

**Minutes of 244<sup>th</sup> meeting of SEAC-1 (Day-1)**  
**Date: 28<sup>th</sup> & 30<sup>th</sup> March, 2023**  
**Venue: Through Video Conferencing**

In view of pandemic situation of COVID-19 , Maharashtra SEIAA directed SEAC-1 to appraise the proposals by using information technology facilities. Hence, SEAC-1 initiated to appraise the proposals received by the SEIAA through Video-conferencing technology on Cisco Webex platform.

Following members of SEAC-I were present for videoconference meeting.

Dr. Rakesh Kumar	Chairman
Shri. Jeevan Patgaonkar	Vice Chairman
Ms. Kavita Takale	Expert Member
Dr. Chandrashekhar Marathe	Expert Member
Shri. Kundan Deshmukh	Expert Member
Shri. Abhay Pimparkar	Secretary

Due to pandemic the Minutes of meeting are approved through emails hence signature is not required.

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Proposal No. 1 : SIA/MH/IND/407029	Type: EC
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**INTRODUCTION:**

This has reference to your online application vide proposal No. 407029 submitted along with copies of documents seeking prior Environmental Clearance under the provisions of the EIA Notification, 2006. The proposed project activity is listed at Sr. No. 5(f), Synthesis of Organic Chemicals category B1 as per EIA Notification, 2006 amended from time to time and the proposal is appraised in the SEAC-1 committee.

**PROJECT DETAILS:**

**Environment Clearance for Proposed Establishment of Fine, Specialty, Performance Chemicals & Intermediates for Active Pharmaceutical Ingredient (API/ Bulk Drug) F-21, Additional Ambernath Industrial area, Amernath East dist Thane by Alchem Synthon Pvt. Ltd.**

**Details of earlier EC if any:** No.

**DELIBERATIONS IN SEAC:**

**After deliberations SEAC observed:-**

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Aditya Environmental Services Pvt. ltd.

PP had obtained auto (Standard) generated ToR vide letter No. SIA/MH/IND3/77094/2022 dated 25.05.2022.

The proposal was appraised based on the documents submitted and presented by the PP and their accredited Environmental Consultant.

PP informed that, the proposed project of manufacturing of fine speciality performance chemicals and intermediates of Active Pharmaceutical Ingredients. The proposed project is financed by the Technology Development Board of the DSIR.

PP proposes 34% green belt within the premises and Zero Liquid Discharge Effluent Treatment Plant in proposed project.

The brief information of the project as given by the PP is as below,

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<b>S. N.</b>	<b>Particulars Required</b>	<b>Details</b>															
	Name of the project & Address along with all corner latitude and longitude	<p><b>Name of Project:</b> Proposed Establishment of Fine, Specialty, Performance Chemicals &amp; Intermediates for Active Pharmaceutical Ingredient (API/ Bulk Drug) by Alchem Synthron Pvt. Ltd.</p> <p><b>Address:</b> Plot No. F-21/1, Additional MIDC Ambernath, Thane, Maharashtra.</p> <p><b>Latitude and Longitude:</b></p> <table border="1"> <thead> <tr> <th><b>Poin t</b></th> <th><b>Latitude</b></th> <th><b>Longitude</b></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>19°10'51.6'' N</td> <td>73°11'56.9'' E</td> </tr> <tr> <td>2</td> <td>1</td> <td>73°11'56.3'' E</td> </tr> <tr> <td>3</td> <td>19°10'49.9'' N</td> <td>73°11'57.4'' E</td> </tr> <tr> <td>4</td> <td>19°10'51.9'' N</td> <td>73°11'57.3'' E</td> </tr> </tbody> </table>	<b>Poin t</b>	<b>Latitude</b>	<b>Longitude</b>	1	19°10'51.6'' N	73°11'56.9'' E	2	1	73°11'56.3'' E	3	19°10'49.9'' N	73°11'57.4'' E	4	19°10'51.9'' N	73°11'57.3'' E
<b>Poin t</b>	<b>Latitude</b>	<b>Longitude</b>															
1	19°10'51.6'' N	73°11'56.9'' E															
2	1	73°11'56.3'' E															
3	19°10'49.9'' N	73°11'57.4'' E															
4	19°10'51.9'' N	73°11'57.3'' E															
	Type of Organization (Private Government/Semi Government etc.)	Private Limited company registered under Companies Act 1956															
	Correspondence Address and contact details of Project Proponent	<p><b>Dr. Dhananjay Rane</b> (Managing Director) Alchem Synthron Pvt. Ltd. B-201, Girija Neelkanth Heights, Pokharan Road No.2, Thane (West), Thane, Maharashtra-400601 Phone: 0251-2621530, 9821114162 Email: <a href="mailto:drane@alchemsynthron.com">drane@alchemsynthron.com</a></p>															
	Type of project (ToR/EC/Amendment in ToR/Amendment in EC/ Revalidation/ Expansion/ Process change etc.)	Fresh EC															
	Category of project as per EIA Notification 2006 amended from time to time (Pl. mention category A,B,B1,B2 etc. whichever is applicable)	5 (f) (SOCMI), B1															
	If earlier ToR is obtained pl. mention details (ToR letter No. & Date, SEAC/EAC Meeting No.)	SIA/MH/IND3/77094/2022 dated 25 <sup>th</sup> May 2022															
	If earlier EC is obtained pl. mention EC Number & Date	NA															
	Whether the proposal is a violation case (yes/no)	No, NA															
	Applicability of CRZ clearance (yes /no)	No, NA															

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	Whether General /Specific Conditions are applicable to the project (Yes/No) If yes pl. give details	No, NA				
a	Whether Scrutiny fees paid as per SEIAA guidelines (Yes/No); If yes pl give payment details	Yes, Rs. 1 Lakh Scrutiny fee is paid on 11-01-2023. See Annexure below for more details.				
	Name of accredited Environmental Consultant & address along with Accreditation No. & Validity	Aditya Environmental Services Pvt. Ltd. NABET/EIA/2225/RA 0262 valid till 1 <sup>st</sup> May 2025.				
	Name of layout plan approving Authority	MIDC				
	Estimated cost of Project (in Rs. Lakhs)	Rs. 1800 lakhs				
	Area of project (in Sq.m.)	3521 sq. m.				
	Whether 33% green belt is provided (Yes/No)	Yes				
	Area of Green Belt & No. of trees in the proposed project in Sq.m. (Pl. provide 2000 trees per hectare of green belt area)	GB area: 1213.725 sq. m. No. of Trees: 303				
	Width of internal roads and turning radius	Roads width: 6 meter and 9 meters turning radius				
	Details of proposed construction	<b>Total Built-up Area (in Sq.m)</b>	917.05			
		<b>No. of Buildings &amp; its height in mtrs.</b>	<ul style="list-style-type: none"> <li>• Main building Gr + 2 floor 15 mts Height</li> <li>• Storeroom Ground Only – 5 m in height</li> </ul>			
	<b>List of Raw materials &amp; Storage Details (Pl. add on in the list if necessary)</b>					
	<b>S. N.</b>	<b>Name of Raw Material</b>	<b>consumption (Kgs)</b>	<b>Hazard Category (NFPA)</b>	<b>Proposed Precaution to Prevent Accident</b>	<b>Remark</b>
	1.	n-Butanol	495	Flammable	Use of PPE's shall be ensured while handling above chemicals such as safety helmet,	--
	2.	Methylene Chloride	1250	Flammable		--
	3.	Methanol	790	Flammable		--
	4.	Benzene	860	Flammable		--
	5.	Ethyl acetate	420	Flammable		--
	6.	Acetone	320	Flammable		--
	7.	Toluene	516	Flammable		--
	8.	Isopropyl Alcohol	320	Flammable		--
	9.	Hexane	200	Flammable		--
	10.	Hydrochloric Acid (30%)	600	Health Hazardous, Flammable		--

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11.	Sulphuric Acid (98%)	1000	Health Hazardous	splash proof goggles, safety shoes, apron, rubber hand gloves as applicable	--
12.	Nitric Acid (Aq)	300	Health Hazardous		--
13.	Oleum (23%)	600	Health Hazardous		--
14.	Hydrobromic Acid (48%, Aq)	500	Health Hazardous		--
15.	Acetic Acid	630	Health Hazardous		--
16.	Sodium Borohydride	100	Health Hazardous		--
17.	Thionyl Chloride	300	Health Hazardous		--
18.	Bromine	180	Health Hazardous		--
19.	Dimethyl Sulfate	250	Health Hazardous		--
20.	N,N-dimethyl Formamide	400	Health Hazardous		--
21.	Acetonitrile	320	Health Hazardous, Flammable		--
22.	Sulfolane	1250	Health Hazardous, Flammable		--
23.	1,2-Dichloroethane	2500	Health Hazardous, Flammable		--
24.	Nitrobenzene	250	Health Hazardous		--
25.	Hydrogen Gas	48M <sup>3</sup>	Flammable	--	
26.	Ammonia Gas	200	Health Hazardous		
27.	Chlorine Gas	200	Health Hazardous		
28.	Oxygen Gas	7	Flammable		
29.	Nitrogen Gas	35	--		

**Production Details**

Sr. No	Product	CAS No	Maximum Production capacity (MT/M)	Maximum Production capacity (MT/A)	Proposed capacity of total product mix per Annum
	<b>High volume Products</b>				
1	Tertiary butyl nitrite & / Or	[540-80-7]	9.0 MT/ Month	Totally 108 MT /A	
2	1H-Pyrazole & / Or	[288-13-1]			
3	Cyclopentanone & / Or	[120-92-3]			
4	Nitro-methyl benzoic acids & / Or				
	<b>Medium Volume Products</b>				
1	2,5-Bistrifluoromethyl aniline & / Or	[328-93-8]	6.0 MT/ Month	Totally 72.0 MT /A	
2	4-Phenyl-1-butanol & / Or	[3360-41-6]			

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3	2,4-Difluorobenzonitrile & / Or	[3939-09-1]2			216 MT/ A			
4	2,4-Difluorobenzylamine	[72235-52-0]						
5	2,4-Difluoro-5-bromobenzoic acid & / Or	[28314-83-2]						
6	3-Chloro-2-fluorobenzoic acid & / Or	[161957-55-7]						
7	3-Chloro-2-fluorobenzylbromide & /Or	[85070-47-9]						
8	5-Chloro-2-nitrodiphenylamine (CNDP) & / Or	[25781-92-4]						
9	Ethyl malonyl chloride (EMC) & / Or	[36239-09-5]						
10	Methyl 3-iodo-4-methyl benzoate & / Or	[90347-66-3]						
11	Caproic acid & / Or	[142-62-1]						
12	Isoamylnitrite (IMN) & / Or	[110-46-3]						
13	Dibenzylideneacetone (DBA) & / Or	[538-58-9]						
14	Cyclopropane-1,1-dicarboxylic acid & its intermediates & / Or	[598-10-7]						
15	2,6-Dichloro-4-methylpyridine-3-Carboxylic Acid & / Or	[62774-90-7]						
16	3-Bromoquinoline & / Or	[5332-24-1]						
17	2-Acetyl-4-chlorothiophene & / Or	[34730-20-6]						
18	3,4-Difluoro-2-Aminobenzaldehyde & / Or	[1602097-79-9]						
19	Lumatreat-FB (8 %) & / Or	[276878-97-8]						
20	3-Bromo-2-methylbenzoic acid & / Or	[76006-33-2]						
	<b>Small Volume Products</b>							
1	4-(4-Fluorobenzylamino)-1-Methylpyridine & / Or	[359878-47-0]	3.0 MT/ Month	Totally 36 MT/A				
2	4-Isobutoxybenzylamine acetate & / Or	[955997-89-4]						
3	3-Nitrophthalic anhydride & / Or	[641-70-3]						
4	4,6-Dimethyl-2-methylsulfonylpyrimidine (DMPMS) & / Or	[35114-22-0]						

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5	Methyl 2-hydroxy-3-methoxy-3,3-diphenylpropanoate & / Or	[178306-47-3]							
6	2,8-Dihydroxyquinoline & / Or	[15450-76-7]							
7	5,6,7,8-Tetrahydro-1-naphthoic acid & / Or	[4242-18-6]							
8	Propargyl tosylate & / Or	[6165-76-0]							
9	2-Chloro-6-methylbenzoic acid & / Or	[21327-86-6]							
10	Any other R & D products & / Or								
	<b>Total</b>					18MT / Month			216 MT/ Annum
<b>Water Consumption &amp; Effluent generation (All units in CMD)</b>									
i) Source & Qty of water requirement (in CMD) : 69.8 (70) CMD from MIDC									
ii) Water supply permission obtained (Yes/No) & approving Authority : Yes									
<b>Particular</b>	<b>Requirement (CMD)</b>			<b>Loss (CMD)</b>			<b>Effluent (CMD)</b>		
<b>Water requirement</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>
Domestic	0	2.5	<b>2.5</b>	0	0	<b>0</b>	0	2.5	<b>2.5</b>
Cooling and boiler feed	0	52.5	<b>52.5</b>	0	51.25	<b>51.25</b>	0	1.25	<b>1.25</b>
Industrial Processing	0	12	<b>12</b>	0	1.25	<b>1.25</b>	0	10.75	<b>10.75</b>
Other	0	0.5	<b>0.5</b>	0	0.5	<b>0.5</b>	0	0	<b>0</b>
Green belt	0	2.5	<b>2.5</b>	0	2.5	<b>2.5</b>	0	0	<b>0</b>
<b>Total</b>	<b>0</b>	<b>70</b>	<b>70</b>	<b>0</b>	<b>55.5</b>	<b>55.5</b>	<b>0</b>	<b>14.5</b>	<b>14.5</b>
Quantity of sewage generation (in CMD)				2.5					
Details of Sewage Treatment and Disposal of treated sewage:				Domestic sewage will be treated in STP and treated effluent will be used for greenbelt maintenance.					
<b>Detail of Effluent Generation (unit CMD)</b>									
<b>Particular</b>	<b>Existing</b>			<b>Proposed</b>			<b>Total</b>		
a)Qty. of Effluent generation: (CMD)	0			12			12		
b)Qty. of high TDS/COD effluent: (CMD)	0			10.75			10.75		
c)Qty. of low TDS/COD effluent: (CMD)	0			1.25			1.25		

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Whether Zero liquid Discharge Effluent Treatment is proposed (Yes/No)		Yes					
Brief Description of Effluent Treatment scheme		<b>Existing:</b> NA <b>Proposed:</b> Trade effluent shall be treated and reused/recycled within plant premises. The ETP will have a Multi Effect Evaporator and ATFD as well as Secondary Treatment facility. The Industry will maintain ZLD after proposal activity.					
Qty of treated effluent proposed to be sent to CETP (pl. mention Name of CETP and its membership Details)		No, since proposal is ZLD.					
Please mention parameters of treated effluent to be achieved as per EP Rule,1986 and or stipulated by the SPCB							
<b>Parameter</b>		<b>Inlet concentration (mg/l)</b>			<b>Outlet concentration (mg/l)</b>		
PH		7.5-8.5			6 to 8.5		
TSS		400-500			<100		
TDS		1800-2000			<2100		
COD		4000-5000			<250		
BOD		2500-3000			<30		
Oil and Grease		--			--		
Chlorides as Cl		--			--		
Sulphates as SO <sub>4</sub>		--			--		
Heavy metals		--			--		
Benzene		--			--		
other if any		--			--		
Brief Note on proposed Rainwater harvesting scheme along with budget allocation:				Roof Top Rainwater will be collected and sent to Water Treatment and will be used within the plant			
<b>Solid Waste management</b>							
<b>S.N.</b>	<b>Type of Waste</b>	<b>Quantity</b>	<b>Source of Generation</b>	<b>Disposal Method</b>	<b>Pl. mention plant waste Minimization methods to reduce solid waste generation any</b>		
1	Iron Scrap	1000 Kg/Annum	Industrial Activity	Sale to Authorized Party	--		
2	Plastic Waste	500 Kg/Annum			--		
<b>Hazardous Waste Generation &amp; Disposal (As per HW Rule 2016)</b>							
<b>S.N.</b>	<b>Category</b>	<b>Particular</b>	<b>Source of generation (please</b>	<b>Existing Qty &amp;</b>	<b>Proposed Qty &amp;</b>	<b>Total Qty &amp;</b>	<b>Method disposal per E</b>

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			<b>include name of product)</b>	<b>Generation n MT/M</b>	<b>Generation n</b>	<b>Generation n</b>	<b>Rules 2016</b>	
	1	28.1	Process residue and waste	Industrial Activities	0	9.51 MT / Month	9.51 MT / Month	CHWT\$D F
	2	28.3	Charcoal		0	0.700MT / Month	0.700MT / Month	CHWT\$D F
	3	28.5	Expired Raw Materials and Products		0	When generated	When generated	CHWT\$D F
	4	28.6	Spent Solvents		0	229KL / Month	229KL / Month	Sale to authorised recycler
	5	33.1	Discarded barrels, containers, liners		0	50 Nos / Month	50 Nos / Month	Sale to authorised recycler
	5	35.3	ETP sludge		0	7.2 MT / Month	7.2 MT / Month	CHWT\$D F
	6	35.1	Filter and filter material which have organic liquid		0	25 Kg / Month	25 Kg / Month	Sale to authorised recycler
	7	5.1	Spent Oil		0	25 Kg / Month	25 Kg / Month	CHWT\$D F
	8	33.2	Contaminated cotton rags or other cleaning material		0	25 Kg / Month	25 Kg / Month	CHWT\$D F
	9	26.3	Spent AlCl <sub>3</sub> Solution & Spent HCl Acid		0	42.37 MT / Month	42.37 MT / Month	Sale to authorised party
	10		By product Sodium Sulphate		0	29.25 MT / Month	29.25 MT / Month	Sale to authorised party
	11	26.3	Spent sulfuric Acid	0	98.40 MT / Month	98.40 MT / Month	Sale to authorised party	

