

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

**Dated: 03.03.2021**

**MINUTES OF THE 5<sup>th</sup> EXPERT APPRAISAL COMMITTEE (INDUSTRY-3  
SECTOR) MEETING HELD DURING FEBRUARY 22-23, 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: FEBRUARY 22, 2021 (MONDAY)**

**(i) Opening Remarks by the Chairman**

The Chairman made hearty welcome to the Committee members and opened the EAC meeting for further deliberations.

**(ii) Confirmation of the Minutes of the 5<sup>th</sup> Meeting of the EAC (Industry-3 Sector) held during February 1-2, 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 **5<sup>th</sup> Meeting of the EAC (Industry-3) held during February 1-2, 2021** conducted through Video Conferencing (VC), and as such no request has been received for any modifications except one proposal of M/s. Chambal Fertilisers and Chemicals Limited (deliberated separately in these minutes), 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. 6.1

**Setting up of API Manufacturing Unit by M/s SR Qualichem at Plot Nos. 61 to 66, APIIC Industrial Park, Tirumalagiri Village, Jaggaiahpetta Mandal, Andhra Pradesh- Consideration of Environment Clearance.**

**[IA/AP/IND2/195990/2021, IA-J-11011/22/2021-IA-II(I)]**

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).

Project proponent reported that the tenure of SEIAA/SEAC, Andhra Pradesh was expired at the time of submission of application, therefore the Project proponent has submitted the application online on Parivesh Portal to the Ministry and accordingly, the Proposal was placed in the Agenda.

It was informed to the EAC that the Ministry, vide notification dated 17.02.2021, extended the term of SEIAA/SEAC, Andhra Pradesh up to 19.06.2021. Accordingly, the proposal now may be appraised by SEIAA/SEAC, Andhra Pradesh.

The Member Secretary also informed to the Committee that as per para 2 (i), of Ministry's circular dated 23.10.2017 "If the SEIAA/SEAC is constituted before the Expert Appraisal Committee (EAC) meeting wherein in the proposal (Terms of Reference (TOR)/Environment Clearance(EC)) is listed as an agenda item for consideration, then the proposal, be not appraised by the EAC and it shall be transferred online to the concerned SEIAA/SEAC.

The Committee, after detailed deliberation, recommended the transfer the instant proposal to SEIAA/SEAC for appraisal as per the instant guidelines/circular issued by the Ministry.

### Agenda No. 6.2

**Expansion for manufacturing of Synthetic organic chemicals 1071 TPM to 5050 TPM in existing unit, located at Plot No. 24, 24/1, GIDC Industrial Estate, Panoli-394116, Tal: Ankleshwar, Dist: Bharuch, Gujarat by M/s Merchem Limited- Consideration of Environment Clearance**

**[IA/GJ/IND3/196414/2020, No. IA-J-11011/70/2020-IA-II(I)]**

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

The proposal is for Expansion of Synthetic Organic Chemicals (From 1071 MT/Month to 5050 MT/Month) manufacturing unit by M/s. Merchem Limited located at Plot No. 24, 24/1, GIDC Industrial Estate, Panoli, Taluka Ankleshwar, District Bharuch, Gujarat.

The details of products and capacity are as under:

S. No.	NAME OF THE PRODUCT	CAS No.	QUANTITY (MT/MONTH)			END-USE OF PRODUCT
			EXISTING	PROPOSED	TOTAL	
<b>I</b>	<b>CHEMICAL INTERMEDIATE</b>					
1	NaMBT Intermediate (Sodium Mercapto Benzothiazole)	2492-26-4	334	226	560	Intermediate
2	4 - ADPA (P-amino diphenyl amine)- Intermediate	101-54-2	0	460	460	
	Thiazoles					
3	MBT (2-Mercaptobenzothiazole)	149-30-4	125	125	300	Accelerator
4	MBTS (Dibenzothiazole Disulfide)	120-78-5				
5	ZMBT (Zinc-2-mercaptobenzothiazole)	155-04-4				
6	Activated Thiazole	288-47-1	0	50		
<b>II</b>	<b>CO PRODUCTS</b>					
	Na <sub>2</sub> S/ NaHS	1313-82-2	155	105	260	
	Benzothiazole	95-16-9	0	50	50	
<b>III</b>	<b>SULPHENAMIDES</b>					
7	CBS (N-Cyclohexyl-2-benzothiazole sulfenamide)	95-33-0	290	310	600	Accelerator
8	TBBS (N-Tertiarybutyl-2-Benzothiazole Sulfenamide)	95-31-8				
9	MBS (2-(4morpholiniothio)-Benzothiazole)	102-77-2				
10	DCBS (Dicyclo Hexyl Benzo Thiazole Sulphenamides)	4979-32-2				

11	TBSI(N-T-BUTYL-2-benzothiazole sulphenimide)	95-31-8				
12	DBBS (N,N-Dibenzyl-2-benzothiozole Sulpenamide)	--				
<b>IV</b>	<b>SPECIALTY CHEMICALS</b>					
13	DHTS (Hexamethylene-1,6-Bis (thiosulphate),dihydrate	5719-73-3	0	500	500	Specialty Chemicals
14	3-hydroxy-N(1-3-dimethylbutylidene)-2 Naphthohydrazide	214417-91-1				
15	ZDDP(Zinc Dialkyl Dithio Phosphate)	6990-43-8				
16	Hydro quinone Ethoxylated ether	104-37-1				
17	DBD (2,2-dithio bis - benzanilide)	120-78-5				
18	AHB(Aniline Heptaldehyde Base )	110-62-3				
19	DTDC(N, N' DithioCaprolactum )	23847-08-7				
20	TAIC(Tri-allyl-iso-cyanurate)	--				
21	TMBS (N-phenyl - N (Trichloro methyl sulphanyl)- benzene sulphenamide )	--				
22	TAT (2,4, Triallyloxy-1,3,5-Triazine)	101-37-1				
23	PBM (N N phenylene Bis maleimide)	3006-93-7				
24	CCMB (1,3-bis(citraconimidomethyl) benzene)	73046-18-1				
25	DBDH (1,6-bis (N,N-dibenzylthiocarbamoyldithio) -hexane	151900-44-6				
26	44PD (N,N' - di-sec-butyl-p-phenylenediamine (C14-H24-N2))	793-24-8				

27	DHTQ (Poly (1,2-dihydro-2,2,4-trimethylquinoline)	26780-96-1				
28	77PD (N,N'-Bis (1,4-Dimethylpentyl)-P-Phenylenediamine)	3081-14-9				
<b>V</b>	<b>ANTIOXIDANTS</b>					
29	6PPD(N-(1,3-Dimethyl-Butyl)-N'-Phenyl-p-phenylenediamine) & Similar product	793-24-8	167	1233	1600	Antioxidants
30	TDQ (Tri MethylDihydroQuinoline) & Similar product	147-47-7				
31	SP (Mixture of Styrenated Phenols )	--	0	200		
32	MB (2 - Mercapto Benzimidazole)	583-39-1				
33	ZMMB (Zinc Salt of 4 &5 , Methyl 2-mercapto Benzimidazole)	61617-00-3				
<b>VI</b>	<b>DITHIOCARBAMATE</b>					
34	ZDBC (Zinc Di,N-Butyl DithioCarbamate)	136-23-2	0	200	200	Accelerator
35	ZBEC (Zinc Di Benzyl Dithio Carbamate)	14726-36-4				
36	ZDC (Zinc Di Ethyl Dithio Carbamate)	14324-55-1				
37	ZDMC(Zinc Di Methyl Dithio carbamate)	137-30-4				
38	SDMC (Sodium Di Methyl Di Thio Carbamate)	128-04-1				
39	DPTT (DiPenta Methylene Thiuram Tetra Sulphide)	120-54-7				
40	TBzTD (Tetra Benzyl Thiuram Disulphide)	10591-85-2				
41	TMT (Tetra Methyl Thiuram Disulphide)	137-26-8				
<b>VII</b>	<b>FORMULATION CHEMICAL</b>					
42	Formulation Products/Repacking	--	0	500	500	Formulation chemicals

<b>VII</b>	<b>R&amp;D PRODUCT/CHEMICALS</b>					
43	Thiazoles/ Sulphenamides/ Specialty Chemicals/Antioxidants/Dith iocarbamate & other	--	0	20	20	R & D Product/ Chemical s
	<b>TOTAL</b>	--	<b>1071</b>	<b>3979</b>	<b>5050</b>	
	Captive Power Plant	--	1.36 MWH	-1.36 MWH	00 MWH	It will be removed

The project/activities are covered under category B of item 5(f) 'Synthetic organic chemicals industry' of the Schedule to the Environment Impact Assessment Notification, 2006. Due to applicability of general condition (located within 5 km of CPA), the project requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

The ToR has been issued by Ministry vide letter dated 24<sup>th</sup> July 2020. Public hearing is exempted since the proposed project is located in industrial area. It was informed that no litigation is pending against the proposal.

Existing land area is 89613.97 m<sup>2</sup>; no additional land is required for proposed expansion project. Industry has already developed Greenbelt in an area of 23% i.e., 20000 m<sup>2</sup> out of 89613.97 m<sup>2</sup> of area of the project. Unit will develop remaining area of 17% @15850 m<sup>2</sup> as green belt. The estimated project cost is Rs. 162.38 Crores including existing investment of Rs. 66.38 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.20.07 Crores and the Recurring cost (operation and maintenance) will be about Rs. 1.81 Crores per annum.

Total Employment will be 900 persons as direct & indirect for project. Industry proposes to allocate Rs. 96 Lakhs (approx.) in next 1 year of the additional project cost towards Corporate Environment Responsibility. No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wild life Corridors etc. lies within 10 km distance.

Ambient air quality monitoring was carried out at 9 locations during March 1, 2019 to May 31, 2019 and submitted baseline data indicates that ranges of concentrations of PM10 (76.98 -95.94 µg/m<sup>3</sup>), PM2.5 (39.30 -50.79 µg/m<sup>3</sup>), SO<sub>2</sub> (17.52- 26.72 µg/m<sup>3</sup>) and NO<sub>2</sub> (15.26 - 28.53 µg/m<sup>3</sup>) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.01873 µg/m<sup>3</sup>, 0.27928 µg/m<sup>3</sup> and 0.10005 µg/m<sup>3</sup> with respect to PM10, SO<sub>x</sub> and NO<sub>x</sub>. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 3133 KL/Day of which fresh water requirement of 2128 KL/Day and will be met from GIDC Water Supply, Panoli. In existing scenario, water requirement is 510

KL/Day which is met through GIDC Water Supply, Panoli. After proposed expansion, total water requirement will be 3133 KL/Day which will also be met through GIDC Water Supply, Panoli.

PP reported that 1246 KL/Day industrial effluent will be generated from the unit and will be divided into two Streams :-

**STREAM-I:** 498.4 KL/Day Low TDS stream (from process, boiler, cooling, washing) will be treated in ETP giving primary, Secondary & Tertiary treatment and out of it 205 KLD effluent will be stored in guard pond for disposing to FETP of M/s. NCTL, Ankleshwar which ultimately lead to deep sea for final disposal through NCTL pipeline and remaining treated effluent 288 KLD will be reused in the plant.

**STREAM-II:** High TDS effluent 747.6 KLD will be subjected to stripper column followed by MEE and ATFD. Treated High TDS effluent 647 KLD will be reused in the plant.

**STREAM-III:** 100 KL/Day Domestic wastewater will be treated in STP & Out of it 70 KL/Day will be reuse in Gardening and remaining 30 KL/Day will be disposing to FETP of M/s. NCTL, Ankleshwar which ultimately lead to deep sea for final disposal through NCTL pipeline.

Power requirement for after proposed expansion project will be 2500 KVA (Proposed) will be met from DGVCL and (Existing) Captive Power Plant (1.36 MWH) will be remove after expansion. (Existing) There is no D.G Set and (Proposed) 2 Nos. DG set of 750 KVA & 1250 KVA capacity shall be used as standby during power failure. Stack (height 11 m) will be provided as per CPCB norms.

