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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SEAC-2212/CR-268/TC-2
Environment department,
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai- 400 032.
Date: 3rd December, 2016.

To,
M/s. Blue Circle Organics Pvt. Ltd.
Plot No. B-12, C-4, E-2, Industrial Area,
Chemical Zone, Ambarnath (W)- 421 501.

Subject: *EC SERAA- 2tem No. 24, Meeting No. 103*
Environment clearance for proposed Expansion Existing: 447.5 MT/M to Proposed 1626.8 MT/M at plot B-12, C-4, E-2, Ambarnath MIDC, Ambarnath, Tal & Dist. Thane by M/s. Blue Circle Organics Pvt. Ltd.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 125th meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 103rd meeting.

2. It is noted that the proposal is considered by SEAC-I under screening category 5(f) B1 as per EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

1	Name of the project	Blue Circle Organics Private Limited
2	Name , address, e-mail & contact number of proponent	Dr. P. C. Shekar Chief Executive Officer Plot No. B-12, C-4, E-2, MIDC Industrial Area, Ambarnath-421501 pcshekar@bluecircle.net.in Mob: 9821029547
3	Name of Consultant	Sadekar Enviro Engineers Pvt. Ltd.
4	Accreditation of Consultant (NABET accreditation)	NABET RAAC Meeting :- 71 st /2015, 2 nd Dec.2015
5	New Project/Expansion in existing project /Diversification in existing project	Expansion

6	If expansion/ Diversification, whether environmental clearance has been obtained for existing project (If yes, enclose a copy with compliance table)	No				
7	Activity schedule in the EIA notification	Schedule 5(f), category B1				
8	Area Details		Existing	Proposed	Total	
		Total Builtup area	3381.878 m ²	7591.456 m ²	10973.3 m ²	
		Open Area	20960.62 m ²	12523.9 m ²	12523.9 m ²	
		Green Belt	5234.202 m ²	188.0 m ²	5422.3 m ²	
		Parking area	3286.30 m ²	657.2 m ²	3943.5 m ²	
		Area of the plot	32863.0 m ²	----	32863.0 m ²	
9	Name of Notified Industrial area/ MIDC	Ambernath MIDC, Dist.: Thane				
10	TOR given by SEAC?	Yes, The TOR was granted in 113 rd SEAC-I Meeting dated 30 th & 31 st October 2015.				
11	Estimated cost of the project : (Including cost for land, building, plant and machinery separately)	Sr no	Components	Existing	Proposed	Total
		1.	Project Cost	16.56 Cr.	28.84 Cr.	45.40 Cr.

1 2	Location details of the project	Latitude	18°52'44.22"N			
		Longitude	73°10'43.00"E			
		Location	Ambernath MIDC			
		Elevation above Mean Sea Level(meters)	17			
1 3	Distance from protected area/ critically polluted area/ Eco sensitive area/ Interstate boundary	Company is located in Notified Industrial Area, Ambernath.				
1 4	Production profile (MT / Month):	Active Pharmaceutical Ingredients				
			Name of Products	Existin g in	Propose d in	Total in
		1	Sulfasalazine	---	8.0	8.0
		2	Hydrochlorothiazide	5.0	---	5.0