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12	26.3	Spent Nirtic Acid	0	3.0 MT/month	3.0 MT/month	Sale to authorised party
13	26.3	Spent Sodium Bromide solution	0	24.15 MT/month	24.15 MT/month	Sale to authorised party
14	35.3	Inorganic salts from MEE & process	0	16 MT /month	16 MT /month	CHWT\$D F
15	28.2	Recovered catalyst	0	24.76 MT / Month	24.76 MT / Month	Recycle to authorised party
16	28.1	Spent Sodium Nitrite	0	3.71 MT/Month	3.71 MT/Month	Sale to authorised party
17	26.3	Spent Acetic acid	0	20.5 MT / Month	20.5 MT / Month	Sale to authorised party
18	26.3	Process residue and waste	0	9.51 MT / Month	9.51 MT / Month	CHWT\$D F

Fuel Consumption													
S. N.	Type of fuel	Consumption (Qty)			Used for (boiler/ DG set etc.)	Ash %			SO2 %			Air pollution control/ equipment provided (yes/ No)	
		Existing	Proposed	Total		Existing	Proposed	Total	Existing	Proposed	Total		
1	NG	0	550 m <sup>3</sup> /Day	550 m <sup>3</sup> /Day	Thermopac (1.8 LKcal/hr)	0	0	0	0	0	0	Stack height	
2	NG	0	1250 m <sup>3</sup> /Day	1250 m <sup>3</sup> /Day	Boiler (600 Kg/hr)	0	0	0	0	0	0	Stack height	

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	3	HS D	0	20 Ltr/Hr	20 Ltr/Hr	65 KVA DG set	0	0	0	0	0.5	0.5	Stack height
Brief Note on Air Pollution Control equipment							Adequate stack height is proposed since Natural Gas is proposed to be used as Fuel in Proposed Operation.						
<b>Stack Details (Also include process vent details)</b>													
	<b>S. N.</b>	<b>Section/ Unit</b>	<b>Source Pollution</b>	<b>Stack No.</b>	<b>Stack Height</b>	<b>Height from Ground</b>	<b>Internal Diameter (inch)</b>	<b>Temperature exhaust gas</b>					
	1	Thermopac (1.8 LKcal/hr)	NG	1	30 m	15 m	0.5 m	180 °C					
	2	Steam/Boiler generator (600 kg/hr)	NG	2	30 m	21 m	0.3m	160 °C					
	3	DG (65 KVA)	HSD	3	5 m	5m above roof	0.2	165 °C					
<b>Energy</b>													
a) Source of power Supply : MSEDCL													
b) Maximum Demand (KVA) : 100 KVA (Existing: 0 KVA & Proposed: 100 KVA)													
c) whether DG sets will be provided (Yes/No): Yes													
<b>if yes :</b>													
	<b>S.N.</b>	<b>No. of DG Sets</b>						<b>Capacity</b>					
		<b>Existing</b>						<b>Proposed</b>					
	1.	0						1		65 KVA			
d) Please Mention if high tension line is passing through the plot : No If yes, pl. give details of safety measures adopted: NA													
<b>Details of use of renewable energy with budget allocation</b>													
i) Total Energy Demand 100KVA													
ii) Proposed renewable energy source: NIL													
iii) Proposed Budget (in Rs. Lakhs): 0 (Capital), 0 (OM)													
iv) Timeline for implementation: NA													
<b>Details of public hearing (if applicable)</b>													
i) Place of public hearing: NA, since it is located in MIDC area.													
ii) Date of public hearing: NA													
<b>Please fill following details</b>													

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S.N.	Issue raised during public hearing	Applicant plan for its compliance/ implementation	Budget allocation for implementation	Specific line compliance	time of
NA	NA	NA	NA	NA	
EMP (Please mention specific items proposed in EMP along with specific timeline for its implementation)					
No	Description	Cost Rs in Lakhs			
		Capital	O & M year		
<b>A</b>	<b>Construction management</b>				
	Provision of barricading sheets, sprinkler, dust suppression	30	5		
	Site preparation				
	Material storage precaution, Construction safe disposal				
	Safe shelter for worker, Drinking water and sanitary facility, PPE				
<b>B</b>	<b>Air Pollution Control</b>				
	Installation of APC, Process scrubber, stacks with platform	25	10		
<b>C</b>	<b>Water Pollution Control</b>				
	Installation of of ETP/MEE	260	20		
<b>D</b>	<b>Solid and hazardous waste management</b>				
	Storage, transportation and Disposal of Non-Hazardous and hazardous waste, safe storage shed at site ( <i>Installation / Augmentation of storage areas in compliance with the HW rules with necessary infrastructure and equipment for collection and transport</i> )	15	2		
<b>E</b>	<b>Noise Pollution Control</b>				
	Provision of Acoustic enclosures to DG sets and high noise generating machineries and maintenance	7.5	2		
<b>F</b>	<b>Environmental Monitoring &amp; Management</b>				
	Laboratory & Chemicals	2	0.5		
	Third party (MOEF&CC approved) monitoring	12	2		
<b>G</b>	<b>Occupational Health and Safety</b>				
	Fire Fighting System	75	10		
	Fire Extinguishers	15	7		
	Personal Protective Equipment's	10	5		
	Occupational Health Centre (Doctor / Medical staff charges, First aid facilities, Other infrastructure and Equipment)	4	4		
	Health Surveillance (Medical checkup, Health insurance policy)	4	4		
	Safety training and awareness	2	0.5		

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	<p><b>H Green belt development</b></p> <p>Development and Maintenance of Green Belt</p>	<p>10</p> <p>5</p>	
	<p><b>I Rain -water harvesting</b></p> <p>Provision of pipes and drains for transportation</p> <p>Construction of the RWH tank and O&amp;M (Filter and collection tank)</p>	<p>2.5</p> <p>8</p>	<p>4</p>
	<p><b>Total</b></p>	<p><b>467</b></p>	<p><b>81</b></p>
<p>Other Relevant Information : (Pl. provide brief note on proposed project)</p>	<p>Alchem Synthon Pvt. Ltd. is proposing to establish Fine, Specialty, Performance Chemicals &amp; Intermediates for Active Pharmaceutical Ingredient (API/ Bulk Drug) manufacturing industry at plot no. F-21/1 Additional MIDC Ambernath, Thane, Maharashtra.</p> <p>The proposed activity falls under 5(f) (SOCMI) B1 category as per EIA Notification: dated 14<sup>th</sup> September 2006 and needs prior Environmental Clearance from SEIAA.</p>		
<p>Details of skill development program within Organization</p>	<ol style="list-style-type: none"> <li>1. Annual Product Quality Review</li> <li>2. Quality Assurance</li> <li>3. Environment Health and Safety</li> </ol>		
<p>Details of environmental Monitoring Cell ( Pl. provide organogram with educated Qualification and experience )</p>	<pre> graph TD     Director[DIRECTOR] --&gt; QA[Quality Assurance]     Director --&gt; QC[Quality Control]     Director --&gt; Production[Production]     Director --&gt; Purchase[Purchase &amp; Admin.]     Director --&gt; Marketing[Marketing Head]     Director --&gt; Design[Design &amp; Development]      QA --&gt; HeadQA[Head Q.A.]     HeadQA --&gt; SrQA[Sr. Q. A. Officer]     HeadQA --&gt; JrQA[Jr. Q. A. Officer]      QC --&gt; SrQC[Sr. Q. C. Chemist]     QC --&gt; JrQC[Jr. Q. C. Chemist]      Production --&gt; HeadProduction[Head Production]     HeadProduction --&gt; ProductionGroup[Production]     HeadProduction --&gt; Stores[Stores]     HeadProduction --&gt; Maintenance[Maintenance]     HeadProduction --&gt; HSE[Health, Safety, Environment]      ProductionGroup --&gt; GroupLeader[Group Leader Production]     GroupLeader --&gt; SrChemistProd[Sr. Chemist Production]     SrChemistProd --&gt; JrChemistProd[Jr. Chemist Production]     JrChemistProd --&gt; OperatorProd[Operator]      Stores --&gt; StoresOfficer[Stores Officer]      Maintenance --&gt; MaintenanceEng[Maintenance Engineer]      HSE --&gt; HSEOfficer[HSE officer]     HSEOfficer --&gt; Executive[Executive]     Executive --&gt; OperatorHSE[Operator]      Purchase --&gt; PurchaseOff[Purchase &amp; Admin Officer]     PurchaseOff --&gt; Accountant[Accountant]      Design --&gt; HeadRD[Head R &amp; D]     HeadRD --&gt; PrincipalScientist[Principal Scientist R &amp; D]     PrincipalScientist --&gt; SrChemistRD[Sr. Chemist R &amp; D]     SrChemistRD --&gt; OperatorRD[Operator]         </pre>		
<p>Details of court cases if pending in any Hon'ble court</p>	<p>NA</p>		

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### **RECOMMENDATIONS OF SEAC:**

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to following conditions,

<b>Sr. No.</b>	<b>Condition</b>
1.	PP to have lay out plan showing internal roads with minimum six meter width and nine meter turning radius, entry/exit gates (preferably sliding gates) , provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 34% green belt with its dimensions preferably on the periphery of the plot with the provision of drip irrigation, rain water harvesting structures (locations with dimensions), storm water drain lines etc. Adoption of Nature Based Solutions for green area should be kept as a principle of development and ecology.
2.	PP to provide Zero Liquid Discharge Effluent Treatment Plant. PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/mechanical vapour compressor etc. so as to reduce operation cost and use of natural resources. PP to get ZLD design vetted by the reputed institute before commissioning of the proposed manufacturing.
3.	PP proposes to sale few hazardous wastes to the authorized vendors; PP to obtain necessary permission/authorization from the CPCB/MPCB for the same under Hazardous Waste Rules. If such permission is not obtained or granted PP to send these hazardous wastes to the CHWTSDF site.
4.	PP to ensure to monitor all parameters proposed to be monitored in work zone area in the ambient air also, so as to trace any escape of work zone area pollutant in the ambient air.
5.	PP to identify the sources of odour generation like the operation where chlorine/bromine are used and provide appropriate odour control mechanism to avoid nuisance to the surrounding area.
6.	PP to get Wild Life Conservation Plan approved from the Competent Authority for which PP earmarked Rs. 6 lakhs.
7.	PP to compulsorily deploy well trained regular employees on all critical/hazardous operations and storages of hazardous chemicals instead of contract workers. Regular safety training to be provided to all such employees.
8.	PP to prepare chemical compatibility chart of all chemicals and finished products handled, stored on site and ensure its storage/handling as per compatibility.
9.	PP to provide Continuous Online Monitoring System connected to the servers of CPCB and MPCB. PP to include VOCs monitoring in the scheduled ambient air monitoring plan.
10.	PP to submit VOCs emission control and its management plan. PP to include VOCs monitoring in their work place monitoring plan.
11.	PP ensure to provide adequate space for parking of all types of vehicles including external vehicles carrying raw material and finished products. No vehicle shall be parked on the public road.

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12.	PP to ensure to prepare and implement On-site and Off-site emergency handling plan. The plan shall be prepared based on the HAZOP and Risk Assessment. Required training to all employees be provided on the emergency handling plans.
13.	PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
14.	PP to utilize CER funds for the development of public infrastructure in the vicinity of the project area in consultation with District Administration. CER consolidated plan to be submitted for its effective implementation
15.	PP to provide solar energy for the illumination of common areas like administrative building, parking areas, streetlight etc.

**CONCLUSION:**

Recommended

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Proposal No. 2 : SIA/MH/IND/408321

Type: EC

### **INTRODUCTION:**

This has reference to your online application vide proposal No. 408321 submitted along with copies of documents seeking prior Environmental Clearance under the provisions of the EIA Notification, 2006. The proposed project activity is listed at Sr. No. 5(f), Synthesis of Organic Chemicals category B1 as per EIA Notification, 2006 amended from time to time and the proposal is appraised in the SEAC-1 committee.

### **PROJECT DETAILS:**

**Environment Clearance for Proposed Establishment of Synthetic organic chemical manufacturing facility by Deepak Novochem Specialities Limited, Plot no. G-62, LoteParshuram MIDC Area, Dist Ratnagiri, Maharashtra by DEEPAK NOVOCHEM SPECIALITIES LIMITED.**

**Details of earlier EC if any:** No.

### **DELIBERATIONS IN SEAC:**

#### **After deliberations SEAC observed:-**

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Aditya Environmental Services Pvt. Ltd.

PP had obtained auto (Standard) generated ToR vide letter No. [SIA/MH/IND3/401552/2022](#), Date: 29<sup>th</sup> September 2022.

The proposal was appraised based on the documents submitted and presented by the PP and their accredited Environmental Consultant.

The proposed project is for manufacturing of synthetic organic chemicals. PP proposes 33% green belt within the premises and Zero Liquid Discharge Effluent Treatment Plant in proposed project.

The brief information of the project as given by the PP is as below,

Sr. No.	Particulars Required	Details					
1	Name of the project & Address along with all corner latitude and longitude	Proposed Establishment of synthetic organic chemical manufacturing facility of Deepak Novochem Specialities Limited (DNSL), Plot No. G-62, MIDC Lote Parshuram, Tal: Khed, Dist: Ratnagiri, Maharashtra.					
		Points	Latitude	Longitude	Points	Latitude	Longitude
		1	17°35'22.68"N	73°29'3.74"E	4	17°35'20.72"N	73°28'57.65"E
		2	17°35'18.26"N	73°29'6.53"E	5	17°35'22.32"N	73°29'1.41"E
		3	17°35'14.94"N	73°28'58.53"E	6	17°35'22.03"N	73°29'2.27"E

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2	<b>Type of Organization (Private / Government/ Semi Government etc)</b>	Limited company registered under Companies Act
3	<b>Correspondence Address and contact details of Project Proponent</b>	Mr. SHREEKRISHNA SAGUN SAWANT Flat No. 7, Swedganga, Vardayani Society, Sus Road, Pashan, Pune – 411021.  email. id.: ssawant@dntl.co.in; Mob. No. +91-98509-08325
4	<b>Type of project (ToR/ EC/ Amendment in ToR/ Amendment in EC/ Revalidation/ Expansion/ Process change etc.)</b>	Fresh EC
5	<b>Category of project as per EIA Notification 2006 amended from time to time (Pl. mention category A, B, B1, B2 etc. whichever is applicable)</b>	5 (f)- B1, Synthetic Organic Chemical Manufacturing facility
6	<b>If earlier ToR is obtained pl. mention details (ToR letter No. &amp; Date, SEAC/EAC Meeting No.)</b>	Auto Standard ToR letter no. SIA/MH/IND3/401552/2022, Date: 29 <sup>th</sup> September 2022
7	<b>If earlier EC is obtained pl. mention EC Number &amp; Date</b>	No, Proposed project is a new establishment.
8	<b>Whether the proposal is a violation case (yes/no)</b>	No, Proposed project is a new establishment.
9	<b>Applicability of CRZ clearance (yes /no)</b>	No, Not Applicable
10	<b>Whether General /Specific</b>	No, Not Applicable

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	<b>Conditions are applicable to the project (Yes/No) If yes pl. give details</b>							
11	<b>Whether Scrutiny fees paid as per SEIAA guidelines (Yes/No); If yes pl give payment details</b>	Yes.  Fees paid Rs. 7,00,000/- Ref UTR No: YESBR52022122295937247						
12	<b>Name of accredited Environmental Consultant &amp; address along with Accreditation No. &amp; Validity</b>	Aditya Environmental Services Pvt. Ltd. 107/110, Hiren Light Industrial Estate, Mogul Lane, Mahim – west, Mumbai – 400016 NABET Certificate No. & Issue Date: NABET/EIA/2225/RA 0262 dated 18th October 2022						
13	<b>Name of layout plan approving Authority</b>	Maharashtra Industrial Development Corporation (MIDC) Lote Parshuram						
14	<b>Estimated cost of Project (in Rs. Lakhs)</b>	19850/-						
15	<b>Area of project (in Sq. m.)</b>	38390 sq. m.						
16	<b>Whether 33% green belt is provided (Yes/No)</b>	Yes						
17	<b>Area of Green Belt &amp; No. of trees in the proposed project in Sq.m. (Pl. provide 2000 trees per hectare of green belt area)</b>	13051 sq. m. (1.3051 hectare)  3300 nos. of trees proposed.						
18	<b>Width of internal roads and turning radius</b>	Width of internal roads- 6 & 8 m. Turning radius- 9 m						
19	<b>Details of proposed construction</b>	<table border="1"> <tr> <td><b>Total Built-up Area (in Sq.m)</b></td> <td>19109</td> </tr> <tr> <td><b>No. of Buildings &amp; its height in mtrs.</b></td> <td>--</td> </tr> </table>	<b>Total Built-up Area (in Sq.m)</b>	19109	<b>No. of Buildings &amp; its height in mtrs.</b>	--		
<b>Total Built-up Area (in Sq.m)</b>	19109							
<b>No. of Buildings &amp; its height in mtrs.</b>	--							
20	<b>List of Raw materials &amp; Storage Details (Pl. add on in the list if necessary) Major raw material storages.</b>							
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Name of Raw material</th> <th>Consumption TPD</th> <th>Maximum Storage Details, m3</th> <th>Hazard category (NFPA)</th> <th>Proposed precautions</th> </tr> </thead> </table>	Sr. No.	Name of Raw material	Consumption TPD	Maximum Storage Details, m3	Hazard category (NFPA)	Proposed precautions	
Sr. No.	Name of Raw material	Consumption TPD	Maximum Storage Details, m3	Hazard category (NFPA)	Proposed precautions			

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					Health	Flammable	Reactive	to prevent accident
1	Toluene	1.19	50	2	3	0	Dyke wall, earthing, flame arrester, fire hydrant system, PRV	
2	Methanol	62.94	4 nos. of 50	2	3	0		
3	Acetone	2.7	50	1	3	0		
4	Isopropyl alcohol	2.47	30	1	3	0		
5	2,6 Xylenol	35	4 nos. of 100	3	2	0		
6	Phenol	96	5 nos. of 100	4	2	0		
7	Sulfuric acid	6	25	3	0	2	Dyke wall, brick lining	
8	HCl solution	11	25	3	0	1		
21	<b>Production Details</b>							
	<b>Sr. No</b>	<b>Product</b>						<b>Proposed capacity, TPA</b>
	1	<b>Cresol and Xylenol</b>						
		Cresol (ortho/meta/para) / Alkylated Phenol						25000
		2,6 Xylenol						
	2	<b>Speciality Bisphenols like</b>						
		Tetra methyl Bisphenol- F						5000
		Tetra methyl Bisphenol- A						
		Bisphenol- S						
		BP818DGE						
	3	<b>Bisphenols like</b>						
		Tetra methyl Bisphenol- S						1000
		Dimethyl Bisphenol- A						
		Bisphenol- TMC / Bis Cyclohexylphenol TMC						
		Bisphenol- A						
		Dimethyl Bisphenol- C						
		Bisphenol- E						
		Bisphenol- Z						
		Bisphenol- OPPFL						
		Bisphenol- OCTMC						
		Bisphenoxy Ethanol Fluorene/ Bis Cresol Fluorene						
		4,4-DECYLIDENEBISPHENOL (Decanal Bisphenol A)						
		2,2-BIS(2-HYDROXY-5-BIPHENYLYL PROPANE (Bisphenol- OPPA)						
		4,4-ISOPROPYLIDENEBIS(O-TERT-BUTYLPHENOL) (Bisphenol- OTBPA)						
		Ortho Cresol GE						
		Phenol GE						
		Tetramethylol bisphenol A						
		Tetramethyl methylene dianiline (TMMDA)						
	4	<b>Biphenols and Alkyl Phenols like -</b>						
		Tetra Methyl Biphenol (TMBP)						2500
		Di Methyl Bi phenol (DMBP) etc.						

