Government of Maharashtra

SEAC- 2013/CR-197/TC-2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annex,
Mumbai- 400 032.
Dated: 24th March, 2015

To,
Mr. Sanjoy Banerjee.
Address: Plot No. N-45,
Additional M I D C, Anand Nagar,
Ambernath, Thane-421506.

Subject: Environment clearance for proposed project plot no N- 45 Additional MIDC Anand Nagar Ambernath Thane by M/s. Sai fertilizers and Phospates 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 93rd 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 81st 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:

Name of the Project	M/s Sai Fertilizers and Phosphates Pvt. Ltd.
Project Proponent	Name: Mr. Sanjoy Banerjee. Address: Plot No. N-45, Additional M I D C, Anand Nagar, Ambernath, Thane-421506.
Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd.
New Project / Expansion	New Project
Activity schedule in the EIA Notification	Schedule 5 (f) ,Project Category -B
Area Details	Total Plot Area: 16680 sq. m Green Belt Area: 5637 sq. m
Name of the Notified Industrial area / MIDC	Additional MIDC, Ambernath (Notified Industrial Area)
TOR given by SEAC? (If yeas then specify the meeting)	Form 1, Consolidated Statement (C.S), Prefeasibility Report (PFR) and EIA Report have been submitted to SEAC-I on 09/05/2014. The Case has been presented on the basis of the Model ToR at 79th Meeting of the State Level Expert Appraisal Committee-I (SEAC-I - Item No. 27) on 16th May, 2014 and Compliances against the respective points, as raised in the Minutes of the 79th Meeting of SEAC-I held on 15 -16th May, 2014 (Item No.:27) have been Submitted to SEAC – I on