Unit shall have Existing 1 Nos. of 12 TPH Steam Boiler – 30 M Height, 1 Nos. of 5 TPH Boiler –30 M Height and proposed 4 Nos. of TFH (6 L Kcal/hr) – 30 M Height, 1 Nos. of Steam Boiler (22 TPH) – 40 M Height, 2 Nos. of DG Set (750 KVA) & (1250 KVA) – 11 M Height set will be installed. Adequate Stack height & ESP and water scrubber will be installed for controlling the Particulate emissions (within statutory limit of 150 mg/Nm<sup>3</sup>) respectively. Steam boiler (5 TPH) will be removed after expansion.

**Details of Process emissions generation and its management.**

**1) Flue Gas Stack**

<b>SR. NO.</b>	<b>PARTICULARS</b>	<b>FUEL</b>	<b>FUEL QUANTITY</b>	<b>STACK HEIGHT</b>	<b>EMISSION NORMS</b>	<b>APCM</b>
<b>EXISTING</b>						
1	Steam Boiler (12 TPH)	Natural Gas	2212.5 m <sup>3</sup> /hr.	30 m	PM<150 mg/nm <sup>3</sup> SO <sub>2</sub> < 100 ppm NO <sub>x</sub> < 50ppm	Adequate Stack Height
2	Steam Boiler* (5 TPH)	Natural Gas	4425 m <sup>3</sup> /hr.	30 m		Adequate Stack Height

3	Captive power plant*	Natural Gas		30 m		--
<b>PROPOSED</b>						
1	TFH -1 (6 L Kcal/hr)	Natural Gas	1680 SCMD	30 m	PM<150 mg/nm <sup>3</sup> SO <sub>2</sub> < 100ppm NO <sub>x</sub> < 50ppm	Adequate Stack Height
2	TFH -2 (6 L Kcal/hr)	Natural Gas	1680 SCMD	30 m	PM<150 mg/nm <sup>3</sup> SO <sub>2</sub> < 100ppm NO <sub>x</sub> < 50ppm	Adequate Stack Height
3	TFH -3 (6 L Kcal/hr)	Natural Gas	1680 SCMD	30 m	PM<150 mg/nm <sup>3</sup> SO <sub>2</sub> < 100ppm NO <sub>x</sub> < 50ppm	Adequate Stack Height
4	TFH -4 (6 L Kcal/hr)	Natural Gas	1680 SCMD	30 m	PM<150 mg/nm <sup>3</sup> SO <sub>2</sub> < 100ppm NO <sub>x</sub> < 50ppm	Adequate Stack Height
5	Steam Boiler (22 TPH)	Natural Gas/ Briquette/ Coal	12430 SCMD/ 109.08 MT/DAY/ 100 MTD	40 m	PM<150 mg/nm <sup>3</sup> SO <sub>2</sub> < 100ppm NO <sub>x</sub> < 50ppm	Adequate Stack Height with ESP and water scrubber
6	D. G. Set (750 KVA)	HSD	166 Lit/hr.	11 m	PM<150 mg/nm <sup>3</sup> SO <sub>2</sub> < 100 ppm NO <sub>x</sub> < 50ppm	Adequate Stack Height
7	D.G Set (1250 KVA)	HSD	275 Lit/hr.	11 m	PM<150 mg/nm <sup>3</sup> SO <sub>2</sub> < 100 ppm NO <sub>x</sub> < 50ppm	Adequate Stack Height
<b>NOTE: * Captive power plant &amp; steam boiler (5 TPH) will be removed after expansion.</b>						

### Process Stack

SR. NO.	LOCATION	HEIGHT (M)	PARAMETER S	APCM	PRESCRIBED NORMS
<b>EXISTING</b>					
1	Flare Stack	31	Scrubber	PM	150 mg/nm <sup>3</sup>
				SO <sub>2</sub>	40mg/nm <sup>3</sup>
				NO <sub>x</sub>	25mg/nm <sup>3</sup>
				HCl	20mg/nm <sup>3</sup>
				Chlorine	9 mg/nm <sup>3</sup>
				H <sub>2</sub> S	45 mg/nm <sup>3</sup>
				CO	150 mg/nm <sup>3</sup>



PROPOSED					
1	Process Stack	16	Two stage Scrubber	HCl Cl <sub>2</sub>	20mg/nm <sup>3</sup> 09mg/nm <sup>3</sup>
2	Process Stack	16	Two stage Scrubber	NH <sub>3</sub>	175 mg/nm <sup>3</sup>

**Details of Solid waste/ Hazardous waste generation and its management.** 12 Categories of Hazardous/Solid Wastes shall be generated from this Unit.

#### **Total Proposed:**

**Used Oil** (Existing) @ 2.37 MT/Annum & (Total Proposed) @ 15.48 MT/Annum shall be Collected, Stored, Transported and Disposal by selling to registered refiners. **Discarded Container** (Existing) @ 18.25 MT/Annum & (Total Proposed) @ 54.75 shall be Collection, Storage, Decontamination, Transportation, and Disposal by selling to authorize recycler. **ETP waste** (Existing) @ 3311 MT/Annum & (Total Proposed) @ 19680 MT/Annum shall be Collected, Stored, Transported and Disposal at TSDf site of BEIL/SEPPL. **Process Residue** (Existing) @ 72.3 MT/Annum & (Total Proposed) @ 9611 MT/Annum shall be Collection, Storage, Transportation & disposal by incineration at CHWIF of BEIL/ SEEPL or Co- processing to cement industries / waste mixing facility for cement industries. **E-Waste** (Total Proposed) @ 1.5 MT/Annum shall be Collection, storage, transportation and disposal by sell it to approved/registered E-waste recycler. **Fly ash** (Total proposed) @ 3139.20 MT/Annum shall be Collection, storage, transportation and selling to brick manufacturer. **Plastic Waste** (Total Proposed) @ 120 MT/Annum shall be Collection, Storage, Transportation and sending to TSDf of BEIL/SEPPL or approved TSDf Site and send to registered recyclers. **Used PPE's** (Total Proposed) @ 10 MT/Annum Collection, Storage, Transportation and sending to TSDf of BEIL/SEPPL or Approved TSDf Site. Used Batteries @ (Total proposed) @ 60 Nos. shall be Collection, Storage and sold to approved Recyclers. **Spent/ Mix Solvent** (Total proposed) @ 8945 MT/Annum shall be Collection, Storage, in-house distillation and re-use in premises or sale to authorize user. Recovered Solvent (Total Proposed) @ 108961 MT/Annum shall be Collection, Storage, in-house distillation and re-use in premises or sale to authorize user. **Stripper Residue** (Total proposed) @ 576 MT/Annum Collection, Storage, Transportation & disposal by incineration at CHWIF of BEIL/ SEEPL or Co- processing to cement industries / waste mixing facility for cement industries.

PP reported that prior EC was not required for ongoing operations as Synthetic Organic Chemicals were not covered under EIA Notification dated Jan. 27, 1994. PP have not carried out any expansion after Sept. 14, 2006. Therefore, PP have not obtained EC. This is first expansion after Sept. 14, 2006. Unit has Certified CCA Compliance report from RO, Bhopal MoEF&CC. File No. 5-(0)/3/2021 (ENV)/053 Dated 25/01/2021

#### **Deliberations in the EAC**

The Member Secretary explained various provisions of the EIA Notification, 2006 and Office Memorandum/Circular/Guidelines issued by the Ministry from time to time. In this instant proposal the project/activities covered under item 5(f) 'Synthetic organic chemicals industry' of the Schedule to the Environment Impact Assessment Notification, 2006 and requires Environmental clearance. The Member Secretary also informed to the Committee that as per Division record there is no such project registered for EC in year 2008.

The Committee deliberated on the proposal. The Committee noted that the project proponent was unable to provide justification for not obtaining environmental clearance for existing operations. The project proponent has informed that EC was not required for the unit as the CTE for the unit was obtained before the EIA Notification, 2006. It was also informed that PP have not carried out any expansion. The PP has also submitted compliance of CTO conditions, certified by the Ministry's Regional Office, Bhopal. The Committee observed that generally compliances of CTO conditions be submitted by SPCB, however in this instant proposal the compliances of CTO conditions be conducted by RO, MoEFCC.

The Committee noted that the PP in earlier meeting held during November 17-19, 2020 informed that the unit had started their production activity from August 2008. It has been stated that as per CTE No.53227 obtained from GPCB dated 19/06/2013, the unit had obtained Environmental Clearance from MoEF&CC on 15/04/2008, however the copy of EC is not available. CTE (dated 07/12/2005) and CCA (dated 20/09/2008) were also obtained from Gujarat Pollution Control Board. It was informed that the unit was under operation till March 2016 and due to financial crisis, the factory went into shut down afterwards. The sick unit was acquired on March 2019. It was earlier informed that the unit does not fall under violation since it had EC (as per of CTE No. 53227 dated 19/06/2013), CTE and CCA from relevant authorities.

The Project proponent has now informed that there is no such EC available and mentioning of the same in the CTE is a typographical mistake and as such EC was not required for the unit. The Committee however noted that as per the CTE dated 19.06.2013, the project proponent was directed to obtain EC for its operations it is observed that the unit was in operation in violation of the provisions of the EIA Notification, 2006. It was informed to the PP that, as per the EIA Notification, 2006, the new units or the units undertaking expansion/modernization/changes, covered under the ambit of the EIA Notification, 2006 are required to take prior EC for its operations. The Committee also noted that the PP has proposed for effluent discharge to CETP/FETP, however no documentary proof has been submitted regarding the permission for the same. The Committee also suggested that considering the CPA, the PP shall plan for ZLD and use natural gas/briquette instead of coal.

The Committee observed that the instant proposal has various deficiencies and needs detailed clarifications from the PP. The Committee, after detailed deliberations, desired for following requisite information/inputs in respect of the following:

- (i). The Committee noted that the project proponent was unable to provide justification for not obtaining environmental clearance for existing operations. The Committee observed that the information w.r.t. requirement of EC submitted by PP are confusing. The project proponent, shall submit a detailed justification, if any, for not considering the project under violation category. If PP fails to provide sufficient justification the EAC may treat the proposal under violation category on merit.
- (ii). Affidavit that no violation has been taken and there was no increase in production, no product mix change undertaken, no expansion, no addition of equipment's/utilities leading to modernization of the plant, as per the EIA Notification, 2006.
- (iii). Justification for contradictory statements regarding EC earlier and now.
- (iv). Action plan on Non-compliances of CTO conditions w.r.t. green belt, HW management and other issues etc. needs to be submitted.
- (v). Details of existing products along with copies of all the CTE/CTO (tabular format).
- (vi). NOC from earlier consultant for utilization of data/EIA/EMP report by the present consultant.
- (vii). Permission for effluent discharge to FETP needs to be submitted.
- (viii). Commitment for using natural gas as fuel instead of coal, as the Unit is being located at critically polluted area.
- (ix). PP has mentioned different details of EC for eg. In form 2 at S No. 6 mentioned the date of EC is 25.01.2021, in CTE it is mentioned that the unit had obtained Environmental Clearance on 15/04/2008, in meeting PP cited that there is no EC and Unit is being operated with valid CTO. In this regard correct details of EC needs to be submitted.
- (x). PP in form 2 at S No. 11 mentioned that there is no General condition, however in the EIA/EMP report it is mentioned that general condition w.r.t. CPA and hence PP submitted the instant proposal at Central level.
- (xi). PP in form 2 at S No. 20 mentioned that total land is 8.96139 ha, however the present land use breaks up for the study area is reported 3.1416ha which is not possible. PP/Consultant has not filled the details in Form 2 adequately.
- (xii). The Member Secretary informed to the Committee that as per Division record there is no such project registered for EC in year 2008. The Ministry may verify the authenticity of the Compliance status of the CTO issued by the Regional Office of the Ministry. The Regional Office may also be asked for availability of EC for the unit and requirement of EC for its existing operations.

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

### **Agenda No. 6.3**

**Setting up of API manufacturing unit by M/s MRR Labs Private Limited located at Sy Nos: 320-14 & 320-15, Bhimolu Village, Gopalapuram Mandal, West Godavari District, Andhra Pradesh - Consideration of Environmental Clearance**

**[IA/AP/IND2/194794/2021, IA-J-11011/52/2021-IA-II(I)]**

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).

Project proponent reported that the tenure of SEIAA/SEAC, Andhra Pradesh was expired at the time of submission of application, therefore the Project proponent has submitted the application online on Parivesh Portal to the Ministry and accordingly, the Proposal was placed in the Agenda.