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		DCPD Phenol																																																																																										
		Ortho-Cumyl-Octyl Phenol (OCOP)																																																																																										
	5	<b>Amines like -</b>																																																																																										
		Dimethylcyclohexanone (DMCHN)	2000																																																																																									
		M-Xylene Diamine/ P-Xylene Diamine																																																																																										
		Hydrogenated Bisphenol A																																																																																										
	6	Industrial Salt	1607																																																																																									
	7	4-[Bis(3,5-dimethyl 4-hydroxyphenyl) methylidene] cyclohexa 2,6-dimethyl-2,5-dien-1-one (Novalac)	752																																																																																									
	8	Tetra Methylated Phenol/ Higher Methylated Phenol	5111																																																																																									
	9	Inorganic Catalyst	30																																																																																									
		<b>Total</b>	<b>43000</b>																																																																																									
22	<p><b>i) Source &amp; qty. of Water requirement (CMD)</b>                      Source: Lote Parshuram MIDC. (Water assurance received from MIDC).                      Total Water Requirement: 1073 cmd (Fresh from MIDC- 853 &amp; Treated effluent recycle- 220)</p> <p><b>ii) Water supply permission obtained (Yes/No) &amp; approving Authority: Yes, MIDC Letter no. EE/RTN/D-42226/OF-2022 dated 13/10/2022.</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Particulars</th> <th colspan="3">Consumption (CMD)</th> <th colspan="3">Loss (CMD)</th> <th colspan="3">Effluent generation (CMD)</th> </tr> <tr> <th>Existing</th> <th>Proposed</th> <th>Total</th> <th>Existing</th> <th>Proposed</th> <th>Total</th> <th>Existing</th> <th>Proposed</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Domestic Purpose</td> <td>0</td> <td>20</td> <td>20</td> <td>0</td> <td>4</td> <td>4</td> <td>0</td> <td>16</td> <td>16</td> </tr> <tr> <td>Industrial Process</td> <td>0</td> <td>25</td> <td>25</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>58</td> <td>58</td> </tr> <tr> <td>Cooling Tower</td> <td>0</td> <td>776</td> <td>776</td> <td>0</td> <td>660</td> <td>660</td> <td>0</td> <td>116</td> <td>116</td> </tr> <tr> <td>Boiler</td> <td>0</td> <td>169</td> <td>169</td> <td>0</td> <td>144</td> <td>144</td> <td>0</td> <td>25</td> <td>25</td> </tr> <tr> <td>Utilities (DM plant &amp; scrubber)</td> <td>0</td> <td>18</td> <td>18</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>18</td> <td>18</td> </tr> <tr> <td>Green Belt</td> <td>0</td> <td>65</td> <td>65</td> <td>0</td> <td>65</td> <td>65</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td><b>Total</b></td> <td>0</td> <td>1073</td> <td>1073</td> <td>0</td> <td>873</td> <td>873</td> <td>0</td> <td>233</td> <td>233</td> </tr> </tbody> </table>			Particulars	Consumption (CMD)			Loss (CMD)			Effluent generation (CMD)			Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	Domestic Purpose	0	20	20	0	4	4	0	16	16	Industrial Process	0	25	25	0	0	0	0	58	58	Cooling Tower	0	776	776	0	660	660	0	116	116	Boiler	0	169	169	0	144	144	0	25	25	Utilities (DM plant & scrubber)	0	18	18	0	0	0	0	18	18	Green Belt	0	65	65	0	65	65	0	0	0	<b>Total</b>	0	1073	1073	0	873	873	0	233	233
Particulars	Consumption (CMD)				Loss (CMD)			Effluent generation (CMD)																																																																																				
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total																																																																																			
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23	<b>Quantity of sewage generation (in CMD)</b>	Domestic Sewage: 16 cmd																																																																																										
24	<b>Details of Sewage Treatment and Disposal of treated sewage:</b>	Domestic sewage will be treated in STP and recycle for green belt.																																																																																										
25	<b>Detail of Effluent Generation (unit CMD)</b>																																																																																											
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26	<b>Whether Zero liquid Discharge Effluent Treatment is proposed (Yes/ No)</b>	Yes, Unit will maintain Zero Liquid Discharge (ZLD).																																																																																										

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27	<b>Brief Description of Effluent Treatment scheme</b>	Collection Tank < Equalization Tank < Neutralisation tank < PAC-PEC Treatment with Clarifier < Reverse Osmosis plant < RO permeate recycle RO reject < MEE < ATFD < Condensate back to ETP & Salts to CHWTSDF				
28	<b>Qty of treated effluent proposed to be sent to CETP (pl. mention Name of CETP and its membership Details)</b>	Not applicable as the proposed project will maintain Zero Liquid Discharge (ZLD).				
29	<b>Please mention parameters of treated effluent to be achieved as per EP Rule,1986 and or stipulated by the SPCB</b>					
	<b>Parameter</b>	<b>Inlet concentration (mg/L) at ETP</b>	<b>Outlet concentration (mg/L)</b>			
	PH	6-8	7			
	COD	2000	150			
	BOD	0	0			
	TDS	2000	100			
30	<b>Brief Note on proposed Rainwater harvesting scheme along with budget allocation:</b>	Harvested rainwater will be stored in underground tank of 50 m3 tank.				
31	<b>Solid Waste management</b>					
	<b>Sr No</b>	<b>Type of Waste</b>	<b>Quantity</b>	<b>Mode of Disposal</b>		
	1	Boiler ash	3 MT/Day	Sale to brick manufacturer/ Landfill		
	2	Wooden Scrap	20 MT/A	Sale to Scrap Dealer		
	3	Plastic Scrap	10 MT/A	Sale to Approved Scrap Dealer		
	4	MS/SS/Aluminium Scrap	100 MT/A	Sale to Approved Scrap Dealer		
	5	Paper Waste/cardboard	4 MT/A	Sale to Approved Scrap Dealer		
	6	Used Insulation Material	4 MT/A	Sale to Approved Scrap Dealer / CHWTSDF		
	7	Canteen/ Kitchen Waste	5 MT/A	Use as manure/ To vermiculture		
	8	STP Sludge	4 MT/A	Use as manure		
	9	Safety helmet, safety goggles, hand gloves	100 No /A	Sale to approved party		
	11	E waste, Electrical bulbs, Tubes, Electrical cables	2 TPA	Sent to approved re-processor/ Agency		
32	<b>Hazardous Waste Generation &amp; Disposal (As per HW Rule 2016)</b>					
	<b>Sr No</b>	<b>Category</b>	<b>Type of Waste</b>	<b>Quantity</b>	<b>UOM</b>	<b>Mode of Disposal</b>
	1	5.1	Used/ Spent Oil	4	MT/A	Sale to Approved party
	2	5.2	Waste or residue containing oil	50	MT/A	CHWTSDF
	3	15.2	Used Teflon packings	4	MT/A	CHWTSDF

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	4	19.2	Spent catalyst	40	MT/A	Sale to Approved party/ CHWTSDF		
	5	20.2	Spent Solvent	300	MT/A	Sale to Approved party/ CHWTSDF		
	6	20.3	Distillation Residue	2200	MT/A	CHWTSDF		
	7	28.3	Spent Carbon or Filter	4	MT/A	Sale to Approved party/ CHWTSDF		
	8	33.1	Discarded containers/ barrels/ Liners contaminated with hazardous Waste/ Chemicals	10000	Nos./A	Sale to Approved party		
	9	33.1	Reagent bottles	500	Nos./A	Sale to Approved party		
	10	33.2	Waste/ oil soaked Cotton	1.5	MT/A	CHWTSDF		
	11	35.3	Chemical sludge arising from Effluent Treatment Plant	2500	MT/A	CHWTSDF		
	12	37.2	Flue gas cleaning residue	2	MT/A	CHWTSDF		
	33	<b>Fuel Consumption</b>						
		<b>Type of fuel</b>	<b>Proposed Consumption</b>	<b>Used for</b>	<b>% Ash</b>	<b>% S</b>	<b>Control system</b>	
		Furnace oil	44.91 MTPD	TFH & Boiler	--	4.5	Wet Scrubber followed by stack height	
	<b>Natural Gas</b>	<b>1661 Nm<sup>3</sup>/Hr</b>	<b>TFH &amp; Boiler</b>	--	--	<b>Stack height</b>		
	Coal	20 MTPD	Boiler	15	0.5	Dust collector followed by Bag filter		
	Briquette	20 MTPD	Boiler	10	--			
	HSD	400 Lit/hr	DG set	--	--	Adequate stack height		
34	<b>Brief Note on Air Pollution Control equipment's</b>	Bag filter will be provided to control emissions from coal fired Boiler. Scrubber will be provided for FO fired Thermic fluid heater. DG set will be provided with adequate stack height.						
35	<b>Stack Details (Also include process vent details)</b>							
	<b>Sr. No.</b>	<b>Section/ Unit</b>	<b>Source pollutants</b>	<b>Fuel Qty</b>	<b>Stack No.</b>	<b>Height form ground</b>	<b>Internal Diameter (m)</b>	<b>Temp. of exhaust gas</b>
	1	TFH 35 lakh Kcal/Hr	SOX, NOX	Furnace oil: 10.5 MTPD/ Natural Gas: 453 Nm <sup>3</sup> /Hr	1	42	0.6	180
	2	TFH 15 lakh Kcal/Hr	SOX, NOX	Furnace oil: 4.41 MTPD/ Natural Gas: 194 Nm <sup>3</sup> /Hr	2	32	0.4	180
	3	Boiler 15 TPH	SOX, NOX	Furnace oil: 30 MTPD/ Natural Gas: 1014 Nm <sup>3</sup> /Hr	3	60	1	180
	4	Boiler 5 TPH	PM10, SOX, NOX	Coal/ Briquette- 20 MTPD	4	30	0.8	180
	5	1000 KVA DG set	PM10, SOX, NOX	HSD- 200 Lit/hr	5	7 m above Bldg. Ht.	0.5	150

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	6	1000 KVA DG set	PM10, SOX, NOX	HSD- 200 Lit/hr	6	7 m above Bldg. Ht.	0.5	150										
	7	Alkylation plant	-	--	7	8	0.2	Ambient temp.										
	8	DGE plant	-	--	8	5	0.2	Ambient temp.										
	9	Bisphenol plant	-	--	9	5	0.2	Ambient temp.										
	10	QA/QC Lab	-	--	10	5	0.2	Ambient temp.										
	11	Nitrile Plant	-	--	11	8	0.2	Ambient temp.										
36	<p><b>Energy</b></p> <p>a) Source of power Supply: from Maharashtra State Electricity Distribution Company Limited (MSEDCL)</p> <p>b) Maximum Demand (KVA): 2000 KVA</p> <p>c) whether DG sets will be provided (Yes/No): Yes. It is proposed to install 2 Nos of DG sets of 1000 KVA capacity each <b>for emergency / backup power source.</b></p> <p>if yes:</p> <table border="1"> <thead> <tr> <th>DG set</th> <th>Existing</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>Nos.</td> <td>--</td> <td>2 no.</td> </tr> <tr> <td>Capacity</td> <td>--</td> <td>1000 KVA</td> </tr> </tbody> </table> <p>d) Please Mention if high tension line is passing through the plot: No If yes, pl. give details of safety measures adopted:</p>								DG set	Existing	Proposed	Nos.	--	2 no.	Capacity	--	1000 KVA	
DG set	Existing	Proposed																
Nos.	--	2 no.																
Capacity	--	1000 KVA																
37	<p><b>Details of use of renewable energy with budget allocation</b></p> <p>i) Total Energy Demand: 2000 KVA</p> <p>ii) Proposed renewable energy source capacity: 720 kWp</p> <p>iii) Proposed Budget (in Rs. Lakhs): 100</p> <p>iv) Timeline for implementation: Mar 2024</p>																	
38	<p><b>Details of public hearing-</b> Project is in notified industrial area, hence Public hearing is not applicable.</p> <p>i) Place of public hearing: Not applicable</p> <p>ii) Date of public hearing: Not applicable</p> <p><b>Please fill following details</b></p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Issue raised during public hearing</th> <th>Applicants plan for its compliance/ implementation</th> <th>Budget allocation for implementation</th> <th>Specific timeline of compliance</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align: center;">Not applicable</td> </tr> </tbody> </table>								Sr. No.	Issue raised during public hearing	Applicants plan for its compliance/ implementation	Budget allocation for implementation	Specific timeline of compliance	Not applicable				
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Not applicable																		
39	<p>EMP (Please mention specific items proposed in EMP along with specific timeline for its implementation)</p> <p><b>Construction Phase</b></p> <table border="1"> <thead> <tr> <th>Sr no</th> <th>Attribute</th> <th>Specific measure</th> <th>Budget in (Rs lakh)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><b>Construction Management</b></td> <td> <ul style="list-style-type: none"> <li>- Site preparation (Levelling, filling, Compacting)</li> <li>- Provision of barricading sheets, sprinkler, topsoil preservation, Material storage precaution</li> <li>- Construction and demolition waste safe disposal</li> <li>- Safe shelter for worker, Drinking water and sanitary facility</li> <li>- PPE for construction worker</li> </ul> </td> <td>485</td> <td>--</td> </tr> </tbody> </table>								Sr no	Attribute	Specific measure	Budget in (Rs lakh)	Remark	1	<b>Construction Management</b>	<ul style="list-style-type: none"> <li>- Site preparation (Levelling, filling, Compacting)</li> <li>- Provision of barricading sheets, sprinkler, topsoil preservation, Material storage precaution</li> <li>- Construction and demolition waste safe disposal</li> <li>- Safe shelter for worker, Drinking water and sanitary facility</li> <li>- PPE for construction worker</li> </ul>	485	--
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<b>Operation Phase</b>					
<b>Sr. No.</b>	<b>Attributes</b>	<b>Specific measures</b>	<b>Budget in Rs. lakh</b>	<b>Timeline for implement</b>	<b>Responsibility</b>
1	Air Pollution Control	Boiler/ TFH- Installation of stacks and adequate APC system	215	Before commissioning	DNSL
2	Water Pollution Control	Installation of ETP (MEE, RO, ATFD), Installation of STP	800	Before commissioning	
3	Solid and hazardous waste management	Storage, transportation and Disposal of Non-Hazardous and hazardous waste as per HW waste and handling rules	20	During Construction & Operation phase	
4	Noise Pollution Control	Provision of Acoustic enclosures to DG sets and high noise generating machineries and maintenance	20	Before commissioning	
5	Environmental Monitoring & Management	Process gas and VOC detector installation Laboratory & Chemicals, Carbon and water foot print monitoring	45	During Construction & Operation phase	
6	Occupational Health and Safety	Fire Fighting System Safety training and awareness	265	During Construction & Operation phase	
7	Green belt development	Development and Maintenance of Green Belt	25	During Construction	
8	Rain water harvesting	Construction of the RWH tank and associate facility	40	During Construction	
9	Energy conservation measures	Roof top solar system	100	During Construction	
<b>40</b>	<b>Other Relevant Information: (Pl. provide brief note on proposed project)</b>	<p>DNSL is among very few companies in the world that employ Ecofriendly Gas Phase reaction Technology for manufacturing various Cresols/ Xylenols, with these able to provide customized products. These processes could be categorized as green technologies when compared to conventional processes to manufacture these products (Conventional process uses chlorination / sulfonation route to manufacture Cresols)</p> <p>DNSL will produce Cresol and Xylenol with Zero solvent process and DNSL will continue to explore other product manufacturing with least solvent consumption, improved product yields and reducing hazardous waste generation.</p> <p>Less than 3% process water will be use from 853 CMD fresh water requirement for producing 43000 MTPA.</p> <p>Zero liquid discharge (ZLD) will be maintained at the proposed operational facility.</p>			
<b>41</b>	<b>Details of skill development program within Organization</b>	Training & Awareness programmes at all levels at regular intervals.			

