



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date:February 16, 2018

To,
Clean Science & Technology Pvt. Ltd.
at Plot No. D-26/3, MIDC Kurkumbh

Subject: Environment Clearance for Proposed Synthetic Organic Chemical Plant at D-26/3, MIDC Kurkumbh, Taluka Daund, District Pune-MS

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 139th 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 114th meetings.

2. It is noted that the proposal is considered by SEAC-I under screening category Item 5 (f) as per EIA Notification, 14th September 2006 as per EIA Notification 2006.

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

1.Name of Project	Proposed Synthetic Organic Chemical Plant at D-26/3, MIDC Kurkumbh, Taluka Daund, District Pune-MS
2.Type of institution	Private
3.Name of Project Proponent	Clean Science & Technology Pvt. Ltd.
4.Name of Consultant	SMS Envocare Ltd.
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	Not applicable
8.Location of the project	Plot No. D-26/3, MIDC Kurkumbh
9.Taluka	Daund
10.Village	Kurkumbh
11.Area of the project	MIDC Approval
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area: 3932.60
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Approval from Dy. Engineer MIDC Pune
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable

SEIAA Meeting No: 114 Meeting Date: February 2, 2018 (SEIAA-STATEMENT-000000556)
SEIAA-MINUTES-000000254
SEIAA-EC-000000174

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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.): 3932.60
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	700000000



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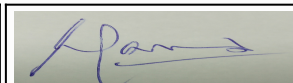
Shri Satish.M.Gavai (Member Secretary SEIAA)

22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Hydroquinone, Catechol & their derivatives	Not Applicable	833.33	833.33
2	Butylated Hydroxy Anisole	Not Applicable	200	200
3	Vanillin & their derivatives	Not Applicable	250	250
4	Anisole & their derivatives	Not Applicable	750	750

23. Total Water Requirement

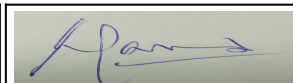
Dry season:	Source of water	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	Source of water	Not applicable
	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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not Applicable	20	20	Not Applicable	04	04	Not Applicable	16	16
Industrial Process	Not Applicable	80	80	Not Applicable	00	00	Not Applicable	80	80
Cooling tower & thermopack	Not Applicable	400	400	Not Applicable	360	360	Not Applicable	40	40
Gardening	Not Applicable	20	20	Not Applicable	20	20	Not Applicable	00	00
Industrial Process	Not Applicable	20	20	Not Applicable	00	00	Not Applicable	00	00

25.Rain Water Harvesting (RWH)	Level of the Ground water table:	Rain water harvesting plan has been incorporated in total plot plan
	Size and no of RWH tank(s) and Quantity:	As above
	Location of the RWH tank(s):	As Above
	Quantity of recharge pits:	As above
	Size of recharge pits :	As above
	Budgetary allocation (Capital cost) :	6.0 Lakhs
	Budgetary allocation (O & M cost) :	2.0 Lakhs
	Details of UGT tanks if any :	Not provided
26.Storm water drainage	Natural water drainage pattern:	Storm water drainage has been provided in the plat layout and shall be provided during implementation of project
	Quantity of storm water:	AS above
	Size of SWD:	As above



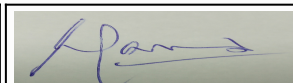
27.Sewage and Waste water	Sewage generation in KLD:	16
	STP technology:	Sewage shall be treated within the ETP
	Capacity of STP (CMD):	Sewage shall be treated within the ETP
	Location & area of the STP:	Sewage shall be treated within the ETP
	Budgetary allocation (Capital cost):	Included in Capital cost of the project
	Budgetary allocation (O & M cost):	Included in Capital cost of the project



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28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Top soil shall be removed for foundation work. Excavated soil shall be stored and will be used for plantation work
	Disposal of the construction waste debris:	AS above
Waste generation in the operation Phase:	Dry waste:	Distillation residues (3 TPM), Packing material & plastic waste (200 Kg/m), ETP sludge (5 TPM), Empty drum (150-200 no/m), Boiler ash (2 MT/d)
	Wet waste:	Effluent shall be generated from the process which shall be treated by ETP
	Hazardous waste:	As per reply no 1
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	ETP sludge 5 TPM
	Others if any:	Not applicable
Mode of Disposal of waste:	Dry waste:	Shall be sent to Authorized waste management unit. Boiler Ash shall be sent to Bricks manufacturers
	Wet waste:	ETP shall be provided with ZLD for final disposal of effluent
	Hazardous waste:	Hazardous waste shall be sent to CHWTSDF, MEPL Ranjangaon, Taluka Shirur, District Pune
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	Location(s):	19193.00 Sq m
	Area for the storage of waste & other material:	Included in above
	Area for machinery:	Included in above
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Included in Capital cost of project
	O & M cost:	Included in Capital cost of project



