



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date: August 9, 2017

To,
Mr. Uttam Kulkarni
at A-34/35 MIDC Kurkumbh, Tehsil-Daund, District- Pune, Maharashtra.

Subject: Environment Clearance for Industrial Project- Synthetic Organic Chemical Manufacturing unit

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 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 112th meetings.

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

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

1.Name of Project	M/s. Kulkarni Organics Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Uttam Kulkarni
4.Name of Consultant	SGM corporate Consultants Pvt Ltd, Pune
5.Type of project	Industrial Project
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	Not Applicable
8.Location of the project	A-34/35 MIDC Kurkumbh, Tehsil-Daund, District- Pune, Maharashtra.
9.Taluka	Daund
10.Village	Kurkumbh
11.Area of the project	In MIDC Area (MIDC Kurkumbh)
12.IOD/IOA/Concession/Plan Approval Number	MIDC plot possession letter has been obtained IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area: 1011.858
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	3835.00 sq. m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.): Not applicable

SEIAA Meeting No: 112 Meeting Date: July 27, 2017 (SEIAA-STATEMENT-0000000373)
SEIAA-MINUTES-0000000215
SEIAA-EC-0000000163

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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	13000000



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Secretary SEIAA)

22.Production Details				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	2-(2-Chloro Ethoxy) Acetamide	0	0.25	0.25
2	4-Nitro Phenyl Ethyl Amine HCL	0	0.10	0.10
3	5-Methyl Nicotinic Acid	0	0.10	0.10
23.Total Water Requirement				
Dry season:	Source of water	MIDC Kurkumbh		
	Fresh water (CMD):	7.04		
	Recycled water - Flushing (CMD):	0		
	Recycled water - Gardening (CMD):	0		
	Swimming pool make up (Cum):	Not applicable		
	Total Water Requirement (CMD) :	7.04		
	Fire fighting - Underground water tank(CMD):	60		
	Fire fighting - Overhead water tank(CMD):	5		
	Excess treated water	1		
Wet season:	Source of water	MIDC Kurkumbh		
	Fresh water (CMD):	7.04		
	Recycled water - Flushing (CMD):	0		
	Recycled water - Gardening (CMD):	0		
	Swimming pool make up (Cum):	Not applicable		
	Total Water Requirement (CMD) :	7.04		
	Fire fighting - Underground water tank(CMD):	60		
	Fire fighting - Overhead water tank(CMD):	5		
	Excess treated water	1		
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	0.54	0.54	0	0.10	0.10	0	0.43	0.43
Industrial Process	0	4	4	0	0.1	0.1	0	3.9	3.9
Cooling tower & thermopack	0	1.5	1.5	0	1.5	1.5	0	0	0
Gardening	0	1	1	0	1	1	0	0	0

25.Rain Water Harvesting (RWH)

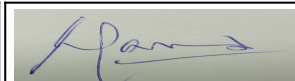
Level of the Ground water table:	80-90 m
Size and no of RWH tank(s) and Quantity:	25 Cum, 1 No
Location of the RWH tank(s):	Ground
Quantity of recharge pits:	Not Applicable
Size of recharge pits :	Not Applicable
Budgetary allocation (Capital cost) :	3 Lacs
Budgetary allocation (O & M cost) :	0.5 Lacs
Details of UGT tanks if any :	Not Applicable

26.Storm water drainage

Natural water drainage pattern:	Through MIDC drain
Quantity of storm water:	7.09 Cum/sec
Size of SWD:	200 x 300 mm

27.Sewage and Waste water

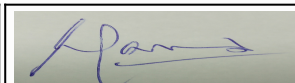
Sewage generation in KLD:	0.43
STP technology:	Primary Treatment
Capacity of STP (CMD):	1 STP of 1 CMD
Location & area of the STP:	Ground
Budgetary allocation (Capital cost):	1.5 Lacs
Budgetary allocation (O & M cost):	0.5 Lacs/Annum



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28.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	Dry waste:	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	i) ETP – sludge: 0.15 TPM ii) Residues & MEE bottom waste: 0.25 TPM
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Mode of Disposal of waste:	Dry waste:	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Hazardous waste will be Sent to CHWTSDF
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as Manure
	Others if any:	Not Applicable
Area requirement:	Location(s):	On Ground
	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Not Applicable
	O & M cost:	Not Applicable

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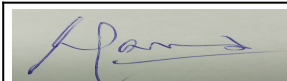
29.Effluent Charecterestics					
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6.2	7.5	5.5-8.5
2	BOD	mg/lit	1500	<100	100
3	COD	mg/lit	5000	<250	250
4	TDS	mg/lit	5000	<100	100
Amount of effluent generation (CMD):		3.9			
Capacity of the ETP:		10			
Amount of treated effluent recycled :		2			
Amount of water send to the CETP:		NIL. Zero Liquid Discharge will achieved by the Industry.			
Membership of CETP (if require):		PP has obtained membership letter from CETP			
Note on ETP technology to be used		The ETP will comprise of Oil & Grease Trap, Collection cum Neutralization Tank, Primary Settling Tank, Aeration Tank, Secondary Settling Tank and Pressure Sand Filter. Multi Effect Evaporator of capacity of 2.5 M3/Day will be installed and Zero Liquid Discharge will be achieved.			
Disposal of the ETP sludge		ETP sludge & Bottom solid waste from MEE will be sent to CHWTSDF.			