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42	<p><b>Details of environmental Monitoring Cell (Pl. provide organogram with educated Qualification and experience)</b></p>	<pre> graph TD     CEO[CEO &amp; ED] --&gt; Unit[Unit Head]     Unit --&gt; CM[Chief Manager SHE]     CM --&gt; DMHS[Dy. Manager Health &amp; Safety]     CM --&gt; DME[Dy. Manager Environment]     DMHS --&gt; Exec1[Executiv]     Exec1 --&gt; OHC[OHC]     DME --&gt; Exec2[Executive]     Exec2 --&gt; Officers[Officers/chemist]     Officers --&gt; Operator[Operator/Helper]         </pre>
43	<p><b>Details of court cases if pending in any Hon'ble court</b></p>	<p>No.</p>

**RECOMMENDATIONS OF SEAC:**

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to following conditions,

Sr. No.	Condition
1.	<p>PP to submit lay out plan showing internal roads with minimum six meter width and nine meter turning radius, entry/exit gates (preferably sliding gates) , provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions preferably on the periphery of the plot with the provision of drip irrigation, rain water harvesting structures (locations with dimensions), storm water drain lines etc.</p> <p>Adoption of Nature Based Solutions for green area should be kept as a principle of development and ecology.</p>
2.	<p>PP to provide Zero Liquid Discharge Effluent Treatment Plant. PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/mechanical vapour compressor etc. so s to reduce operation cost and use of</p>

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	natural resources. PP to get ZLD design vetted by the reputed institute before commissioning of the proposed manufacturing.
3.	PP to explore possibility to use low sulphur content fuel instead of furnace oil till natural gas is made available in the MIDC area.
4.	PP to ensure to monitor all parameters proposed to be monitored in work zone area in the ambient air also, so as to trace any escape of work zone area pollutant in the ambient air.
5.	PP to identify the sources of odour generation/toxic chemicals emission and provide appropriate odour control / mitigation measures mechanism to avoid nuisance to the surrounding area.
6.	PP to make arrangement for storage of raw effluent for at least 72 hours in case of failure of MEE & RO and submit detailed plan accordingly.
7.	PP to get Wild Life Conservation Plan approved from the Competent Authority for which PP earmarked Rs. 25 lakhs.
8.	PP to look at the mitigation measures proposed under LCA study and remove the items from the list which are mandatory requirement for their operations/projects either technically or legally and list only those items which are truly considered as additional measures to control the identified adverse impact.
9.	PP to ensure to deploy well trained regular employees on all critical/hazardous operations and storages of hazardous chemicals instead of contract workers. Regular safety training to be provided to all such employees.
10.	PP to prepare chemical compatibility chart of all chemicals and finished products handled, stored on site and ensure its storage/handling as per compatibility.
11.	PP to provide Continuous Online Monitoring System connected to the servers of CPCB and MPCB. PP to include VOCs monitoring in the scheduled ambient air monitoring plan.
12.	PP to submit VOCs emission control and its management plan. PP to include VOCs monitoring in their work place monitoring plan.
13.	PP ensure to provide adequate space for parking of all types of vehicles including external vehicles carrying raw material and finished products. No vehicle shall be parked on the public road.
14.	PP to ensure to prepare and implement On-site and Off-site emergency handling plan. The plan shall be prepared based on the HAZOP and Risk Assessment. Required training to all employees be provided on the emergency handling plans.
15.	PP to ensure to prepare a fail proof Disaster Management Plan is prepared, established and implemented followed by regular mock drills.
16.	PP to explore possibility to provide storage facility for rain water on the east side of plot and complete rain water harvesting facility before the commissioning of the manufacturing activity.
17.	PP to utilize CER funds for the development of public infrastructure in the vicinity of the project area in consultation with District Administration. CER consolidated plan to be submitted for its effective implementation
18.	PP to provide solar energy for the illumination of common areas like administrative building, parking areas, streetlight etc.

**CONCLUSION:** Recommended

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Proposal No. 3 : SIA/MH/IND/406151

Type: EC

**INTRODUCTION:**

This has reference to your online application vide proposal No. 406151 submitted along with copies of documents seeking prior Environmental Clearance under the provisions of the EIA Notification, 2006. The proposed project activity is listed at Sr. No. 5(f), Synthesis of Organic Chemicals category B1 as per EIA Notification, 2006 amended from time to time and the proposal is appraised in the SEAC-1 committee.

**PROJECT DETAILS:**

**Environment Clearance for Establishment of Synthetic Organic Chemicals Manufacturing Unit of Plot no. K-29 & K- 46, MIDC Tarapur, Boiser Dist. Palghar by M/s. Nandosal Industries.**

**Details of earlier EC if any:** No.

**DELIBERATIONS IN SEAC:**

**After deliberations SEAC observed:-**

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Sadekar Enviro Engineers Pvt. Ltd.

PP had obtained auto (Standard) generated ToR vide letter No. SIA/MH/IND/76312/2022 dated 05.05.2022.

PP informed that, the MIDC has transferred the said plots along with the existing structures from M/s. Rang Rez Fashions Pvt. Ltd. to Nandosal Industries dated 23-04-2019 and now, they intends to setup a new manufacturing of Synthetic Organic Chemicals at Plot No. K-29 & K-46, MIDC Tarapur, Taluka - Palghar, Dist- Palghar, Maharashtra – 401506.

The proposal was appraised based on the documents submitted and presented by the PP and their accredited Environmental Consultant.

The proposed project is for manufacturing of Synthetic Organic Chemicals.

The brief information of the project as given by the PP is as below,

<b>Sr. No.</b>	<b>Particulars Required</b>	<b>Details</b>
1	Name of the project & Address along with all corner latitude and longitude	Establishment of Synthetic Organic Chemicals Manufacturing Unit of M/s. Nandosal Industries.

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		Project plot corner		Latitude	Longitude
		1	A	19°47'48.07"N	72°43'24.66"E
		2	B	19°47'48.58"N	72°43'24.06"E
		3	C	19°47'46.47"N	72°43'22.31"E
		4	D	19°47'46.01"N	72°43'22.96"E
2	Type of Organization (Private /Government /Semi Government etc.)	Private			
3	Correspondence Address and contact details of Project Proponent	<b>Mr.Riyaz Nandolia</b> <b>Email Id:</b> rizwanmukhi@gmail.com Telephone: 9898405032 Address: Plot No- K-29 & K-46,MIDC Tarapur Boisar, Dist – Boiser – 401506			
4	Type of project (ToR/EC/Amendment in ToR/Amendment in EC/Revalidation/ Expansion/Process change etc.)	New (Project will be carried out utilizing existing structure of M/s. Rang Rez Fashions Pvt. Ltd.)			
5	Category of project as per EIA Notification 2006 amended from time to time (Pl. mention category A,B,B1,B2 etc. whichever is applicable)	B-1 Category			
6	If earlier ToR is obtained pl. mention details (ToR letter No. & Date, SEAC/EAC Meeting No.)	TOR letter file No. SIA/MH/IND3/76312/2022 Dated 05/05/2022			
7	If earlier EC is obtained pl. mention EC Number & Date	Not Applicable			
8	Whether the proposal is a violation case (yes/no)	No			
9	Applicability of CRZ clearance (yes /no)	No			
10	Whether General /Specific Conditions are applicable to the project (Yes/No) If yes pl. give details	Yes, The project site is located in Tarapur MIDC, Tarapur industrial area was ranked as Critically Polluted Area (CEPI score 93.69) as per N.G.T Order (O.A No 1038/2018) dated 10.07.2019, Hence general condition shall be applied to this project.			
11	Whether Scrutiny fees paid as per SEIAA guidelines(Yes/No); If yes pl give payment details	Yes, Scrutiny fee of INR 1.5 lakh paid vide transection Ref. No. FT212033349691; Dated 03-12-2022.			
12	Name of accredited Environmental Consultant & address along with Accreditation No. & Validity	<b>M/s Sadekar Enviro Engineers Pvt. Ltd.</b> Address: Plot No. A-95 , Road No. 16 , Kisan Nagar Road , MIDC Wagle Industrial Area , Thane – 400604 NABET certificate no. NABET/EIA/2124/SA 0146, Valid upto 18 <sup>th</sup> April 2023.			

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13	Name of layout plan approving Authority	MIDC Tarapur					
14	Estimated cost of Project (in Rs. Lakhs)	<b>Total project cost:</b> INR 4.1063 Crore					
15	Area of project (in Sq.m.)	<b>Total Plot Area:</b> 1600 Sq. m.					
16	Whether 33% green belt is provided (Yes/No)	Yes, 168.44 Sq. m. (Inside Plant Premises – 10.53%) & 1011.7 Sq. m. (Outside Plant Premises – 63.23%)					
17	Area of Green Belt & No. of trees in the proposed project in Sq.m. (Pl. provide 2000 trees per hectare of green belt area)	<b>Total Greenbelt Area : 1180.14</b> (168.44 Sq. m (Inside Plant premises),1011.7 sqm (Outside Plant Premises) <b>Total No. of trees:</b> 295 Nos. @ 2500 trees per hectare.					
18	Width of internal roads and turning radius	<b>Width of Internal roads :</b> 6 m. <b>Turning radius :</b> 9m.					
19	Details of proposed construction	<b>Total Built-up Area:</b> 1449.19 Sq.m.					
		<b>No. of Buildings &amp; its height in mtrs</b>	Project will be carried out utilizing existing structure of M/s. Rang Rez Fashions Pvt. Ltd. Hence No further construction is proposed.				
20	List of Raw materials & Storage Details (Pl. add on in the list if necessary)						
	<b>Sr. No.</b>	<b>Name of Raw material</b>	<b>Consumption MT/M</b>	<b>Maximum Storage Details</b>	<b>Hazard category</b>	<b>Proposed precautions to prevent accident</b>	<b>Remarks</b>
	1	Ortho Anisidine	50	27	Toxic	Spill kit provided and PPEs provided	--
	2	Para Anisidine	50	25	Toxic	Spill kit provided and PPEs provided	--
	3	Para Toluidine	35	20	-	PPEs provided	--
	4	Ortho Toluidine	8.5	4	Toxic	Spill kit provided and PPEs provided	--
	5	Para Nitro Phenol	15	5	-	PPEs provided	--
	6	Meta Chloro Aniline	3.5	3	-	PPEs provided	--
	7	Ortho Chloro Aniline	3.5	3	-	PPEs provided	--
	8	Acetic Anhydride	50	10	Toxic	Spill kit provided and PPEs provided	--
	9	Acetic Acid	50	16	Toxic	Spill kit provided and PPEs provided	--
	10	Nitric Acid	90	10	Toxic	Spill kit provided and PPEs provided	--
	11	Methylene di Chloride	5	5	-	PPEs provided	--
12	Caustic Soda Lye	125	20 KL	Toxic	Spill kit provided and PPEs provided	--	

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	13	Sulphuric Acid	7.5	5 KL	Toxic	Spill kit provided and PPEs provided	--
	14	Soda Ash	15	3	-	-	--
	15	Hydro Chloric Acid	10 KL	10 KL	Toxic	Spill kit provided and PPEs provided	--
21	<b>Production Details</b>						
	<b>Sr. No.</b>	<b>Name of product</b>	<b>Existing capacity MT/M</b>	<b>Proposed capacity MT/M</b>	<b>Total capacity MT/M</b>	<b>Name of Product approving authority (like FDA of pharmaceuticals etc.)</b>	
	1	2 Amino 5 Nitro Anisole (Fast Red B Base) Or 2 Amino 4 Nitro Anisole (Fast Scarlet R Base)	-	50	50	-	
	2	2 Amino 4 Nitro Anisole Hydrochloride (Fast Scarlet Rc Base)	-	6.5	6.5	-	
	3	Meta Nitro Para Anisidine (Fast Bordeaux GP Base)	-	50	50	-	
	4	Meta Nitro Para Toluidine	-	35	35	-	
	5	2 Methyl 5 Nitro Aniline	-	8.5	8.5	-	
	6	4 Hydroxy Acetanilide	-	15	15	-	
	7	Meta Chloro Aniline Hydrochloride	-	10	10	-	
	8	Ortho Chloro Aniline Hydrochloride	-	10	10	-	
	9	Acetic Acid	-	40	40	-	
	10	Sodium Acetate	-	45	45	-	
	11	Magnesium Nitrate	-	43.5	43.5	-	
		<b>Total</b>		<b>313.5</b>	<b>313.5</b>		

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22	Water Consumption & Effluent generation (All units in CMD)																																																																																							
	i) Source & Qty of water requirement (in CMD)					<b>Total water Requirement: 201.5 CMD</b> <b>Source of water supply: MIDC Water</b>																																																																																		
ii) Water supply permission obtained (Yes / No) & approving authority					No, water supply permission will be obtained after prior environmental clearance. Approving authority: MIDC, Tarapur.																																																																																			
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Boiler	--	24	24	--	6.0	6.0	--	1.2	1.2																																																																															
Greenbelt maintenance	--	1	1	--	1.0	1.0	--	--	--																																																																															
<b>Total</b>	-	<b>201.5</b>	<b>201.5</b>		<b>107.7</b>	<b>107.7</b>		<b>77</b>	<b>77</b>																																																																															
*87.6 CMD will be recycled and used in next process																																																																																								
23	Quantity of sewage generation in CMD							<b>2.0</b>																																																																																
24	Details of Sewage Treatment and Disposal of treated sewage:							The sewage effluent will be treated in the Aeration tank of Effluent Treatment Plant.																																																																																
25	<b>Detail of Effluent Generation (unit CMD)</b>																																																																																							
	<b>Particulars</b>				<b>Existing</b>	<b>Proposed</b>	<b>Total</b>																																																																																	
	a) Qty. of Effluent generation: (CMD)				--	77.0	77.0																																																																																	
	b) Qty. of high TDS/COD effluent: (CMD)				--	5	5																																																																																	
c) Qty. of low TDS/COD effluent: (CMD)				--	72	72																																																																																		
26	Whether Zero liquid Discharge Effluent Treatment is proposed (Yes/No)				Yes																																																																																			
NO																																																																																								
27	Brief Description of Effluent Treatment scheme				<ul style="list-style-type: none"> <li>▪ Company will operate as a Zero Liquid Discharge unit, wherein the entire effluent after appropriate treatment will be reused inside the company premises.</li> <li>▪ The effluent streams will be segregated as HCOD/HTDS and LCOD/LTDS depending upon its characteristics .</li> </ul>																																																																																			

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		<ul style="list-style-type: none"> <li>▪ HCOD/HTDS Process effluent (5 CMD) will be treated in Stripper-MVR-ATFD. Spent solvents (0.3 T/D) separated in stripper from solvent containing effluent will be sent to CHWTSDF/Authorized Recycler. Evaporation residue (1.79 T/D) from ATFD will be sent to CHWTSDF.</li> <li>▪ LCOD/LTDS process effluent (58.8 CMD) will be treated in ETP of 100 CMD capacity comprising primary, secondary &amp; tertiary treatment.</li> <li>▪ MVR-ATFD condensate (20.66 CMD) water along with boiler blow down (1.2 CMD), cooling tower blow down (10.0 CMD) &amp; domestic effluent (2.0 CMD) will be treated in ETP comprising of primary, secondary &amp; tertiary treatment.</li> <li>▪ Treated effluent from ETP (88.5 CMD) will be Passed through R.O Unit</li> <li>▪ R.O reject (17.7 CMD) will be re-circulated to MVR for treatment and R.O Permeate (70.8 CMD) will be recycled for cooling tower make up.</li> <li>▪ ETP sludge (1.39 T/D) will be sent to CHWTSDF.</li> </ul>																																			
28	Qty of treated effluent proposed to be sent to CETP (pl. mention Name of CETP and its membership Details)	As the project will operate as ZLD unit, No Effluent will be sent to CETP.																																			
29	Please mention parameters of treated effluent to be achieved as per EP Rule,1986 and or stipulated by the SPCB																																				
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="padding: 5px;">Parameter</th> <th style="padding: 5px;">Inlet concentration of MVR (HCOD/H TDS)</th> <th style="padding: 5px;">Inlet concentration to MVR (After Primary Treatment)</th> <th style="padding: 5px;">Inlet concentration of ETP (LCOD/LTDS)</th> <th style="padding: 5px;">Outlet concentration as per SPCB standard</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">pH</td> <td style="padding: 5px;">6-10</td> <td style="padding: 5px;">7.5 To 9</td> <td style="padding: 5px;">6-10</td> <td style="padding: 5px;">5.5 to 9.0</td> </tr> <tr> <td style="padding: 5px;">TDS</td> <td style="padding: 5px;">100000</td> <td style="padding: 5px;">55000</td> <td style="padding: 5px;">2000-3000</td> <td style="padding: 5px;">Less than 2100 mg/l</td> </tr> <tr> <td style="padding: 5px;">COD</td> <td style="padding: 5px;">90000</td> <td style="padding: 5px;">45000</td> <td style="padding: 5px;">5000</td> <td style="padding: 5px;">Less than 250 mg/l</td> </tr> <tr> <td style="padding: 5px;">BOD</td> <td style="padding: 5px;">2000</td> <td style="padding: 5px;">-</td> <td style="padding: 5px;">2000 mg/l</td> <td style="padding: 5px;">Less than 100 mg/l</td> </tr> <tr> <td style="padding: 5px;">Oil &amp; Grease</td> <td style="padding: 5px;">--</td> <td style="padding: 5px;">-</td> <td style="padding: 5px;">10 mg/l</td> <td style="padding: 5px;">Less than 10 mg/l</td> </tr> <tr> <td style="padding: 5px;">TSS</td> <td style="padding: 5px;">300</td> <td style="padding: 5px;">150</td> <td style="padding: 5px;">300 mg/l</td> <td style="padding: 5px;">100 mg/l</td> </tr> </tbody> </table>		Parameter	Inlet concentration of MVR (HCOD/H TDS)	Inlet concentration to MVR (After Primary Treatment)	Inlet concentration of ETP (LCOD/LTDS)	Outlet concentration as per SPCB standard	pH	6-10	7.5 To 9	6-10	5.5 to 9.0	TDS	100000	55000	2000-3000	Less than 2100 mg/l	COD	90000	45000	5000	Less than 250 mg/l	BOD	2000	-	2000 mg/l	Less than 100 mg/l	Oil & Grease	--	-	10 mg/l	Less than 10 mg/l	TSS	300	150	300 mg/l	100 mg/l
Parameter	Inlet concentration of MVR (HCOD/H TDS)	Inlet concentration to MVR (After Primary Treatment)	Inlet concentration of ETP (LCOD/LTDS)	Outlet concentration as per SPCB standard																																	
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Oil & Grease	--	-	10 mg/l	Less than 10 mg/l																																	
TSS	300	150	300 mg/l	100 mg/l																																	
30	Brief Note on proposed Rainwater harvesting scheme along with budget allocation:	Amount of rain water that can be collected – = Annual rainfall (mm) X Roof area (Sq. m.) X Runoff coefficient = 2139X 228 X0.9																																			

