

F. No. J-11011/108/2015-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

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Indira Paryavaran Bhawan  
Jorbagh Road, New Delhi - 110003

Dated: 3<sup>rd</sup> August, 2021

To,

**M/s Atul Limited**

Atul Village

District Valsad, Gujarat – 396020

Email: [hriday\\_desai@atul.co.in](mailto:hriday_desai@atul.co.in)

**Sub: Expansion of Dyes, Chlor-Alkali, Pesticide, Bulk Drug & Pharmaceutical, Resins, Flavors & Fragrances, Other Chemicals & Co-Products Manufacturing Unit at Atul and Haria Village, Taluka & District Valsad, Gujarat by M/s Atul Limited - Environmental Clearance regarding.**

Sir,

This has reference to your proposal No. IA/GJ/IND3/211612/2018 dated 8<sup>th</sup> May 2021, submitting the EIA/EMP report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for Expansion of Dyes, Chlor-Alkali, Pesticide, Bulk Drug & Pharmaceutical, Resins, Flavors & Fragrances, Other Chemicals & Co-Products Manufacturing Unit at Survey No. 5, 6, 29, 30, 33 to 38, 80, 81, 84, 85, 91, 96 to 105, 108, 112 to 117, 142, 144 to 148 of Atul Village and 274, 275, 276, 315, 316 and 321 of Haria Village, Taluka & District Valsad, Gujarat by M/s Atul Limited.

3. The details of products and capacity are as under:

**Product Group**

S. No.	Product Group	Category	Capacity (TPM)		
			Existing	Proposed	Total
A	Dyes	5(f)	1884.13	9286	11170.13
B	Chlor-Alkali	4(d)	7500	21133.29	28633.29
C	Pesticides Tech	5(b)	2915.28	11370.59	14285.87
D	Bulk Drug and Pharmaceuticals	5(f)	350.6	1979	2329.6
E	Resins	5(f)	3432.57	17000	20432.57
F	<b>Other Chemicals</b> Total Production Capacity of this group Sodium Thio sulphate (dry basis)	5(f)	22094.267	40516.86	62611.127

	<b>Other Chemicals</b> Total Production Capacity of this group Sodium Thio sulphate (wet basis)	5(f)	23094.267	42316.86	65411.127
G	Flavors & Fragrances	5(f)	733.3	6500	7233.3
H	Co Products:	-	417	3	420
	Total Production Capacity with Sodium Thio sulphate (dry basis)		39327.15	107788.74	147115.887
	Total Production Capacity with Sodium Thio sulphate (wet basis)		40327.15	109588.74	149915.887

### Detailed Product List

S. No.	Product	Category	CAS No.	Capacity (TPM)		
				Existing	Proposed	Total
<b>A</b>	<b>Dyes</b>					
1	Azo dyes	5(f)	2898-84-2	550	0	550
2	Sulfur Black		1326-82-5	833.33	1667	2500.33
3	Sulfur Dyes range		1326-40-5	25	0	25
4	Naphthol range		132-68-3	75	0	75
5	Fast Color Bases		17333-83-4	40	0	40
6	Disperse dyes		2872-48-2	118.5	0	118.5
7	Optical Brighteners		12224-03-2	10	0	10
8	Reactive Dyes		61951-85-7	127.3	834	961.3
9	Vat dyes		129-09-9	105	0	105
10	Indigo		482-89-3	0	500	500
11	Manganese sulphate		10034-96-5	0	1000	1000
12	40 % Manganese sulphate solution		10034-96-6	0	2500	2500
13	Pigments		4378-61-4	0	200	200
14	1-Aminoanthraquinone		82-45-1	0	417	417
15	H-acid		90-20-0	0	500	500
16	4-amino-phenyl-4-beta hydroxy ethyl sulphone sulphate ester, Para base ester		2494-89-5	0	834	834
17	DNCB (Di Nitro Chloro Benzene)		97-00-7	0	834	834
<b>Total Production Capacity of Dyes</b>				<b>1884.13</b>	<b>9286</b>	<b>11170.13</b>
<b>B</b>	<b>Chlor-Aklali</b>					
18	Caustic soda/potash & sodium sulfide	4(d)	1310-73-2 & 7783-28-0	4000	11100	15100