3	Diatrizoic Acid	10.0	---	10.0
4	Iohexol	5.0	---	5.0
5	Iopamidol	4.0	---	4.0
6	Iothalamic Acid	4.0	---	4.0
7	Sucralose	2.0	---	2.0
8	Metformin Hydrochloride	---	167.0	167.0
9	Amlodipine Besylate	---	3.0	3.0
10	Saccharin & its Salts	---	250.0	250.0
11	Docusate Sodium, its salts and suspension	---	67.0	67.0
Veterinary Products				
	Name of Products	Existing in	Proposed in	Total in
1	Albendazole	2.0	---	2.0
2	Chlorpheniramine	2.0	---	2.0
3	Rafoxanide BP (VET)	2.0	---	2.0
4	Levamisole Hydrochloride IP	2.0	---	2.0
Isophthalic & Derivatives				
	Name of Products	Existing in	Proposed in	Total in
1	5-Nitroisophthalic Acid	100.0	100.0	200.0
2	5-Nitroisophthalic Acid Dimethyl Ester	90.0	60	150.0
3	5-Nitroisophthalic Acid Monomethyl Ester	20.0	---	20.0
4	5-Aminoisophthalic Acid	5.0	---	5.0
5	5-Amino-2,4,6-Triiodoisophthalic Acid	20.0	---	20.0
6	Sodium-5-Nitroisophthalic Acid Monomethyl Ester	5.0	---	5.0
7	5-Hydroxy Isophthalic Acid	40.0	---	40.0
8	5-Nitro-N-Methyl isophthalamic acid	20.0	---	20.0
9	1,4,7,10tetraazacyclododecane -1,4,5,10-tetraacetic acid (DOTA)	---	6.0	6.0
10	5-Amino-2,4,6-triiodoisophthalic acid Dichloride	---	20.0	20.0
11	5-Amino-N,N'-bis(2,3 dihydroxypropyl) 2,4,6-Triiodoisophthalamide	---	10.0	10.0
12	5-Acetylamino-N,N'-bis(2,3 dihydroxypropyl)-2,4,6-Triiodoisophthalamide	---	10.0	10.0
13	5-Amino N,N'-Bis(2,3-	---	150.0	150.0

			Dihydroxypropyl)iso phthalamide HCl [ABA.HCl]			
	14		(+)-O,O'-Di-p-Toluoyl-D- tartaric acid salts; resolving agents	---	3.3	3.3
Sulfonyl Amides & Chlorides						
			Name of Products	Existin g in	Propose d in	Total in
	1		2-Aminobenzenesulfonamide	1.0	---	1.0
	2		4- Carboxybenzenesulfonamide	0.5	---	0.5
	3		5-Chloroaniline-2,4- Disulfonamide	30.0	---	30.0
Other Products						
			Name of Products	Existing in	Propose d in	Total in
	1		2-Amino-1,3-Propanediol (Serinol)	20.0	---	20.0
	2		3-Amino-1,2-Propanediol (Iserinol)	45.0	50.0	95.0
	3		3-(Methylamino)-1,2- Propanediol	8.0	---	8.0
	4		4-Sulfobenzoic Acid Potassium Salt	3.0	---	3.0
	5		5-Cyanophthalide	2.0	---	2.0
	6		Methyl Anthranilate	---	250.0	250.0
	7		4-(Acetyl amino)benzoic acid- 1-(dimethylamino)propane-2- ol	---	5.0	5.0
	8		4-Nitrophenoxyamine	---	5.0	5.0
Inorganic Chemicals						
			Name of Products	Existing	Propose d	Total in
	1.		Copper Salts	-	10.0	10.0
			R & D Products	---	5.0	5.0
			Total (MT/M)	447.5	1179.3	1626. 8
1 5	By Products (MT/M)	By Products				
		Sr. No.	Name of By Product	Existing MT/M	Proposed MT/M	Total MT/M
		1.	Spent Mix Solvents	0.0	84.0	84.0
		2.	Spent Sulphuric Acid	129.0	129.0	258.0