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		=438922.8 Liters/Annum = <b>3.66 m<sup>3</sup>/day</b> (Considering 120 days of rainfall annually) Considering the 7 days storage capacity, required tank volume. = 3.66 x 7 (Days of Storage) = <b>25.62 m<sup>3</sup></b> 1 tank of <b>30 m<sup>3</sup></b> will be provided to store the rain water. <b>Budgetary allocation of Rs. 3, 00,000/-</b> for setting up RWH system. <b>Rs. 50,000/-</b> for <b>recurring expenditure</b> annually such as cleaning & maintenance of RWH tank.				
31	<b>Solid Waste Management</b>					
	<b>Sr. No.</b>	<b>Type of waste</b>	<b>Source</b>	<b>Quantity (MT/A)</b>	<b>Disposal Methods</b>	<b>Pl. mention plan to reduce solid waste generation if any</b>
	<b>Details of Non Hazardous Waste</b>					
	1	Ash	Burning fuel	153	Brick/Cement Manufacture	Cleaner fuel Biomass briquette is adopted having lesser ash content.
	2	General scrap (Polythene bags, Empty containers, Glass waste, Wood waste, Metal waste, Office waste and plastic bags)	Wood waste, metal waste, office waste	1.2	Authorized recycler	--
	<b>Details of E-Waste</b>					
		<b>Particulars</b>	<b>Category</b>	<b>Quantity (MT/A)</b>	<b>Method of Disposal</b>	<b>Pl. mention plan to reduce solid waste generation if any</b>
	1	Personal Computers (Central Processing Unit with input and output devices)	IEW2	0.035	Sale to MPCB authorized recycler / returned to manufacturer / supplier	--
	2	Personal Computing: Laptop Computers (Central Processing Unit with input and output devices)	IEW3	0.0125		--
	3	Printers including cartridges	IEW6	0.006		--
	4	Telephones	IEW12	0.00125		--
	<b>Bio Medical Waste</b>					
		<b>Particulars</b>	<b>BMW Category</b>	<b>Quantity (MT/A)</b>	<b>Method of Disposal</b>	
	1.	Soiled waste (Contaminated face mask,	Yellow	1.2	Disposal to CBMWTF /	

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		Hand Gloves, Cotton waste, bags)				MPCB authorised processor							
<b>Battery Waste</b>													
		<b>Particulars</b>	<b>BMW Category</b>	<b>Quantity (MT/A)</b>	<b>Method of Disposal</b>								
1.		Lead batteries from D.G. Sets, UPS system	--	0.6	Authorized Recycler								
32	<b>Hazardous Waste Generation &amp; Disposal (As per HW Rule 2016)</b>												
	<b>Sr. No.</b>	<b>Category</b>	<b>Particulars</b>	<b>Source of generation (Please include Name of Product)</b>	<b>Existing Qty of generation MT/A</b>	<b>Proposed Qty of generation MT/A</b>	<b>Total Qty of generation MT/A</b>	<b>Method &amp; Disposal as per Rule 2016</b>					
	1	5.1	Used / Spent Oil	Boiler operation	-	0.72	0.72	Sale to Authorized Recycler/Disposal to CHWTSDF, Talaja./ Pre-processing / Co-processing					
	2	28.6	Spent Solvent	Manufacturing process	-	93.6	93.6	Sale to Authorized Vendor,					
	3	35.3	Chemicals/ ETP Sludge	From Waste water treatment operations	-	433.68	433.68	Disposal to CHWTSDF, Talaja / Pre-processing / Co-processing.					
	4	33.1	Empty drums/Carboys/ Containers/B arrels/Liners	From dispatch of all RMs	-	3	3	Disposal to CHWTSDF/ Approved Vendor.					
	5	37.3	Evaporation Residue	From MVR/ATF D	-	558.48	558.48	Disposal to CHWTSDF/ Pre-processing / Co-processing.					
33.	<b>Fuel Consumption</b>												
	<b>Sr. No</b>	<b>Type of fuel</b>	<b>Consumption Qty. (TPD)</b>			<b>Used for (Boiler / DG Set / etc.)</b>	<b>Ash</b>			<b>SO<sub>2</sub></b>			<b>Air pollution control / equipment provided (Yes / No)</b>
			<b>Existing</b>	<b>Proposed</b>	<b>Total</b>		<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	
	1.	Biomass Briquette	-	3.74 T/D	3.74 T/D	Boiler	-	0.374 T/D	0.5 T/D	-	0.00748 T/D	0.00748 T/D	Yes

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	2.	High Speed Diesel	-	50 l/hr	50 l/hr	D.G Set	-	-	-	-	0.2 kg/hr	0.2 kg/hr	Yes
34.	Brief Note on Air Pollution Control Equipment's					<ul style="list-style-type: none"> <li>▪ Cleaner fuel of biomass briquettes are adopted for boiler operations. (Coal will be used only in case of non-availability of biomass briquette)</li> <li>▪ Cyclone Separator followed by Bag Filter will be provided as APC equipment to Boiler.</li> <li>▪ Stack of 30 m will be provided to Boiler (1.5TPH) so that the pollutants will disperse effectively in the atmosphere at proper height which will reduce the impact substantially.</li> <li>▪ 1 No of single stage 2000 CFM capacity alkaline scrubber will be installed to mitigate process (Acidic) emission.</li> <li>▪ Periodic and regular monitoring of the flue gas and scrubber stacks will be done to ascertain the efficiency of the APCD's provided.</li> <li>▪ The results will be documented and submitted along with six monthly compliance reports.</li> <li>▪ The roads within the premises will be concreted / paved to avoid the dust generation from day to day vehicular activity.</li> <li>▪ It will be ensured that all the vehicles used for transportation activity have a valid PUC (Pollution under Control) Certificate.</li> <li>▪ Proper servicing &amp; maintenance of vehicles will be carried out. Regular sweeping of all the roads &amp; floors will be done.</li> <li>▪ Development of the greenbelt/area within the plant boundary will help to capture the fugitive emission.</li> <li>▪ Industry to ensure that at no point of time the air emission concentrations does not exceed the prescribe standards.</li> <li>▪ Provision of Ventilation and Exhaust</li> </ul>							

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		<ul style="list-style-type: none"> <li>▪ Industry to ensure that the proper flow of air and exchange in plant area maintained.</li> <li>▪ Also, adequate exhaust shall be provided in the area to control odour.</li> <li>▪ Supervision and maintenance for all equipment's, machines &amp; assets.</li> <li>▪ Industry to ensure that good housekeeping &amp; carry out periodic cleaning.</li> <li>▪ Provision of Mechanical Ventilation, Protective Clothing and good industrial hygiene practise will be followed.</li> </ul>						
35.	<b>Stack Details ( Also include process vent details)</b>							
	<b>Sr. No</b>	<b>Section/ unit</b>	<b>Source of pollution</b>	<b>Stack No</b>	<b>Stack Height</b>	<b>Height form ground</b>	<b>Internal Diameter (Inch)</b>	<b>Tempera ture of exhaust</b>
	1	Boiler Stack (m, from ground level)	Combustion of Biomass Briquette	1	15m	30m	27.559 inch	170°C
	2	D. G. Set Stack (m, from ground level)	Combustion of HSD	1	4.5 m	5.0 m	5 inch	180 °C
	3	Scrubber Stack	Process Emission	1	10 m	12.0 m	4 inch	40 °C
36.	<b>Energy</b>							
	a)	Source of power supply			MSEDCL			
	b)	Maximum Connected (KVA)			342 (KVA)			
	c) Whether DG sets will be provided (Yes / No) : <b>Yes</b>							
	<b>If yes</b>							
	<b>Sr. No.</b>	<b>No. of DG Sets</b>		<b>Capacity</b>				
		<b>Existing</b>	<b>Proposed</b>					
	1	--	1	250 kVA				
	d)	Please mention if high tension line is passing through the plot (Yes / No) If yes, pl. give details of safety measures adopted:			No			
37.	<b>Details of use of renewable energy with budget allocation</b>							
	i)	Total Energy Demand:			<b>308 KVA ( Demand Load)</b>			

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	ii) Proposed renewable energy source capacity: <b>60 Watt Streetlight (Saving of energy from each streetlight = 0.84 KWhr/Day; Total saving = 2628 KW.Hr/annum)</b> iii) Proposed Budget (in Rs. Lakhs): <b>INR 21.0 Lakhs; O&amp;M cost: INR 0.75 Lakhs / Annum</b> iv) Timeline for implementation: <b>1Year after EC</b>						
38.	Details of public hearing (if applicable)		Not applicable since project is located in Notified Industrial Area				
39.	EMP (Please mention specific items proposed in EMP along with specific timeline for its implementation) <b>Operation Phase</b>						
	Sr. No	Attribute	Specific measure	Budget in (Rs Lakh)	Time line for implementation	Responsibility	Remark
	1	Air	Installation of one SS stack of 30.0 m height for boiler (1.5 TPH)	Capital: 42 lakh Recurring: 2.5 Lakh	Before the commissioning of the proposed project	Mr.Yakub Nandolia ,Director	-
			Installation of Stack of 4.5 m height for 250 KVA D.G set				
			Proposed installation of 1 alkaline scrubber of 2000 CFM capacity				
			Proposed installation of 1 Scrubber stack of 10 m height				
			Installation of Online Monitoring System and connected to MPCB/CPCB Servers.				
			Operation & Maintenance cost of Online Monitoring system (Recurring)				
			Operation and Maintenance cost of Scrubber				
			Operation and Maintenance cost of Stacks				
	2	Water	Installation of ETP capacity of 95 CMD	Capital: 281.5 lakh Recurring: 453 Lakh	Before the commissioning of the proposed project	Mr.Aman Nandolia ,Operation & Maintenance Head	-
			Installation of Stripper and MEE/MVR 25 CMD & ATFD of 7 CMD capacity				
			Installation of R.O of 95 CMD capacity				
			Civil Work				
			Operation and Maintenance cost of ETP - (0.50 Rs/L/D), MVR (1.50 Rs./L/D) & R.O (0.25 Rs./L/D)				
Installation of Online Monitoring System and connected to MPCB/CPCB Servers.							
Operation & Maintenance cost of Online Monitoring system (Recurring)							
3	Occupational health	Glare, Breathing Masks, Hand sanitizers, Gloves, Boots, Helmets, Ear Plugs etc. & annual health-medical checkup of workers	Capital: 3 lakh	Before the commissioning of the	Mr.Rizwan Mukhi	-	

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		Annual health-medical check-up of workers (Recurring)	Recurring: 6 Lakh	proposed project	,EHS Manager		
4	Noise	Installation of anti-vibration & noise cancellation pads	Capital: 1 lakh Recurring: 0.7 Lakh	Before the commissioning of the proposed project	Mr.Rizwan Mukhi, EHS Manager	-	
		PPEs such as Ear plug, Ear muff to employees					
		New purchase of additionally required equipment on timely basis (Recurring)					
5	Solid waste Management	Concrete paving of hazardous waste storage area, purchase of containers / bags for storage of hazardous & non-hazardous solid waste.	Capital: 6 lakh Recurring: 70 Lakh	Before the commissioning of the proposed project	Mr.Aman Nandolia, Operation & Maintenance Head	-	
		Solid Waste Management and disposal to CHWTSDF / authorized recyclers / co-processors (Recurring)					
		Water sprinkling on Fly Ash, Cleaning and maintenance of ash storage area.					
6	Green belt	Proposed green belt development	Capital: 1.5 lakh Recurring: 3 Lakh	Within 1 year after implementation of project.	Mr.Rizwan Mukhi, EHS Manager	-	
		Green belt area maintenance (Recurring)					
7	Rain water harvesting	Site Clearance for Excavation	Capital: 3.0 lakh Recurring: 0.5 Lakh	Before the commissioning of the proposed project	Mr.Rizwan Mukhi, EHS Manager	-	
		Excavation & Construction for underground rain water harvesting tank					
		Installation of 30 m <sup>3</sup> underground rain water harvesting tank (6 Rs/Lit)					
		Annual Cleaning & Maintenance of System					
8	Energy conservation	Solar Street lights 10 Nos. – 55,200 (INR) each.	Capital: 21.0 lakh Recurring: 0.75 lakh	Before the commissioning of the proposed project.	Mr.Aman Nandolia, Operation & Maintenance Head	-	
		Installation of Solar Roof Top Harvesting System 31 KW (23 Panels of 330 Watt).					
		Maintenance of Solar Roof Top Harvesting System & Solar Streetlights					
9	Environment Monitoring & Management	Laboratory Setup for the regular in-house monitoring of environmental parameters of Effluent	Capital: 22 lakh Recurring: 20 lakh	Before the commissioning of the proposed project.	Mr.Rizwan Mukhi, EHS Manager	-	
		Environment Monitoring Parameters					
		Ambient Air Monitoring					PM10, PM2.5, SO2, NOx, CO
		Work Place Air Monitoring					VOCs & Fugitive Emissions
		Boiler, Themopack & DG Set Monitoring					TPM, SO2, NOx

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		Effluent (Treated & Untreated)	pH, COD, BOD, TSS, TDS, Oil & Grease				
		Carbon & Water foot print	GWP & Water foot print through LCA				-
<b>10</b>	Implementation of recommendation of LCA	--		--			-
<b>11</b>	Any other please specify	---		--			-
<b>Total (INR Lakhs)</b>				<b>Capital: 381 Lakhs Recurring (Per annum): 556.45 Lakhs</b>			
40	Other relevant information : (Pl. provide brief note on proposed project)			It is attached as <b>Annexure B-1 (Executive summary of project)</b>			
41.	Details of skill development program within organization			For Skill Development following programs will be conducted. 1) EHS Trainings 2) Toolbox Talks & Safety Pause 3) First Aid Training 4) Fire Fighting Trainings 5) Emergency Response Training 6) Lab Safety 7) QA-QC Trainings			
42.	Details of Environment Monitoring Cell (Pl. provide organogram with education qualification and experience)			It is attached as <b>Annexure B-2</b>			
43.	Details of court cases if pending any Hon'ble court			<b>Nil</b>			

**RECOMMENDATIONS OF SEAC:**

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to following conditions,

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Sr. No.	Condition
1.	PP informed that, the total plot area is 1600 Sq. The mandatory (33%) green belt is 528 Sq. of which PP proposes only 168 Sq.m.10% green belt within the plot as the plot is purchased from other owner having exiting building on site, hence PP proposed to have deficit green belt on the Survey No. 160, Hissa Number 125 in Village Pam which is about 1.94 KM from the manufacturing site. PP requested to consider the same as they have space constraint in the existing plot. Hence, SEAC-1 considered the proposal for appraisal. SEIAA may take final decision on the same w.r.t. the provision of green belt outside the premises
2.	PP to submit lay out plan showing internal roads with minimum six meter width and nine meter turning radius, entry/exit gates (preferably sliding gates) , provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 40% green belt with its dimensions preferably on the periphery of the plot with the provision of drip irrigation, rain water harvesting structures (locations with dimensions), storm water drain lines etc. Adoption of Nature Based Solutions for green area should be kept as a principle of development and ecology.
3.	PP to provide Zero Liquid Discharge Effluent Treatment Plant. PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/mechanical vapour compressor etc. so s to reduce operation cost and use of natural resources. PP to get ZLD design vetted by the reputed institute before commissioning of the proposed manufacturing.
4.	PP to ensure to monitor all parameters proposed to be monitored in work zone area in the ambient air also, so as to trace any escape of work zone area pollutant in the ambient air.
5.	PP to identify the sources of odour generation/toxic chemicals emission and provide appropriate odour control / mitigation measures mechanism to avoid nuisance to the surrounding area.
6.	PP to ensure to deploy well trained regular employees on all critical/hazardous operations and storages of hazardous chemicals instead of contract workers. Regular safety training to be provided to all such employees.
7.	PP to prepare chemical compatibility chart of all chemicals and finished products handled, stored on site and ensure its storage/handling as per compatibility.
8.	PP to provide Continuous Online Monitoring System connected to the servers of CPCB and MPCB. PP to include VOCs monitoring in the scheduled ambient air monitoring plan.
9.	PP to submit VOCs emission control and its management plan. PP to include VOCs monitoring in their work place monitoring plan.
10.	PP ensure to provide adequate space for parking of all types of vehicles including external vehicles carrying raw material and finished products. No vehicle shall be parked on the public road.
11.	PP to ensure to prepare and implement On-site and Off-site emergency handling plan. The plan shall be prepared based on the HAZOP and Risk Assessment. Required training to all employees be provided on the emergency handling plans.
12.	PP to ensure to prepare a fail proof Disaster Management Plan is prepared, established and implemented followed by regular mock drills.

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13.	PP to explore possibility to provide storage facility for rain water on the east side of plot and complete rain water harvesting facility before the commissioning of the manufacturing activity.
14.	PP to utilize CER funds for the development of public infrastructure in the vicinity of the project area in consultation with District Administration. CER consolidated plan to be submitted for its effective implementation
15.	PP to provide solar energy for the illumination of common areas like administrative building, parking areas, streetlight etc.

