

Dr. GAURAV DAHIYA, IAS
MEMBER SECRETARY
SEIAA (GUJARAT)



STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/5(f)/427/2016

Date: 28 JUN 2016

By R P A D

Time Limit

Sub: Environment Clearance to M/s. Aarti Drugs Limited, for expansion of a Synthetic Organic Chemicals manufacturing unit at Plot no: 2902, 2904, 2601, 2602, 2603, 2604, 2605, 2509, GIDC -Sarigam, Ta.: Umbergam, Dist.: Valsad In Category 5(f) of Schedule annexed with EIA Notification dated 14/09/2006.

Dear Sir,

This has reference to your application along with Form-I dated 10/09/2014 submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006 and EIA Report/ additional information / documents submitted vide letter dated 08/05/2015 and 27/10/2015 to the SEAC.

The proposal is for Environmental Clearance to M/s. Aarti Drugs Limited, for expansion of a Synthetic Organic Chemicals manufacturing unit at Plot no: 2902, 2904, 2601, 2602, 2603, 2604, 2605, 2509, GIDC -Sarigam, Ta.: Umbergam, Dist.: Valsad . It is an existing unit for manufacturing following products, which falls in the category - 5(f) of the schedule of the EIA Notification-2006:

Sr. no.	Name of the Products	Production Capacity MT/Month		
		Existing	Proposed	Total
1	Metronidazole	100	200	300
By-Products				
1	Ammonium Sulphate	160	599	759
2	Methyl Formate	0	345	345
3	Mixed Glycol	0	364.2	364.2

The project activity is covered in 5(f) and is of 'B' Category. Since, the proposed project is located in notified industrial area, public consultation is not required as per paragraph 7(i) (III) (i) (b) of the Environment Impact Assessment Notification-2006.

The SEAC, Gujarat vide their letter dated 13/06/2016 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on 13/04/2016. The proposal was considered by SEIAA, Gujarat in its meeting held on 18/06/2016 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A. CONDITIONS :

A. 1 SPECIFIC CONDITION :

1. Entire quantity of By-products (1) Ammonium Sulphate [759 MT/Month], (2) Methyl Formate [345 MT/Month] and (3) Mixed Glycol [364.2 MT/Month] shall be sell out to the actual end users.
2. Above mentioned items/ waste streams qualifying the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 shall only be sold after obtaining prior permission from CPCB/SPCB/PCC.
3. The above mentioned By-product/hazardous wastes shall be sold only to the potential users who are authorized by the competent authority (MoEF/CPCB/SPCB etc.)
4. The unit shall submit the list of authorized end users of above mentioned by-products/hazardous wastes along with MoU signed with them at least two months in advance prior to commencement of production. In absence of potential buyers of these items, the unit shall restrict the production of respective items.
5. Spent solvents shall be recovered by in-house distillation in such a manner that recovery shall not be less than 95 percent and recovered solvent shall be completely reused in the process.
6. All the conditions/Suggestions/Recommendations mentioned in "Guidelines for Storage of Incinerable Hazardous Wastes by the Operators of Common Hazardous Waste Treatment, Storage and Disposal Facilities and Captive HW Incinerators" and its amendments from time to time shall be complied with in a letter and spirit.
7. Entire quantity of effluent shall be incinerated to maintain Zero Liquid Discharge (ZLD) status and that there shall not be any kind of effluent discharge outside the project premises and the unit shall not have any kind of drainage connection from GIDC.

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State Level Environment
Impact Assessment Authority
(SEIAA - Gujarat)
Gujarat Pollution Control Board,
"Paryavaran Bhavan"
Sector-10-A, Gandhinagar-10

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A. 2 WATER :

8. Fresh water requirement for the proposed project shall not exceed 141 KL/day and it shall be sourced from the GIDC water supply. No ground water shall be tapped for the project requirements.
9. The water meter shall be installed and records of daily and monthly water consumption shall be maintained.
10. Total industrial waste water generation will be 7 KL/day, which shall be treated in primary and tertiary effluent treatment plant followed by Incinerator. (capacity 500 litre/hr)
11. There shall be no discharge of waste water from the proposed project. Complete zero discharge shall be achieved.
12. The domestic wastewater generation shall be 5 KL/day and it shall be disposed off through septic tank - soak pit.
13. The unit shall provide adequate effluent treatment plant (ETP) & Incinerator and it shall be operated regularly and efficiently so as to ensure zero discharge status all the time.
14. A separate electric meter shall be placed for the ETP & Incineration system and proper logbook for its operation showing chemicals consumed, effluent evaporated, power consumed, reuse of water etc. shall be maintained and furnished to the GPCB from time to time.
15. The unit shall join and participate financially and technically for any common environmental facility / infrastructure, as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Government / GIDC.

