								
CO2	H2	NH3	O2	HBr	HCl	SO2	HF	(CH3)2NH
632.04	22.08	1250.65	279.60	139.53	4417.07	2606.33	21.72	85.43

Deliberations in the EAC:

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

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

The Member Secretary further informed the EAC that the Ministry has recently issued an Office Memorandum dated 28.01.2021 and inter-alia requested that EAC shall clearly

recommend the permissible pollution load i.e. quantity and quality, including composition, of emissions, discharge and solid waste generation. In compliance of this OM, PP has submitted the pollution load and the EAC also deliberated on the pollution load as estimated by the PP/Consultant.

The Committee noted that the PFR/EMP report reflects the present environmental concerns and the projected scenario for all the environmental components. The Committee deliberated the action plan and budget allocation for green belt development, mitigation measure towards Air, Water, Noise and Soil pollution. The Committee also deliberated the activities/action plan and its mitigation plan and found it to be addressing to the issues in the study area. The Committee also suggested that the storage of toxic/explosive raw material/products shall be undertaken with utmost precautions and following the safety norms and best practices.

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

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

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

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

- (v). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (vi). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (vii). Total fresh water requirement shall not exceed 368.67 m³/day and will be met from Ground water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (viii). Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (ix). Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (if applicable).
- (x). Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xi). Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xii). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiii). The green belt of at least 5-10 m width shall be developed in atleast 33% of the total project area, mainly along the plant periphery/ additional land. Trees have to be planted with spacing of 2m x 2m and number of trees have to be increased accordingly. The plant species can be selected that will give better carbon sequestration. All trees must be planted within first year. Selection of plant species shall be as per the CPCB guidelines

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

- (xiv). The activities and the action plan proposed by the project proponent to address the socio-economic issues in the study area, shall be completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit. All the commitments made shall be satisfactorily implemented.
- (xv). A separate Environmental Management Cell (having a qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

Agenda No. 7.7

Setting up of API manufacturing products by M/s Svan Chemicals Pvt Ltd. located at Plot No. F-30, 401/ 402, A Wing New Udyog Mandir No.2, Mogul Lane, Mahim (West), MIDC Chincholi, Solapur, Mumbai City, Maharashtra- Consideration of Environmental Clearance

[IA/MH/IND2/198597/2021, IA-J-11011/73/2021-IA II (I)]

The Project Proponent and the accredited consultant M/s. Enviro Resources has not forwarded copies of the requisite documents with the EAC members prior to the meeting as per the standard practice and as also informed through the meeting agenda uploaded on Parivesh portal. The Committee was of the opinion that protocol for appraisal must be followed by the project proponent and Consultant. The Consultant must send requisite documents and presentation well before the last date mentioned in the agenda. The Committee also recommended to issue Show Cause Notice to the consultant for not following the procedure of appraisal as mentioned in EIA Notification, 2006 and instructions mentioned in the agenda which uploaded in advance on Parivesh portal.

The proposal was accordingly returned in its present form for submission of revised application as per provisions of the EIA Notification, 2006.

Agenda No.7.8

Proposed project for manufacturing of various Dyes, Dye Intermediates and Optical Brightening Agent by M/s Aarna Chemicals, located at Survey No. 434, Village: Neja, Ta.: khambhat, Dist: Anand, Gujarat, Anand,Gujarat - Consideration of Environmental Clearance

[IA/GJ/IND3/200864/2019, IA-J-11011/110/2019-IA II (I)]

The EAC deliberated on the proposal. The Committee Members pointed out that the brief summary, presentation and documents related to the project have not been received either through mail or through post. The Committee expressed their inability to consider the proposal without understanding the project in details and studying the project. The Committee suggested the PP/Consultant to get confirmation from each and every Members regarding the receipt of the documents through mail.

The proposal was accordingly DEFERRED for the needful and to be placed in the next EAC meeting.

Agenda No. 7.9

Expansion of existing Bulk Drugs & Intermediates Manufacturing Unit along with 2.5 MW co-generation by M/s Tagoor Chemicals Pvt. Ltd. located at Survey No.:32, Tupakulagudem (V), Tallapudi (M), District West Godavari, Andhra Pradesh - Amendment Environmental Clearance regarding.

[IA/AP/IND2/198486/2021, J-11011/368/2014-IA II (I)]

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide letter J-11011/368/2014-IA-II (I)] dated: 19.01.2021 for the project Expansion of existing Bulk Drugs & Drug Intermediates Manufacturing Unit along with 2.5 MW co-generation located at Survey No.: 32, Tupakulagudem (V), Tallapudi (M), West Godavari (Dist.), Andhra Pradesh State in favour of M/s. Tagoor Chemicals Pvt. Ltd.