It was informed to the EAC that the Ministry, vide notification dated 17.02.2021, extended the term of SEIAA/SEAC, Andhra Pradesh up to 19.06.2021. Accordingly, the proposal now may be appraised by SEIAA/SEAC, Andhra Pradesh.

The Member Secretary also informed to the Committee that as per para 2 (i), of Ministry's circular dated 23.10.2017 "If the SEIAA/SEAC is constituted before the Expert Appraisal Committee (EAC) meeting wherein in the proposal (Terms of Reference (TOR)/Environment Clearance(EC)) is listed as an agenda item for consideration, then the proposal, be not appraised by the EAC and it shall be transferred online to the concerned SEIAA/SEAC.

The Committee, after detailed deliberation, recommended the transfer the instant proposal to SEIAA/SEAC for appraisal as per the instant guidelines/circular issued by the Ministry.

### **Agenda No. 6.4**

**Expansion of Fertilizer Unit with addition of Chemical Unit (MBAPL – Unit - II) of M/s Madhya Bharat Agro Products Limited, located at Plot No.A-1 & A-2, Sorai Industrial Area, Village–Sorai, Tehsil - Banda, District -Sagar, Madhya Pradesh by - Consideration of Environment Clearance**

**[IA/MP/IND2/191211/2019, IA-J-11011/314/2019-IA-II(I)]**

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

The proposal is for environmental clearance for the project Expansion of Fertilizer Unit with addition of Chemical Unit (MBAPL–Unit - II) at Plot No. A-1 & A-2, Sorai Industrial Area, Village– Sorai, Tehsil - Banda, District -Sagar, Madhya Pradesh by M/s. Madhya Bharat Agro Products Limited.

The details of products and capacity as under:

<b>S. No.</b>	<b>Product Details</b>	<b>Existing Quantity (MTPA)</b>	<b>Proposed Quantity (MTPA)</b>	<b>Total Quantity (MTPA)</b>
1.	Phosphoric Acid (expansion in capacity)	19,800	1,00,000	1,19,800
2.	SSP	1,80,000	0.0	1,80,000
3.	GSSP	1,80,000	0.0	1,80,000
4.	Triple Super Phosphate (TSP)	66,000	0.0	66,000
5.	Synthetic Gypsum	1,65,000	0.0	1,65,000
6.	Beneficiated Rock Phosphate (BRP)	1,89,000	0.0	1,89,000
7.	Sodium Silica Fluoride (SSF)	1,320	0.0	1,320
8.	LABSA	0.0	33,000	33,000
9.	Zinc Sulphate	0.0	13,200	13,200
10.	Di Ammonium Phosphate & Nitrogen and phosphorus complex (DAP/NPK Complex fertilizer) and water-soluble fertilizers & Fortified with Zinc, Boron, and Sulphur.	0.0	3,30,000	3,30,000
11.	Gypsum Granular	0.0	1,00,000	1,00,000
12.	Sulphuric Acid	0.0	2,00,000	2,00,000
13.	Vinyl Sulphone	0.0	2,400	2,400
14.	Ammonia	0.0	1,00,000	1,00,000
15.	Nitric Acid	0.0	66,000	66,000
16.	Calcium Nitrate & Fortified with Zinc, Boron, and Sulphur.	0.0	66,000	66,000
17.	Sulphate of Potash (SOP)	0.0	19,800	19,800

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

The ToR has been issued by Ministry vide letter No. J-11011/314/2019-IA-II (I) dated 12.12.2019. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 20.08.2020. The main issues raised during the public hearing are related to

employment, ground water contamination and road maintenance and construction of computer room in Govt. School, Sorai. No litigation is pending against the proposal.

MPSEIAA, Bhopal, had issued EC earlier vide letter no. 1309/EPCO-SEIAA/12 (MPSEIAA-Case no. 557/2010) dated 14.03 2012 and 7305/SEIAA/2015 (MPSEIAA-Case no 1708/2013) dated 06.11.2015 to the existing project in favour of M/s Madhya Bharat Agro Products Limited. The Certified complied report (Partly complied) was obtained on 04.12.2020 and Action Taken Report for the compliance was submitted to RO, Bhopal on 23.12.2020.

### **Deliberations in the EAC**

The EAC made a detailed deliberation on the proposal. The EAC was informed that the project proponent obtained EC for existing operations from the SEIAA, as the activities were covered under Category B. The Committee was of the view that the existing fertilizer project shall undertake detailed study on the impacts of fertilizers in soil. The Committee also noted that the fresh water requirement is at a very high end and project proponent shall undertake a water audit and revise the water scheme accordingly. The Committee also noted that PP has not submitted conservation plan, action plan on public hearing issues, action taken report on directions from the SPCB. The PP also required to revise the product list as per the EIA Notification, 2006 category wise and separately listing products requiring EC and not requiring EC. Further, there is lack of clarity on the land area, area for green belt etc.

The Committee also deliberated on **various technical and environmental data deficiencies in the proposal and desired for following requisite** information/input, as under:

- (i) Project proponent/Consultant shall revise the complete EIA/EMP Report providing all the requisite information as per the Appendix III of the EIA Notification, 2006.
- (ii) Form -2 shall be revised with complete details of the project.
- (iii) PP in form 2 at S No. 20 mentioned that total land is 32.64 ha, however the present land use breaks up for the study area is reported 32.64ha which is not possible. PP/Consultant has not filled the details in Form 2 adequately.
- (iv) PP in form 2 at S No. 7.1, has not submitted the complete PH proceeding along-with forwarding letter & its action plan.
- (v) Details of the total land area and greenbelt development plan along with area. The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Details of trees to be specified.
- (vi) Issues raised during public hearing, response by the project proponent, action plan with budgetary allocation. The activities/action plan shall be part of the EMP.
- (vii) Detailed process flow diagram needs to be submitted.
- (viii) Study/Report on the impacts of proposed fertilizers in soil.

- (ix) Detailed water audit by third party and revised water scheme accordingly.
- (x) Conservation plan for schedule I species needs to be submitted.
- (xi) All ECs copy needs to be uploaded in Form 2 (S No. 6).
- (xii) Details of directions issued by the SPCB, action taken report on directions and current status of implementation needs to be submitted.
- (xiii) Revise the product list as per the EIA Notification, 2006 category wise and separately listing products requiring EC and not requiring EC.

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

### **Agenda No. 6.5**

#### **Expansion of Organic Intermediates by M/s Chirag Organics Pvt Limited, located at Plot No.: 902/ A, Phase III, Notified Industrial Area, GIDC Vapi, Tal.: Pardi, Dist.: Valsad, Gujarat - Consideration of Environmental Clearance**

**[IA/GJ/IND3/181673/2020, File No. IA-J-11011/58/2020-IA-II (I)]**

The Project Proponent and the accredited Consultant M/s. Eco Chem Sales & Services (ECSS), made a detailed presentation on the salient features of the project and informed that:

The proposal is for environmental clearance to the project for expansion of Organic Intermediates manufacturing unit at Plot No. 902/A, Phase III, GIDC Notified Industrial Area Vapi, Taluka Pardi, District Valsad, Gujarat by M/s Chirag Organics Pvt Ltd.

The details of products and capacity as under:

S/N	Product	CAS Number	Capacity, TPM			End Use of Product
			Existing	Proposed	Total	
1.	By Distillation; Mono Chloro Benzene	180-90-7	500	100	600	Dyes intermediates, Pharma, intermediates, Hygienic products
	or Ortho Di Chloro Benzene	95-50-1				
	or Meta di chloro benzene	541-73-1				
	Or Para Di Chloro Benzene	106-46-7				
	or Tri Chloro Benzene	12002-48-1				

S/N	Product	CAS Number	Capacity, TPM			End Use of Product
			Existing	Proposed	Total	
	or 1:2:4 Tri Chloro Benzene or 1:2:3 Tri chloro benzene	120-82-1				
2.	<u>By Distillation;</u> 2'4' Di chloro Acetophenone	2234-16-4	20	0	20	Pharma intermediates
	Or 2'4 Dichloro veloro phenone,	1009-14-9				
	or 2 2'4' Tri chloro acetophenone	4252-78-2				
3.	<u>By Chlorination;</u> Mono Chloro Benzene	180-90-7	100	500	600	Dyes intermediates
	or Di Chloro Benzene	95-50-1				
	or Tri Chloro Benzene	12002-48-1				
4.	Calcium Chloride (32-40%) Solution)	10043-52-4	0	1224	1224	Dyes intermediates, Pharma, intermediates.
	Or Calcium Chloride (Solid)			448	448	
5.	Meta Di chloro benzene	541-73-1	0	100	100	Dyes intermediates, Pharma intermediates.
	<b>Total</b>		<b>620</b>	<b>1924</b>	<b>2544</b>	

The project/activities are covered under category B of item 5(f) 'Synthetic organic chemicals industry' of the Schedule to the Environment Impact Assessment Notification, 2006. Due to applicability of general condition (located within 5 km of CPA), the project requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

The ToR has been issued by Ministry vide letter dated 18<sup>th</sup> March 2020. Public hearing is exempted since the proposed project is located in industrial area. It was informed that no litigation is pending against the proposal.

Existing land area is 2806 sqm., and no additional land required for proposed expansion. Industry will develop greenbelt in an area of 40.00 % i.e. 1122 m<sup>2</sup> (Existing 500 m<sup>2</sup> + Proposed 622 m<sup>2</sup>) out of total area of the project. The estimated project cost is Rs. 400.0 Lakhs including



existing investment of Rs 300.0 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 10.5 Lakhs and the Recurring cost (operation and maintenance) will be about Rs 38.0 Lakhs per annum. Total Employment will be 19 numbers persons including existing 14 numbers. Industry proposes to allocate total Rs 2.0 Lakhs towards Corporate Environmental Responsibility.

There are no national parks, wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, wildlife corridors etc. within 10 km distance from the project site. River Daman Ganga is flowing at a distance of 5 km in South West direction.

Ambient air quality monitoring was carried out at 8 locations during 1<sup>st</sup> December 2019 to 29<sup>th</sup> February 2020 and the baseline data indicates the ranges of concentrations as: PM10 (60.2 – 85.6 µg/m<sup>3</sup>), PM2.5 (30.2 – 43.5 µg/m<sup>3</sup>), SO<sub>2</sub> (8.6 – 16.2 µg/m<sup>3</sup>) and NO<sub>x</sub> (13.7 - 21.4µg/m<sup>3</sup>). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 2.37 µg/m<sup>3</sup>, 0.215 µg/m<sup>3</sup> and 0.1 µg/m<sup>3</sup> with respect to NO<sub>x</sub>, HCl and Cl<sub>2</sub>. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 58.74 KLD (Existing: 20.0 KLD + Proposed 38.74KLD) will be met from GIDC water supply department. Presently, there is no generation of any industrial effluent. After proposed expansion, total industrial effluent generation will be 8.15 KLD. Entire 8.15 KLD industrial effluent will be collected and treated in ETP followed by R.O. 6.5 KLD of RO permeate will be recycled in process and 1.65 KLD of RO rejection will be used as a toilet flushing, thus there will be Zero Liquid Discharge (ZLD). 4 KLD of domestic effluent will be passed through adequate capacity of septic tank/soak pit.

Total power requirement after expansion will be 250 kVA including existing 200 kVA and will be met from Dakshin Gujarat Veej Co. Ltd. One D.G. set of 125 kVA will be used as standby during power failure. Stack (height 11 m) will be provided as per CPCB norms to the proposed D.G. sets.

Existing one number of 12 lakhs kcal/hr Natural Gas fired Thermopack is provided having stack of height of 11 m, additional 2 nos. of 6 lakhs kcal/hr Natural Gas fired Thermopack having stack of height of 11 m will be provided for controlling the particulate emissions within the statutory limit.

Presently, there is a generation of HCl, Cl<sub>2</sub> gas from the process, which is scrub in two stage water followed by alkali scrubber.11 meters' height of vent is provided. After proposed expansion, there will be generation of HCl, Cl<sub>2</sub> gas from the process. HCl & Cl<sub>2</sub> will be scrub in existing modified two stage water followed by alkali scrubber.11 meters' height of vent will be provided.