		3.	Sodium Salts	45.0	74.1	119.1																									
			Total	174	287.1	461.1																									
1 6	Rain Water harvesting (RWH)	Level of the Ground water table -5-7 m Bgl RWH tank is located at West side of plot.																													
1 7	Total Water Requirement	Total Water Requirements: Existing: 168.39 CMD Total After Expansion: 709.54 CMD Source: Ambernath MIDC Total Water Requirement: Domestic: 10 CMD Processes: 164.43 CMD Cooling Tower: 327.61 Boiler: 180 CMD Gardening: 27.5 CMD																													
1 8	Storm water drainage	Natural water drainage pattern: - Appropriate Drainage water system is provided. Quantity of storm water: -																													
1 9	Sewage generation and Treatment	Existing : Quantity of Sewage generation:4.8 CMD Treatment scheme : Septic tank followed by soak pit After Expansion : Quantity of Sewage generation: 8.0 CMD Treatment scheme : Outlet will be connected to aeration tank																													
2 0	Characters of effluent	<table border="1"> <thead> <tr> <th>Parameters (pH, BOD, COD, etc)</th> <th>Inlet effluent Characteristic (HCO_D)</th> <th>Inlet effluent Characteristic (LCOD)</th> <th>Outlet effluent Characteristic</th> <th>Effluent Discharge Standards (CPCB/MPC B)</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>3.8</td> <td>4.9</td> <td>6.5 - 7.5</td> <td>5.5 - 9.0</td> </tr> <tr> <td>TDS</td> <td>156503.8</td> <td>2089</td> <td>Less than 2100</td> <td>2100 mg/l</td> </tr> <tr> <td>COD</td> <td>41132.4</td> <td>3785</td> <td>Less than 250</td> <td>250 mg/l</td> </tr> <tr> <td>BOD</td> <td>11807.65</td> <td>1261</td> <td>Less than 30</td> <td>100 mg/l</td> </tr> </tbody> </table> <p>(All the parameters are express in mg/L except pH)</p>					Parameters (pH, BOD, COD, etc)	Inlet effluent Characteristic (HCO _D)	Inlet effluent Characteristic (LCOD)	Outlet effluent Characteristic	Effluent Discharge Standards (CPCB/MPC B)	pH	3.8	4.9	6.5 - 7.5	5.5 - 9.0	TDS	156503.8	2089	Less than 2100	2100 mg/l	COD	41132.4	3785	Less than 250	250 mg/l	BOD	11807.65	1261	Less than 30	100 mg/l
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2 1	ETP Details	<p>(After Expansion)</p> <p>Amount of effluent generation (CMD): 278.73 CMD Amount of treated effluent recycled (CMD): 150.5 CMD Amount of water send to the CETP (CMD): 92.7 CMD** Membership of the CETP (If require): If yes then attach the letter submit the letter : Yes, Member of Chikloli - Morivali CETP. ** As per existing consent to operate up to 70 CMD treated effluent can be discharged to CETP, but currently company is discharging only 25.67 CMD treated effluent to CETP. After expansion, out of 278.73 CMD of effluent 150.5 CMD of treated effluent will be recycled within the plant, while 92.7 CMD of treated LCOD effluent will be discharged to CETP.</p>																													

		* Company have got the permission from CETP for accepting additional effluent load which will be generated after expansion, i.e, 92.7 CMD																																																																		
2 2	Note on ETP technology to be used	Initial load segregation. High COD/TDS stream + RO Reject will be send to MEE, Capacity of the MEE – 125 CMD. 21.38 CMD of condensate from MEE will be utilized for Cooling tower makeup, while remaining MEE condensate will be sent to RO feed tank, where it will get mix with blowdown effluents. The mix effluent (MEE Condensate + Blowdown) will get passed through two stage RO for further treatment. The permeate from RO will get utilized in number of activities, Reject from RO will be sent to the MEE. Low COD stream treated with full-fledged ETP with primary, secondary, tertiary treatment After treatment it will be discharged to CETP as per latest approval from CETP.																																																																		
2 3	Disposal of the ETP sludge (if applicable)	Category of sludge: 34.3, 10.16 MT/M (Existing + Proposed) Disposal to CHWTSDF at Talaja.																																																																		
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proposed activity). Please indicate the specific section to which the stack is attached.e.g.: Process section, D.G.Set, Boiler, Power Plant,incinerator etc. Emission rate (kg/hr.) for each pollutant (SPM, SO ₂ , NO _x ,etc. should be specified	Hr)							
	Boiler (8 MT/Hr)	2	35	1.145	Proposed	130		
	Scrubber	1	3 mtr above Building ht.	0.6	Existing	32		
	Scrubber	2	2.5 mtr above Building ht.	0.3	Existing	32		
	Scrubber	3	2.5 mtr above Building ht.	0.6	Existing	32		
	Scrubber	4	2.5 mtr above Building ht.	0.2	Existing	32		
	Scrubber	5	4 mtr above Building ht.	0.5	Proposed	32		
	Scrubber	6	4 mtr above Building ht.	1.1	Proposed	32		
	Scrubber	7	4 mtr above Building ht.	1.1	Proposed	32		
	DG Set	1	14.47 mtr above Building ht.	0.15	Proposed	142		
26	Details of Fuel to be used:	Sr. No.	Fuel	Daily Consumption (TPD/KLD)		Calorific value (kcal / kg)	% Ash	% Sulphur
				Existing	Proposed			
		1	Coal	2.60	29.6	4500	33	0.5
1	Disel	150 lit/D	670 lit/D	10,000	0.03 % - 0.07 %	1.8 %		
#Source of Coal—Both Imported & Local -- local vendor								
#Mode of transportation of fuel to site: By Road								
27	Energy	Power supply: MSEDCL						
		Existing power demand: 940 KVA Proposed power demand: 2000 KVA Total power demand : 2940 KVA						