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

Para of EC issued by MoEF&CC	Details as per the EC	To be revised/ read as	Justification/ reasons
S. No. 4 & Page No. 3	By-Products & its quantities were not mentioned in Granted EC Letter.	Need to be include By-Products & its quantities in Granted EC Letter	The By-Products & its quantities are mentioned in 1 st EAC Meeting Minutes held on 17-19 th Nov, 2020 in Page No. 39. But in the Granted EC Letter, the By-Products & its quantities were not mentioned. Hence, PP requested to include the By-Products & its quantities in the Granted EC Letter. PP submitted a request letter regarding problem faced by PP in obtaining CFE/CFO.

LIST OF BY-PRODUCTS AND ITS QUANTITIES

S. No.	Product Name	Name of the By- product	Quantity in Kg /Day
1	Clopidogrel Bi-sulphate	Ammonium sulphate	7848.00
	Omeprazole		
	Domperidone		
2	Domperidone	Sodium bromide	948.00
	Cyclobenzaprine hydrochloride		
	Itraconazole		
3	Cyclobenzaprine hydrochloride	Magnesium Chloride	239.00
	Cyproheptadine Hydrochloride		
	Desloratadine		
4	Desloratadine	Potassium chloride	226.00
	Ebastine		
5	Ebastine	Aluminium hydroxide solution (12%)	667.00
6	Itraconazole	Potassium bromide	117.00
	Telmisartan		
7	Pantoprazole sodium Sesquihydrate	Ammonium chloride	2215.57
	Domperidone		
8	Pantoprazole sodium Sesquihydrate	Ammonium acetate	437.00
		Acetic acid	289.00
		Ammonium phosphate	994.00
		Sodium methyl sulphate	1238.00
9	Pantoprazole sodium Sesquihydrate	Sodium acetate	1660.00
	Domperidone		
	Rabeprazole sodium		
	Omeprazole		
10	Omeprazole	Sodium nitrite	757.37
11	Domperidone	Methanol	299.00
12	Losartan Potassium	Trityl alcohol	43.50
13	Bupropion	Sodium bromide (After neutralization of HBr with Caustic Lye solution)	556.00
	Itraconazole		
	Loperamide Hydrochloride		
Note: The By-Products will be produced according to the combination of required products manufacturing.			

Deliberations in the EAC:

The PP submitted a request letter regarding problem faced by PP in obtaining CFE/CFO. The EAC noted that the by-product list was mentioned in the earlier minutes of EAC meeting, however it was not reflected in the final EC letter. The EAC took cognizance of the problem

faced by PP and agreed for the amendment/corrigendum as proposed by PP and presented by the consultant. Accordingly, the EAC **recommended** to include by-products in the corrigendum.

Agenda No. 7.10

Discussion on Standardization/Optimization of conditions w.r.t. Standard Terms of Reference (ToR)

The Member Secretary made a detailed presentation on Standardization/Optimization of conditions w.r.t. Standard Terms of Reference (ToR). It was informed that the Committee in its meeting held on 14-15 January, 2021 has taken up the issue related to Standardization/Optimization of conditions w.r.t. Standard Terms of Reference. Following items and project/activities as per the EIA Notification, 2006 related to Industry-3 sector has been considered.

Category	Sector
4(d)	Chlor-alkali industry
4(e)	Soda ash Industry
5(a)	Chemical fertilizers
5(b)	Pesticides industry and pesticide specific intermediates (excluding formulations)
5(f)	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)
5(h)	Integrated paint industry

The Standard ToR for the above sectors has also been circulated to the EAC Members. Further, the matter has been discussed again in the EAC meeting held on 22-23 February, 2021 and a Sub Committee has been constituted to examine the matter. The Standard ToR for the above sectors has also been circulated to the EAC subcommittee members by the Ministry.

The Committee made detailed deliberations on the Committee. The Committee opined that considering recent accidents, emphasizes shall also be given to safety and risk assessment. Further, ToR shall also include the projects of violation nature in accordance with the Ministry's Notification S.O.804 (E) dated 14th March, 2017.

The Committee after detailed deliberations has recommended to include following additional ToR in the Standard ToR.