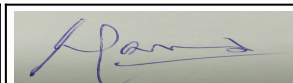
29. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	NA	5	7.98	5.5 to 9.0
2	Total Suspended Solids	mg/l	100	6.0	<200
3	Total Dissolved Solids	mg/l	1500	1856	<2100
4	Chemical oxygen demand (COD)	mg/l	4000	200	<250
5	Biological Oxygen Demand (BOD)	mg/l	1400	65	<100
Amount of effluent generation (CMD):		172			
Capacity of the ETP:		ETP of 250 CMD with ZLD			
Amount of treated effluent recycled :		AS per reply no 1			
Amount of water send to the CETP:		Not applicable as ZLD shall be achieved			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		. ETP will be provided with 250 m3 capacity. Treatment Plant shall be based on Zero Liquid Discharge (ZLD) by adopting Reverse Osmosis (RO Unit) and Multi Effective Evaporators (MEE Unit). Treated Effluent shall be re-circulated in the plant process and excess effluent shall be used for gardening and other non-portable domestic purpose.			
Disposal of the ETP sludge		ETP Sludge shall be sent to CHWTSDF, MEPL Ranjangaon, Pune			

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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Distillation residues	NA	TPM	NA	3	3	Sent to CHWTSDF
2	ETP sludge	NA	TPM	NA	5	5	Sent to 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	Boiler	Coal	1	30.5	1.2	353 k	
2	Thermo pack	Coal	2	30	0.8	353 k	
3	DG Set	HSD	1	5.5	0.2	351 k	
32.Details of Fuel to be used							
Serial Number	Type of Fuel	Existing	Proposed	Total			
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
33.Source of Fuel		Local market					
34.Mode of Transportation of fuel to site		By road transportation					
35.Energy							
Power requirement:	Source of power supply :	MSEDCL supply					
	During Construction Phase: (Demand Load)	Shall be sourced from DG sets					
	DG set as Power back-up during construction phase	Shall be sourced from DG sets					
	During Operation phase (Connected load):	700 KVA					
	During Operation phase (Demand load):	AS above					
	Transformer:	Shall be installed and sourced from MSEDCL supply					
	DG set as Power back-up during operation phase:	750 Kva					
	Fuel used:	HSD					
	Details of high tension line passing through the plot if any:	Not applicable					
Energy saving by non-conventional method:							
Solar panel shall be installed wherever feasible for maximum utilization of Solar energy							
36.Detail calculations & % of saving:							



Serial Number	Energy Conservation Measures	Saving %
1	Solar panel shall be installed wherever feasible for maximum utilization of Solar energy	Solar panel shall be installed wherever feasible for maximum utilization of Solar energy

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution from Process, Boiler and DG sets	Not Applicable	Bag Filter, Mechanical Dust Separator, Proper height of Stack, regular water sprinkling and Green Belt development
Effluent from Process	Not applicable	ETP with ZLD to be provided
Solid & Hazardous waste management	Not applicable	Sent to CHWTSDF and Authorized waste management agency

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Included in Capital cost of the project
	O & M cost:	Included in Capital cost of the project

38.Environmental Management plan Budgetary Allocation

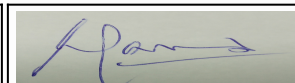
a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Pollution	NA	5 (Included in total EMP cost)
2	Solid waste	NA	2 (Included in total EMP cost)

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	Air Pollution Control	80	5
2	Water Pollution	Water Pollution Control	80	20
3	Environment monitoring Program	Environment monitoring Program	NA	3
4	Rain water	Rain water Harvesting	6	2
5	Occupational Health	Occupational Health & Safety	10	4
6	Ecology & Biodiversity	Green Belt Development	10	6
7	Solid waste	Solid waste management	2	3

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
11 type of Raw material shall be required. All kind of Raw material shall be stored as per MSDS	11 type of Raw material shall be required. All kind of Raw material shall be stored as per MSDS	11 type of Raw material shall be required. All kind of Raw material shall be stored as per MSDS	11 type of Raw material shall be required. All kind of Raw material shall be stored as per MSDS	11 type of Raw material shall be required. All kind of Raw material shall be stored as per MSDS	11 type of Raw material shall be required. All kind of Raw material shall be stored as per MSDS	11 type of Raw material shall be required. All kind of Raw material shall be stored as per MSDS	11 type of Raw material shall be required. All kind of Raw material shall be stored as per MSDS
40. Any Other Information							
No Information Available							



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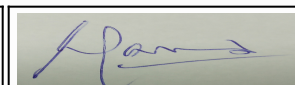
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No any protected area are falling within 10 km radius from the plant site
	Category as per schedule of EIA Notification sheet	Item 5 (f) as per EIA Notification, 14th September 2006
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	31-08-2016

3. The proposal has been considered by SEIAA in its 114th 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:

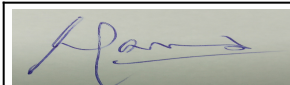
General Conditions:

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.

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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