**Details of Solid waste/ Hazardous waste generation and its management:**

S. No.	Type	Source	Quantity, TPA			Disposal
			Existing	Proposed	Total	
1	Discarded Containers (Sch:I/33.1)	Raw materials	10	2	12	Return to raw material supplier or sell to actual/authorized recycler
3	Used Oil (Sch:I/5.1)	Gearbox of reactors, D G set	0.02	0	0.02	Sell to actual/authorized recycler
4	Distillation Residue (Sch:I/36.1)	Distillation process	5.64	6.57	12.21	Sent to M/s. SEPPL, Kutch for co-processing.
5	Inorganic Acid (30-33% HCl) (Sch: I/26.3)	Chlorination process	1800	11667	13467	In-house utilization for manufacturing of calcium chloride
6	Bleed liquor from scrubber mainly NaCl (Sch: II/B3)	secondary scrubber of HCl	0	360	360	Dispose off into ETP followed RO plant
7	Inorganic waste from (Sch:I/26.1)	Unreacted lime from CaCl <sub>2</sub> process	0	645.6	645.6	Dispose off into TSDF.
8	Spent Aluminium Chloride soln. (20%) (Sch: II/ B10)	Process of MDCB	0	588	588	Sell to actual users having Authorization of SPCB under Rule 9

**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 the 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 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 conservation plan, action plan and budget allocation for green belt development, mitigation measure towards Air, Water, Noise and Soil pollution. The Committee has also deliberated on the activities/ action plan and found to be addressing the issues in the study area. The Committee also deliberated the activities/action plan and it's mitigation plan with respect to critically polluted area. The Committee suggested that the storage of toxic/explosive raw material/products shall be undertaken with utmost precautions and following safety norms and best practices. The Committee noted that the PP has submitted undertaking stating that 200 trees will be planted in first year around 622 sqm. area and shall also provide tertiary treatment (carbon filter) in ETP. The Committee noted that the existing unit is in operation with CTO from the SPCB and PP has submitted compliance of the existing CTO conditions and the same found to be satisfactory.

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 found the proposal in order and have 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 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 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 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.
- (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/mask 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 58.74 cum/day will be met from GIDC 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.
- (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). As proposed, green belt of at least 5-10 m width shall be developed in nearly 40% of the total project area, mainly along the plant periphery/adjacent area. The Committee noted that the PP has submitted undertaking stating that 200 trees will be planted in first year around in 622 sqm. area. 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). As proposed, conservation plan for the schedule-I species shall be implemented.
- (xvi). 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. 6.6**

**Proposed new Technical Grade Pesticide Plant located at Khatauni No. 1426-1431; Khata No. 83 Gata No. 337, Rakba No. 279, Lagan 29.10 and Khata No. 168, Gata No. 332, Rakba No. 1.099, Lagan No. 39.70, Rakba No. 2.378, Village-Akbarpur Amla, Tehsil-Najibabad, District-Bijnor-Uttar Pradesh by M/s CROP Care Organics LLP- Consideration of Environmental Clearance**

**[IA/UP/IND2/114245/2019, IA-J-11011/254/2019-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:

PP reported that the EIA/EMP report with TOR compliance and Public Hearing Minutes were uploaded on the Parivesh Portal under Industry-2 Committee for obtaining EC and case was presented in 26<sup>th</sup> Meeting of EAC (Industry-2). After due deliberation, the committee suggested to obtain the suitability of the project location from DC of the district and had return the proposal in present form. As suggested, the desired letter has been obtained from SDM. Now, as per the new OM by MoEF&CC vide F.NO. 22-8/2020-IA.III dated 2<sup>nd</sup> Dec 2020, category 5(b) project needs to be appraised in Industry-3 Sector, thus it was submitted to Industry -3 along with the Letter from SDM as suggested by Industry-2 Committee.

The proposal is for environmental clearance to the project for Setting up Technical Grade Pesticide Plant at Plot no. Khatauni No. 1426-1431; Khata No. 83 Gata No. 337, Rakba No. 279, Lagan 29.10 and Khata No. 168, Gata No. 332, Rakba No. 1.099, Lagan No. 39.70, Rakba No. 2.378, Village Akbarpur Amla, Tehsil Najibabad, District Bijnor, Uttar Pradesh.

The details of products and capacity as under:

S. No.	Class	Sub-Class	Products	MT / Annum		
1	FUNGICIDES	Aliphatic Nitrogen Fungicides	Cymoxanil Technical	100		
2		Anilide Fungicide	Metalaxyl Technical	50		
3		Conazole Fungicide	Hexaconazole Technical	500		
4			Propiconazole Technical			
5			Tebuconazole Technical			
6			Prothioconazole Technical			
7			Epoxyconazole Technical			
8			Pyrazole Fungicide		Bixafen Technical	80
9					Fluxapyroxad Technical	
10		Pyridine Fungicide	Boscalid Technical	80		
11			Fluopyram Technical			
12		Strobilurin Fungicides	Azoxystrobin Technical	200		
13			Picoxystrobin Technical			
14			Pyraclostrobin Technical			
15		Unclassified Fungicide	Tricyclazole Technical	100		
16	HERBICIDES	Aryloxyphenoxypropionic Herbicides	Clodinfop-propargyl Technical	150		
17			Propaquizafop Technical			
18			Quizalofop ethyl Technical			
19		Chloroacetanilide Herbicides	Pretilachlor Technical	450		
20			Butachlor Technical			
21		Chlorotriazine Herbicide	Atrazine Technical	200		
22			Terbutylazine Technical			
23		Dinitroaniline Herbicides	Pendimethalin Technical	200		

24		Organophosphorous Herbicide	Glyphosate Technical	450	
25		Sulfonylurea Herbicide	Pyrazosulfuron Technical	60	
26	Sulfosulfuron Technical				
27	Metsulfuron Methyl Technical				
28		Pyrimidinyloxybenzoic Acid Herbicides	Bispyribac Sodium Technical	100	
29		Triazinone Herbicide	Metribuzine Technical	100	
30	<b>INSECT ICIDES</b>	Diamide Insecticides	Chlorantraniliprole Technical	30	
31		Neonicotinoid Insecticides	Acetamiprid Technical	800	
32			Clothianidine Technical		
33			Dinetofuron Technical		
34			Imidacloprid Technical		
35			Thiamethoxam Technical		
36		Organophosphorus Insecticides	Acephate Technical	350	
37			Chlorpyriphos Technical		
38		Organothiophosphate Insecticide	Triazophos Technical	100	
39			Profenofos Technical		
49			Phenylpyrazole Insecticide	Fipronil Technical	50
41		Pyrethroid Insecticide	Lambda Cyhalothrin Technical	100	
42			Alphamethrin Technical		
43			Bifenthrin Technical		
44			Cypermethrin Technical		
45		Acaricide Insecticide	Hexithiazox	100	
46			Diafenthiuron		
47		Unclassified Insecticide	Fonicamide Technical	150	
48			Pyridaben Technical		
<b>TOTAL CAPACITY</b>				<b>4500</b>	

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

Standard Terms of Reference (TOR) was issued by MoEF&CC vide letter dated 04.11.2019. Public Hearing for the proposed project has been conducted by the Uttar Pradesh State Pollution Control Board on 20.07.2020. PH was chaired by District Magistrate. The main issues raised

during public hearing were related to wastewater /chemical effluent disposal, Corporate Environment Responsibility.

Land area of 23780 m<sup>2</sup> (2.378 ha.) has been proposed for the pesticide project. Industry will develop greenbelt in an area of 39.30 % i.e. 9345m<sup>2</sup> out of total area of the project. The estimated project cost of project is Rs. 30 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs 4.5 Crores and the Recurring cost (operation and maintenance) will be about Rs 2.35 Crores per annum. Total Employment will be 225 persons (Operation Phase: 150 no.; Construction Phase: 75) as direct & indirect employment.

There are no environmentally sensitive components such as National Park, Wildlife Sanctuary, Elephant / Tiger Reserve, migratory routes of fauna and wet land present within 10 Km radius of plant site. However, there are few reserve forests present within the study area. Nearest forest is Mohanwali RF located about 4.70 km NE of the site. Pelkhala river is flowing about 3.20 km in SE.

Ambient air quality monitoring was carried out at 8 locations during 1<sup>st</sup> March 2019 to 31<sup>st</sup> May 2019 and the baseline data indicates the ranges of concentrations as: PM<sub>10</sub> (46-95 µg/m<sup>3</sup>), PM<sub>2.5</sub> (21-55 µg/m<sup>3</sup>), SO<sub>2</sub> (5.2-11.4 µg/m<sup>3</sup>) and NO<sub>x</sub> (9-20.3 µg/m<sup>3</sup>). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.76971 µg/m<sup>3</sup>, 0.69253 µg/m<sup>3</sup>, 1.16524 µg/m<sup>3</sup>, 1.51172 µg/m<sup>3</sup>, µg/m<sup>3</sup>, 0.03356 µg/m<sup>3</sup> and 0.00839 µg/m<sup>3</sup> with respect to PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, SO<sub>2</sub>, HCl & HBr. All parameter concentrations are within the National Ambient Air Quality Standards (NAAQS).

The total water requirement for the plant will be 137 KLD and the freshwater requirement will be 50 KLD. The source of water for the proposed project is Borewell. The project obtained NOC for abstraction of ground water from 1 no. of proposed tubewell by Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation, Central Ground Water Authority vide NOC No. CGWA/NOC/IND/ORIG/2020/8112 valid upto 31.05.2022.

Effluent of 93 KLD (Industrial Wastewater-85 KLD; Domestic Sewage- 8 KLD) treated with Fenton treatment followed by MEE with ATFD and ETP, for industrial effluent. The treated water shall be completely reused in plant for process, cooling tower, washing and boiler purposes. Domestic sewage shall be treated in proposed STP and treated water will be reused for gardening. The plant will be based on Zero Liquid discharge system.

Power requirement of the proposed project will be 1000 kVA to be met from Uttar Pradesh Power Corporation Ltd. (UPCL). 2x380 kVA DG Sets will be used as standby during power failure. Stack Height of 6 m will be provided as per CPCB norms to the proposed DG sets. PP reported that 5.0 TPH boiler will be installed. Cyclone with bag filter and stack of height of 30 m will be installed for controlling the particulate emissions within the statutory limit of 115 mg/Nm<sup>3</sup> for the proposed boiler. Incinerator will also be installed with a stack height of 30 m to mitigate air emissions.



Details of Process emissions generation and its management is mentioned below:

Area	Stack Height	Stack Dia	Stack exit velocity	Stack Exit Temperature	Flow Rate	Emission Parameters		Control Measures
	in M	in M	M/ Sec	Deg °C	NM3/Hr	Parameter	Value	
Process Vents/Stack 1	30	0.1	47.26	35	1000	PM	< 10	Caustic/acid/water scrubbers and Stack
						HCl	< 20	
						HBr	< 5	
Process Vents/Stack 2	30	0.1	47.26	35	1000	PM	< 10	Caustic/acid/water scrubbers and Stack
						HCl	< 20	
						HBr	< 5	

The expected municipal solid waste generation at the project site will be 62 kg/day which will be segregated in biodegradable waste and recyclable waste. Recyclable waste will be sold off to authorized vendors. Biodegradable waste will be treated in small organic waste converter. The manure from OWC shall be used within the premises in landscaping.

#### Details of Solid Hazardous Waste Management

Sr. No	Type of waste	Category	Quantity	Facility
1	Chemical Sludge from wastewater Treatment (ETP sludge)	34.3	1.5 MTPM	Collection, Storage, Transportation, disposal at authorized TSDF.
2	MEE Salt	34.3	1.5 MTPM	Collection, Storage, Transportation, disposal at authorized TSDF.
3	Distillation Residues	20.3	77.8 MTPM	Collection, Storage, and disposal by Own incineration.
4	Ash	36.2	0.42 MTPM	Collection, Storage, Transportation, disposal at authorized TSDF/ to cement manufacture.
5	Used Oil	5.1	-	Collection, Storage, Transportation, disposal by selling registered Re-Refiners/ Recyclers.
6	Spent Acid	20.2	7.5 MTPM	Collection, storage, transportation, disposal at TSDF/Own Incineration/Sale to authorized vendor/End users/Co-Processing.
7	Discarded Containers/barrel/liners/contaminated with wastes/chemicals	33.3	-	Collection, Storage, Decontamination & Sale to authorized vendors.
8	Process waste	29.1	1.5 MTPM	Collection, Storage, disposal through onsite incineration

### **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 Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee also deliberated on the activities/action plan and found to be addressing the issues in the study area and public hearing issues. The Committee suggested that the storage of toxic/explosive raw material shall be bare minimum in quantity and inventory. The Committee noted that the project proponent committed before the Committee that no banned pesticide/chemicals shall be manufactured by the Company. The Committee found the additional information submitted by the project proponent to be satisfactory and addressing to the concerns of the Committee.