- (i). The CER activities shall be related to environment.*
- (ii). The PP shall provide latest and ecofriendly technology for product manufacturing.*
- (iii). The PP shall have more emphasize on Green chemistry.*

- (iv). *The PP shall provide CAS No. of products along with product list.*
- (v). *The PP shall provide details of amount of carbon sequestered in their unit through greenbelt/other modes, in case of expansion project.*
- (vi). *Life structure and sustainability for carbon and water foot print.*
- (vii). *Detailed pollution Load estimation.*
- (viii). *Transportation of Hazardous substance, effluents etc shall be carried out through authorized and GPS enable vehicles/Trucks only.*
- (ix). *Category of Hazardous Wastes shall be mentioned in the EIA/EMP report and in presentation.*
- (x). *Details of greenhouse gases and emissions shall be provided.*
- (xi). *Greenbelt shall be developed in the first year of the project and wind breaks shall be erected.*
- (xii). *Study area map shall be overlapped with all the associated features.*
- (xiii). *PP shall give emphasize on green fuels.*
- (xiv). *The project from NCR shall not use Coal as fuel. Further, PP shall avoid use of Coal in the CPAs.*
- (xv). *The PP shall provide the Cost-Benefit analysis with respect to the environment due to the project.*

For the projects reported to be of violation nature, following additional ToR shall be considered.

- (i) *The State Government/SPCB to take action against the project proponent under the provisions of the Environment (Protection) Act, 1986, and further no consent to operate to be issued till the project is granted EC.*
- (ii) *Direction to be issued under section 5 of the Environment (Protection) Act, 1986 to stop the violating activities till the EC is obtained.*
- (iii) *The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.*
- (iv) *Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR).*
- (v) *Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.*

- (vi) *The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter (13) in the EIA report by the accredited consultants.*
- (vii) *Budget of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage shall be completed within three years and to be prepared accordingly.*

The Committee, after detailed deliberations, desired that, Standard ToR may be revised with the above mentioned additional ToRs and revised Standard ToR may be circulated to EAC sub-committee for consideration.

Agenda No. 7.11

Discussion on Finalization of Guidelines regarding the rating of Consultants by EAC members on the basis of the EIA/EMP report, forms filled on PARIVESH portal and presentation before the EAC Committee-Regarding

The Member Secretary informed to the EAC that the issue related to finalization of Guidelines regarding the rating of Consultants by EAC members on the basis of the EIA/EMP report, forms filled on PARIVESH portal and presentation before the EAC Committee were deliberated by the EAC in its meeting held during January 14-15, 2021.

The matter was deliberated in details by the EAC w.r.t. addressing the issue of quality of EIA/EMP Reports, presentation and performance of consultants. The Committee applauded the step taken by the Ministry for rating of consultant and opined that this will improve the performance of consultant and quality of EIA/EMP report and various mitigation measures being adopted for pollution control.

IA (Policy Division) has shared a template for rating of consultants and requested to deliberate the template with the EAC during the meeting and provide inputs/comments for the same. The Committee suggested as follows:

- (i) More weightage should be given to the completeness of information while giving rating in terms of number out of ten.
- (ii) The consultant should show location wise data of GLC, water quality, noise level etc. and validation shall be done from the Govt. portal or any other authentic source.
- (iii) Scoring shall be based on present scenario and implement ability of the existing project.
- (iv) Knowledge and presentation skill of the consultant should be encouraged in the rating so that project can be deliberated with quality in less time.
- (v) EAC opined that the template prepared by the Ministry may be modified as follows:

Guidelines and Format for Rating of Consultants by EAC Members

Standards of Rating on Point Scale (1-10)

(A) EIA/EMP Report

Sr. No.	Standards(Weightage 30 %)	Allotted Marks (Score 1-10)	Marks Based on Assessment	Remarks
1.	Factual accuracy in EIA/EMP report;	+5		
2.	Inconsistency of information in the report , if any	-2		
3.	Completeness of information in the report	+1		
4.	Correctness of documents uploaded in support of the claims	+1		
5.	Implement ability of suggested Environmental Management Plan	+3		
Average			X	

(B) Form Filled on PARIVESH PORTAL

Sr.No.	Standards(Weightage - 30%)	Allotted Marks (Score 1-10)	Marks Based on Assessment	Remarks
1.	Factual accuracy in filling up of Forms and consistency of information with EIA/EMP and coordinates of PP /Company	+4		
2.	Correctness of documents uploaded in support of the claims	+3		
3.	Completeness of information in Forms	+3		
Average			Y	

(C) Form Filled on PARIVESH PORTAL

Sr.No.	Standards(Weightage - 40%)	Allotted Marks (Score 1-10)	Marks Based on Assessment	Remarks
1.	Quality of presentation	+4		
2.	Quality of inputs/ answers provided against queries by EAC	+6		
3.	Discrepancy between the data presented and submitted reports/forms	-3		
4.	Incompetency in terms of justification of the project	-1		
Average			Z	
Weighted Average				

The meeting ended with thanks to the Chair.

