STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date:August 7, 2018

To,
Mr. Mohan Shinde - Director
at Plot No. K-6, Additional Mahad Industrial Area, Taluka Mahad, District Raigad, Maharashtra.

Subject: Environment Clearance for M/s. Pratap Organics Pvt. Ltd. at Plot No. K-6, Additional Mahad Industrial Area, Taluka Mahad, District Raigad, Maharashtra.

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 150th (Day 1) th meeting and 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 134th meetings.

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

Brief Information of the project submitted by you is as below :-

1.Name of Project	Manufacturing of Pharma Intermediates
2.Type of institution	Private
3.Name of Project Proponent	Mr. Mohan Shinde - Director
4.Name of Consultant	Green Circle, Inc.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot No. K-6, Additional Mahad Industrial Area, Taluka Mahad, District Raigad, Maharashtra.
9.Taluka	Mahad
10.Village	Kalij
Correspondence Name:	Mr. Mohan Shinde
Room Number:	Plot No. C-481/4,5&6,
Floor:	NA
Building Name:	M/s. Pratap Organics Pvt. Ltd.
Road/Street Name:	MIDC land, TTC Industrial area, Thane-Belapur road
Locality:	Pawane Village, MIDC
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	Additional Maharashtra Industrial Development Corporation (MIDC) Mahad
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 00

13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	40002
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**FSI area (sq. m.):** Not applicable
	Non FSI area (sq. m.): Not applicable
	Total BUA area (sq. m.): 00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	135000000

22.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Hydrocarbons and their derivatives	-	50	50
2	Ketones, Aldehydes, Acetals and their derivativesv	-	50	50
3	Amines and their derivatives	-	50	50
4	Phenols, alcohols and their derivatives	-	50	50
5	Acids and their derivatives	-	50	50
6	Heterocycles	-	50	50
7	Various Acids (By-Product)	-	166.666	166.666
8	Aluminum Chloride solution (By- Product)	-	441.66	441.66
9	Ketone Isomers (By-Product)	-	14.166	14.166
10	Distilled Solvent (By-Product)	-	133.33	133.33
11	Sodium Bromide Solution (By- Product)	-	250	250

23.Total Water Requirement

Dry season:	**Source of water**	MIDC water supply/Tanker water
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	MIDC water supply/Tanker water
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	4	4	0	0.8	0.8	0	3.2	3.2
Industrial Process	0	60	60	0	1.2	1.2	0	58.8	58.8
Gardening	0	4	4	0	4	4	0	0	0
Cooling tower & thermopack	0	27	27	0	21.52	21.52	0	5.48	5.48
Fresh water requirement	0	95	95	-	-	-	-	-	-

25.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5.0 to 6.0 m bgl
	Size and no of RWH tank(s) and Quantity:	1 tank x 300 m3
	Location of the RWH tank(s):	UG
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 6 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.5 Lakhs
	Details of UGT tanks if any :	Water storage: 1 No. x 300 m3 firewater tank and 1 No. x 300 m3 water tank Solvent storage tanks: 8 Nos. x 16 KL Solvents to be stored - Benzene, Methanol, Isopropyl alcohol, Toluene, Methylene dichloride

26.Storm water drainage	**Natural water drainage pattern:**	The industry is located in Mahad MIDC area where all the facilities are available by MIDC. The land is having gentle slope.
	Quantity of storm water:	0.148 m3/sec
	Size of SWD:	2.5 m x 1.5 m

27.Sewage and Waste water	**Sewage generation in KLD:**	3.2
	STP technology:	Soak pit
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris, Waste concrete, metallic waste, plastics, broken bricks etc.
	Disposal of the construction waste debris:	Construction debris, Waste concrete and broken bricks will be utilized in low-land leveling, secondary concrete, below roads. Some quantity of Excavation soil will be use for back-filling and remaining will be hand over to authorized vendor.
Waste generation in the operation Phase:	**Dry waste:**	Empty drums, Carboys, Paper waste, Empty bags etc.
	Wet waste:	Hazardous wet waste like ETP Sludge etc.
	Hazardous waste:	Used oil, Spent catalyst, Distillation residue, Used drums and ETP Sludge, Used Filters/ Filters Cloths and Materials etc.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Sale to authorized vendors/Recyclers
	Wet waste:	Sent to the CHWTSDF site
	Hazardous waste:	Sale to MPCB approved vendors/Sent to CHWTSDF
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Near ETP area
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