19	Liquid Chlorine /HCl		7782-50-5 7647-01-0	3500	9768	13268
20	Hydrogen		1333-74-0	0	265.29	265.29
<b>Total Production Capacity of Chlor-Alkali</b>				<b>7500</b>	<b>21133.29</b>	<b>28633.29</b>
<b>C</b>	<b>Pesticides Tech</b>					
21	Carbamate group of Agrochemicals (Indoxacarb Tech, Propoxur etc.)	5(b)	144171-61-9	43.3	66.7	110
22	Diuron		330-54-1	220	200	420
23	Trichlo Carbon		79-01-6	8.3	0	8.3
24	Cartap HCl		15263-53-3	50	0	50
25	Carbendazim		10605-21-7	20.9	180.1	201
26	Phenoxy Herbicides (e.g. 2,4-D & related products)		94-75-7	2170	2750	5670
27	4-chloro-2-methyl phenoxy-acetic acid (MCPA)		94-74-6		750	
28	Pyridine based insecticides & Herbicides chemical e.g. Imidacloprid		138261-41-3	29.16	95.84	125
29	Triazole based Fungicide		60207-90-1	1.67	100.33	102
30	Pyrethroids		91465-08-6	10	0	10
31	Sulphonyl urea		57-13-6	35.25	34.75	70
32	Glyphosate		1071-83-6	65	2935	3000
33	Isoprothiolane		50512-35-1	18.3	81.7	100
34	Fipronil		120068-37-03	5	25	30
35	Formulations		--	200	2000	2200
36	Buprofezin		69327-76-0	4	0	4
37	Imazethapyr		81335-77-5	1.83	0	1.83
38	Kresoxim Methyl		143390-89-0	2.08	0	2.08
39	Fenoxaprop		71283-80-2	0.83	0	0.83
40	Cyhalofop		122008-85-9	0.83	0	0.83
41	Mesotrione		104206-82-8	0	300	300
42	Sulcotrione		99105-77-8	0	300	300
43	Glycin		56-40-6	0	1000	1000
44	Pyrazosulfurone		93697-74-6	0.5	29.5	30
45	BisPyribac Sodium		125401-92-5	0.83	29.17	30
46	Azoxystrobin		603-524-3	2.08	147.92	150
47	Quizalofop		100646-51-3	1.25	48.75	50
48	Thiamethoxam		153719-23-4	10	90	100
49	Metribuzin		21087-64-9	10	50	60
50	Diafenthuron		80060-09-9	4.17	25.83	30
51	Chlorantraniliprole		500008-45-7	0	70	70

52	5-Chloro Indanone	1-	42348-86-7	0	60	60			
<b>Total Production Capacity of Pesticides</b>				<b>2915.28</b>	<b>11370.59</b>	<b>14285.87</b>			
<b>D</b>	<b>Bulk Drug and Pharmaceuticals</b>								
53	Mebendazole	5(f)	31431-39-7	2	0	2			
54	Tolbutamide		64-77-7	2.5	0	2.5			
55	Quiniodochlor		130-26-7	15	0	15			
<b>D1</b>	<b>Bulk Drugs &amp; Intermediates</b>								
56	Dapsone-API	5(f)	80-08-0	9.6	65	194.6			
57	Valacyclovir HCl		124832-27-5						
58	Celecoxib		169690-42-5						
59	Desvenlafaxine		93413-62-8						
60	Mirabegron		223673-61-8						
61	Vildagliptin		1133208-42-0						
62	Venlafaxine Hydrochloride		99300-78-4						
63	5-Hydroxy methyl thiazole (5-HMT)		38585-74-9				20		
64	Thiophene-2-carboxaldehyde (2-TC)		98-03-3				90		
65	1-Chloroacetyl-2-carbonitrile pyrrolidine (CACP)		207557-35-5				10		
66	Diclofenac sodium / potassium		15307-79-6 (Na)				2.5	0	2.5
67	Atenolol		29122-68-7				1.7	0	1.7
68	Furosemide		54-31-9				1.3	0	1.3
69	Trimethoprim		738-70-5				0.9	0	0.9
70	Para hydroxy acetophenone		99-93-4				1.7	0	1.7
71	Para hydroxy phenyl acetamide	103-90-2	3	0	3				
72	Acyclovir	59277-89-3	5.2	0	5.2				
73	Bethanechol	590-63-6	5.2	0	5.2				
<b>D2</b>	<b>Pharma Intermediates &amp; Chemicals</b>								
74	4,4 Diamino diphenyl sulphone	300	80-08-0	300	250	2094			
75	4,4 Dichloro diphenyl sulphone		80-07-9		1000				
76	3,3 Diamino diphenyl sulphone		599-61-1		44				
77	DHDPS & Other sulfones		127-63-9		500				
<b>Total Production Capacity of Bulk Drug and Pharmaceuticals</b>				<b>350.6</b>	<b>1979</b>	<b>2329.6</b>			
<b>E</b>	<b>Resins</b>								
78	Epoxy Resin	5(f)	25085-99-8	2600	15000	17600			
79	Vinyl Ester Resins		100-42-5	37.5	0	37.5			