**CONCLUSION:**

Recommended

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**Venue: Through Video Conferencing**

Proposal No. 4 : SIA/MH/IND/409159	Type: EC
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**INTRODUCTION:**

This has reference to your online application vide proposal No. 409159 submitted along with copies of documents seeking prior Environmental Clearance under the provisions of the EIA Notification, 2006. The proposed project activity is listed at Sr. No. 5(f), Synthesis of Organic Chemicals category B1 as per EIA Notification, 2006 amended from time to time and the proposal is appraised in the SEAC-1 committee.

**PROJECT DETAILS:**

**Environment Clearance for Proposed Expansion of Synthetic Organic Chemicals manufacturing facility of Plot B-9 & B- 10, Newasa MIDC, Taluka Newasa, District Ahmednagar, Maharashtra By Galaxy Laboratories Private Limited.**

**Details of earlier EC if any:** Yes. SEIAA-EC-0000000048 dated. 24<sup>th</sup> April 2017

**DELIBERATIONS IN SEAC:**

**After deliberations SEAC observed:-**

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Aditya Environmental Services Pvt. Ltd.

PP had obtained auto (Standard) generated ToR vide letter No. SIA/MH/IND3/76183/2022, Date- 28<sup>th</sup> April 2022.

PP also had obtained following earlier prior Environmental Clearances,

EC letter no. SEIAA-EC-0000000048 dated. 24<sup>th</sup> April 2017

EC letter no. SEIAA-EC-0000000469 dated. 29<sup>th</sup> October 2018

It was noted that, the Regional Office of MoEFCC visited the site and submitted compliance report vide letter dated 9th December, 2022. The brief of the report is as below,

*“During the site inspection it was observed that, the expansion of the project has been carried out and the plant is in operation. ETP was functioning. Zero Discharge is implemented. The treated water is being used in cooling tower. Treated water from STP is being used for gardening. A collection tank of 302 KL has been provided for rain water. Stack of height as per the consent have been provided to the coal fired boiler. The environment quality is being monitored through MoEFCC recognised laboratory. Green Belt has been developed in and around the plant area. Housekeeping is maintained.*

## Minutes of 244<sup>th</sup> meeting of SEAC-1 (Day-1)

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*Since PP surrendered 2<sup>nd</sup> EC dated 29<sup>th</sup> October 2018 and worked as per 1<sup>st</sup> EC dated 24.04.2017. The monitoring status of EC conditions was carried out w.r.t. 1<sup>st</sup> EC dated 29<sup>th</sup> October 2017.”*

The proposal was appraised based on the documents submitted and presented by the PP and their accredited Environmental Consultant.

The brief information of the project as submitted by the PP is as below,

Sr. No.	Particulars Required	Details																					
1	Name of the project & Address along with all corner latitude and longitude	Proposed Expansion of Synthetic Organic Chemicals manufacturing facility by Galaxy Laboratories Private Limited, Plot no. B-9 & B-10, Newasa MIDC, Taluka Newasa, District Ahmednagar, Maharashtra. <table border="1" style="width: 100%; margin-top: 5px;"> <thead> <tr> <th style="text-align: center;">Location</th> <th style="text-align: center;">Latitude</th> <th style="text-align: center;">Longitude</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">19°18'20.32"N</td> <td style="text-align: center;">74°51'18.45"E</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">19°18'14.28"N</td> <td style="text-align: center;">74°51'15.70"E</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">19°18'16.56"N</td> <td style="text-align: center;">74°51'9.37"E</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">19°18'17.57"N</td> <td style="text-align: center;">74°51'9.74"E</td> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">19°18'18.36"N</td> <td style="text-align: center;">74°51'7.77"E</td> </tr> <tr> <td style="text-align: center;">6</td> <td style="text-align: center;">19°18'23.35"N</td> <td style="text-align: center;">74°51'9.64"E</td> </tr> </tbody> </table>	Location	Latitude	Longitude	1	19°18'20.32"N	74°51'18.45"E	2	19°18'14.28"N	74°51'15.70"E	3	19°18'16.56"N	74°51'9.37"E	4	19°18'17.57"N	74°51'9.74"E	5	19°18'18.36"N	74°51'7.77"E	6	19°18'23.35"N	74°51'9.64"E
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6	19°18'23.35"N	74°51'9.64"E																					
2	Type of Organization (Private / Government/ Semi Government etc	Private Limited company registered under Companies Act																					
3	Correspondence Address and contact details of Project Proponent	Mr. Shrikant Deshmukh Managing Director Plot no. B-22, MIDC Aurangabad Industrial Area, Beed By Pass Road, Aurangabad-431005. Contact no: +91-240-2376105/119 <a href="mailto:shrikant.d@galaxylaboratories.com">shrikant.d@galaxylaboratories.com</a>																					
4	Type of project (ToR/ EC/ Amendment in ToR/ Amendment in EC/ Revalidation/ Expansion/ Process change etc.)	Expansion of existing manufacturing facility																					
5	Category of project as per EIA Notification 2006 amended from time to time (Pl. mention category A, B, B1, B2 etc. whichever is applicable)	5 (f)- B1, Synthetic Organic Chemical Manufacturing facility																					
6	If earlier ToR is obtained pl. mention details (ToR letter No. & Date, SEAC/EAC Meeting No.)	Auto Standard ToR letter no. SIA/MH/IND3/76183/2022, Date- 28 <sup>th</sup> April 2022																					
7	If earlier EC is obtained pl. mention EC Number & Date	Yes - EC letter no. SEIAA-EC-000000048 dt. 24 <sup>th</sup> April 2017 - EC letter no. SEIAA-EC-0000000469 dt. 29 <sup>th</sup> October 2018																					

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8	Whether the proposal is a violation case (yes/no)	No.						
9	Applicability of CRZ clearance (yes /no)	No, Not Applicable.						
10	Whether General /Specific Conditions are applicable to the project (Yes/No) If yes pl. give details	No, Not Applicable.						
11	Whether Scrutiny fees paid as per SEIAA guidelines (Yes/No); If yes pl give payment details	Yes. Transaction ref. no: NEFT-BARBX22351750149 Transaction Date.: 17/12/2022 Fee amount: Rs. 150000/-						
12	Name of accredited Environmental Consultant & address along with Accreditation No. & Validity	Aditya Environmental Services Pvt. Ltd. 107/110, Hiren Light Industrial Estate, Mogul Lane, Mahim – west, Mumbai – 400016 NABET Certificate No. & Issue Date: NABET/EIA/2225/RA 0262 dated 18 <sup>th</sup> October 2022						
13	Name of layout plan approving Authority	Maharashtra Industrial Development Corporation (MIDC) Newasa						
14	Estimated cost of Project (in Rs. Crores)	Rs. 40 Cr						
15	Area of project (in Sq. m.)	51201 sq. m.						
16	Whether 33% green belt is provided (Yes/No)	Yes						
17	Area of Green Belt & No. of trees in the proposed project in Sq.m. (Pl. provide 2000 trees per hectare of green belt area)	17238.86 sq. m						
18	Width of internal roads and turning radius	Width of internal roads- 6 m, Turning radius- 9 m						
19	Details of proposed construction	<b>Total Plinth Area (in Sq.m)</b>	21484.15					
		<b>No. of Buildings &amp; its height in mtrs</b>	--					
20	<b>List of Raw materials &amp; Storage Details (Pl. add on in the list if necessary)</b>							
	<b>Sr. No.</b>	<b>Name of Raw material</b>	<b>Consumption TPA</b>	<b>Maximum Storage Details, Volume m3</b>	<b>Hazard category (NFPA)</b>			<b>Proposed precautions to prevent accident</b>
<b>Health</b>					<b>Flammable</b>	<b>Reactive</b>		
	1	Methanol	5275	5 nos. of 15	2	3	0	Safety valve, Fire prevention system, Sprinkler system
	2	Toluene	806	1 no. of 15	2	3	0	
	3	LDO	2080	2 nos. of 15	1	2	0	
	4	Ammonia	147	1 no. of 20	3	1	0	

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21	<b>Production Details</b>									
	<b>No</b>	<b>Product</b>			<b>Existing as per CTO &amp; EC, TPM</b>			<b>Proposed add., TPM</b>		<b>Total after expansion, TPM</b>
	1	Hydrogen			250 Nm3/hr			500 Nm3/hr		750 Nm3/hr
	2	Furfuraldehyde (Furfural)			10			0		10
	3	Furfuryl amine			40			0		40
	4	Cis Pinene			100			0		100
	5	Cyclohexenyl Ethyl Amine(CHEA)			10			0		10
	6	5-Chloro-4-Amino-2,1,3 Benzothiazole			2			0		2
	7	Betaphenyl Ethyl Amine (BPEA)			20			0		20
	8	Polyallyamine Hydrochloride (PAAH)			3			0		3
	9	2, 5-DICHLORO-4-(1, 1, 2, 3, 3, 3-HEXA FLUOROPROPOXY)-PHENYL AMINE (SC-0603)			46			0		46
	10	4-METHOXYCYCLOHEXANONE (SS-1602)			12.9			37.1		50
	11	1,3-Butandiol			24			76		100
		Piperidine			40			-40		0
		N-Methyl Piperazine +			47			3		50
		1,4-Di-Methyl Piperazine			11.7			0.8		12.5
	12	Cinnamyl Alcohol			50			0		50
	13	Phenyl Propanol			20			0		20
	14	Allyl Amine			5			0		5
	15	Anethole			20			0		20
	16	Furfuryl alcohol			0			30		30
	17	Triclabendazole (Crude)			0			8.4		8.4
	18	Maltol (Furfural based)			0			20		20
	19	Ethyl Maltol (Furfural based)			0			20		20
20	3 Methoxy butanol			0			20		20	
21	Spent acid (by product)			42.5			0		42.5	
22	Sodium hydrosulphide solution (by product)			31			15.6		46.6	
23	Poly aluminum chloride solution (PAC) (by product)			135.75			0		135.75	
	<b>Total</b>			<b>595.15 @</b>			<b>190.90 #</b>		<b>861.75 #</b>	
<i>@ Total considering maximum quantity of product within Sr. no. 11 as per existing Consent.</i>										
<i># Total considering all products quantities in Sr. no. 11</i>										
22	iii) Water Consumption & Effluent generation: Total Water Requirement 192 cmd (Fresh- 111 & Recycle- 81)									
	iv) Fresh water will be sourced from MIDC Newasa.									
	v) Water supply permission obtained (Yes/No) & approving Authority: No									
		<b>Consumption (CMD)</b>			<b>Loss (CMD)</b>			<b>Effluent generation (CMD)</b>		
	<b>Particulars</b>	<b>Existi ng</b>	<b>Prop osed</b>	<b>Total</b>	<b>Existi ng</b>	<b>Prop osed</b>	<b>Total</b>	<b>Existi ng</b>	<b>Prop osed</b>	<b>Total</b>
	<b>Domestic Purpose</b>	28	0	28	3	0	3	25	0	25
<b>Industrial Process</b>	11	16	27	-8	11	3	19	5	24	
<b>Cooling tower and Boiler</b>	89	20	109	73	4	77	16	16	32	
<b>Green Belt</b>	28	0	28	28	0	28	0	0	0	

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	<b>Total</b>	<b>156</b>	<b>36</b>	<b>192</b>	<b>96</b>	<b>15</b>	<b>111</b>	<b>60</b>	<b>21</b>	<b>81</b>
23	Quantity of sewage generation (in CMD)	Domestic Sewage: 25 cmd								
24	Details of Sewage Treatment and Disposal of treated sewage:	Domestic sewage will be treated in STP and recycled for green belt.								
25	<b>Detail of Effluent Generation (unit CMD)</b>									
	<b>Particulars</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>						
		<b>Unit in CMD</b>								
	<b>High Load effluent</b>	19	5	24						
	<b>Low load effluent</b>	16	16	32						
	<b>Total</b>	<b>60</b>	<b>21</b>	<b>81</b>						
26	Whether Zero liquid Discharge Effluent Treatment is proposed (Yes/ No)	Yes, Unit will be ZLD (Zero liquid discharge). Treated effluent will be recycled within site.								
27	Brief Description of Effluent Treatment scheme	Trade Effluent < Collection < Neutralization < Coagulation < Flash mixer < Primary clarifier < Aeration tank < Secondary clarifier < Disinfection < PSF and ACF Treatment < Single stage evaporator < Recycled within Plant								
28	Qty of treated effluent proposed to be sent to CETP (pl. mention Name of CETP and its membership Details)	Yes, Unit will be ZLD (Zero liquid discharge). Treated effluent will be recycled within site.								
29	Please mention parameters of treated effluent to be achieved as per EP Rule,1986 and or stipulated by the SPCB									
	<b>Parameter</b>	<b>Inlet concentration (mg/L)</b>			<b>Outlet concentration (mg/L)</b>					
	PH	6-8			7					
	COD	4500			150					
	TDS	3500			200					
30	Brief Note on proposed Rainwater harvesting scheme along with budget allocation:	Rain water tank of 300 KL provided within facility.								
31	<b>Solid Waste management</b>									
	<b>No</b>	<b>Waste Type</b>	<b>UOM</b>	<b>Existing Qty.</b>	<b>Proposed add. Qty.</b>	<b>Total</b>	<b>Disposal</b>			
	1	Fly ash	TPA	1850	1500	3350	sent to brick manufacturer / secured landfill.			
	2	Spent corn cob	TPA	5000	-4140	860	burnt as fuel in boiler/ Thermic Fluid heater.			

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32	<b>Hazardous Waste Generation &amp; Disposal (As per HW Rule 2016)</b>									
	<b>No</b>	<b>Description</b>	<b>Category</b>	<b>UOM</b>	<b>Existing Qty.</b>	<b>Proposed add. Qty.</b>	<b>Total</b>	<b>Disposal</b>		
	1	Chemical sludge from wastewater treatment	35.3	TPA	30	5	35	CHWTSDF		
	2	Distillation residue	20.3	TPA	238	190	428	CHWTSDF/ Used as fuel in boiler		
	3	Filter/ Filter material which have organic liquid	35.1	TPA	2	0	2	CHWTSDF		
	4	Residue and waste (Iron sludge)	28.1	TPA	45	-10	35	CHWTSDF/ Authorised party		
	5	Spent catalyst	28.2	TPA	53	71	124	CHWTSDF / Authorised recycler/return to manufacturer		
	6	Spent Carbon	28.3	TPA	23	29	52	CHWTSDF		
	7	Empty/ Discarded containers/ Barrels/ Liners	33.1	Nos/A	500	200	700	CHWTSDF/ Authorised recycler		
	8	Bromine solution	28.1	TPA	0	1209	1209	Sale to authorised party		
33	<b>Fuel Consumption</b>									
	<b>Sr. No.</b>	<b>Type of Fuel</b>	<b>Consumption Qty</b>			<b>UOM</b>	<b>Used for (Boiler/ DG Set etc)</b>	<b>Ash%</b>	<b>S%</b>	<b>Air pollution control equipment provided (Yes/ No)</b>
			<b>Existing</b>	<b>Proposed</b>	<b>Total</b>					
	1	LDO	1.7	4	5.7	TPD	Thermic Fluid Heater	-	1.8	Yes, Adequate stack height
	2	Coal	15.24	18	33.24	TPD	Boiler and Thermic Fluid Heater	30	0.5	Yes, Dust collector followed by Bag filter
	3	HSD	64	250	314	Lit/Hr	DG set	-	-	Yes, Adequate stack height
34	Brief Note on Air Pollution Control equipment's			Dust collector followed by bag filter for Coal fired Boiler Stack height for Thermic Fluid Heater and DG set						

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35	<b>Stack Details (Also include process vent details)</b>						
	<b>No</b>	<b>Section</b>	<b>Source pollutions</b>	<b>Fuel quantity</b>	<b>Stack height (m)</b>	<b>Internal Dia. (m)</b>	<b>Temp. (deg. C)</b>
	<b>Existing</b>						
	1	Thermopac (2 lac kcal/hr)	PM10, SOX, NOX	Coal- 240 kg/day	30	0.35	150
	2	3 TPH Boiler		Coal- 15 TPD	30	0.6	150
	3	6 lakh kcal/hr Thermic Fluid Heater	SOX, NOX	LDO- 1.7 TPD	30	0.35	150
	4	320 KVA DG set	SOX, NOX	HSD- 64 Lit/Hr	11	0.3	150
	5	320 KVA DG set*	SOX, NOX	HSD- 64 Lit/Hr	11	0.3	150
	6	Reactor	Off gases	-	11	0.2	Ambient temp.
	7	HCl Scrubber	HCl	-	18	0.2	Ambient temp.
	8	Ammonia scrubber	Ammonia	-	18	0.2	Ambient temp.
	9	H2S scrubber	H2S	-	18	0.2	Ambient temp.
	<b>Proposed</b>						
10	15 lakh kcal/hr Thermic Fluid Heater	SOX, NOX	LDO- 4 TPD	30	0.6	150	
11	5 TPH Boiler	PM10, SOX, NOX	Coal- 18 TPD	30	0.6	150	
12	1250 KVA DG set (* by replacing 320 KVA DG set)	SOX, NOX	HSD- 250 Lit/Hr	30		150	
36	<b>Energy</b>						
	a) Source of power Supply: from Maharashtra State Electricity Distribution Company Limited (MSEDCL)						
	b) Maximum Demand (KVA): 1570 KVA						
	c) whether DG sets will be provided (Yes/No): Yes if yes:						
<b>DG set</b>		<b>Existing</b>		<b>Proposed</b>			
<b>Nos.</b>		2 nos.		1 no.			
<b>Capacity</b>		320 KVA		1250 KVA (by replacing 1 no. of 320 KVA DG set)			
d) Please Mention if high tension line is passing through the plot: No If yes, pl. give details of safety measures adopted: No							
37	<b>Details of use of renewable energy with budget allocation</b>						
	v) Total Energy Demand: 1570 KVA vi) Proposed renewable energy source capacity: 30 KWp/hr						

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	vii) Proposed Budget (in Rs. Lakhs): Rs. 20 Lakhs viii) Timeline for implementation: Installed in existing facility																																															
38	<p><b>Details of public hearing-</b> Project is in notified industrial area, hence Public hearing is not applicable.</p> <p>iii) Place of public hearing: Not applicable iv) Date of public hearing: Not applicable</p> <p><b>Please fill following details</b></p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Issue raised during public hearing</th> <th>Applicants plan for its compliance/ implementation</th> <th>Budget allocation for implementation</th> <th>Specific timeline compliance</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align: center;">Not applicable</td> </tr> </tbody> </table>	Sr. No.	Issue raised during public hearing	Applicants plan for its compliance/ implementation	Budget allocation for implementation	Specific timeline compliance	Not applicable																																									
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40	<p>Other Relevant Information: (Pl. provide brief note on proposed project)</p> <p>There are great demands for the proposed products. Proposed project will generate local employment. Infrastructure enhancement through CER activities.</p>																																															
41	<p>Details of skill development program within Organization</p> <p>Training &amp; Awareness programme</p>																																															

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42	Details of environmental Monitoring Cell (Pl. provide organogram with educated Qualification and experience)	<pre> graph TD     CEO[CEO &amp; ED] --&gt; UH[Unit Head]     UH --&gt; CM[Chief Manager SHE]     CM --&gt; DMHS[Dy. Manager Health &amp; Safety]     CM --&gt; DME[Dy. Manager Environment]     DMHS --&gt; EX1[Executive]     EX1 --&gt; OHC[OHC]     DME --&gt; EX2[Executive]     EX2 --&gt; OC[Officers/chemist]     OC --&gt; OH[Operator/Helper]         </pre>
43	Details of court cases if pending in any Hon'ble court	No.