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 found the proposal in order and have 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 grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at **Annexure:-**

- (i). No banned pesticides/chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.
- (ii). This EC is subject to obtaining necessary clearances/approvals from the Government/Regulatory Authorities. Project Proponent shall not start the Unit without necessary clearances under various Acts/Rules.
- (iii). 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.

- (iv). As already committed by the project proponent, Zero Liquid Discharge 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.
- (v). Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (vi). The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
- (vii). 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.
- (viii). 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.
- (ix). Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.
- (x). 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.
- (xi). 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.
- (xii). Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.99% with effective chillers/modern technology.
- (xiii). Total fresh water requirement shall not exceed 50 cum/day to be met from ground water. Prior permission in this regard shall be obtained from the concerned regulatory authority/CGWA and renewed from time to time.
- (xiv). 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.

- (xv). 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.
- (xvi). The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. 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.
- (xvii). The activities and the action plan proposed by the project proponent to address the public hearing issues/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.
- (xviii). 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.

## **DAY 2: 23<sup>rd</sup> February, 2021 (Tuesday)**

### **Agenda No. 6.7**

**Setting up of API manufacturing unit by M/s KVR Drugs Private Limited located at Sy. Nos.: 320-16& 320-19, Bhimolu Village, Gopalapuram Mandal, West Godavari District, Andhra Pradesh– Consideration of Environment Clearance**

**[IA/AP/IND2/192617/2021, IA-J-11011/53/2021-IA-II(I)]**

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).

Project proponent reported that the tenure of SEIAA/SEAC, Andhra Pradesh was expired at the time of submission of application, therefore the Project proponent has submitted the application online on Parivesh Portal to the Ministry and accordingly, the Proposal was placed in the Agenda.

It was informed to the EAC that the Ministry, vide notification dated 17.02.2021, extended the term of SEIAA/SEAC, Andhra Pradesh up to 19.06.2021. Accordingly, the proposal now may be appraised by SEIAA/SEAC, Andhra Pradesh.

The Member Secretary also informed to the Committee that as per para 2 (i), of Ministry's circular dated 23.10.2017 "If the SEIAA/SEAC is constituted before the Expert Appraisal Committee (EAC) meeting wherein in the proposal (Terms of Reference (TOR)/Environment Clearance(EC)) is listed as an agenda item for consideration, then the proposal, be not appraised by the EAC and it shall be transferred online to the concerned SEIAA/SEAC.

The Committee, after detailed deliberation, recommended the transfer the instant proposal to SEIAA/SEAC for appraisal as per the instant guidelines/circular issued by the Ministry.

### **Agenda No. 6.8**

**Setting up of Active Pharmaceuticals Ingredients (API) manufacturing unit by M/s SVR Pharmatech Pvt. Ltd. located at Sy. Nos.: 384/1, 388/1, 389 & 391, Mellavagu Village, Bollapalli Mandal, Guntur District, Andhra Pradesh - Consideration of Environment Clearance**

**[IA/AP/IND2/195461/2021, IA-J-11011/54/2021-IA-II(I)]**

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).

Project proponent reported that the tenure of SEIAA/SEAC, Andhra Pradesh was expired at the time of submission of application, therefore the Project proponent has submitted the application online on Parivesh Portal to the Ministry and accordingly, the Proposal was placed in the Agenda.

It was informed to the EAC that the Ministry, vide notification dated 17.02.2021, extended the term of SEIAA/SEAC, Andhra Pradesh up to 19.06.2021. Accordingly, the proposal now may be appraised by SEIAA/SEAC, Andhra Pradesh.

The Member Secretary also informed to the Committee that as per para 2 (i), of Ministry's circular dated 23.10.2017 "If the SEIAA/SEAC is constituted before the Expert Appraisal Committee (EAC) meeting wherein in the proposal (Terms of Reference (TOR)/Environment Clearance(EC)) is listed as an agenda item for consideration, then the proposal, be not appraised by the EAC and it shall be transferred online to the concerned SEIAA/SEAC.

The Committee, after detailed deliberation, recommended the transfer the instant proposal to SEIAA/SEAC for appraisal as per the instant guidelines/circular issued by the Ministry

### **Agenda No. 6.9**

**Setting up of Active Pharmaceuticals Ingredients (API) Manufacturing Unit by M/s Sridev Pharma Pvt. Ltd located at Sy. Nos.: 117/1, 117/2A & 117/3, Jayanthipuram Village, Jaggaiahpeta Mandal, Krishna District, Andhra Pradesh - Consideration of Environment Clearance**

**[IA/AP/IND2/195366/2021, IA-J-11011/55/2021-IA-II(I)]**

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).

Project proponent reported that the tenure of SEIAA/SEAC, Andhra Pradesh was expired at the time of submission of application, therefore the Project proponent has submitted the application online on Parivesh Portal to the Ministry and accordingly, the Proposal was placed in the Agenda.

It was informed to the EAC that the Ministry, vide notification dated 17.02.2021, extended the term of SEIAA/SEAC, Andhra Pradesh up to 19.06.2021. Accordingly, the proposal now may be appraised by SEIAA/SEAC, Andhra Pradesh.

The Member Secretary also informed to the Committee that as per para 2 (i), of Ministry's circular dated 23.10.2017 "If the SEIAA/SEAC is constituted before the Expert Appraisal Committee (EAC) meeting wherein in the proposal (Terms of Reference (TOR)/Environment Clearance(EC)) is listed as an agenda item for consideration, then the proposal, be not appraised by the EAC and it shall be transferred online to the concerned SEIAA/SEAC.

The Committee, after detailed deliberation, recommended the transfer the instant proposal to SEIAA/SEAC for appraisal as per the instant guidelines/circular issued by the Ministry.

### **Agenda No. 6.10**

**Setting up of Formaldehyde (200 TPD), Urea Formaldehyde Resin (10 TPD) & Phenolic Formaldehyde Resin (10 TPD) manufacturing unit by M/s DIPIN Chemicals Pvt Ltd. at Plot No. F-58 & 59 Kaharani (Bhiwadi Ext), RIICO Industrial Area, Tehsil-Tijara, Dist.-Alwar State Rajasthan - Consideration of Environment Clearance**

**[IA/RJ/IND3/192391/2019, No.IA-J-11011/269/2019-IA-II(I)]**

The Project Proponent and the accredited consultant M/s Overseas Min - Tech Consultants, 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 Formaldehyde (200 TPD), Urea Formaldehyde Resin (10 TPD) & Phenolic Formaldehyde Resin (10 TPD) manufacturing unit by M/s DIPIN Chemicals Pvt Ltd. at Plot No. F-58 & 59 Kaharani (Bhiwadi Ext), RIICO Industrial Area, Tehsil-Tijara, Dist.-Alwar State Rajasthan

The details of products and capacity as under:

<b>S. No.</b>	<b>Name of Product</b>	<b>Capacity (TPM)</b>	<b>CAS No.</b>
1.	Formaldehyde	200	2145-27-9
2.	Phenolic Formaldehyde Resin (MF Resin)	10	9003-35-4
3.	Urea Formaldehyde Resin (UF Resin)	10	9011-05-6
	<b>Total</b>	<b>220</b>	

The project/activities are covered under category A of item 5(f) 'Synthetic organic chemicals industry' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

The ToR has been issued by Ministry vide letter dated 26<sup>th</sup> October, 2019. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 20.11.2020 which was presided over by the Additional District Collector. The major issues raised during public hearing are related to employment generation, safety provision in the industry, pollution control, air environment.

The existing land area is 3900 sq. m. and. Industry will develop greenbelt in an area of 40 % i.e., 1560 sq.m out of total area of the project. The estimated project cost is Rs.6.0 Crore. Total capital cost earmarked towards environmental pollution control measures is Rs.95.5 lakhs and the recurring cost (operation and maintenance) will be about Rs.23.1 lakh per annum. Total Employment will be of 25 persons.

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

Ambient air quality monitoring was carried out at 8 locations during October - December 2019 and the baseline data indicates the ranges of concentrations as: PM<sub>10</sub> (40.73 – 362.68µg/m<sup>3</sup>), PM<sub>2.5</sub> (24.57- 327.8µg/m<sup>3</sup>), SO<sub>2</sub> (3.3 - 46.23µg/m<sup>3</sup>) and NO<sub>2</sub> (4.2 - 104.81µg/m<sup>3</sup>). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.04569 µg/m<sup>3</sup>, 3.39381 µg/m<sup>3</sup> and 0.38217 µg/m<sup>3</sup> with respect to PM<sub>10</sub>, SO<sub>x</sub> and NO<sub>x</sub>. The resultant concentrations are more than three times the standard prescribed.



Total water requirement is estimated to be 195 KLD of which fresh water requirement is of 153 KLD, proposed to be met from treated water from CETP. Bhiwadi Jal pradushan Nivaran Association(BJPNACETP) given assurance of 195 KLD water for unit vide letter no. BJPNA/2020-2145 dated 22.07.2020.

Wastewater generation (28 KLD) from Processing, Cooling and Floor/container washing will be treated in solvent extraction plant followed by proposed primary, secondary and tertiary effluent treatment plant and finally sent to MEE to achieve ZLD. Domestic effluent (0.8 KLD) will be treated through septic tank/soak pit system. There will be no use of water in the process; however effluent generated from the process as water of reaction.

The unit proposed power demand of 500 kVA which will be met from the JVVNL. Industry propose one Steam boiler of 6 TPH (fuel: HSD: 25 L/hr) & D. G. Set of 2X350 kVA (fuel: HSD (200 L/day).

### **Deliberations in the EAC:**

The Committee noted that the EIA/EMP report was in compliance of the ToR; however, many sections of the EIA/EMP report was not satisfactory. The Committee further deliberated that the AAQ data and found that resultant concentrations were more than three times than the standard prescribed. The Committee recommended to do alternate site analysis and resubmit the proposal. The Committee was also not satisfied with the mitigation measures suggested by the PP and therefore recommend to revise the mitigation measure to be taken for pollution control. However, the Committee was very impressed with PP for taking treated water from CETP to fulfil the water requirement.

The Committee had also deliberated on various technical and environmental data deficiencies in the proposal and desired for following additional information/input, as under:

- (i) The Committee deliberated the AAQ data and found that resultant concentrations were more than three times than standard prescribed. Considering the location of the project site, details of alternative site needs to be conducted. Further, PP shall also recheck the AAQ data with SPCB/CPCB data.
- (ii) Public hearing issues, response, detailed action plan/activities with. Issues raised by each Participant shall be provided with response and action plan and commitment.
- (iii) Detailed greenbelt development plan along the periphery of the plant with revised layout.
- (iv) Details of court case, and its implication on the project, present status along with copy of petition and affidavits.
- (v) Details of red category industries adjacent to the alternate and existing project site

- (vi) Revised action plan to be taken for process emission mitigation and solid waste management.

After detailed deliberation by the EAC, the proposal was **returned** the proposal for the needful.

**Agenda No. 6.11**

**Setting up of manufacturing of Active Pharma Ingredients (APIs) unit by M/s SNA Healthcare Pvt Ltd located at Plot No. T-2 Tarapur M.I.D.C, Boisar, Palghar, Maharashtra - Consideration of Environment Clearance**

**[IA/MH/IND2/192358/2021, IA-J-11011/50/2021-IA-II(I)]**

The Project Proponent and the accredited Consultant M/s. Ampl Environ Pvt. Ltd. (AEPL), 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 manufacturing of Active Pharma Ingredients (APIs) unit by M/s SNA Healthcare Pvt Ltd of capacity 515 TPM located at Plot No. T-2 Tarapur M.I.D.C, Boisar, Palghar, Maharashtra.