80	Ketone Formaldehyde Resins & Sulphonamide, Formaldehyde Resins		--	20.8	0	20.8
81	UF/MF/PF/Di Cyandiamide Resins		461-58-5	270.9	0	270.9
82	Polyamide resins		63428-84-2 68082-29-1	161.7	0	161.7
83	Polygrip TPU based		9009-54-5	41.67	300	341.67
84	Polygrip rubber based		9003-35-4	300	1700	2000
<b>Total Production Capacity of Resins</b>				<b>3432.57</b>	<b>17000</b>	<b>20432.57</b>
<b>F</b>	<b>Other Chemicals</b>					
85	Anthraquinone, Naphthalene, Benzene Intermediates. (Including Beta – Naphthol & BON Acid)	5(f)	92-50-2	740	0	740
86	Resorcinol (Meta hydroxy phenol)	5(f)	108-46-3	460	600	1060
87	Carbamite	5(b)	85-98-3	30	0	30
88	Chlorzoxazone & other related products	5(f)	95-25-0	5	0	5
89	4 Ethyl 2,3 – Diorcopiperazino carbonyl Chloride	5(f)	59703-00-3	3.3	0	3.3
90	Imino Dibenzyl 5 carbonyl Chloride	5(f)	33948-19-5	0.8	0	0.8
91	Formaldehyde and base products	5(f)	50-00-0	3200	12000	15200
92	Sulfuric Acid/Oleum/ Chlorosulphonic Acid & Salts	-	7664-93-9	11550	0	11550
93	Sulpha Drug Intermediate	5(f)	119018-29-0	193.8	0	193.8
94	Acetyl Sulphanilyl Chloride and its derivatives	5(f)	121-60-8	1500	0	1500
95	Acetanilide	5(f)	103-84-4	500	0	500
96	Sulpha Methyl Phenazole Sodium	5(f)	60-80-0	1.1	0	1.1
97	Pyrazole Base	5(f)	288-13-1	10.5	0	10.5
98	Sulphanilic acid	5(f)	121-57-3	25	0	25

99	Bis Phenol A	5(f)	80-05-7	416.7	0	416.7
100	Hexamine	5(f)	100-97-0	150	0	150
101	Epoxy Intermediates	5(f)	28064-14-4	23.8	0	23.8
102	Hardners and auxiliaries	5(f)	19900-65-3	500	3500	4000
103	Hardener Intermediates	5(f)	19900-65-3	700	0	700
104	Bisphenol S & Intermediate Chemicals	5(f)	80-09-1	16.6	0	16.6
105	Sodium sulphate (Dry basis) Thio	---	7772-98-7	900	1600	2500
106	Sodium sulphate (Wet basis) Thio	---	10102-17-7	1900	3400	5300
107	Phosgene	5(f)	75-44-5	416.667	416.16	832.827
108	HX-13059	5(f)	212201-70-2	5	0	5
109	Alkyl ketene dimer	5(f)	144245-85-2	0	500	500
110	Anisole	5(f)	100-66-3	166	140	306
111	PF Resin	5(f)	9003-35-4	0	200	200
112	CMC (Carboxy methyl cellulose)	5(f)	9004-32-4	0	2000	2000
113	HMMM (Hexa Methoxy Methyl Melamine)	5(f)	3089-11-0	0	40	40
114	m-Amino phenol	5(f)	591-27-5	0	250	250
115	Mono chloro benzene	5(f)	108-90-7	0	2500	2500
116	Propionyl chloride	5(f)	79-03-8	0	200	200
117	Resorcinol derivatives	5(f)	108-46-3	0	100	100
118	RF Resin (Resoform P-18,19,20)	5(f)	65876-95-1 135020-80-3	85	320	405
119	Trichloro acetyl chloride	5(f)	76-02-8	0	200	200
120	Thio glycolic acid	5(f)	68-11-1	0	200	200
121	Thionyl chloride	--	9/7/7719	0	1000	1000
122	1,3 Cyclohexanedione	5(f)	504-02-9	80	40	120
<b>F1</b>	<b>Agro, Pharma intermediates, Isocyanates &amp; Carbonates, Esters, etc.</b>					
123	Trans-4-MCHI	5(f)	32175-00-1	315	0.0	
124	p-Anisyl chloroformate		7693-41-6			
125	Di-Tert-Butyl Dicarboxylate (Boc. anhydride)		24424-99-5			
126	N, N-Disuccinimidyl Carbonate		74124-79-1			
<b>F1.1</b>	<b>Chloroformates</b>					