**RECOMMENDATIONS OF SEAC:**

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided recommend the proposal for the grant of prior Environmental Clearance subject to the following conditions,

<b>Sr. No.</b>	<b>Condition</b>
1.	<p>PP to submit lay out plan showing internal roads with minimum six meter width and nine meter turning radius, entry/exit gates (preferably sliding gates) , provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions preferably on the periphery of the plot with the provision of drip irrigation, rain water harvesting structures (locations with dimensions), storm water drain lines etc.</p> <p>Adoption of Nature Based Solutions for green area should be kept as a principle of development and ecology.</p>

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2.	PP to provide Zero Liquid Discharge Effluent Treatment Plant. PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/mechanical vapour compressor etc. so as to reduce operation cost and use of natural resources. PP to get ZLD design vetted by the reputed institute before commissioning of the proposed manufacturing.
3.	PP to carry out toxicity and fire profile of all raw materials and finished products and implement appropriate mitigation plan
4.	PP to prepare and implement the Disaster Management Plan prepared on the basis of outcome Quantitative Risk Assessment, HAZOP and Risk Analysis along with protocol for handling the emergencies and frequency of mock drills
5.	PP to ensure to monitor all parameters proposed to be monitored in work zone area in the ambient air also, so as to trace any escape of work zone area pollutant in the ambient air.
6.	PP to identify the sources of odour generation/toxic chemicals emission and provide appropriate odour control / mitigation measures mechanism to avoid nuisance to the surrounding area.
7.	PP to make arrangement for storage of raw effluent for at least 72 hours in case of failure of MEE & RO and submit detailed plan accordingly.
8.	PP to get Wild Life Conservation Plan approved from the Competent Authority for which PP earmarked Rs. 25 lakhs.
9.	PP to look at the mitigation measures proposed under LCA study and remove the items from the list which are mandatory requirement for their operations/projects either technically or legally and list only those items which are truly considered as additional measures to control the identified adverse impact.
10.	PP to ensure to deploy well trained regular employees on all critical/hazardous operations and storages of hazardous chemicals instead of contract workers. Regular safety training to be provided to all such employees.
11.	PP to prepare chemical compatibility chart of all chemicals and finished products handled, stored on site and ensure its storage/handling as per compatibility.
12.	PP to provide Continuous Online Monitoring System connected to the servers of CPCB and MPCB. PP to include VOCs monitoring in the scheduled ambient air monitoring plan.
13.	PP to submit VOCs emission control and its management plan. PP to include VOCs monitoring in their work place monitoring plan.
14.	PP ensure to provide adequate space for parking of all types of vehicles including external vehicles carrying raw material and finished products. No vehicle shall be parked on the public road.
15.	PP to ensure to prepare and implement On-site and Off-site emergency handling plan. The plan shall be prepared based on the HAZOP and Risk Assessment. Required training to all employees be provided on the emergency handling plans.
16.	PP to ensure to prepare a fail proof Disaster Management Plan is prepared, established and implemented followed by regular mock drills.
17.	PP to explore possibility to provide storage facility for rain water on the east side of plot and complete rain water harvesting facility before the commissioning of the manufacturing activity.

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18.	PP to utilize CER funds for the development of public infrastructure in the vicinity of the project area in consultation with District Administration. CER consolidated plan to be submitted for its effective implementation
19.	PP to provide solar energy for the illumination of common areas like administrative building, parking areas, streetlight etc.

**CONCLUSION:**

Recommended

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Proposal No. 5 : SIA/MH/IND/295931

Type: Amendment in EC

**INTRODUCTION:**

This has reference to your online application vide proposal No. 295931 submitted along with copies of documents seeking amendment in their earlier prior Environmental Clearance No. SEAC-2014/CR-85/TC-2 dated 04.06.2016 under the provisions of the EIA Notification, 2006. The proposed project activity is listed at Sr. No. 5(f), Synthesis of Organic Chemicals category B1 as per EIA Notification, 2006 amended from time to time and the proposal is appraised in the SEAC-1 committee.

**PROJECT DETAILS:**

**Environmental Clearance for Amendment Proposed of manufacturing of Synthetic Organic Chemicals at Plot no. D- 28, MIDC Kurkumbh, Taluka Daund, District Pune by Clean Science & Technology Limited.**

**Details of earlier EC if any:** Yes.

**DELIBERATIONS IN SEAC:**

**After deliberations SEAC observed:-**

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Gold Finch Environmental Engineers Pvt. Ltd.

PP had obtained earlier prior Environmental Clearance (EC) vide letter No. SEAC-2014/CR-85/TC-2 dated 04.06.2016

PP applied for amendment in their EC with respect to the change in the name of the company and quantity of generation of ETP sludge as mentioned in the pint No. 25 of the earlier EC from 5 TPM to 60 TPM.

Sr. No.	Reference of approved EC	Description as per EC	Amendment required
1	Name of the Company	Clean Science & Technology Pvt. Ltd.	Clean Science & Technology Limited.
2	Point N0. 24 & 25 – Solid Waste Management	ETP Sludge 5 TPM	ETP Sludge 60 TPM (ETP Sludge 53 TPM & MEE salt 7 TPM)

During deliberation PP was not able to submit details of following points

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1. PP to submit details of mistake made in the calculation of ETP sludge with such a huge difference along with appropriate clarification/justification.
2. PP to submit comparative statement of ETP design and calculations of the ETP sludge generation along with capacities of ETP units from where ETP sludge is expected to be generated.
3. PP to submit details of generation of ETP sludge and its disposal from the date of EC receipt. PP to submit source of production quantities considered in the calculation like annual report of the company, RG register etc.
4. PP to submit undertaking that, the quantities now requested to be replaced (from 5 TPM to 60 TPM) are correct as per ETP design.

**RECOMMENDATIONS OF SEAC:**

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to defer the proposal till submission of additional information on the above points.

**CONCLUSION:**

Deferred

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Proposal No. 6 : SIA/MH/IND/205976	Type: EC
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**INTRODUCTION:**

This has reference to your online application vide proposal No 205976 submitted along with copies of documents seeking prior Environmental Clearance under the provisions of the EIA Notification, 2006. The proposed project activity is listed at Sr. No. 5(f), Synthesis of Organic Chemicals category B2 as per Office Memorandum issued by MoEF&CC dated 28.01.2021 and the proposal is appraised in the SEAC-1 committee.

**PROJECT DETAILS:**

**Environmental clearance for proposed expansion of chemicals unit for making API & Intermediates located at A 21/22/23, MIDC Kurkumbh, Taluka- Daund, District-Pune, Maharashtra State by M/s. Berzelius Chemicals Pvt. Ltd..**

**Details of earlier EC if any:** No.

**DELIBERATIONS IN SEAC:**

**After deliberations SEAC observed:-**

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. SGM Enviro India Pvt. Ltd..

The proposal was earlier considered in the 235<sup>th</sup> meeting wherein the proposal was deferred for following reasons,

1. PP informed that, as the project is an expansion and buildings are already built on the plot, they are not having mandatory 33% area for the development of green belt within the plot area. PP submitted MIDC letter 15.02.2022 for allowing them to develop green belt over an area of 2000 Sq.m. purely on temporary basis. MIDC also mentioned in their letter that, they can get back the land with one month notice to the PP. In view of above, SEAC-1 is of the opinion that, as the land provide by the MIDC is neither leased for long period nor PP is having any right over the land in future which may not fulfill the requirement of development of green belt by the PP. Hence, SEAC-1 asked PP to get the referred land on lease for long period from the MIDC for development of Green Belt and to comply with the condition.
2. PP submitted Fire NOC which was valid till 31.05.2018; PP to submit revised valid Fire NOC to be obtained from the Competent Authority of MIDC

Now PP submitted information on above points.

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The brief information of the project as given by the PP is as below,

Sr. No.	Particulars Required	Details
1	Name of the project & Address along with all corner latitude and longitude	M/s. Berzelius Chemicals Pvt. Ltd. (BCPL)
	Address along with all corner latitude and longitude	A 21/22/23, MIDC Kurkumbh ,Taluka- Daund, District- Pune, Maharashtra A = 18.397680 <sup>0</sup> N 74.526330 <sup>0</sup> E B = 18.397529 <sup>0</sup> N 74.526884 <sup>0</sup> E C =18.397204 <sup>0</sup> N 74.526781 <sup>0</sup> E D = 18.397361 <sup>0</sup> N 74.526233 <sup>0</sup> E
2	Type of Organization (Private/Government/Semi Government etc.)	Private
3	Correspondence Address and contact details of Project Proponent	A 21/22/23, MIDC Kurkumbh ,Taluka- Daund, District- Pune, Maharashtra Contact details : 9822068832
4	Type of project (ToR/EC/Amendment in ToR/Amendment in EC/ Revalidation/Expansion/Process change etc.)	EC
5	Category of project as per EIA Notification 2006 amended from time to time (Pl. mention category A,B,B1,B2 etc. whichever is applicable)	5 (f), B2
6	If earlier ToR is obtained pl. mention details (ToR letter No. & Date, SEAC/EAC Meeting No.)	Not Required
7	If earlier EC is obtained pl. mention EC Number & Date	No, Not applicable
8	Whether the proposal is a violation case (yes/no)	No
9	Applicability of CRZ clearance (yes /no)	No
10	Whether General /Specific Conditions are applicable to the project (Yes/No) If yes pl. give details	No
11	Whether Scrutiny fees paid as per SEIAA guidelines (Yes/No); If yes pl give payment details	Yes EC Scrutiny fees paid to SEIAA vide UTR no. KKBK212227298413 on dated 10.08.2021
12	Name of accredited Environmental Consultant & address along with Accreditation No. & Validity	Name : S G M Enviro (India) Pvt. Ltd. Address : Office No. 202, 4th Floor, Elite Colossal FC Road, Oppo. Police Ground, Shivajinagar, Pune 411005, Accreditation No. & Validity: NABET/EIA/2124/IA0074 Validity 23/03/2024
13	Name of layout plan approving Authority	MIDC, Kurkumbh.
14	Estimated cost of Project (in Rs.Lakhs)	7.22 Cr

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15	Area of project (in Sq.m.)	2400 Sq. m				
16	Whether 33% green belt is provided (Yes/No)	No. As per MOEF norm required Green belt area should be 33% of the total plot area, As industry is brownfield project and existing building already constructed as per MIDC approved plan and having only 140 sq. m. land for Green Belt development so we have acquired additional 792 sq. m land from MIDC (open space No.8) and will achieve mandatory 33% green belt area. 158 Nos. OF trees will be planted in this area.				
17	Area of Green Belt & No. of trees in the proposed project in Sq.m. (Pl. provide 2000 trees per hectare of green belt area)	Area of Green belt = 792 Sq. m , No. of trees = 158				
18	Width of internal roads and turning radius	Width = 6 m Turning radius = 9 m				
19	Details of proposed construction	Total Built-up Area (in Sq. m)	1657 Sq.m			
		No. of Buildings & its height in mtrs.	No New Construction will be carried out this is expansion of existing building and proposed product will be manufactured in existing building			
20	<b>List of Raw materials &amp; Storage Details (Pl. add on in the list if necessary)</b>					
	<b>List of Raw material- Proposed Product</b>					
	<b>Sr. No</b>	<b>Name of Raw Material</b>	<b>Consumption Kg/M</b>	<b>Maximum Storage Details</b>	<b>Hazard Category</b>	<b>Proposed precautions to prevent accident</b>
	1	2-Benzylidene Diethyl Malonate	4076	2000	Non Hazardous	All precautions shall be taken as per the guidelines of the factory act
	2	4-Chloro Benzaldehyde	918	900	Non Hazardous	
	3	5,6-diaminouracil	772	750	Non Hazardous	
	4	acetic acid	6593	1000	Corrosive	
	5	Acetic anhydride	4815	2000	Non Hazardous	
	6	Activated Carbon	154	150	Non Hazardous	
	7	Ammonia	506	250	Toxic	
	8	Aqueous Ammonia 5%	3338	1000	Non Hazardous	
	9	Aqueous HCl	25987	10000	Corrosive	
	10	Aqueous Methanol 50%	8210	2000	Non Hazardous	
	11	Aqueous Sodium Hypochlorite 12% soln	4113	1000	Non Hazardous	
	12	Aqueous Sulfuric Acid	16981	10000	Corrosive	
	13	Catalyst	78	100	Non Hazardous	
	14	Caustic Soda	2915	1500	Corrosive	
	15	Dihalo hexane	1202	2000	Non Hazardous	
	16	Glutaric Acid	2438	1500	Non Hazardous	

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	17	Methanol	1978	0	Flammable Liquid			
	18	Methyl Acetoacetate (MAA)	1502	1500	Non Hazardous			
	19	Oxaldehyde 40%	946	1000	Non Hazardous			
	20	Piperidine	3	5	Non Hazardous			
	21	Potassium Carbonate	12	25	Non Hazardous			
	22	PTSA Monohydrate	33	50	Non Hazardous			
	23	Sodium Cyanide	1464	1500	Toxic			
	24	Sodium Methoxide	216	200	Non Hazardous			
	25	Toluene	327	0	Flammable Liquid			
	<b>List of Existing Raw Materials</b>							
	26	Di Halo Hexane	1000	2000	Flammable Liquid			
	27	Sodium Cyanide	1000	1500	Toxic			
	28	Hydrogen Peroxide	500	1000	Oxidising Agent			
	29	Methanol 50%	3000	3000	Non hazardous			
	30	Sulphuric Acid	6000	6000	Corrosive			
	31	Organic Amines	200	200	Flammable Liquid			
	32	Hydrogen	2.5	2.5	Explosive			
	33	Polyethylene Glycol	400	400	Non hazardous			
	34	Nitric acid 54%	2000	2000	Corrosive Liquid			
	35	Activated Carbon	100	250	Non hazardous			
	36	Sodium Methoxide	250	250	Non hazardous			
	37	Hydrochloric Acid	10000	10000	Corrosive			
	38	Bromine	1000	1000	Corrosive/Toxic			
	39	Butane/Butene Diol	2000	3000	Non Hazardous			
	40	Benzaldehyde	220	220	Non Hazardous			
	41	Ethyl Cyano Acetate	200	200	Non Hazardous			
	42	Dibasic Acid/Esters	4000	16000	Non Hazardous			
	43	Substituted Malonates	400	400	Non Hazardous			
	44	Urea	200	200	Non Hazardous			
	45	Acetic Anhydride	1000	1000	Corrosive			
	46	Hydrobromic Acid	300	600	Corrosive			
	47	Benzylamine	200	200	Non Hazardous			
	48	Oleic acid	1000	1000	Non Hazardous			
	21	<b>Production Details</b>						
		<b>Sr. No</b>	<b>Name of Product</b>	<b>Existing Capacity MT/M</b>	<b>Proposed Capacity MT/M</b>		<b>Total Capacity MT/M</b>	<b>Name of Product approving authority (like FDA of pharmaceuticals etc.)</b>
		<b>1</b>	<b>Existing Products</b>					
		1	Poly Carboxylic Acids & Their derivatives such as	3.0	0.0		3.0	Not Applicable

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		Suberic Acid				
	2	Polyhalogenated Alkanes / Alkanol such as Dibromobutane and their derivatives	2.0	0.0	2.0	Not Applicable
		Byproduct - Ammonium Sulphate	1.66	0	1.66	
	<b>B</b>	<b>Proposed Products</b>				
	1	<u>API</u> Baclofen	0	1.0	1.0	FDA
	2	<u>Intermediates</u> Carboxylic acid based intermediates such as  3-methoxy-pyrazine-2 carboxylic acid methyl ester  Glutaricacid/Anhydride  Octanedioicacid/Anhydride,  2- Phenylsuccinic Acid/Anhydride	0	6.0	6.0	Not Applicable
		<b>By Products</b>				
	1	Ammonium Sulphate	0	4	4	Not Applicable
	2	Acetic Acid	0	5	5	Not Applicable
22	Water Consumption & Effluent generation (All units in CMD) i)Source &Qty of water requirement (in CMD): <ul style="list-style-type: none"> <li>Source :MIDC Kurkumbh</li> </ul>					

