



No. SEIAA/GUJ/EC/5(f)/335/2016

Date: 20 MAY 2016

By R P A D

Time Limit

Sub: Environment Clearance to M/s. Aarti Industries Limited for setting up of the proposed expansion for manufacturing of Synthetic organic chemicals at at Plot no:756/4: A&B, 756/5: A&B, 756/6 & 779, GIDC -Jhagadia, Dist.: Bharuch..... 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 21/05/2013 submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006 and EIA/ additional information / documents submitted vide letter dated 09/02/2015, 09/07/2015 and 26/11/2015 to the SEAC.

The proposal is for Environmental Clearance to M/s. Aarti Industries Limited for setting up of the proposed expansion for manufacturing of Synthetic organic chemicals at at Plot no:756/4: A&B, 756/5: A&B, 756/6 & 779, GIDC - Jhagadia, Dist.: Bharuch. 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 Products	Production Capacity		
		Existing	Proposed Expansion	Total After Expansion
1	Hydrogen Gas	3000 Nm ³ /Hr	0	3000 Nm ³ /Hr
2	Purification of O/P/M Phenylene Di Amine	1500 MT/Month	0	1500 MT/Month
3	Calcium Chloride	4800 MT/Month	1200 MT/Month	6000 MT/Month
I				
1	Mono Chloro Benzene / Ortho Dichloro Benzene / Para Dichloro Benzene OR	0	6000 MT/Month	6000 MT/Month
2	1,2,3/1,2,4 Tri Chloro Benzene OR			
3	Ortho Chloro Toluene / Para Chloro Toluene OR			
4	2- Chloro 4-Nitro Toluene OR			
5	6-Chloro 2-Nitro Toluene 4-Chloro 2-Nitro Toluene OR			
6	Pivalyl Chloride OR			
7	2-Ethyl Hexanyl Chloride OR			
8	Iso Nonyl Chloride OR			
9	2,4,6 TriChloro Aniline (TCAN) OR			
II	Hydrogenated Products			
1	Ortho Toludene OR			
2	Meta / Ortho / Para Chloro Aniline OR			
3	3,4 DiChloro Aniline / 2,3 DiChloro Aniline / 2,5 DiChloro Aniline OR			
4	2,4 DiChloro Aniline / 2,6 DiChloro Aniline / 3,5 DiChloro Aniline OR			
5	2,4,5 Trichloro Aniline OR			

6	Meta / Ortho / Para Phenylene Di Amine OR	0	3000 MT/Month	3000 MT/Month			
7	3,4 Diamino Diphenyl Ether / 4,4 Diamino Diphenyl Ether OR						
8	Ortho / Para / Meta Anisidine OR						
9	Chloro Fluoro Aniline OR						
10	Ortho / Para /Meta Cumidine OR						
11	Para /Meta Amino Phenol OR						
12	Toluidines OR						
13	Aniline OR						
14	Para / Meta / Ortho Floro Aniline OR						
15	Di Floro Aniline (1:3) OR						
16	Di Floro Benzene (1:3) OR						
17	4-Floro-N-Isopropyl Aniline OR						
18	4-Chloro-NIsopropyl Aniline OR						
19	2 Methoxy 4 Nitro Aniline (Scarlet R – from partial hydrogenation of 24 Dinitro Anisole) OR						
20	2,4 Di Amino Anisole OR						
21	N-N Disec Butyl PPDA OR						
22	Meta Xilidine OR						
23	4 Chloro 25 Dimethoxy Aniline OR						
24	N,N Di Sec tertiary butyl paraphenylene Diamaine OR						
III	Nitration Products						
1	3,4 Di Chloro Nitro Benzene/ 2,5 Di Chloro Nitro Benzene/ 2,3 Di Chloro Nitro Benzene OR				0	2000 MT/Month	2000 MT/Month
2	2,4,5 Tri Chloro Nitro Benzene/ 2,3,4 Tri Chloro Nitro Benzene OR						
3	4-Nitro N-methyl Phthalimide OR						
4	2 EHN (Ethyl Hexanol Nitration) OR						
IV	Nitro Anisoles						
1	Ortho Nitro Anisole OR	0	1200 MT/Month	1200 MT/Month			
2	Para Nitro Anisole OR						
3	2,4-Di Nitro Anisole OR						
4	2 Methoxy 5 Chloro Nitro Benzene (from 25 DCNB)						
V	De Nitro Chlorination						
1	2,6 Dichloro Floro Benzene	0	1200 MT/Month	1200 MT/Month			
2	2,6 Dichloro Benzonitrile						
3	Meta Dichloro Benzene						
4	2,4 Difluoro Chloro Benzene						
5	2,4 Dichloro Fluoro Benzene						
6	1,3 Dichloro 4,6 Difluoro Benzene						
7	Para Fluoro Chloro Benzene						
8	Ortho Fluoro Chloro Benzene						
BY PRODUCTS							
1	Steam (By Product)	136.56 KL/Day	0	136.56 KL/Day			
2	Sodium Chloride	0	2069 MT/Month	2069 MT/Month			
3	Ortho Nitro Phenol	0	41 MT/Month	41 MT/Month			