The details of products and capacity are as under:

<b>S. No.</b>	<b>Name of Product</b>	<b>Quantity(TPM)</b>
1	Favipiravir	40
2	Flurbiprofen	25
3	Carprofen	40
4	Naproxen Sodium	60
5	Disulphurm/Monosulfirum	15
6	Micronazole Nitrate	30
7	Phynlyphrine Hydrocholride	15
8	Doxylamine succinate	10
9	Sulpride	25
10	Valproic Acid	75
11	Moxifloxacin Hcl	25
12	Gliclazide	25
13	Iron poly maltose complex	75
14	Allopurinol	55
	<b>Total</b>	<b>515</b>

	<b>By Products</b>	
1	Inorganic Aq. Layer of Sodium Bromide	75.00
2	Tri-n-Butyl Tin chloride	20.00
3	Aluminium Hydroxide and Chloride	40.00

The project/activities are covered under category B of item 5(f) 'Synthetic organic chemicals industry' of the Schedule to the Environment Impact Assessment Notification, 2006. Due to applicability of general condition (located in CPA), the project requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

### **Deliberations in the EAC:**

The Member Secretary 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. However, PP/Consultant had not submitted the pollution load.

**The Committee noted that the PFR/EMP report was not satisfactory and not reflects the present environmental concerns and the projected scenario for all the environmental components. The Committee deliberated the water balance and found data was mismatching from PFR/EMP report to the data presented before the EAC. The Committee also deliberated the action plan and mitigation measure to be adopted by PP to control emission and waste management and found unsatisfactory.** The amount allocated for EMP and others should be revised. Keeping in view of the CPA, EAC suggested to do one-month base line monitoring or base line data may be obtained from reliable/authorised third party. Pollution load was also deliberated by the Committee and suggested to do pollution load calculation as per recent OM of the Ministry. The Committee suggested to develop proposed green belt in one year.

After detailed deliberation by the EAC, the proposal was **returned** in the present form and suggested PP to submit revise application after rectifying the above mentioned deficiencies.

### **Agenda No. 6.12**

**Setting up of Dyes & Intermediates manufacturing project of 150 MT/Month (Crude) [{Disperse Azo Dyes (All colours) - 100 MT/Month, Coumarine Dyes (All colours)- 25 MT/Month & Methine Dyes (All colours) -25 MT/Month}], by M/s Krishnum Dyes & Intermediate Pvt. Ltd located at Khasara no 670/521 of Village - Untwalia, Tehsil & District - Churu, Rajasthan - Reconsideration of Environment Clearance**

**[IA/RJ/IND2/74141/2018, IA-J-11011/134/2018-IA-II(I)]**

The proposal was earlier considered by the EAC (Industry-2) in its meeting held during 11-13 May, 2020. The Committee after detailed deliberations desired for the following additional information and the reply submitted by the PP are as under:

<b>S. No.</b>	<b>Information desired by the EAC</b>	<b>Information provided by the PP</b>
1.	The EAC deliberations noted that the project area is classified as semi-critical area for water extraction and requires analysis on alternate source of water. Permission for ground water extraction. Analysis on alternate source of water, if any, and commitment/MoU needs to be relooked and submitted.	The total water requirement for the proposed Project has been estimated as 117.8 KLD; out of which 34.8 KLD will be freshwater, 61 KLD will be recycled water and 22 KLD will be in form of Ice. It has been proposed to source the Fresh water from ground water or other outside sources/local suppliers. The application (vide No. 21-4/12530/RJ/IND/2018) submitted to CGWA for withdrawal of ground water (34.8 KLD) has been approved from CGWA on 09 <sup>th</sup> January, 2021. Other than the above, permission for providing 34.8 KLD of water for the project as alternative emergent demand (on payment basis) has also been obtained from Executive Engineer, PHED, Division Churu vide letter no. 525 dated 25.06.2020.
2.	Commitment for not using any banned raw materials/solvent needs to be submitted.	PP submitted the required commitment.
3.	Since the Project proponent has submitted proposal for All colors Azodyes manufacturing therefore the Project proponent is needed to provide details of colour index generic number with their respective colour index number of Azodyes and confirm that there is no prohibition on their handling vide SO No. 243(E) dated 26 March,1997 of MoEF.	Details of the Colour Index Generic Number (CIGN) with their respective Colour Index Constitution Number (CICN) and CAS Numbers have been submitted.
4.	Details of issues raised during public hearing, Action plan with budgetary allocation with timelines needs to be submitted.	Time bound action plan for implementation of the commitments raised during Public Hearing along with budgetary allocation has been submitted.

<b>S. No.</b>	<b>Information desired by the EAC</b>	<b>Information provided by the PP</b>
5.	Details of Corporate Environmental Responsibility allocation and its plan with timelines and budgetary provisions.	As per OM of MoEFCC dated 30.09.2020, the company has proposed to spend Rs.40.50 Lacs for implementation of commitments made during Public Hearing.
6.	Water body Pithrana Johra exists at a distance of 0.3 km in NE direction, In this context PP needs to submit the mitigation measures to protect the water bodies as it is very near to the proposed site.	There is one water body name as Pithrana Johra (~0.3 Km in NE direction) falls within the study area of the project site. The proposed project will be a Zero Liquid Discharge Unit and there will be no change in the drainage and Topography of the buffer zone. Therefore, no adverse impact on the said water body is envisaged due to the proposed project. However, the company has proposed to rejuvenate Pithrana Johra by constructing 2 number of recharge shafts in the Pond. The same will facilitate the ground water recharge of 11846.75 cum/annum. Detailed Rain water harvesting plan has been submitted.
7.	PP needs to submit the following details on the Risk associated with the hazardous chemicals proposed to be used as a raw material; <ul style="list-style-type: none"> <li>• Risk need to be carried out for medium and Catastrophic ruptures/leak even for Methanol, Bromine including Hydrochloric acid, Sulphuric acid and Benzoyl Chloride etc.</li> <li>• Frequency/Probability of leak per year as done as done for any risk analysis.</li> <li>• Individual risk contours and societal risk F-N curves to assess against risk acceptable criteria using advanced 3D modelling.</li> <li>• PP to submit above referred.</li> </ul>	Detailed Risk Assessment Modelling has been carried out for the project. Copy of the Report is submitted.

The Project Proponent and their Consultant M/s J.M. Enviro Net 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 Dyes & Intermediates manufacturing project of 150 MT/Month (Crude) [{Disperse Azo Dyes (All colours) - 100 MT/Month, Coumarine Dyes (All colours)- 25 MT/Month & Methine Dyes (All colours) -25 MT/Month}], by M/s Krishnum Dyes & Intermediate Pvt. Ltd located at Khasara no 670/521 of Village - Untwalia, Tehsil & District - Churu, Rajasthan.

The details of products and capacity as under:

<b>S. No.</b>	<b>Products Details</b>	<b>Proposed Quantity (MT/Month)</b>
1.	Disperse Azo Dyes (All colours)	100
2.	Coumarin Dyes (All colours)	25
3.	Methine Dyes (All colours)	25
<b>Total Capacity</b>		<b>150 MT/Month (Crude)</b>

All Synthetic organic chemicals industry (dyes & dye intermediates) are listed at S.N. 5 (f) [Synthetic organic chemicals industry] of Schedule of Environment Impact Assessment (EIA) Notification, 2006. As the project site is not located inside notified Industrial area / Estate, the project falls under category 'A' and is to be appraised at Central Level by Expert Appraisal Committee (EAC).

The ToR has been issued by Ministry vide letter No. IA-J-11011/134/2018-IA-II(I); dated 18<sup>th</sup> May, 2018. Public Hearing for the proposed project has been conducted by Rajasthan State Pollution Control Board on 18<sup>th</sup> September, 2019 which was presided over by the District Collector. The main issues raised during the Public Hearing are related to employment opportunities, pollution control, development in the nearby villages, development of schools in nearby areas, waste water treatment method and regular health check-up of the workers. It was informed that there is no litigation pending against the proposal.

PP reported that existing land area is 10000 m<sup>2</sup> (1 Hectare /2.47 Acre). No additional land will be used for proposed project. Industry has already developed greenbelt in an area of 33% i.e. 3300 m<sup>2</sup> (0.33 hectare) out of total area of the project. The estimated project cost is Rs.20.21 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.1.5 Crores and the Recurring cost (operation and maintenance) will be about Rs.35 lakhs per annum. Total Employment will be of 99 persons. Industry proposes to allocate Rs.40.50 Lakhs towards Implementation of Public Hearing Action Plan.

There are no National parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km distance from the project site. Water body Pithrana Johra exists at a distance of 0.3 km in NE direction.

Ambient air quality monitoring was carried out at 8 locations during Summer Season (March, 2018 to May, 2018) and the baseline data indicates the ranges of concentrations as: PM10 (56.8 to 87.4  $\mu\text{g}/\text{m}^3$ ), PM2.5 (24.9 to 43.8  $\mu\text{g}/\text{m}^3$ ), SO2 (5.7 to 14.2  $\mu\text{g}/\text{m}^3$ ) and NO2 (10.2 to 25.2  $\mu\text{g}/\text{m}^3$ ). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.84  $\mu\text{g}/\text{m}^3$ , 0.28  $\mu\text{g}/\text{m}^3$ , 1.75  $\mu\text{g}/\text{m}^3$ , 1.96  $\mu\text{g}/\text{m}^3$  with respect to PM10, PM2.5, SO2 and NOx. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement is 117.8 KLPD of which fresh water requirement of 34.8 KLPD will be met from Ground water. Effluent of 82.5 KLPD quantity will be treated through tertiary level ETP (Based on aerobic digestion (MBBR), Ultrafiltration, Reverse Osmosis and MEE) of capacity 100 KLD. Domestic Effluent of 9 KLD quantity will be disposed of in soak pits via septic tank. The plant will be based on Zero Liquid discharge system.

Total Power requirement for proposed project will be 500 kVA and will be met from Jodhpur Vidhyut Vitran Nigam Limited (JDVVNL). 2 nos. of DG sets of capacity 125 kVA each will be installed as standby during power failure. Stack (height 6.5 m above the ground level) will be provided per CPCB norms to the proposed DG sets.

Unit has proposed one 5 TPH coal fired boiler. Multi cyclone with bag filter with stack height of more than 30 m will be installed for controlling particulate emissions within prescribed limit.

#### Details of Process emissions generation and its management:

Source	Emissions	Management
Process	Hydrochloric & Sulphuric acid bearing Acidic Fumes	<ul style="list-style-type: none"> <li>Alkali Scrubber with vent of 11 meter or above</li> <li>Installation of Sensors to ensure that no acid fumes are released.</li> </ul>
Boiler	PM, SO <sub>2</sub> , NO <sub>x</sub>	<ul style="list-style-type: none"> <li>Multi-Cyclone with Bag filter</li> <li>Stack of 30 meters</li> <li>Use of Low Sulphur Imported Coal in the Boiler</li> </ul>
DG Set	-	<ul style="list-style-type: none"> <li>Stack of adequate height</li> </ul>
Raw Material Handling, Storage & Transportation	PM	<ul style="list-style-type: none"> <li>Water sprinkling.</li> <li>Proper maintenance and check pollution under control of vehicles</li> <li>Greenbelt / plantation along the plant boundary</li> </ul>

**Details of Solid waste/ Hazardous waste generation and its management:**

S. No.	Type of Waste	Category of Waste	Quantity	Treatment / Disposal
1.	Process Sludge	Schedule I / 26.1	4-5 tonnes/ annum	Sold to approved /registered vendors
2.	Spent Solvent	Schedule I / 26.4	25.54 Tons/ Month	Sold to approved /registered vendors
3.	Discarded drums/Containers/Barrels/PP Liners/Bags	Schedule I / 33.1	1.5 Tons/ Month	Sold to approved /registered vendors
4.	Evaporator residue from MEE	Schedule I / 37.3	0.35 Tons/ Month	Collected in drums packed, labeled and stored at specified area and finally send to common waste landfill site (TSDF)
5.	ETP sludge	Schedule I / 35.3	10.0 Tons/ Month	ETP sludge will be sent to approved landfill site. (TSDF)
6.	Used /Spent oil	Schedule I / 5.1	20 Liters/ month	Sold to CPCB/RPCB registered recycler
7.	Waste Lead Acid Batteries, whole or crushed	Schedule III, Part A / A1160	2-3 batteries/ annum	Sold to approved /registered vendors
8.	Electronic And Electrical Waste	-	400-500 kg/ annum	Sold to approved /registered vendors
9.	Fly ash from Boiler	-	55.0 Tons/ Month	Sent to brick manufacturer

**Deliberations in the EAC:**

The EAC noted that the earlier proposal was appraised by the EAC (Industry 2 Sector) in its meeting held during May 2020 wherein the EAC sought certain information. However, PP has submitted the information in 2<sup>nd</sup> February 2021 (after 8<sup>th</sup> Months) which can be compiled and submitted in one month. The EAC has warned the Consultant [M/s J.M. Enviro Net Pvt. Ltd.] for late submission of information which delays the project. The Committee was of the view that the Consultant shall submit the requisite information on time for further appraisal of EAC and not to delay the project. The Ministry may take necessary action in this regard.