127	1-Chloro ethyl chloroformate (1-CECF)	50893-53-3	100	800	2230
128	4-Nitrophenyl chloroformate (4-NPCF)	7693-46-1			
129	n-Pentyl chloroformate (n-PCF)	638-41-5			
130	Isobutyl chloroformate (IBCF)	543-27-1			
131	2 Ethyl Hexyl Chloroformate (2-EHCF)	24468-13-1			
132	Phenyl Chloroformate (PCF)	1885-14-9			
133	Benzyl Chloroformate (BCF)	501-53-1			
134	Methyl chloroformate (MCF)	79-22-1			
135	n-Hexyl chloroformate (n-HCF)	6092-54-2			
<b>F1.2</b>	<b>Carbonates</b>				
136	Di-tert-butyl dicarbonate (DIBOC)	24424-99-5		100	
137	Bis (4-Nitrophenyl) Carbonate (Bis-NPC)	5070-13-3		10	
138	Diphenyl carbonate (DPC)	102-09-0		50	
139	Dimethyl carbonate (DMC)	616-38-6		50	
140	1,1'-Carbonyldiimidazole (CDI)	530-62-1		20	
<b>F1.3</b>	<b>Isocyanates</b>				
141	p-Toluene sulphonyl isocyanate (PTSI) and other Isocyanates	4083-64-1		300	
<b>F1.4</b>	<b>Acid Chlorides</b>				
142	N-Methylpiperazinyl carbamoyl chloride Hydrochloride (NPCCL)	55112-42-0		50	

143	(Chlormethylene)di methylammonium chloride (VMR)/ Phosgeniminium chloride and other Acid chlorides		3724-43-4		75	
144	N,N-Dimethyl carbamoyl chloride (DMCCI)		79-44-7		60	
145	Hexaethyl guanidinium chloride (HEGCI)		50-01-1		50	
<b>F1.5 Urea</b>						
146	Tetrabutyl Urea (TBU)		4559-86-8		75	
147	Tetramethyl Urea (TMU)		632-22-4		75	
<b>F1.6 Carbodiimide</b>						
148	N,N'-Dicyclo hexylcarbodiimide (DCC)		538-75-0		100	
149	Sodium sulphite		7757-83-7		3261	3261
150	30% HCl		7732-18-5		4622.5	4622.5
151	Sodium hypochlorite solution (10%)		7681-52-9		1853.7	1853.7
152	Potassium chloride		7447-40-7		740	740
153	Sodium Chloride		7647-14-5		2418.5	2418.5
<b>Total Production Capacity of this group Including Sodium Thio sulphate (dry basis)</b>				<b>22094.27</b>	<b>40516.86</b>	<b>62611.127</b>
<b>Total Production Capacity of this group Including Sodium Thio sulphate (wet basis)</b>				<b>23094.27</b>	<b>42316.86</b>	<b>65411.127</b>
<b>G</b>	<b>Flavors &amp; Fragrances</b>		50-28-2			
<b>G1</b>	<b>Allyl Esters such as</b>	5(f)				
154	Allyl Caproate		123-68-2	0	250	250
155	Allyl cyclohexyl propionate		2705-87-5	0	250	250
156	Allyl Heptanoate		142-19-8	0	150	150
157	Cyclogalbanate		68901-15-5	0	25	25
<b>G2</b>	<b>Styrene Based derivatives such as</b>	5(f)				
158	Phenyl Ethyl Alcohol (PEA)		60-12-8	0	850	850
159	PE acetate		103-45-7	0	250	250
160	PEME (Phenyl ethyl methyl ether)		3558-60-9	0	200	200
161	Pommerol (Phenyl ethyl isoamyl ether)		56011-02-0	0	100	100
162	Styrene oxide		96-09-3	0	500	500