		DG sets : Number and capacity DG sets = 2 x 750 KVA proposed Details of the non-conventional renewable energy proposed to be used : Nil			
28	Green Belt Development	Existing : 5234.202 m ² Proposed : 188.0 m ² Total : 5422.3 m ²			
29	Details of Pollution Control Systems	Sr. no	Components	Existing	Proposed to be installed
		1	Air	Stack attached to boilers with sufficient height of 35 meters.	Stack height of 35 meter will be provided for Boiler. Cyclone followed by Bag filter will be provided for the flue gases generated due to the boiler operation.
				1) 1 X 1000 CFM – Plant 1 (For H ₂ SO ₄ & HNO ₃ Fumes) 2) 1 X 800 CFM -- Plant 2 (For HCl & SO ₂) 3) 1 X 1000 CFM – Plant 3 (For Fugitive emissions) 4) 1 X Ventuari Scrubber – Plant 4 (For H ₂ SO ₄ & HNO ₃ Fumes)	3 additional scrubbers will be installed.
			Water	ETP Capacity : 150 CMD,	1) MEE of 125 CMD capacity for treatment of high COD effluent + RO Reject. 2) Two Stage RO of 10m ³ /hr flow for treatment of Blowdowns & MEE condensate 3) Existing ETP of 150 CMD will be utilized for treatment of LCOD effluent.
			Noise	Green Belt	Acoustic enclosure for DG & development of green belt.
	Solid	Membership with Taloja CHWTSDF	Same facility will be used.		

30	Environmental Management plan O&M cost (With break up) : Budgetary Allocation	Sr. No.	Particular	Recurring Cost per annum (Rs.Lacs)	Capital Cost (Rs.Lacs)				
		1	Air Pollution Control	18	90				
		2	Water Pollution Control	92	460				
		3	Noise Pollution Control	2.4	12				
		4	Solid waste management	5.0	-				
		5.	Environment Monitoring	2	3				
		6	Occupational Health	1.6	8				
		7	Green Belt	0.5	2.15				
			Total	121.5	575.15				
31	EIA Submitted (If yes then submit the salient features)	Yes, EIA submitted on 31/03/2016 to SEAC-I							
32	Storage of chemicals (inflammable/explosive/hazardous/toxic substances)								
	Sr. no.	Name	Number of storages Tanks / tonners	Storage Capacity of each tank / tonner	Physical and Chemical composition	consumption (in TPD)	Maximum Qty. of storage at any point of time	Source of supply	Means of transportation
	1	Methanol	2	25 KL	Liquid	16.7	40	Local	By Road
	2	Toluene	1	25 KL	Liquid	1.33	20	Local	By Road
	3	Acetone	1	25 KL	Liquid	0.33	20	Local	By Road
	4	Xylene	1	25 KL	Liquid	-	20	Local	By Road
	5	Hexane	1	25 KL	Liquid	0.2	20	Local	By Road
	6	Cyclohexane	1	25 KL	Liquid	0.066	20	Local	By Road
	7	HSD	1	25 KL	Liquid	0.67	20	Local	By Road
	8	Chlorine	10	900 kg	Gas	4.5	9	Local	By Road
	9	Sulphur dioxide	10	900 kg	Gas	5.83	9	Local	By Road
10	Ammonia	7	60 kg	Gas	10	4.2	Local	By Road	

"Annexure 13.1"