<table>
<tr><td></td><td>12.06.2014. Revised Consolidated Statement, Form-I and Prefeasibility Report along with Compliances against the respective points, as raised in the Minutes of the 79th Meeting of SEAC-I have been Submitted to SEAC – I on 30.06.2014. Compliance Presentation has been done at 82nd Meeting of SEAC-I (Item No. 27) on 4th July, 2014. Compliances against the respective points, as raised in the Minutes of 82nd Meeting of SEAC-I held on 3rd to 5th July, 2014, (Item No.: 27) have been submitted to SEAC-I on 17.12.2014. Revised Consolidated Statement along with Form-I, Prefeasibility Report and Compliances have been submitted to SEAC-I on 29.12.2014 and Compliance Presentation is being carried out at 93rd Meeting of SEAC-I (Item No. 7) on 3rd January, 2015.</td></tr>
<tr><td>Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)</td><td>
<table>
<tr><td>Parameters</td><td>Proposed cost</td></tr>
<tr><td>Land(including site development)</td><td>264.70 Lacs</td></tr>
<tr><td>Factory building</td><td>429.71 Lacs</td></tr>
<tr><td>Plant and Machinery , Equipments</td><td>1599.13 Lacs</td></tr>
<tr><td>Furniture & Fixtures</td><td rowspan="3">292.69 Lacs</td></tr>
<tr><td>Other Immovable Fixed Assets</td></tr>
<tr><td></td></tr>
<tr><td>Total</td><td>2586.23 Lacs</td></tr>
</table>
</td></tr>
<tr><td>Location details of the project :</td><td>☐ Latitude:- 19^0 10' 16.65'' N
☐ Longitude:- 73^0 11' 47.07" E
☐ Location: - N-45, Additional MIDC, Ambernath
☐ Elevation above Mean Sea Level (meters):- 35 m</td></tr>
<tr><td>Rain Water Harvesting(RWH)</td><td>This is a Synthetic Organic Chemicals Manufacturing Plant. Therefore the Project Proponent is not proposing any Ground Water Recharge to avoid any chance of contamination of Ground Water.</td></tr>
<tr><td>Total Water Requirement</td><td>
<table>
<tr><td>Sr.No.</td><td>Category</td><td>Water Consumption (KLD)</td></tr>
<tr><td>1.</td><td>Domestic</td><td>5.0</td></tr>
<tr><td>2.</td><td>Industrial</td><td></td></tr>
<tr><td>a.</td><td>Boiler</td><td>50.0</td></tr>
<tr><td>b.</td><td>D. M. Water Plant</td><td>162.0</td></tr>
<tr><td>c.</td><td>Cooling Tower</td><td>143.0</td></tr>
<tr><td>d.</td><td>Dioxin Reduction System</td><td>5.0</td></tr>
<tr><td>e.</td><td>SO_3 Absorber</td><td>5.0</td></tr>
<tr><td>f.</td><td>Washing & Cleaning</td><td>10.0</td></tr>
<tr><td>g.</td><td>Scrubber</td><td>15.0</td></tr>
<tr><td></td><td>Total Water (Domestic + Industrial)</td><td>395.0</td></tr>
<tr><td>3.</td><td>Gardening</td><td>40.0</td></tr>
<tr><td></td><td>Total</td><td>435.0</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td>Storm water drainage</td><td colspan="5">□□□ Natural water drainage pattern :Yes
□ Size of SWD: 450 mm</td></tr>
<tr><td>Sewage generation and treatment</td><td colspan="5">□ Amount of sewage generation – 04 CMD
□ Proposed treatment for the sewage: Sewage will be treated in ETP along with Industrial Effluent.</td></tr>
<tr><td rowspan="9">Effluent Characteristic</td><td>Sr. no</td><td>Parameters (pH, BOD,COD, Heavy metal. Etc</td><td>Inlet effluent characteristic Mg/L</td><td>Outlet effluent characteristic Mg/L</td><td>Effluent As per for Inland use standard (CPCB)</td></tr>
<tr><td>1</td><td>pH</td><td>2-11</td><td>7 to 8</td><td>5.5 to 9.0</td></tr>
<tr><td>2</td><td>Oil & Grease</td><td>500</td><td><5</td><td>30</td></tr>
<tr><td>3</td><td>Suspended Solid</td><td>1500</td><td><100</td><td>250</td></tr>
<tr><td>5</td><td>COD</td><td>3500</td><td><250</td><td>100</td></tr>
<tr><td>6</td><td>BOD</td><td>500</td><td><100</td><td>10</td></tr>
<tr><td>7.</td><td>Surfactant</td><td>1000 to 2000</td><td>Nil</td><td></td></tr>
<tr><td colspan="5">All the parameters are expressed in Mg/L except pH.</td></tr>
<tr><td>ETP details</td><td colspan="5">□ Proposed effluent quantity : 25 CMD
□ Proposed Capacity of the ETP (CMD): 50 CMD</td></tr>
<tr><td>Disposal of the ETP sludge (If applicable)</td><td colspan="5">ETP sludge will be disposed by CHWTSDF at Taloja.</td></tr>
<tr><td rowspan="3">Solid waste Management</td><td>Sr. no</td><td>Source</td><td>Qty (TPM)</td><td>Form (sludge/Dry/ slurry etc.)</td><td>Composition</td></tr>
<tr><td>1.</td><td>ETP Sludge</td><td>0.66 MT/A</td><td>Dry</td><td>Chemical mass</td></tr>
<tr><td colspan="5">If waste(s) contain any hazardous/toxic substance/radioactive materials or heavy metals then provide quantity, disposal data and proposed precautionary measures.
• Method of disposal of solid waste:
Hazardous waste will be sent to CHWTSDF at Taloja.</td></tr>
<tr><td rowspan="4">Atmospheric Emissions (Flue gas characteristics SPM, SO_2, NO_x, CO, etc.)</td><td>Sr. No</td><td>Pollutant</td><td>Source of emission</td><td>Emission Rate Kg/hr</td><td>Concentration in flue gas gm/m^3</td></tr>
<tr><td>1</td><td>SPM</td><td rowspan="3">Boiler D.G Set & Scrubber</td><td colspan="2" rowspan="3">Proposed Unit</td></tr>
<tr><td>2</td><td>SO_2</td></tr>
<tr><td>3</td><td>NO_X</td></tr>
</table>

Stack emission Details: (All the stacks attached to process units, Boilers, Boilers, Captive power plant, D.G. Sets, Incinerator both for existing and 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	Plant section & units	Stack No.	Height from ground level (M)	Internal diameter (top)(m)	Volumetric Flow Rate	Temp. of exhaust
	Boiler	1	30	0.450 m	7200m³	180°C
	D.G. Set 2 X 500 kVA each (Stand - by)	2	3.0 above the height of the building where D.G. Set will be installed	0.300 m	2500-3000 kg/hr	35 - 40°C
	Reaction Vessel (Process Emission)	1	31	0.600 m	2500-3000 kg/hr.	25^0 - 30^0 C