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<ul style="list-style-type: none"> <li>Quantity of total water requirement : 27.7 CMD</li> </ul>						
ii) Water supply permission obtained (Yes/No) & approving Authority: Yes approved By MIDC Kurkumbh						
	Description	Water Consumption in CMD	Loss of water in CMD	Effluent Generation on CMD	Treatment	
A	Industrial					
1	Industrial Process	12	3.8	8.2	Effluent will be treated in exiting ETP of Capacity 5 KLD after primary treatment 4 KLD Treated effluent will be further forwarded CETP and 5.7 CMD effluent is treated in MEE and treated water 4.9 from MEE is/ will be recycled for cooling purpose	
2	Industrial Cooling/Boiler	5 {0.1(F)+4.9(R)}	4.5	0.5		
3	Floor & Drum Washing	2	1	1		
B	Domestic	3 (F)	0.6	2.4	Domestic effluent will be treated in proposed STP of capacity 3 KLD and treated water will be recycled for Gardening and flushing	
C	Green Belt	0.7 (R)	0.7	0	Transpiration	
	Total Water Requirement	22.7	10.6	12.1	--	
23	Quantity of sewage generation(in CMD)			2.4 CMD		
24	Details of Sewage Treatment and Disposal of treated sewage:			Domestic effluent will be treated in proposed STP of capacity 3KLD and treated 1.9 KLD water will be recycled for Gardening and flushing.		
25	<b>Detail of Effluent Generation (unit CMD)</b>					
	<b>Particulars</b>			<b>Existing</b>	<b>Proposed</b>	<b>Total</b>
	a. Qty. of Effluent Generation (CMD)			0	9.7	9.7
	b. Qty. of high TDS/COD effluent (CMD)			0	5.7	5.7
	c. Qty. of low TDS/COD effluent (CMD)			0	4	4
26	Whether Zero liquid Discharge Effluent Treatment is proposed(Yes/No)			Yes		

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27	Brief Description of Effluent Treatment scheme	<p>Effluent will be treated in ETP of 5 KLD Capacity and High TDS effluent will be further forwarded to proposed MEE. Treated water from MEE will be recycled for cooling.</p> <p>1) Total Industrial Effluent Generation : 9.7 m<sup>3</sup> /day</p> <p>Stream of High TDS - To MEE =5.7 CMD</p> <p>Stream of Low TDS - To ETP = 4 CMD</p> <p>2) Water Recycled from MEE for cooling purpose = 4.9 m<sup>3</sup>/day.</p> <p>3) Water Sent To CETP (after treatment in ETP) = 4 m<sup>3</sup>/day</p>				
28	Qty. of treated effluent proposed to be sent to CETP (pl. mention Name of CETP and its membership Details)	<p>We will sent 4 CMD. effluent to CETP Obtained NOC from CETP vide No. C-022 on dated: 12.10.2006</p>				
29	Please mention parameters of treated effluent to be achieved as per EPR Rule, 1986 and or stipulated by the SPCB					
Parameter		Inlet Concentration (Mg/l)		Outlet Concentration (Mg/l)		
pH		5-8.5		5.5-8.5		
TSS		250		<100		
TDS		600-700		<750		
COD		5000-600		< 250		
BOD		1000-1800		<30		
Heavy Metals		Nil		Nil		
Benzene		Nil		Nil		
Other if any		Nil		Nil		
30	Brief Note on proposed Rain water harvesting scheme along with budget allocation:	<p>Roof top/terrace water will be diverted through NP2/PVC pipes to tank. The rooftop rain water will pass through first flush chamber and then transferred to recharge pit through gravitational force.</p> <p>No. of Recharge tank:1</p> <p>Capital Cost: 1.25 Lac</p> <p>O &amp; M cost:0.1 Lac</p>				
31	Solid Waste Management					
Sr. No		Type of waste	Qty. in MT/M	Source of generation	Disposal Methods	Pl. mention plan to reduce solid waste generation if any
1		Inorganic salts	3 Existing+ 7 Proposed	Process	CHWTSDF	--
32	Hazardous Waste Generation & Disposal (As per HW Rule 2016)					

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Sr. No	Category	Particulars	Source of Generation (Please include Name of Product)	Existing Qty & generation L /M	Expansion Qty & generation L /M	Total Qty & generation L /M	Method & Disposal as per HW Rules 2016
2		Wastes/ residue containing Oil	Process	0.2 MT/M	0.2 MT/M	0.4 MT/M	CHWTSDF
3		Spent Carbon	Machinery	0.5 MT/M	0.5 MT/M	1.0 MT/M	Authorized Dealer
4		Distillation Residue	Process	0.00	0.5 MT / M	0.5 MT / M	CHWTSDF
5		ETP Sludge	ETP	0.1 MT/M	0.2 MT/M	0.3 MT/M	CHWTSDF

  

33	Fuel Consumption												
	Sr. No	Type of Fuel	Consumption Qty. (TPD)			Used for (Boiler /DG Set etc)	Ash%			SO2%			Air Pollution control/ equipment provided (Yes/No)
			Exi	Pro	Tot		Exi	Pro	Tot	Exi	Pro	Tot	
1	Coal/ Briquettes	500 kg/ Day	2000 kg/ day	2500 kg/ day	Existing 500 kg steam/hour solid fuel boiler Proposed 600 kg steam/ho	0.06	0.06 %	0.06 %	0.06	1.2 kg/d	1.2 kg/d	Yes-Dust collector	

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						ur solid fuel boiler (Old 500 Kg Boiler will be removed )								
	2	FO /L DO	100	500 litres/day	600 litres/day	Existing 400 kg steam/hour LDO fired boiler Proposed 600 kg steam/hour FO/LDO fired boiler ( Old 400 Kg Boiler will be removed )	0.01	0.01	0.01	0.01	0.01	0.01	Yes-Dust collector	
	3	HS D	35 Lit/Hr	0 lit/hr	35 lit/hr	Existing DG set- 1 x 50 KVA, 1 x 82.5 KVA	0	1.00%	1.00%	0	8.0 kg/d	8.0 kg/d	Acoustic Enclosure	
34	Brief Note on Air Pollution Control equipment's							Yes- Cyclone Dust collector as air pollution control measure for Boiler will be provided with adequate Stacks as per CPCB norms.  Adequate stack height with Acoustic Enclosure for DG set will be provided						

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35	Stack Details (Also include process vent details)																
	Sr. No.	Section /Unit	Source pollutions	Stack No.	Stack Height	Height from ground	Internal; Diameter (inch)	Temperature of exhaust gas									
	1	Existing 500 kg steam/hour solid fuel boiler& Existing 400 kg steam/hour LDO fired boiler (Once proposed Boiler installed existing boiler will be removed)	Boiler	1	18	18	0.75	220 to 240 Deg.									
	2	Proposed 600 kg steam/hour solid fuel boiler Proposed 600 kg steam/hour FO/LDO fired boiler	Boiler	1	30	30	--	220 to 240 Deg.									
	2	Existing DG set- 1 x 50 KVA, 1 x 82.5 KVA	DG set	2 & 3	3.0	3.0	0.15 m	70 Deg.									
36	<p><b>Energy</b></p> <p>a) Source of power Supply :MSEDCL</p> <p>b) Maximum Demand (KVA):107 KVA</p> <p>c) Whether DG sets will be provided (Yes/No):Yes</p> <p><b>if yes :</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Sr. No</th> <th colspan="2">No. of DG Sets</th> <th rowspan="2">Capacity</th> </tr> <tr> <th>Existing</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Existing DG Sets: 1 x 50 KVA, 1 x 82.5 KVA</td> <td>0</td> <td>50 KVA &amp;82.5 KVA</td> </tr> </tbody> </table>							Sr. No	No. of DG Sets		Capacity	Existing	Proposed	1	Existing DG Sets: 1 x 50 KVA, 1 x 82.5 KVA	0	50 KVA &82.5 KVA
Sr. No	No. of DG Sets		Capacity														
	Existing	Proposed															
1	Existing DG Sets: 1 x 50 KVA, 1 x 82.5 KVA	0	50 KVA &82.5 KVA														

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	<p>d)Please Mention if high tension line is passing through the plot :Yes/No: No e)If yes, pl. give details of safety measures adopted: NA</p>																																																					
37	<p><b>Details of use of renewable energy with budget allocation</b> Existing Power requirement- 107 KVA Proposedrenewableenergysourcecapacity:0.6 Kw/Day Proposed Budget (in Rs. Lakhs):1.5 Lac Timeline for implementation :1 Years</p>																																																					
38	<p><b>Details of public hearing (if applicable)</b> i) Place of public hearing: NA ii) Date of public hearing: NA <b>Please fill following details</b></p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Issue raised during public hearing</th> <th>Applicant plan for its compliance/ implementation</th> <th>Budget allocation for implementation</th> <th>Specific time line of compliance</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table>						Sr. No	Issue raised during public hearing	Applicant plan for its compliance/ implementation	Budget allocation for implementation	Specific time line of compliance	1	NA	NA	NA	NA																																						
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39	<p>EMP(Please mention specific items proposed in EMP along with specific timeline for its implementation) <b>Construction Phase:</b> Not applicable as this is expansion of existing project no new construction will be carried out <b>Operation Phase:</b></p> <table border="1"> <thead> <tr> <th>Sr . No</th> <th>Attributes</th> <th>Specific measures</th> <th>Budget in Rs. Lakh</th> <th>Time line for 1/5 implement</th> <th>Responsibility</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Air</td> <td>Air Pollution Control Measures- Stack as per CPCB norms (Ht. 30 m)</td> <td>25</td> <td rowspan="7">After obtaining EC 1 -2 year</td> <td>PP/Vendor PP</td> <td>--</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2">Water</td> <td>Installation ofSTP, ETP/MEE, Installation of online monitoring system for ETP</td> <td>7.5</td> <td>PP/Vendor</td> <td>--</td> </tr> <tr> <td>Septic tank/STP</td> <td>2.5</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Noise</td> <td>Provision of Acoustic enclosures to DG sets and high noise generating machinery, Barriers</td> <td>10</td> <td>PP</td> <td>--</td> </tr> <tr> <td>4</td> <td>Soil</td> <td>Plantation and Green belt development</td> <td>5.0</td> <td>PP</td> <td>--</td> </tr> <tr> <td>5</td> <td>Solid waste</td> <td>Segregation, collection and sale to authorized vendor</td> <td>0.5</td> <td>PP/Vendor</td> <td>--</td> </tr> <tr> <td>6</td> <td>Hazardous waste</td> <td>sale to CHWTSDF</td> <td>1.0</td> <td>PP/Vendor</td> <td>--</td> </tr> </tbody> </table>						Sr . No	Attributes	Specific measures	Budget in Rs. Lakh	Time line for 1/5 implement	Responsibility	Remarks	1	Air	Air Pollution Control Measures- Stack as per CPCB norms (Ht. 30 m)	25	After obtaining EC 1 -2 year	PP/Vendor PP	--	2	Water	Installation ofSTP, ETP/MEE, Installation of online monitoring system for ETP	7.5	PP/Vendor	--	Septic tank/STP	2.5			3	Noise	Provision of Acoustic enclosures to DG sets and high noise generating machinery, Barriers	10	PP	--	4	Soil	Plantation and Green belt development	5.0	PP	--	5	Solid waste	Segregation, collection and sale to authorized vendor	0.5	PP/Vendor	--	6	Hazardous waste	sale to CHWTSDF	1.0	PP/Vendor	--
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	7	Fuel & energy	Good quality of fuel and use of renewable energy	10.0		PP	--
	8	Safety & Health	Fire Fighting System, Fire Extinguishers, Personal Protective Equipment's, Occupational Health Centre	7.0		PP	--
	9	Rain waterharvesting	Provision of pipes and drains for transportation, Filter and Collection Tank	0.5		PP	--
	10	Implementation of recommendation of LCA	--	5.0		--	--
	11	Implementation recommendation HAZOP/Risk Assessment	Implementation of HAZOP	5.0		PP	--
	12	Any other please specify	NA	NA		NA	--
40	Other Relevant Information : (Pl. provide brief note on proposed project)			Proposed project is expansion of existing chemicals unit for making API & Intermediates and existing building will be used for proposed production			
41	Details of skill development program within Organization			Skill development program will be arranged in industry like Training for employee in time to time.			
42	Details of environmental Monitoring Cell ( Pl. provide organogram with educated Qualification and experience)			Yes			
43	Details of court cases if pending in any Hon'ble court			No			

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### **RECOMMENDATIONS OF SEAC:**

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to following conditions,

<b>Sr. No.</b>	<b>Condition</b>
16.	PP submitted that, the proposed project is of expansion of existing API and Intermediates they have only 140 Sq.m. (6%) area for green belt development of the total plot area of 2400 Sq.m. against mandatory area of to 792 Sq.m. (33%). PP had obtained letter from MIDC office (Pune) allowing them to develop green belt over an area of 2000 Sq.m. on their open plot No. 8 with the MIDC area to achieve the deficit green belt.
17.	PP to provide Zero Liquid Discharge Effluent Treatment Plant. PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/mechanical vapour compressor etc. so as to reduce operation cost and use of natural resources. PP to get ZLD design vetted by the reputed institute before commissioning of the proposed manufacturing.
18.	PP to ensure to monitor all parameters proposed to be monitored in work zone area in the ambient air also, so as to trace any escape of work zone area pollutant in the ambient air.
19.	PP to identify the sources of odour generation/toxic chemicals emission and provide appropriate odour control / mitigation measures mechanism to avoid nuisance to the surrounding area.
20.	PP to ensure to deploy well trained regular employees on all critical/hazardous operations and storages of hazardous chemicals instead of contract workers. Regular safety training to be provided to all such employees.
21.	PP to prepare chemical compatibility chart of all chemicals and finished products handled, stored on site and ensure its storage/handling as per compatibility.
22.	PP to provide Continuous Online Monitoring System connected to the servers of CPCB and MPCB. PP to include VOCs monitoring in the scheduled ambient air monitoring plan.
23.	PP to submit VOCs emission control and its management plan. PP to include VOCs monitoring in their work place monitoring plan.
24.	PP ensure to provide adequate space for parking of all types of vehicles including external vehicles carrying raw material and finished products. No vehicle shall be parked on the public road.
25.	PP to ensure to prepare and implement On-site and Off-site emergency handling plan. The plan shall be prepared based on the HAZOP and Risk Assessment. Required training to all employees be provided on the emergency handling plans.
26.	PP to ensure to prepare a fail proof Disaster Management Plan is prepared, established and implemented followed by regular mock drills.
27.	PP to explore possibility to provide storage facility for rain water on the east side of plot and complete rain water harvesting facility before the commissioning of the manufacturing activity.

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28.	PP to utilize CER funds for the development of public infrastructure in the vicinity of the project area in consultation with District Administration. CER consolidated plan to be submitted for its effective implementation
29.	PP to provide solar energy for the illumination of common areas like administrative building, parking areas, streetlight etc.

**CONCLUSION:** Recommended

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Proposal No. 7: SIA/MH/IND/66305	Type: EC
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**INTRODUCTION:**

This has reference to your online application vide proposal No. 66305 submitted along with copies of documents seeking the Environmental Clearance under the provisions of the EIA Notification, 2006. The proposed project activity is listed at Sr. No. 5(g) Distillery under category B1 of the EIA Notification, 2006 amended from time to time and the proposal is appraised in the SEAC-1 committee.

**PROJECT DETAILS:**

**Environmental Clearance for Proposed 120 KLPD Maize Starch based distillery with Captive power plant 4 MW capacity at Plot No. A4 & A-411, Village-Khadki (Bk), MIDC- Chalisgaon. Taluka- Chalisgaon, District- Jalgaon by M/s. Gujarat Ambuja Export limited.**

**Details of earlier EC if any:**

**No**

**DELIBERATIONS IN SEAC:**

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Shri Krishna Environment Consultants Pvt. Ltd. (earlier M/s. SMS Envirocare Ltd.)

During deliberations, PP informed that, the earlier accredited consultant Ms. SMS Envirocare Ltd. is now not operating and they are not having accreditation with the NABET. Hence, PP appointed M/s Shri Krishna Environment Consultants Pvt. Ltd. as their new accredited consultant. The representative of both the consultants were present for the meeting and shown their agreement for the change of consultant. Now the new consultant is ready to own all the data generated and presented by the earlier consultant. Hence, SEAC- 1 considered the proposal for appraisal.

The proposal was earlier considered in the 210<sup>th</sup> meeting wherein the proposal was deferred for following reasons,

1. PP to submit to the scale lay out plan showing internal roads with minimum six meter width and nine meter turning radius, entry/exit gates (preferably sliding gates) , provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt (preferably along the periphery with minimum five meter width) with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along

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with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.

2. PP to submit detailed information on status of all environmental parameters like air, water, soil, waste etc. of existing manufacturing plant.
3. PP to submit point wise compliance of issues raised during public hearing along with budgetary allocation and time bound program for its compliance.
4. PP to submit details of carbon dioxide management plan.
5. PP to repeat the Ambient Air Quality monitoring and submit revised details.
6. PP to submit fly ash management plan along with dust fall study and related data.
7. PP proposes to treat the effluent generated from proposed distillery unit in the existing Effluent Treatment Plant. PP to conduct ETP adequacy study through reputed organisation and submit report along with proposed measures if any.
8. PP to carry out quantitative risk assessment study and submit report along with proposed mitigation measures.
9. PP to carry out traffic impact assessment study and submit report along with proposed mitigation measures if any to ensure smooth traffic after commissioning of the proposed project.
10. PP to submit copy of certified compliance of consent to operate to be obtained from the MPCB.

Now, PP submitted information on above points,

During deliberations, it was observed that, PP has not complied with the crucial points identified in last meeting as suggested by the SEAC-1. The PP and consultant submitted inadequate compliance of the following points.

1. PP to submit fly ash management plan along with dust fall study and related data.
2. PP proposes to treat the effluent generated from proposed distillery unit in the existing Effluent Treatment Plant. PP to conduct ETP adequacy study through reputed organisation and submit report along with proposed measures if any.
3. PP to carry out quantitative risk assessment study and submit report along with proposed mitigation measures.
4. PP to submit completely revised documents.

### **RECOMMENDATIONS OF SEAC:**

In view of above, SEAC-1 decided to defer the proposal till submission of appropriate compliance of the above points.

**CONCLUSION:** Deferred.