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 Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee deliberated the action plan on mitigation measures to minimize the air pollution load. In this regard the Committee has suggested the PP to initiate greenbelt development for abatement of pollution. The Committee has also deliberated on the activities/action plan and found to be addressing the issues in the study area and public hearing issues. The Committee has suggested that the storage of toxic/explosive raw material shall be bare minimum in quantity and inventory. The Committee has found the additional information submitted by the project proponent to be satisfactory and addressing the issues raised by the Committee. The additional requisite information submitted by the project proponent found to be satisfactory. The committee deliberated the risk acceptance criteria using advanced 3D modeling and found to be satisfactory.

The EAC deliberated 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 is 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 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 EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii). As already committed by the project proponent, Zero Liquid Discharge 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.
- (iii). Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (iv). The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
- (v). 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.
- (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). 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.
- (viii). 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.
- (ix). Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.99% with effective chillers/modern technology.

- (x). Total fresh water requirement shall not exceed 34.8 KLPD proposed to be met from Ground water. Necessary permission in this regard shall be obtained from the concerned regulatory authority/CGWA, and renewed from time to time.
- (xi). 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.
- (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 nearly 33% of the total project area, mainly along the plant periphery. 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. PP shall start plantation immediately, as committed.
- (xiv). The activities and the action plan proposed by the project proponent to address the public hearing and socio-economic issues in the study area, shall be completed as per the schedule presented before the Committee and as described in the EIA/EMP report in letter and spirit. All the commitments made during public hearing shall be satisfactorily implemented.
- (xv). Implementation of outcome of the risk assessment studies and the report shall be submitted to the IRO of the MoEFCC.
- (xvi). 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. 6.13**

**Establishment of Active Pharmaceuticals Ingredients (API) manufacturing unit located at Sy No. 160 & Parts, Nallamattipalem Village, Buchirajupeta Panchayat, Nakkapalli Mandal, Visakhapatnam District, Andhra Pradesh by M/s DSN Labs- Consideration of Environment Clearance**

**[IA/AP/IND2/195158/2021, IA-J-11011/51/2021-IA-II(I)]**

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).

Project proponent reported that the tenure of SEIAA/SEAC, Andhra Pradesh was expired at the time of submission of application, therefore the Project proponent has submitted the application online on Parivesh Portal to the Ministry and accordingly, the Proposal was placed in the Agenda.

It was informed to the EAC that the Ministry, vide notification dated 17.02.2021, extended the term of SEIAA/SEAC, Andhra Pradesh up to 19.06.2021. Accordingly, the proposal now may be appraised by SEIAA/SEAC, Andhra Pradesh.

The Member Secretary also informed to the Committee that as per para 2 (i), of Ministry's circular dated 23.10.2017 "If the SEIAA/SEAC is constituted before the Expert Appraisal Committee (EAC) meeting wherein in the proposal (Terms of Reference (TOR)/Environment Clearance(EC)) is listed as an agenda item for consideration, then the proposal, be not appraised by the EAC and it shall be transferred online to the concerned SEIAA/SEAC.

The Committee, after detailed deliberation, recommended the transfer the instant proposal to SEIAA/SEAC for appraisal as per the instant guidelines/circular issued by the Ministry.

**Agenda No. 6.14**

**Expansion of Chemical Manufacturing Unit capacity (91,338 TPA to 183,272 TPA) by M/s Excel Industries Limited located at Plot no. 112, 20/1 & OS-2, MIDC Dhatav, Raigad, Maharashtra – Amendment/Corrigendum in Environment Clearance regarding.**

**[IA/MH/IND2/191436/2021, IA-J-11011/139/2020-IA-II(I)]**

The proposal is for corrigendum in the Environmental Clearance granted by MoEF&CC vide letter no. J-11011/139/2020-IA-II(I) dated 24.12.2020 for the project "Expansion of Chemical Manufacturing Unit" at Plot no. 112, 20/1 & OS-2, MIDC Dhatav, Tehsil- Roha, District- Raigad, Maharashtra - 402116 by M/s Excel Industries Limited.

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

S. No.	Para of EC issued by MoEF &CC	Details as per the EC	To be revised/added/read as	Justification/reasons	Deliberation/recommendations by EAC
1.	Not Available	Not Available	Details of Hazardous waste, process waste (non-hazardous), domestic waste are not given in the EC Letter whereas the same has been already presented to the EAC during presentation. The same has been published in the Minutes of Meeting of 25 <sup>th</sup> IND2 EAC meeting dated 24 <sup>th</sup> November 2020 (as given in table 1)	PP requested to add the same in the EC letter as this will aid PP in legal compliance and getting/renewing the Consent to Establish/Operate from the State Pollution Control Board.	The Committee accepted the request of PP.
2.	Not Available	Not Available	Details of Process Stack emissions, its fuel requirement and control measures are not given in	PP requested to add the same in the EC letter as this will aid PP in legal compliance and getting/renewing the	The Committee accepted the request of PP.

			<p>the EC Letter whereas the same has been already presented to the EAC during presentation. The same has been published in the Minutes of Meeting of 25<sup>th</sup> IND2 EAC meeting dated 24<sup>th</sup> November 2020 (as given in table 2).</p>	<p>Consent to Establish/ Operate from the State Pollution Control Board.</p>	
3.	Specific condition (iv)	<p>The Paragraph 5 mentions 'The proposed part will be on ZLD. however, the existing part will continue to discharge their excess treated water to</p>	<p>As given in the EIA Report and presented to the EAC during the 25<sup>th</sup> EAC meeting of IND2 and also mentioned in the brief summary file; the correct information has been captured and recorded in paragraph 5. Therefore, specific condition (iv) may also be elaborated further in the</p>	<p>PP requested to add the same in the EC letter as this will aid PP in legal compliance and getting/ renewing the Consent to Establish/ Operate from the State Pollution Control Board.</p>	<p>The Committee accepted the request of PP subject to verification from the concerned sector. The revised condition is as below:</p> <p>The proposed part will be on ZLD. however, the existing part will continue to discharge their excess treated water to CETP as per CTE/CTO.</p>

		<p>CETP'. While specifi c conditi on (iv) mentio ns comple te plant shall be on ZLD.</p>	<p>EC letter to match with paragraph 5. PP proposed that specific conditions (iv) may be modified for ZLD to be applicable for the Proposed phase only and the existing part shall discharge excess treated water to CETP.</p>		
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The Committee, after detailed deliberation, **recommended** the above mentioned amendments in the EC.

### **Agenda No. 6.15**

**Proposed project for manufacturing of various synthetic Organic Chemicals by Parshwanath Intermediates at Mehsana Gujarat by M/s Parshwanath Intermediates- Consideration of Environment Clearance**

**[IA/GJ/IND2/121483/2019, IA-J-11011/303/2019-IA-II(I)]**

The project proponent and the accredited Consultant M/s. San Envirotech 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 manufacturing of Various Synthetic Organic Chemicals (Dye Intermediates) @ 370 MTPM at Survey No. 844 & 846, Opp. Kamla Amrut Industrial Park, B/h Ratnamani Metal & Tubes, Village Irana, Taluka Kadi, District Mehsana, Gujarat by M/s. Parshwanath Intermediates.

The details of products and capacity are as under:

Sr. No.	Name of Product	CAS No.	Quantity (MTPM)
<b>Bromination</b>			
1	Bromamine Acid	116-81-4	80
2	N-Propyl Bromide (N P Br)	106-94-5	
3	Iso Propyl Bromide (I P Br)	75-26-3	
4	Ethyl Bromide	74-96-4	
5	Calcium Bromide 52% Solution	7789-41-5	
6	Cetyl Bromide	112-82-3	
7	Ethyl di Bromide (EDBr)	106-93-4	
8	Hydro Bromic Acid (HBr)	10035-10-6	
9	N-Butyl Bromide	109-65-9	
<b>Sulphonation</b>			
10	Scheaffer Acid	93-01-6	100
11	G Salt	842-18-2	
12	Alpha Naphthol	90-15-3	
13	Ortho Nitro Toluene Sulfonic Acid (ONTSA)	--	
14	N-Ethyl-N-Benzyl Aniline m-Sulphonic Acid (EBAMSA)	101-11-1	
15	Aniline 2:5 DSA (Aniline 2:5 Di Sulfonic Acid)	98-44-2	
16	Para Nitro Toluene Sulfonic Acid (PNTOSA)	121-03-9	
17	Meta Phenylene Diamine Disulfonic Acid (MPDDSA)	137-50-8	
18	Para Cresidine Ortho Sulphonic Acid (PCOSA)	6471-78-9	
19	Sulpho C Acid	--	
<b>Other Product</b>			
20	Sodium Naphthionate	130-13-2	80
21	N W Acid - Neville Winther's Acid	84-87-7	
22	4-Chloro 2- Amino Phenol (4 CAP)	95-85-2	
23	3,5 Di Amino Benzoic Acid (3,5 DABA)	535-87-5	
24	2 Pyridone	1003-56-1	
25	Para Amino Azo Benzene Sulphonic Acid (PAABSA)	104-23-4	
26	5-Nitro 2 Amino Phenol (5 NAP)	121-88-0	
27	4 Sulpho Anthranilic Acid	98-43-1	
28	2:5 Di Chloro Para Nitro Aniline (2:5 DCPNA)	6627-34-5	
29	Metanilic Acid	121-47-1	



30	4 Nitro 2 Amino Phenol 6 Sulfonic Acid (4 NAPSA)	96-67-3	
31	6-Nitro 2 Amino Phenol 4 Sulfonic Acid (6 NAPSA)	96-93-5	
32	Meta Amino Phenol (MAP)	591-27-5	
33	Alpha Naphthylamine	134-32-7	
34	4 Sulpho Hydrozone	118969-29-2	
35	2,5 Diamino Benzoic Acid (DABA)	--	
36	Mix Cleave Acid/1-6 Cleave Acid/1-7 Cleave Acid	51548-48-2	
37	Phenyl Peri Acid (PPA)	82-76-8	
38	1-Amino Anthraquinone	82-45-1	
39	C Acid	131-27-1	
40	4 Amino Di Phenyl Amine Sulphonic Acid (4ADAPSA)	91-30-5	
41	K Acid	118-03-6	
42	3,5 Di Nitro Benzoic Acid (3 5 DNBA)	99-34-3	
43	Ortho Amino Phenol Para Sulfonamide (OPSAMIDE)	98-32-8	50
44	Peri Acid/Laurent Acid	82-75-7/ 84-89-9	
45	Bronner Acid	93-00-5	
46	Cromotropic Acid	148-25-4	
47	Para Phenylene Di Amine (PPD)	106-50-3	
48	Violet Acid	578-85-8	
49	Koch Acid	117-42-0	
50	1 Naphthole 8 Sulphonic Acid	117-22-6	30
51	Dehydro Thio p-Toluidine Sulfonic Acid (DTPTSA)	130-17-6	
52	2R Acid	90-40-4	
53	Epsilone Acid	117-43-1	
54	Meta Di Nitro Benzene (MDNB)	99-65-0	
55	4,4 Dinitro Stilbene 2,2 Disulfonic Acid (DNSDSA)	128-42-7	
56	European K Acid	40130-23-4	
<b>Total</b>			<b>370</b>

The project/activities are covered under category A of item 5(f) 'Synthetic organic chemicals industry' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

The standard ToR has been issued by Ministry vide letter dated 18/11/2019. Public Hearing for the project has been conducted by the Gujarat Pollution Control Board on 25.11.2020. The main issues raised during the public hearing are related to employment to local people and upliftment of surrounding area and proper operation of EMS. No Litigation is pending against the proposal.

Proposed land area of the project is 14795 m<sup>2</sup>. Industry will develop greenbelt in an area of 33% i.e. 5000 m<sup>2</sup>, out of total area of the project. The estimated project cost is Rs. 14.0 Crore. Total capital cost earmarked towards environmental pollution control measures is Rs. 2.81 Crore and the Recurring cost (operation and maintenance) will be about Rs. 6.325 Crore per annum. Total employment will be 250 persons as direct. Industry proposes to allocate Rs 28 lakhs towards Corporate Environmental Responsibility.