A. 3 AIR:

16. Natural gas to the tune of 40 SCM/hr shall be used as a fuel for Incinerator (Capacity 500 Liter/hr.)
17. Ventury scrubber followed by Caustic Scrubber shall be provided as APCM for Incinerator.
18. Additional one TPH steam requirement shall be met with the sister concern unit M/s. Aarti Industries Ltd. (AIL) located at neighboring plot and there shall be no installation of additional Boiler/Thermopack/Heaters within existing premises at Plot no:2902, 2904, 2601,2602, 2603, 2604, 2605, 2509, GIDC -Sarigam) for the proposed expansion.
19. HSD to the tune of 72 Kgs/hr shall be used in the two stand-by DG sets (380 KVA each).
20. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
21. Water scrubber followed by alkali scrubber shall be provided to control process gas (SO₂) generated from Sulphonation stage (Ethoxilation reactor).
22. The air pollution control systems shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB/CPCB/MoEF&CC at vent / stack outlets.
23. Stack of adequate height shall be provided as per the prevailing norms for flue gas emission.
24. Flue gas emission from Incinerator, DG set and any gaseous emissions from the reactors shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.
25. All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.
26. Fugitive emission in the work zone environment and raw materials storage area etc. shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time.
27. Fugitive emissions of VOC must be regularly monitored. Sensors for detecting VOC shall be provided at strategic locations. Leak Detection and Repair programme shall be implemented to control VOC emissions.
28. For control of fugitive emission, VOCs, following steps shall be followed :
 - a. Closed handling and charging system shall be provided for chemicals.
 - b. Reflux condenser shall be provided over Reactors.
 - c. Pumps shall be provided with mechanical seals to prevent leakages.
 - d. System of leak detection and repair of pump/pipeline based on preventive maintenance.

A. 4 SOLID / HAZARDOUS WASTE:

29. The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016, as may be amended from time to time. Authorization of the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.
30. The hazardous wastes shall be stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.
31. ETP sludge & Incineration ash shall be disposed off at the common TSDF site.
32. Used oil & Date expired medicines shall be incinerated in their own Incinerator.
33. Used oil shall be sold only to the registered re-processors or it shall be incinerated in your own Incinerator.
34. Spent Carbon shall be either sent for co-processing or disposed off at the nearby common TSDF.
35. Process waste (sodium sulphate) shall be Sell out to actual users or dispose off into TSDF site.
36. The unit shall obtain membership of the common TSDF and CHWIF (Whichever is applicable).
37. Discarded containers shall be either reused or returned back to raw material suppliers or sold to the authorized recyclers.
38. All possible efforts shall be made for Co-processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
39. Management of By-products/Hazardous wastes 1) Ammonium Sulphate, (2) Methyl Formate and (3) Mixed Glycol shall be as per the specific conditions mentioned above.
40. Vehicles used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.

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A. 5 SAFETY:

41. The company shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended.
42. Storage of flammable chemicals shall be sufficiently away from the production area.
43. Sufficient no. of fire extinguishers shall be provided near the plant and storage area.
44. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
45. Only flame proof electrical fittings shall be provided in the plant premises.
46. Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.
47. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.
48. Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
49. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.
50. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
51. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
52. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
53. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.
54. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
55. Receiving of steam from M/s: Aarti Industries Ltd. (AIL) shall be carried out with all safety measures as per prevailing Act/Rules.

A. 6 NOISE:

56. The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.

A. 7 CLEANER PRODUCTION AND WASTE MINIMISATION:

57. The company shall undertake various waste minimization measures including :
 - a) Metering and control of quantities of active ingredients to minimize waste.
 - b) Use of automated and enclosed filling to minimize spillage.
 - c) Use of close feed system into batch reactors.
 - d) Regular preventive maintenance for avoiding leakage, spillage etc.
 - e) Dry cleaning / mopping of floor instead of floor washing.
 - f) Regular preventive maintenance for avoiding leakage, spillage etc

A. 8 GREEN BELT AND OTHER PLANTATION:

58. The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.

B. OTHER CONDITIONS:

59. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
60. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s: Eco Chem Sales & Services, Surat & submitted vide letter no. NIL dated 08/05/2015 and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.
61. A separate Environment Management Cell equipped with full fledged laboratory facilities and qualified personnel shall be set up to carry out the Environment Management and Monitoring functions and a separate budget shall be allocated for this purpose.
62. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
63. During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
64. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
65. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
66. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.

67. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
68. The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.
69. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.
70. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
71. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
72. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
73. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
74. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
75. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
76. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
77. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.
78. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
79. This environmental clearance is valid for seven years from the date of issue.
80. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

With regards,

Yours sincerely,

(Dr. GAURAV DAHIYA, IAS)
Member Secretary

Issued to:

Mr. Uday M. Patil,
M/s: Aarti Drugs Limited,
Plot no. 2902, GIDC-Sarigam,
Dist. Valsad

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
6. Select File

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