163	Phenyl ethyl phenyl acetate (PEPA)		102-20-5	0	100	100
164	Phenyl acetaldehyde dimethyl Acetal		101-48-4	0	250	250
165	Styrallyl acetate		93-92-5	0	500	500
<b>G3</b>	<b>Coumarin derivatives such as</b>	5(f)				
166	Coumarin		91-64-5	0	500	500
167	Dihydrocoumarin		119-84-6	0	100	100
<b>G4</b>	<b>Sunscreen products such as</b>	5(f)				
168	Avobenzone		70356-09-1	83.3	0	83.3
169	Octocrylene		6197-30-4	83.3	0	83.3
170	Octyl Methoxy Cinnamate		5466-77-3	200	0	200
<b>G5</b>	<b>Others such as</b>					
171	Peonile	5(f)	10461-98-0	0	50	50
172	Mugetanol	5(f)	68901-15-5	0	25	25
173	Salicylaldehyde	5(f)	90-02-8	0	500	500
174	Evernyl	5(f)	4707-47-5	0	200	200
175	Heliotropin	5(f)	120-57-0	0	250	250
176	Helional	5(f)	1205-17-0	0	500	500
177	1,2 Hexane Diol	5(f)	6920-22-5	0	200	200
178	Indoflor	5(f)	18096-62-3	0	50	50
179	Floral	5(f)	63500-71-0	0	50	50
180	Cyclohexyl Salicylate	5(f)	25485-88-5	0	100	100
181	Methyl Anthranilate	5(f)	134-20-3	0	300	300
182	Dihydroanethole	5(f)	104-45-0	0	50	50
183	Benzylideneacetone	5(f)	122-57-6	0	100	100
184	Hexenyl -3 -Cis- Benzoate	5(f)	31508-11-8	0	25	25
185	Hexenyl Hexenoate, Cis-3	5(f)	61444-38-0	0	25	25
186	Citronellyl Oxyacetaldehyde	5(f)	7492-67-3	0	25	25
187	Karmaflor	5(f)	873888-83-4	0	25	25
188	Anethole	5(f)	4180-23-8	166.7	0	166.7
189	Raspberry Ketone	5(f)	5471-51-2	100	0	100
190	P-Aninyl Propanal	5(f)	5462-06-6	100	0	100
<b>Total Production Capacity of the group</b>				<b>733.3</b>	<b>6500</b>	<b>7233.3</b>
<b>H</b>	<b>Co Products</b>					
191	Phenol		108-95-2	0	3	3
192	30% HCl (By product)		7732-18-5	417	0	417
<b>Total Production Capacity of this group</b>				<b>417</b>	<b>3</b>	<b>420</b>

Total Production including Sodium Thio sulphate (dry basis)		39327.15	107788.74	147115.88 7
Total Production Including Sodium Thio sulphate (wet basis)		40327.15	109588.74	149915.88 7

4. It is reported that the existing land area is 1126078.27 sqm, and no additional land will be required for proposed expansion. Industry has developed greenbelt in an area of 409030 sqm, covering 36.32% of total project area. The estimated project cost is Rs. 1789.03 crores excluding existing investment of Rs. 956.2 Crore. Total capital cost earmarked towards environmental pollution control measures is Rs. 451.81 crore and the recurring cost (operation and maintenance) will be about Rs. 138.43 crore per annum. The project will lead to additional employment for 100 persons directly and 200 persons indirectly after expansion. Industry proposes to allocate Rs. 8.472 crore towards Corporate Environmental Responsibility.

5. It is reported that there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km of the project site. Parnera Reserve Forest is at 0.62 km, Par river is at 0.25 km (SE) and Pond of Hariya Village is at 0.07 km (W) from project site.