List of Vendors

Sr. No	Company name of Vendor	Company registered address	By product to be sold
1	Vidisha Enterprises	Unit No-8, Waman Patil Industrial Estate, Waman Patil Marg, Chembur, (Near Duke'S Soda Factory), Chembur, Mumbai, Maharashtra 400071	Spent Acid
2	Shree Pushkar petro products Ltd.	202, A Wing, Building No 3, Rahul Mittal Industrial Estate, Sir M V Road, Andheri East, Mumbai - 400059	Spent Acid
3	Basant Agro tech (I) Ltd.	A 1/3, Sea Lord, P Pethe Marg, Cuffe Parade, Cuffe Parade, Mumbai, Maharashtra 400005	Spent Acid
4	Thakkar Organics Pvt. Ltd.	201, 2nd Floor, Durga Niwas, Maharshi Karve Rd, Off Ram Maruti Road, Naupada, Thane(W) Thane, Maharashtra, India	Spent Acid
5	Mayur Chemicals	Plot No : A-724, TTC Industrial Area, MIDC Mahape, Thane Belapur Road, New Mumbai.	Mix Solvents

"Annexure 13.2"

Existing Scrubber Details				
Application	Plant 1 - NIPA For H ₂ SO ₄ , HNO ₃ Fumes	Plant 2- for HCl and Sulphur Dioxide	Plant 3 - Fugitive	Plant 3 - Acid Plant for H ₂ SO ₄ , HNO ₃ fumes
Capacity	1000 ltr	500 ltr	1000 ltr	300 ltr
MOC	PPFRP, Packed column	PPFRP, Packed column	PPFRP, Packed column	SS-316
Absorption Media	Caustic Solution	Caustic Solution	Caustic Solution	Caustic Solution
Pump	3m ³ /hr. 10m head	3m ³ /hr. 20m head	3m ³ /hr. 20m head	3m ³ /hr. 20m head
MOC of Pump	PP	PP	PVDF	PVDF
Exhaust Blower	1000 CFM, PPFRP 3 HP motor, 75-100mm wc	800 CFM, PPFRP 3 HP motor	1000 CFM, PVDF 3HP motor, 75-100mm wc	Ventury scrubber
Scrubber Size	Capacity - 70 kg/hr	Capacity - 70 kg/hr	Capacity - 70 kg/hr	Capacity - 70 kg/hr

	Dia - 600 mm Height - 3 mtr Packed bed - 500mm PPFRP	Dia - 300 mm Height - 2.5 mtr Packed bed cum ventury - 300mm PPFRP	Dia - 600 mm Height - 2.5 mtr Packed bed - 500mm PPFRP	Dia - 200 mm Height - 2.5 mtr Packed bed cum Ventury Scrubber - 300mm SS-316
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Active Pharmaceutical Ingredients

	Name of Products	Existing MT/M	Proposed MT/M	Total MT/M
1	Sulfasalazine	---	8.0	8.0
2	Hydrochlorothiazide	5.0	---	5.0
3	Diatrizoic Acid	10.0	---	10.0
4	Iohexol	5.0	---	5.0
5	Iopamidol	4.0	---	4.0
6	Iothalamic Acid	4.0	---	4.0
7	Sucralose	2.0	---	2.0
8	Metformin Hydrochloride	---	167.0	167.0
9	Amlodipine Besylate	---	3.0	3.0
10	Saccharin & its Salts	---	250.0	250.0
11	Docusate Sodium, its salts and suspension	---	67.0	67.0

Veterinary Products

	Name of Products	Existing in	Proposed in	Total in
1	Albendazole	2.0	---	2.0
2	Chlorpheniramine	2.0	---	2.0
3	Rafoxanide BP (VET)	2.0	---	2.0
4	Levamisole Hydrochloride IP	2.0	---	2.0

Isophthalic & Derivatives

	Name of Products	Existing in	Proposed in	Total in
1	5-Nitroisophthalic Acid	100.0	100.0	200.0
2	5-Nitroisophthalic Acid Dimethyl Ester	90.0	60	150.0
3	5-Nitroisophthalic Acid Monomethyl Ester	20.0	---	20.0
4	5-Aminoisophthalic Acid	5.0	---	5.0
5	5-Amino-2,4,6-Triiodoisophthalic Acid	20.0	---	20.0
6	Sodium-5-Nitroisophthalic Acid Monomethyl Ester	5.0	---	5.0
7	5-Hydroxy Isophthalic Acid	40.0	---	40.0
8	5- Nitro-N-Methyl isophthalamic acid	20.0	---	20.0
9	1,4,7,10tetraazacyclododecane-1,4,5,10- tetraacetic acid (DOTA)	---	6.0	6.0
10	5-Amino-2,4,6-triiodoisophthalic acid Dichloride	---	20.0	20.0
11	5-Amino-N,N'-bis(2,3 dihydroxypropyl) 2,4,6-Triiodoisophthalamide	---	10.0	10.0