Emission Standard	Pollutants (SPM,SO_2,ect	Emission standard limit (mg/Nm^3)	Proposed limit (mg/Nm^3)	MPCB consent (mg/Nm^3)
	SPM	150	<150	--
	Acid Mist	35	<35	--
Ambient Air Quality Data	Pollutant	Permissible standard	Proposed concentration (in $\mu g/m^3$)	Remarks
	$PM_{2.5}$	60 $\mu g/m^3$	<60	As per NAAQM limit
	PM_{10}	100 $\mu g/m^3$	<100	
	SO_2	80 $\mu g/m^3$	<80	
	NO_X	80 $\mu g/m^3$	<80	
	NH_3	400 $\mu g/m^3$	<3	

Details of Fuel to be used	Sr. no	Fuel	Daily Consumption (TPD/KLD)	Calorific value (k cal / kg)	% ash	% Sulphur
	1	Diesel	210 L/ Day	10874.76	0.03-0.07	0.05-0.25

				approx.		
	2.	Coal	6 TPD	3582 approx.	4.2 to 5.2	1

□□Source of Coal /Diesel : local vendor
□□Mode of transportation of fuel to site: By Road

Energy	**Power supply: MSEDCL** □ Connected Load: 1250 KVA □ Proposed power demand: 850 KVA **Proposed DG sets** □ Number: 02 □ Capacity: 500KVA X 2 Details of the non-conventional renewable energy proposed to be used: 36 No. Of Streetlight
Green Belt Development	□ Green belt area (Sq. m.): 5637 Sqm. (33.79% of the Total Plot Area) The species of planted Tress are : 250 Shrubs to be planted : 350

Details of Pollution Control Systems	Sr. no	Components	Proposed to be installed
	1	Air	Electrostatic Precipitators Scrubber Bag filter Cyclone Separator
	2	Water	Full fledged ETP of 50 CMD capacity. Separate catch pits for water effluent
	3	Noise	Ear mufflers and ear plugs Acoustic Enclosure for DG sets. Acoustic enclose for process air blower/Regeneration Air blower
	4	Solid waste	Disposal to Authorized common facility

Environmental Management plan plan
□ O&M cost (With break up) :
Budgetary Allocation

□ Total cost of the proposed project: Rs. 2586.23 Lakhs
□ Capital Cost of Pollution Control: Rs. 2,81,15,000/-
□ O & M Cost of Pollution Control: Rs. 51,72,460 /-

Sr. No.	Particulars	Capital Cost(Rs.)	Recurring Cost Per Annum (Rs.pa)
1	Air Pollution Control	1,48,00,000	15,00,000
2	Water Pollution Control	62,75,000	15,00,000
3	Solid / Hazardous Waste Control	5,00,000	1,72,460
4	Noise Pollution Control	35,00,000	500000
5	Environmental Monitoring	--	500000
6	Occupational Health & Safety	500000	500000
7	Green Belt	2540000	500000

		Development		
		TOTAL	2,81,15,000	51,72,460
EIA Submitted	Submitted			

Storage of chemicals (inflammable /explosive/hazardous/toxic substances):

Sr. No.	Name of Raw Materials	Number of Storage	Capacity	Nature of the Raw Materials	Consumption	Maximum Quantity of Storage at any point of time	Source of Supply	Mode of Transportation
1.	Alfa Olefin	02	200 KL	Liquid	46.430 TPD	330 KL	Local Purchase Import	By Road
2.	Linear Alkyl Benzene	02	200 KL	Liquid	92.0 TPD	350 KL	Local Purchase/ Import	By Road
3.	Ethoxylated Lauryl Alcohol	01	150 KL	Liquid	62.5 TPD	130 KL	Local Purchase/ Import	By Road
4.	Sulphur	01	10 x 10 x 3 Godown	Solid	11.0 TPD	300 MT	Local	By Road
5.	NaOH	01	40 KL	Liquid	10.0 TPD	35 KL	Local	By Road
7.	Sulphuric Acid	01	40 KL	Liquid	---	25 KL	Local	By Road
	Lauryl Alcohol	01	100KL	Liquid	43.0 TPD	90 KL	Local	By Road

3. The proposal has been considered by SEIAA in its 81st 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) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.

(ii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.

(iii) Regular monitoring of the air quality, including SPM & SO2 levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.

(iv) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.

(v) Proper Housekeeping programmes 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) Leq of 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) 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.

(xix) 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.

(xx) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

(xxi) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.

(xxii) Separate silos will be provided for collecting and storing bottom ash and fly ash.

(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. SO_2, 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.

(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 5 years 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.

(Ajoy Mehta)
Principal Secretary,
Environment department &
MS, SEIAA.

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.
2. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune – 411014. .
3. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. 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).
6. Regional Office, MPCB, Thane.
7. Collector, Thane
8. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
9. Select file (TC-3)

(EC uploaded on 26/08/2015)