There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance of the project site. Narmada Canal is at a distance of 6.6 km in SW direction.

Ambient air quality monitoring was carried out at 8 locations during October, 2019 to December, 2019 and the baseline data indicates the ranges of concentration as: PM<sub>10</sub> (58.5 - 66.0 ug/m<sup>3</sup>), PM<sub>2.5</sub> (38.1 - 43.0 ug/m<sup>3</sup>), SO<sub>2</sub> (16.9 - 20.9 ug/m<sup>3</sup>), NO<sub>x</sub> (19.1 - 23.7 ug/m<sup>3</sup>). AAQ modeling study for point source emission indicated that the maximum incremental GLCs after the proposed project would be 2.515 µg/m<sup>3</sup>, 0.799 µg/m<sup>3</sup> and 0.894 µg/m<sup>3</sup> with respect to PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub>. The resultant concentrations are within the national ambient air quality standards (NAAQS).

Total water requirement is 210 m<sup>3</sup>/day of which fresh water requirement of 62 m<sup>3</sup>/day will be met from Gujarat Water Supply & Sewerage Board (GWSSB). 148 m<sup>3</sup>/day will be recycled/treated water.

Effluent from the process will be segregated in two streams – a) Highly Acidic-Dilute Sulphuric Acid & Acetic Acid and, b) Dilute process effluent, scrubber, washing and utilities stream. Highly Acidic stream - Dilute Sulphuric Acid will be partly reuse (6.0 KLD) and partly (48.0 KLD) will be sold to actual users under Rule-9 of HAZ Waste Rule. Acetic Acid (3.0 KLD) will be sold to actual users under Rule-9 of HAZ Waste Rule. Whereas rest of process effluent along with wastewater from scrubber, washing and utility (140 KLD) will be taken to ETP followed by RO. RO reject will be sent to MEE and then slurry will be evaporated into in-house spray dryer. RO permeate and MEE condensate will be reused. Thus, achieving Zero Liquid Discharge (ZLD). Domestic wastewater of 18.0 KLD will be treated in STP and treated water will be utilized for greenbelt development.

Power requirement will be 500 kVA and will be met from Uttar Gujarat Vij Company Ltd. (UGVCL). Unit proposed to install one D.G. Set of 500 kVA capacity and will be used as standby during power failure. Stack (height 11 meters) will be provided as per CPCB norms to the proposed D.G. Set.

In proposed unit, Bio Coal/Coal fired Boiler-1 (4 TPH), Boiler-2 (2 TPH), Hot Air Generator (10.0 Lakhs Kcal/hr.), Thermic Fluid Heater (6.0 Lakhs Kcal/hr.) will be installed. Cyclone, bag filter and water scrubber with a stack height of 30 m will be installed on Boiler-1, Cyclone, bag filter with a stack height of 30 m (for Boiler-2, THF and HAG) will be installed for controlling the particulate emissions within the statutory limit of 150 mg/Nm<sup>3</sup> for the proposed utilities.

Process emission generation will be from one vent attached with Reaction Vessels of Multipurpose Plant - 2 sets, one vent of Spray dryer and one common vent of 2 nos. of Spin Flash Dryers. Alkali Scubber will be provided on reaction vessel as an APCM to control process emission. Cyclone + water scrubber and in built Cyclone will be provided as APCM for Spray Dryer and Spin Flash Dryer, respectively.

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

S. No.	Type of Waste	Schedule	Quantity	Disposal method
1	ETP Sludge + Salt from Spray Dryer	35.3	<u>350 + 85</u> <b>435</b> MT/month	Collection, storage & disposal at TSDF site approved by GPCB.
2	HCl (27-28%)	26.3	26 MT/month	Collection, Storage, Reuse with in the process or sold to actual users.
3	Spent Sulphuric acid (H <sub>2</sub> SO <sub>4</sub> ) (30-35%)	26.3	1404 KL/month	Collection, Storage, Reuse within the process or sold to actual users.
4	Iron sludge	26.1	65 MT/month	Collection, Storage, Transportation, sell to cement manufacturer or disposed at TSDF site.
5	Gypsum Sludge	26.1	500 MT/month	Collection, Storage, disposal at TSDF site or send to Cement industries for co-processing.
6	Calcium Thio Sulphite	--	65 MT/month	Collection, Storage, Transportation, sell to actual users under Haz. Waste rule.
7	Acetic Acid (30-35%)	26.3	72 MT/month	Collection, Storage, Reuse with in the process or sold to actual users under Haz. Waste rule.
8	Sodium Bisulphite (30-35%)	26.3	260 MT/month	Collection, Storage, Reuse with in the process or sold to actual users under Haz. Waste rule.
9	Used Lubricating Oil	5.1	0.5 KI/year	Collection, storage & use within premises as lubricant/sell to registered recycler.

10	Discarded containers/ barrels/ liners	33.1	Barrels- 10000 nos./month Liner-3.0 MT/month	Collection, storage and reuse for packing of products or disposal by selling to approved recycler.
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**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 Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee also deliberated on the activities/action plan and found to be addressing the issues in the study area and public hearing issues. The Committee suggested that the storage of toxic/explosive raw material shall be bare minimum in quantity and inventory. The Committee noted that the project proponent committed before the Committee that no banned pesticide/chemicals shall be manufactured by the Company. The Committee found the additional information submitted by the project proponent to be satisfactory and addressing to the concerns of the Committee.

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 found the proposal in order and have 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 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 EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii). As already committed by the project proponent, Zero Liquid Discharge 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.
- (iii). Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (iv). The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
- (v). 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.
- (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). 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.
- (viii). 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.

- (ix). Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.99% with effective chillers/modern technology.
- (x). Total fresh water requirement shall not exceed 62 cum/day, proposed to be met from Gujarat Water Supply & Sewerage Board. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (xi). 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.
- (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 nearly 33% of the total project area, mainly along the plant periphery. 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 public hearing issues/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.
- (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. 6.16**

### **Proposed Technical Ammonium Nitrate Manufacturing Plant at Ganjam, Orissa by M/s SMARTCHEM TECHNOLOGIES LIMITED-Consideration of Environment Clearance**

**[IA/OR/IND2/160599/2020, IA-J-11011/152/2020-IA-II(I)]**

The Project proponent informed their inability to attend the EAC meeting due to some emergency. The PP also not submitted any documents to the EAC. The EAC tried to understand

the proposal but nobody was there to address the concerns raised by the respected members of the Committee. As desired by the PP, the Committee decided to **place the proposal** in next EAC meeting.

## **Agenda No. 6.17 Any other Items with permission of the Chair**

### **Agenda No. 6.17.1**

#### **Amalgamation and Amendment in Environmental Clearance of CFCL Fertilizer Plant, Gadepan by M/s CHAMBAL FERTILISERS AND CHEMICALS LTD. - Amendment in Environmental Clearance**

**[IA/RJ/IND3/193237/2021; J-11011/664/2008-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 proposed Amalgamation and Amendment in Environmental Clearance of CFCL Fertilizer plant for total production of 6100 MTPD of ammonia and 10800 MTPD of Urea along with total Captive Power generation of 55 MWH, 240 TPH of steam from HRSG and 320 TPH of steam from boiler” at P.O Gadepan, District Kota, Rajasthan by M/s. Chambal Fertilisers and Chemicals Limited. (CFCL).

The proposal was earlier considered by the EAC (Industry-III) in its meeting held during February 1-2, 2021, wherein after detailed deliberations, EAC **recommended** the project for amalgamation and amendment with the condition of making ZLD for all seasons and throughout the year with all other conditions shall remain unchanged as stipulated in the previous ECs.

Further, PP vide letter dated 15.02.2021, requested the Ministry to allow to discharge the water in to the River in monsoon season. PP also requested to allow to represent the case before the EAC. The request was examined in the Ministry and competent authority has forwarded the request of PP to appear before EAC in its meeting held during 22 -23rd February, 2021 for reconsideration.

### **Deliberations in the present EAC**

The Committee, after detailed deliberation, recommended that the site visit of the project by Sub-Committee comprising of Dr. Rajashekar P. Mandi, (Dr.) A.B. Pandit, and Shri Dinabandhu Gouda. The representative from the Ministry will also assist to the Sub-Committee. The Committee to assess the present condition of the water body and impact of discharge from the

industry on the water body. The Committee may take decision on effluent discharge as proposed by PP only after visit to the concerned industry.

Further, it was also decided that the same sub-Committee may also visit the project of M/s LANXESS INDIA PVT. LTD, located at Plot No.161/2/ 162, Ujjain, Madhya Pradesh, as there were also similar issues.

### **Agenda No. 6.17.2**

#### **Clarification regarding requirement of environmental clearance for the manufacturing of Polyurethane foam - regarding**

The Member Secretary informed the Committee that M/s Indian Polyurethane Association vide letter dated 13<sup>th</sup> February, 2021 has sought clarification on requirement of environmental clearance for the Polyurethane foam manufacturing Industry.

M/s Indian Polyurethane Association has claimed that, as the Ministry has exempted requirement of prior EC for item 6 (b) 'Isolated storage & handling of hazardous chemicals', which inter alia removed restriction in Isocyanate storage, there is no requirement of prior EC for Polyurethane foam manufacturing.

The EAC made deliberation on the matter. The Committee noted that 'manufacturing of Polyurethane foam' requires prior environmental clearance, as it is covered under item 5 (f) 'Synthetic organic chemical industry' of the schedule to the EIA Notification, 2006. However, utilization of Polyurethane foam as a raw material/further application doesn't require EC. The Committee also observed that manufacturing Polyurethane foam involves ozone depleting substances and are also covered under Hazardous substance management rules. Detailed deliberations on the matter requires further information related to complete process, raw material, process flow etc.

### **Agenda No. 6.17.3**

#### **Standardization/Optimization of conditions w.r.t. Standard Terms of Reference (TOR)**

The Member Secretary informed to the EAC that the issue related to Standardization/Optimization of conditions w.r.t. Standard Terms of Reference were deliberated by the EAC in its meeting held during January 14-15, 2021. No Comments were received from the members. In this regard the Chairman has decided to form a Sub-Committee comprising of Prof. (Dr.) Arvind K. Nema, Dr. Suresh Panwar, Shri Dinabandhu Gouda. Dr. E.P. Nobi, RO, MoEFCC will assist sub-Committee. The Sub-Committee will complete the task and submit the report before the next EAC to be held in March 2021. Afterwards, the EAC will finalize the conditions w.r.t. Standard Terms of Reference.



#### **Agenda No. 6.17.4**

#### **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. No Comments were received from the members. In this regard the Chairman has decided to form a Sub-Committee comprising of Dr. Ashok Kumar Saxena, Prof. (Dr.) A.B. Pandit, Prof. (Dr.) S. N. Upadhyay and Dr. Uma Kapoor. Mr Ritin Raj, RA, MoEFCC will assist sub-Committee. The Sub-Committee will complete the task and submit the report before the next EAC to be held in March 2021. Afterwards, the EAC will finalize the Guidelines.

**The meeting ended with thanks to the Chair.**

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**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 31<sup>st</sup> 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.

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

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

9.	<b>Dr. Uma Kapoor</b> Regional Director, CGWA, 18/11, Jamnagar House, Mansingh Road, New Delhi E-mail: Uma-cgwb@nic.in	Member
10.	<b>Shri Dinabandhu Gouda</b> 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.	<b>Shri Sanjay Bisht</b>  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.	<b>Dr. R. B. Lal,</b> 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
<b>MoEFCC</b>		
13.	Shri Ajay Raghav	Scientist 'D'
14.	Dr. E.P. Nobi	Research Officer
15.	Mr. Ritin Raj	Research Assistant

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Approval of EAC Chairman

Email

Additional Director MoEFCC Dr R B LAL

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**Re: Revised Draft Minutes of the 6th EAC (Industry-3) meeting held during February 22-23, 2021 (through Video Conferencing) after comments of Chairman, EAC**

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**From :** rajashekarmandi@yahoo.com

Wed, Mar 03, 2021 04:28 PM

**Subject :** Re: Revised Draft Minutes of the 6th EAC (Industry-3) meeting held during February 22-23, 2021 (through Video Conferencing) after comments of Chairman, 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 report 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

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