12	5-Acetylamino-N,N'-bis(2,3 dihydroxypropyl)-2,4,6-Triodoisophthalamide	---	10.0	10.0
13	5-Amino N,N'-Bis(2,3-Dihydroxypropyl)isophthalamideHCl [ABA.HCl]	---	150.0	150.0
14	(+)-O,O'-Di-p-Toluoyl-D-tartaric acid salts; resolving agents	---	3.3	3.3
Sulfonyl Amides & Chlorides				
	Name of Products	Existing in	Proposed in	Total in
1	2-Aminobenzenesulfonamide	1.0	---	1.0
2	4-Carboxybenzenesulfonamide	0.5	---	0.5
3	5-Chloroaniline-2,4-Disulfonamide	30.0	---	30.0
Other Products				
	Name of Products	Existing in	Proposed in	Total in
1	2-Amino-1,3-Propanediol (Serinol)	20.0	---	20.0
2	3-Amino-1,2-Propanediol (Isoserinol)	45.0	50.0	95.0
3	3-(Methylamino)-1,2-Propanediol	8.0	---	8.0
4	4-Sulfobenzoic Acid Potassium Salt	3.0	---	3.0
5	5-Cyanophthalide	2.0	---	2.0
6	Methyl Anthranilate	---	250.0	250.0
7	4-(Acetyl amino)benzoic acid-1-(dimethylamino)propane-2-ol	---	5.0	5.0
8	4-Nitrophenoxamine	---	5.0	5.0
Inorganic Chemicals				
	Name of Products	Existing	Proposed	Total in
1.	Copper Salts	-	10.0	10.0
	R & D Products	---	5.0	5.0
	Total (MT/M)	447.5	1179.3	1626.8

By products

By Products				
Sr. No	Name of By Product	Existing MT/M	Proposed MT/M	Total MT/M
1.	Spent Mix Solvents	0.0	84.0	84.0
2.	Spent Sulphuric Acid	129.0	129.0	258.0
3.	Sodium Salts	45.0	74.1	119.1
	Total	174	287.1	461.1

3. The proposal has been considered by SEIAA in its 103rd meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact

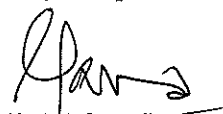
Assessment Notification, 2006 subject to implementation of the following terms and conditions:

General Conditions for Pre- construction phase: -

- (i) This environment clearance is issued subject to proposed expansion will not entail any excess treated effluent load on the CETP other than permissible 92.7 KLD.
- (ii) No excess treated effluent will be discharged to CETP
- (iii) Project Proponent to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
- (iv) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (v) PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
- (vi) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (vii) Proper Housekeeping programmers shall be implemented.
- (viii) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
- (ix) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
- (x) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (xi) Arrangement shall be made that effluent and storm water does not get mixed.
- (xii) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- (xiii) Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- (xiv) The overall noise levels in and around the plant are 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 confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
- (xv) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xvi) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.

- (xvii) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xviii) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xix) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (xx) The company shall undertake following Waste Minimization Measures:
- Metering of quantities of active ingredients to minimize waste.
 - Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
 - Maximizing Recoveries.
 - Use of automated material transfer system to minimize spillage.
- (xxi) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xxii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxiii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
- (xxiv) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://ec.maharashtra.gov.in>
- (xxv) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
- (xxvi) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xxvii) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

- (xxviii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
- (xxix) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.
 5. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
 6. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 7 years as per MoEF & CC Notification dated 29th April, 2015 to start of production operations.
 7. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
 8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
 9. Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


(S. M. Gavai)

Member Secretary, SEIAA.

Copy to:

1. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune - 411014. .
2. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
3. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.

4. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
5. Regional Office, MPCB, Thane.
6. Collector, Thane
7. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
8. Select file (TC-3)

(EC uploaded on)