29.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4 – 5	5.5 – 9	5.5 – 9
2	COD	mg/L	1000 – 1200	Less Than 250	250 mg/L
3	BOD	mg/L	30 – 40	Less Than 30	30 mg/L
4	NH4+ - N	mg/L	50-100	Less Than 50	50 mg/L
5	Oil & Grease	mg/L	5 – 10	Less Than 10	10 mg/L
6	TDS	mg/L	1500 - 2000	Less Than 2000	2100 mg/L

Amount of effluent generation (CMD):	64.28
Capacity of the ETP:	75 KLD
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	64.28 KLD
Membership of CETP (if require):	Membership of CETP will be obtained after getting environmental Clearance.
Note on ETP technology to be used	Conventional ASP treatment
Disposal of the ETP sludge	Sent to CHWTSDF site for disposal

30.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Distilled residues	28.1	MTPA	NA	25	25	Will be sold to MPCB approved dealer
2	Used Drums	33.1	Nos./year	NA	2000	2000	Will be sold to MPCB Approved recycler/processor
3	ETP Sludge	35.3	MTPA	NA	25	25	Will be disposed to CHWTSDF
4	Used Filters/ Filters Cloths and Materials	35.1	MTPA	NA	4	4	Will be disposed to CHWTSDF
5	Spent Catalyst	28.2	MTPA	NA	30	30	Will be sold to MPCB Approved dealer
6	Used Oil	5.1	L/year	NA	200	200	Will be sold to MPCB authorized vendor

31.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler & 2 Nos. x 3 TPH	FO – 420 kg/ Hr	1	35	1.0	220°C
2	Thermic Fluid Heater & 4 Nos. x 10 lakh kCal/hr	FO – 520 kg/hr	2	35	1.0	220°C
3	D G Set & 2 Nos. x 500 KVA	Diesel – 45 L/hr each	3 & 4	Separate stack of 5 m above building height	0.350	100 °C
4	Common gas vent scrubber & 1000 CFM	NA	5	5	0.450	Ambient
5	HCL Gas Absorber & 200 Kg/hr	NA	6	5	0.350	Ambient

32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	-	45 L/hr each DG Set of 500 KVA	45 L/hr each DG Set of 500 KVA
2	Furnace Oil	-	940 kg/hr	940 kg/hr
33.Source of Fuel		Local Market		
34.Mode of Transportation of fuel to site		Road Transport		

35.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	500 KVA
	DG set as Power back-up during construction phase	2 Nos. x 500 KVA
	During Operation phase (Connected load):	2000 KVA
	During Operation phase (Demand load):	2000 KVA
	Transformer:	500 KVA
	DG set as Power back-up during operation phase:	2 Nos. x 500 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

Energy saving by non-conventional method:

? Purchase of energy efficient appliances.
? Constant monitoring of energy consumption and defining targets for energy conservation.
? Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort levels.
? Condensate will be recovered and will send back to boiler.
? Proper temperature controls will be provided to reduce load on heating systems.
? Proper load factor will be maintained by the company.
? Company will adopt good maintenance practices and will maintain good housekeeping which will help in better illumination levels with least number of fixtures.
? On most of roofs transparent acrylic sheets will be provided to use day light and to stop use of lights during day time.
? LED lamps will be provided, wherever applicable.
? To the extent possible and technically feasible, energy efficient equipment will be selected.
? Gravity flow will be preferred wherever possible to save pumping energy.
? Recycling of water will done.

36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air emission - Process vents & flue gas stacks	NA	Adequate Stack Height will be provided for Flue gas and Scrubber will be provided for process gaseous emissions
Wastewater - Domestic use & Industrial Use	NA	Sewage will be disposed off into soakpit & Industrial effluent will be treated into ETP & treated waste water shall be sent to CETP for the further treatment

Noise - Process area, ETP area, Boiler area	NA	The Boiler would be kept in an isolated area to have the ambient noise level as per CPCB standards. The workers would be provided with proper personal protective equipment (PPE) such as ear plugs, ear muffs etc. The DG sets would be enclosed in canopy as well as silencer.
Solid Waste	NA	Sale/ disposal to CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