GENERAL CONDITIONS

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.
- (iii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iv) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (v) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (vi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (vii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (viii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

- (ix) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (x) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <https://parivesh.nic.in/>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (xi) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
- (xii) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

List of the Expert Appraisal Committee (Industry-3) members participated during Video Conferencing (VC) meeting

S. No.	Name of Members	Designation
1.	Dr. Rajashekar P. Mandi Director, School of Electrical & Electronics Engineering, REVA University, Bangalore - 64 E-mail: rajashekarmandi@yahoo.com	Chairman
2.	Dr. Ashok Kumar Saxena, IFS Bungalow No. 38, Sector-8A, Gandhinagar, Gujarat – 382008 E-mail: ashoksaxena1159@gmail.com	Member
3.	Prof. (Dr.) A.B. Pandit Vice Chancellor, Institute of Chemical Technology, Mumbai, Sir JC Bose Fellow, Government of India Email: ab.pandit@ictmumbai.edu.in	Member
4.	Prof. (Dr.) S. N. Upadhyay Research Professor (Hon.), Department of Chemical Engineering & Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi E-mail: snupadhyay.che@iitbhu.ac.in	Member
5.	Prof. (Dr.) Arvind K. Nema Professor, Department of Civil Engineering Indian Institute of Technology, Delhi, Hauz Khas, New Delhi -110 016 Email: aknema@civil.iitd.ac.in / aknema@gmail.com	Member
6.	Shri Santosh Gondhalkar 'Shree' Apartment, Flat 401, Plot No. 22, Tukaram Society, Santhnagar, Pune- 411009 E-mail: santoshgo@gmail.com	Member
7.	Dr. Suresh Panwar House No.4, Gayateri Green Society, NH 58 Bypass,Kankerkhera, Meerut, Uttar Pradesh Email-spcppri@gmail.com	Member
8.	Shri Tukaram M Karne Nagpur, Maharashtra E-mail: tmkarne@gmail.com	Member

9.	Dr. Uma Kapoor Regional Director, CGWA, 18/11, Jamnagar House, Mansingh Road, New Delhi E-mail: Uma-cgwb@nic.in	Member
10.	Shri Dinabandhu Gouda Additional Director, DH IPC-I, Room No. 309A, Third Floor, Central Pollution Control Board, PariveshBhawan, East Arjun Nagar, Delhi – 110032 E-mail: dinabandhu.cpcb@nic.in	Member
11.	Shri Sanjay Bisht Scientist 'E', Room No. 517, Office of the Director General of Meteorology, Indian Meteorological Department, Musam Bhawan, Lodhi Road, New Delhi -110003 E-mail: sanjay.bist@imd.gov.in	Member
12.	Dr. R. B. Lal, Scientist 'E'/Additional Director Ministry of Environment, Forest and Climate Change Jor Bag Road, New Delhi-110003 Telefax: 011-24695362, E-mail: rb.lal@nic.in	Member Secretary
MoEFCC		
13.	Shri Ajay Raghav	Scientist 'D'
14.	Dr. E.P. Nobi	Research Officer
15.	Mr. Ritin Raj	Research Assistant

Approval of EAC Chairman

Email

Additional Director MoEFCC Dr R B LAL

Re: Revised Draft Minutes of the 7th EAC (Industry-3) meeting held during March 11-12, 2021 (through Video Conferencing) for approval of the Chairman (After compilation of comments received from EAC)

From : rajashekarmandi@yahoo.com

Mon, Mar 22, 2021 01:12 PM

Subject : Re: Revised Draft Minutes of the 7th EAC (Industry-3) meeting held during March 11-12, 2021 (through Video Conferencing) for approval of the Chairman (After compilation of comments received from EAC)

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

Reply To : Rajashekar Mandi
<rajashekarmandi@yahoo.com>

Dear Dr. R.B. Lal,
The draft is in order and is approved.

With warm regards,

Dr. Rajashekar P. Mandi, PhD, SMIEEE

Director, School of Electrical & Electronics Engineering,
REVA University,

Chairman | Expert Appraisal Committee (EAC) - Industry 3 | Ministry of Environment,
Forest & Climate Change | Govt. of India