6. It is noted that the total water requirement is 42236 m<sup>3</sup>/day of which fresh water requirement of 18050 m<sup>3</sup>/day will be met from Surface Water Source – Par River, 9335 m<sup>3</sup>/day will be recycled/treated water, 11778 m<sup>3</sup>/day will be Treated STP water from Valsad/Pardi Nagarpalika and 3073 m<sup>3</sup>/day will be water from Rain water harvesting. Total effluent generation will be 34866 KLD including domestic effluent (323 KLD). High TDS effluent of 443 KLD will be taken to MEE, 99 KLD of high COD w/w will be incinerated in incinerator. Low COD, low TDS effluent is 27143 KLD; out of which 19379 KLD will be treated in ETP and 7764 KLD will further passed through RO after treatment followed by MEE. Utility w/w generation is 4480 KLD; out of which 2500 KLD taken to RO followed by MEE and 1980 KLD w/w is direct disposal. So total 22513 KLD of effluent [323 Domestic sewage, 433 KLD MEE Condensate, 19379 KLD process effluent, 2378 Washing effluent] will be treated in ETP and propose to discharge 24493 KLD. The operations in the unit shall be managed further better and the total effluent shall be restricted to 20514 KLD for discharge to Estuary Zone of Par River through 4 km long pipeline from Industry.

Power connected load is 56000 kVA, which will be sourced from Dakshin Gujarat Vij Company Limited (DGVCL) and Captive Power Plant. No additional requirement of power. Unit has installed 2 D.G. Sets of 1010 kVA and 1500 kVA capacity for the power backup. Stack height of 11 m is provided as per CPCB norms to the proposed DG Set.

The existing flue gas emission is from stack attached to Coal/Lignite fired Boilers, PNG operated Hot Oil Unit, Oil Burner and Thermic Fluid Heater (6 L Kcal/hr). Electrostatic Precipitators with stack of different heights are installed for controlling the particulate emissions within the statutory limit of 150 mg/Nm<sup>3</sup> for the existing boilers. There will be no addition of any flue gas stack in proposed expansion.

The process emission generation is from 57 nos. of stacks/vents. There will be addition of 32 process stacks in the proposed expansion project. Air pollution control measures like bag filter, cyclone, water, alkali, acid, caustic scrubbers will be provided as separate or in the combination. Details of flue gas stacks, process gas stacks, solid waste/hazardous waste disposal are as per the plan provided in the EIA/EMP report and as deliberated in the EAC.

7. The project/activities are covered under Category 'A' of item 5(b) 'Pesticides industry and pesticide specific intermediates', 5(f) 'Synthetic Organic Chemicals Industry' and 4(d) 'Chlor-Alkali Industry' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at Central Level by the Expert Appraisal Committee (EAC) in the Ministry.

8. The standard terms of reference (ToR) was issued by the Ministry vide letter dated 22<sup>nd</sup> January, 2019. Public hearing has been conducted by the Gujarat Pollution Control Board on 1<sup>st</sup> January, 2021 which was presided over by the Additional District Magistrate. The main point raised during the public hearing were related to employment, proper mitigation measures as well as and proper utilization of CER/CSR fund. The project proponent has informed that there is no litigation pending against the proposal.

9. The proposal was considered by the **Expert Appraisal Committee (Industry-3) in its meeting held on 31<sup>st</sup> May-1<sup>st</sup> June, 2021 in the Ministry** through video conferencing, wherein the project proponent and their accredited consultant M/s San Envirotech Pvt. Ltd. presented the EIA/EMP report as per the ToR.

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

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

The Committee noted that the EIA/EMP reports are in compliance of the ToR issued for the project, considering the present environmental status and the projected scenario for all the environmental components. The Committee found the baseline data and incremental GLC due to the proposed project within the NAAQ standards. The Committee also deliberated on the activities/action plans and found them addressing to the issues in the public hearing. The Committee suggested that the storage of toxic/explosive raw materials shall be in bare minimum quantity and inventory. The Committee appreciated the greenbelt development in the unit complex and suggested PP to develop greenbelt in other areas and involve forest department/villages in this regard. The Committee pointed out that the effluent quantity to be discharged shall be within the prescribed limit as per the CRZ clearance and any increase in the effluent load or changes in pipeline attracts the provisions of the CRZ Notification, 2011. The Committee also noted that Ministry had issued EC earlier vide letter dated 11<sup>th</sup> February, 2019 to the existing projects. The

certified Compliance Report of existing EC forwarded by the Ministry's IRO, Bhopal vide letter dated 09.03.2020 was found to be satisfactory.