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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	33.2	TPM	0	0.15	0.15	CHWTSDF
2	Residues & MEE bottom waste	31.1	TPM	0	0.25	0.25	CHWTSDF
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	DG set	HSD - 6 litre/hr	1	3	0.1	75 degrees	
2	LDO Boiler stack	LDO - 16 lit/hr	2	12	0.4	150 degrees	
3	Agro waste/Solid Fuel Boiler stack	Agro waste/Solid Fuel- 40 Kgs/Hr	3	18	0.6m at ground level & 0.4 m at top level	170 degrees	
32.Details of Fuel to be used							
Serial Number	Type of Fuel	Existing		Proposed		Total	
1	LDO	0		16 lit/hr		16 lit/hr	
2	HSD	0		6 Lit/hr		6 Lit/hr	
3	Agrowaste/Solid Fuel	0		40 Kgs/Hr		40 Kgs/Hr	
33.Source of Fuel		Local Vendor					
34.Mode of Transportation of fuel to site		By Road					
35.Energy							

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Power requirement:	Source of power supply :	MSEB
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	60HP
	During Operation phase (Demand load):	80 HP
	Transformer:	Not Applicable
	DG set as Power back-up during operation phase:	Total No 1 X 30 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

Energy saving by non-conventional method:

Solar for plant illumination

36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar for plant illumination	10 Tubes

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Not Applicable	Dust Collector
Water	Not Applicable	ETP & STP
Noise	Not Applicable	Acoustic enclosure
Solid Waste	Not Applicable	CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	10.0 lacs
	O & M cost:	2.0 lacs

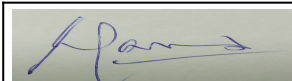
38.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Not Applicable	Not Applicable	Not Applicable

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	Air Pollution Control	3.0	1.0



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2	Water	Water Pollution Control	26.0	2.5
3	Noise	Noise Pollution Control	2.0	0.5
4	Environment Monitoring	Environment Monitoring	-	0.5
5	Occupational Health	Occupational Health	2.0	0.5
6	Green Belt	Green Belt	1.0	0.5
7	Rain Water Harvesting	Rain Water Harvesting	3.0	0.5
8	Solid waste management	Solid waste management	1.0	0.5
9	Solar for plant illumination	Solar for plant illumination	10.0	2.0

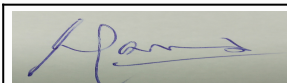
39.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

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
Storage of chemicals	Separate Storage facility in the industrial area.	Separate Storage facility in the industrial area.	-	-	-	Local Vendor	By Road

40.Any Other Information

No Information Available

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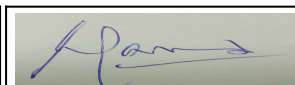
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	5 (f)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	<p>Zero Liquid Discharge:</p> <p>Kulkarni Organics Pvt Ltd will generate 3.9 CMD of Effluent per day. Out of which 1.25 CMD is not exactly effluent. It consists of reactor washings, floor washings and final washing of materials in centrifuge. 1.25 CMD of water will be used in cooling tower attached to MultiEffect Evaporator.</p> <p>Kulkarni Organics Pvt Ltd is setting up 2.5 CMD capacity MultiEffect Evaporator near boiler house along with solid fuel boiler (Agrowaste/Coal) of 600 Kgs/hr capacity.</p> <p>The whole system consist of above and 7.5 HP Jet Ejector, Cooling Tower, Pumps, Centrifuge & Tanks required for effluent storage and distilled water storage.</p> <p>MultiEffect Evaporator is operated about 12 hours per day and all the effluent is evaporated using steam, vacuum, cooling tower and finally thick mass will be centrifuged. Solids will be collected and sent to Maharashtra Environ Power Ltd. and liquid is recirculated in MultiEffect Evaporator.</p>
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

3. The proposal has been considered by SEIAA in its 112th 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:

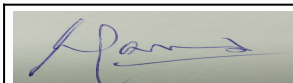
Specific Conditions:

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	73 TPH boiler should have stack height of 68m and flue gases shall be passed through an ESP of 99.9% efficiency before being led into the 68 m stack.
III	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
IV	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
V	Proper Housekeeping programmers shall be implemented.
VI	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.
VII	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VIII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
IX	Arrangement shall be made that effluent and storm water does not get mixed.



X	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.
XI	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.
XII	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.
XIII	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.
XIV	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.
XV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
XVI	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVII	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.
XVIII	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.
XIX	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XX	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
XXI	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
XXII	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.
XXIII	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.
XXIV	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, SO ₂ , 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.
XXV	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.
XXVI	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, 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.

Shri Satish.M.Gavai (Member Secretary SEIAA)

Copy to:

1. SHRI ANAND. B. KULKARNI, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI JOHNY JOSEPH, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. MUNICIPAL COMMISSIONER PUNE
10. MUNICIPAL COMMISSIONER SATARA
11. REGIONAL OFFICE MPCB PUNE
12. REGIONAL OFFICE MIDC PUNE
13. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
14. COLLECTOR OFFICE PUNE
15. COLLECTOR OFFICE SATARA
16. COLLECTOR OFFICE SOLAPUR