38.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust suppression	Water sprinkling, dust mask	1.0
2	Green Belt development	Tree plantation	1.5
3	Solid waste management facility	Solid waste collection and disposal facility	1.5
4	Environment Monitoring	Monitoring charges of Air, water, noise	0.5
5	Occupational Health	Health check-up, PPEs	0.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Stacks for Boiler, Thermic fluid heater	5.0	1.25
2	Water Pollution Control	ETP	20.0	7.0
3	Noise Pollution Control	Acoustic enclousers	2.0	0.75
4	Environment Monitoring and Management	Environmental Monitoring of Air, water, noise	-	0.5
5	Occupational Health	Health Check-up of workers, Provision of First-aid medical facility, Provision of PPEs to workers	3.0	1.0
6	Rain Water Harvesting	Construction work for RWH tanks	6.0	0.5
7	Green Belt	Development of trees, Green area	2.0	1.0
8	Solid waste management	Disposal System for Solid waste and Membership from CHWTSDF	1.5	0.5
9	CSR Activity	CSR works	10.0	-

39.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Benzene	Liquid	Tank - SS	16	16	35	Local Market	Road Transport
Benzyl Chloride	Liquid	Drum - HDPE	20	NA	47	Local Market	Road Transport
Aluminum Chloride	Liquid	Drum - HDPE	5	2	1.5	Local Market	Road Transport
Acid	Liquid	Tank - HDPE	20	20	1.5	Local Market	Road Transport
Ester	Liquid	Drum - HDPE	15	NA	30.6	Local Market	Road Transport
Bromine	Liquid	Bottle - Glass	5	NA	57	Local Market	Road Transport
Alcohol	Liquid	Tank - SS	16	16	110	Local Market	Road Transport
Caustic	Solid	Bags	15	5	27.8	Local Market	Road Transport
Benzophenone	Solid	Bags	20	2	54.4	Local Market	Road Transport
Ammonium formate	Solid	Bags	5	NA	95.6	Local Market	Road Transport
Acid	Liquid	Tank - HDPE	20	20	150	Local Market	Road Transport
4-Chlorobenzophenone	Solid	Drum - HDPE	10	5	50	Local Market	Road Transport
Sodium Borohydride	Solid	Drum - HDPE	2	1	2.75	Local Market	Road Transport
Methanol	Liquid	Tank - SS	16	16	45	Local Market	Road Transport
Benzene	Liquid	Tank - SS	16	16	50	Local Market	Road Transport
y-Butyrolactone	Liquid	Drum - HDPE	5	NA	35	Local Market	Road Transport
Aluminum Chloride	Solid	Drum - HDPE	5	2	73.5	Local Market	Road Transport
Acid	Liquid	Tank - HDPE	20	20	52.4	Local Market	Road Transport
Cetz 3	Liquid	Drum - HDPE	5	3	44	Local Market	Road Transport
Piperazine	Solid	Drums - Fibre board	5	2	67.25	Local Market	Road Transport
Solvent (T)	Liquid	Tank - SS	20	20	136.4	Local Market	Road Transport
Acid	Liquid	Drum - HDPE	5	2	22.8	Local Market	Road Transport
NaOH	Solid	Bags	15	15	17.5	Local Market	Road Transport

40.Any Other Information

No Information Available

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	'B' Category, schedule 5(f)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

3. The proposal has been considered by SEIAA in its 134th 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:

Specific Conditions:

I	PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.

General Conditions:

I	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
II	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
IV	Proper Housekeeping programmers shall be implemented.
V	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.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
VIII	Arrangement shall be made that effluent and storm water does not get mixed.
IX	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.
X	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.
XI	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.
XII	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.
XIII	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.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.

XV	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVI	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.
XVII	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.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XIX	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
XX	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
XXI	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.
XXII	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.
XXIII	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, NOx (ambient levels as well as stack emissions) or critical sectorai 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.
XXIV	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.
XXV	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. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or 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.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

8. 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.

9. 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.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune),New Administrative Building, 1stFloor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Shri. Anil Diggikar (Member Secretary SEIAA)

Copy to:

1. SECRETARY MOEF & CC

2. IA- DIVISION MOEF & CC

3. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI

4. REGIONAL OFFICE MOEF & CC NAGPUR

5. REGIONAL OFFICE MPCB RAIGAD

6. REGIONAL OFFICE MIDC RAIGAD

7. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD

8. COLLECTOR OFFICE RAIGAD