The Committee noted that, in response to the Committee's observations, the project proponent vide letter dated 31<sup>st</sup> May, 2021 has submitted detailed action plan to dense and develop the greenbelt in the complex and adjoining areas. Further the PP shall take plantation activities in the Parnera hill and other areas. The Action plan submitted for controlling the particulate emissions in the factory and preventive action to control accidents were found to be satisfactory. The project proponent informed that the current permitted effluent discharge to the Par river is 20514 KLD as per earlier EC and CTO. The Committee noted that CRZ clearance was granted on 17<sup>th</sup> January, 1998 for laying a 4-km long pipeline for effluent discharge. The project proponent submitted an undertaking that the effluent quantity mentioned in the CRZ clearance application and the NIO report was 23790 KLD, and the total discharge quantity shall not exceed 20514 KLD. The Committee found the additional information submitted by the project proponent to be satisfactory and addressing to the concerns of the Committee.

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

Subsequent to recommendations of the EAC (Industry-3), the proposal has been examined in the Ministry on requirement of fresh CRZ clearance for the pipeline. It is noted that the existing CRZ clearance dated 17<sup>th</sup> January, 1998 is operational and valid for discharge of 20514 KLD.

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

11. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-3), Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for **Expansion of Dyes, Chlor-Alkali, Pesticide, Bulk Drug & Pharmaceutical, Resins, Flavors & Fragrances, Other Chemicals & Co-Products Manufacturing Unit by M/s Atul Limited at Atul village and Haria Village, Taluka & District Valsad, Gujarat**, under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as under:-

**A. Specific conditions:**

- (i). The effluent quantity to be discharged shall be within the prescribed limit as per the existing CRZ clearance and any increase in the effluent load or

changes in pipeline attracts the provisions of the CRZ Notification, 2019 & its amendments and the project proponent shall obtain fresh CRZ clearance.

- (ii). No banned pesticides/chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.
- (iii). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iv). The treated effluent of 20514 KLD proposed to discharge to the estuary of Par river through pipeline, shall conform to the standards prescribed under the Environment (Protection) Act, 1986. The project proponent shall explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.
- (v). Continuous online (24x7) monitoring system for stack emissions shall be installed for the measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB servers. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (vi). The storage of toxic/hazardous raw material shall be bare minimum with respect to their quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
- (vii). Occupational health centre for surveillance of the workers' health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (viii). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall also be provided to employees.
- (ix). The unit shall make arrangement for the prevention and protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms. Action plan proposed shall be implemented in letter and spirit.
- (x). Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent

handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.

- (xi). The Action plan submitted for controlling the particulate emissions in the factory shall be satisfactorily implemented.
- (xii). Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled up to 99.99% with effective chillers/modern technology.
- (xiii). Total fresh water requirement, proposed to be met from Par River shall not exceed 18050 cum/day. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (xiv). Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (xv). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.
- (xvi). The green belt of at least 5-10 m width shall be developed/strengthened over nearly 33% of the total project area, mainly along the plant periphery/adjacent areas. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing. Trees have to be planted with spacing of 2m x 2m and number of trees has to be increased accordingly. The plant species can be selected that will give better carbon sequestration. The action plan proposed in this regard shall be implemented.
- (xvii). As proposed, the project proponent shall undertake plantation activities (10,000 plant) in the Parnera hill and other areas with the support of State Forest Department/Village Administration.
- (xviii). As committed, at least Rs 5 lakhs shall be allocated for conservation of Schedule I species. The implementation report shall be submitted to the IRO, MoEFCC.
- (xix). The activities and the action plan proposed by the project proponent to address the socio-economic/public concern and issues raised during public hearing in the study area shall be completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit.



EC for M/s Atul Limited

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

**B. General conditions:** The grant of environmental clearance is further subject to compliance of other general conditions as under:-

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

were received while processing the proposal.

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

**12.** The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

**13.** Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

**14.** Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

**15.** The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of



Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

16. This issues with approval of the competent authority.

03/10/2021

(Dr. R. B. Lal)  
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Min. of Environment, Forest and Climate  
भारत सरकार, नई दिल्ली  
Govt. of India, New Delhi

Copy to: -

1. The Deputy DGF (C), MoEF&CC Integrated Regional Office (Gujarat), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal -16
2. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8<sup>th</sup> Floor, Sachivalaya, Gandhinagar (Gujarat) -10
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar (Gujarat) - 10
5. The District Collector, District Valsad (Gujarat)
6. Guard File/Monitoring File/Website/Record File/Parivesh portal

(Dr. R. B. Lal)  
Scientist 'E'/Additional Director