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 **04/05/2016** had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on **25/02/2016**. The proposal was considered by SEIAA, Gujarat in its meeting held on **07/05/2016** 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 (1) Sodium Chloride [2069 MT/Month] and (2) Ortho Nitro Phenol [41 MT/Month] shall be sell out to the actual end users.
2. Spent HCl – 30 % (12106 MT/Month) shall be utilized as captive consumption for the manufacturing of Calcium Chloride to the maximum extent and if need arises, excess Spent HCl – 30 % shall be sold to the authorized actual end users.
3. Spent Sulphuric Acid – 72 % (775 MT/Month) shall be sold to the authorized actual end users.
4. Unit shall strive to exploring utilization of spent sulphuric acid by converting it into the valuable products within the premises.
5. Above mentioned items/ waste streams qualifying the Hazardous & Other Waste (Management and Transboundary Movement) Rules 2016 shall only be sold after obtaining prior permission from CPCB/SPCB/PCC.
6. The unit shall install & commission the spent acid concentration plant II proposed at organic division before commencement of production.
7. 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.)
8. 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 item.
9. The schedule of the production activity shall be in such a way that there shall be no increase in pollution load with respect to air, water and hazardous waste as proposed in EIA-EMP report.
10. Spent solvents shall be recovered by in-house distillation in such a manner that recovery shall not be less than 98 percent and recovered solvent shall be reused in the process. Solvent recovery system with adequate reflux condensers shall be provided for controlling escape of low boiling solvents (VOCs).
11. All measures shall be taken to prevent soil and ground water contamination.
12. The project proponent shall submit the detailed study report to Gujarat Pollution Control Board (GPCB) at least once in a year, through the reputed institute or university to assess the impacts on soil and ground water quality, if any, due to application of the treated sewage and shall adopt the additional mitigation measures as may be suggested through such studies.

A. 2 WATER :

13. Total water consumption for proposed expansion shall not exceed 2417 KL/day. Unit shall reuse recovered water to the tune of 668 KL/day. Hence, fresh Water requirement for the proposed expansion shall not exceed 1749 KL/day.
14. The additional fresh water shall be sourced from GIDC. The water meter shall be installed and records of daily and monthly water consumption shall be maintained. No ground water shall be tapped for the project requirements in any case.
15. Total Industrial waste water generation after proposed expansion shall not exceed 408.336 KL/day (Existing 33.336 KL + 375 KL).
16. Effluent generated from the existing unit shall be treated in provided RO system [100 KL/day], Evaporator [2 KL/day], Tube settler [5 KL/day] and Nutch Filter [0.5 KL/day]
17. Additional waste water generated from the proposed expansion shall be treated in proposed facility comprising primary, secondary, tertiary treatment plants, RO plants and MEE (Capacity : 70 KL/day) to achieve zero discharge.
18. Total 168 KL/day of effluent from process & washing shall be treated in ETP followed by RO-2, RO-4 & MEE.
19. Total 207 KL/day effluent from utilities shall be treated in RO-3, RO-4 and MEE.
20. Unit shall recycle recovered water to the tune of 668 KL/Day (298.28 KL from existing & 369.72 KL from proposed expansion).
21. Total domestic waste water of 38 KL/day shall be treated in proposed STP (Capacity : 40 KL/day) and shall be utilized for gardening/plantation within premises.
22. The treated domestic effluent conforming to the MoEF/CPCB/GPCB norms shall be utilized on land within premises for plantation / Gardening / Green Belt. During monsoon season when treated effluent may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises & there shall be no discharge of waste water outside the premises in any case.
23. The unit shall provide flow meter / totalizer for measuring effluent treated & reuse and maintain daily records of the same.

24. Proper logbook of the ETP, RO, MEE & STP operation, effluent quality and quantity, chemical & power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.
25. No effluent from the plant shall be discharged outside the factory premises and Process effluent/any wastewater shall not be allowed to mix with storm water.
26. The unit shall provide metering facility at the inlet and outlet of the Effluent Treatment Plant, RO system, MEE plant & STP and maintain the records of the same.
27. Regular performance evaluation of the ETP shall be undertaken every year to check its adequacy, through a reputed institute / organization and its records shall be maintained.
28. 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:

29. Imported coal to the tune of 11.12 MT/hr shall be used as a fuel for each Steam Boiler having capacity 30 TPH (2 Boilers).
30. Imported coal to the tune of 14.57 MT/hr shall be used as a fuel for CaCl_2 dryer.
31. Unit shall provide separate ESP as APCM for each Boiler.
32. Unit shall provide Wet scrubber as APCM for CaCl_2 dryer vent.
33. Unit shall provide separate set of falling film absorber followed by Alkali Scrubber to control emission of HCl from CaCO_3 reactor vent and to control emission of HCl & Cl_2 from Chlorinator vent.
34. Unit shall provide caustic scrubber to control emission of NO_x from Nitration vent.
35. Diesel to the tune of 850 Lit./hr shall be used for existing DG sets (650KVA *2Nos and 750KVA *3Nos).
36. Diesel to the tune of 1080 Lit./hr shall be used for the proposed 4 no.s of DG sets (Cap. 1000 KVA each).
37. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
38. Flue gas emission from Boilers, DG set & any gaseous emissions shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.
39. 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.
40. Third party monitoring of the functioning of the Air APCMs with its efficiency shall be carried out once in a year through a reputed institute / organization.
41. The company shall prepare schedule and carry out regular preventive maintenance of APCMs and assign responsibility of preventive maintenance to the senior officer of the company.
42. The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.
 - Enclosure shall be provided at Bio-fuel loading and unloading operations.
 - Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.
 - Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.
 - Bio-fuel shall be transported through covered trucks only whereas fly ash shall be transported through closed trucks only.
 - A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.
43. All the vessels used in the manufacturing process shall be closed to reduce the fugitive emission.
44. Regular performance evaluation of the air pollution control systems shall be carried out at least out once in a year through a reputed institute / organization and its records shall be maintained.
45. Measures shall be taken to reduce the process vapors emissions as far as possible. Use of toxic solvents shall be minimum. All venting equipment shall have vapour recovery system.
46. All the vessels used in the manufacturing process shall be close to reduce the fugitive emission.
47. Solvent management shall be carried out as follows :
 1. Reactor shall be connected to chilled brine condenser system to condensate solvent vapors and reduce solvent losses.
 2. Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
 3. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% solvent recovery.
 4. Solvents shall be stored in a separate space specified with all safety measures.
 5. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
 6. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
48. Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.
49. 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 / Vessels.
 - 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.
50. Airborne dust at all transfers operations/ points shall be controlled either by spraying water or providing enclosures.
 51. System of leak detection and repair of pump/pipeline based on preventive maintenance.
 52. Regular monitoring of ground level concentration of SO₂, NO_x, PM₁₀, PM_{2.5}, HCl, CL₂, HC and VOC shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.

A. 4 SOLID / HAZARDOUS WASTE:

53. The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous & Other Waste (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.
54. Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.
55. ETP waste, Silica and Insulation waste shall be disposed off at the nearby common TSDF.
56. Spent catalyst shall be sale out to registered regenerators.
57. Process residue and Distillation residue shall be sent to Common Hazardous Waste Incineration Facility (CHWIF).
58. Discarded barrels / containers / bags / liners shall be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination.
59. Used oil shall be sold only to the registered recyclers.
60. The unit shall obtain necessary permission from the nearby TSDF site and CHWIF.
61. 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.
62. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
63. The fly ash shall be supplied to the manufacturers of fly ash based products such as cement, concrete blocks, bricks, panels, etc. The unit shall strictly comply with the Fly Ash Notification under EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.

A. 5 SAFETY:

64. The company shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended.
65. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.
66. Storage of flammable chemicals shall be sufficiently away from the production area.
67. Sufficient no. of fire extinguishers shall be provided near the plant and storage area.
68. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
69. All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.
70. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.
71. Only flame proof electrical fittings shall be provided in the plant premises.
72. 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.
73. 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.
74. Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
75. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.
76. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
77. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate

quantity.

78. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
79. 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.
80. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
81. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.
82. Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.

A. 6 NOISE:

83. 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:

84. 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:

85. 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:

86. 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.
87. All the recommendations / commitments made in the EIA report of the project prepared by M/s: Jyoti Om Chemical Research Centre Pvt. Ltd., Ankleshwar and submitted vide letter no. NIL dated 09/02/2015 shall be implemented in letter and spirit.
88. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
89. During material transfer, spillages shall be avoided and gulland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
90. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
91. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
92. 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.
93. 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 & Other Waste (Management and Transboundary Movement) Rules 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
94. The company shall undertake socio-economic developmental / community welfare activities as per the CSR Rules 2014.
95. 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.
96. 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.
97. 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.
98. 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.

99. 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.
100. 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.
101. 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.
102. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
103. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
104. 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.
105. 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.
106. This environmental clearance is valid for seven years from the date of issue.
107. 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,



(M. M. JOSHI)
Member Secretary

Issued to:

Mr. Kirit R. Mehta,
Aarti Industries Ltd (Unit-II),
Plot No. 801/23,
GIDC Estate,
Phase III, Vapi.

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


(M. M. JOSHI)
Member Secretary

D. T. VASAVADA, IFS
MEMBER SECRETARY
SEIAA (GUJARAT)



Government of Gujarat

STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

29

No. SEIAA/GUJ/EC/5(f)/1342/2017

Date: 30.05.2017

BY R.P.A.D.

Amendment to Environment Clearance Order No:- SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016.
(Under the provision of Environmental Impact Assessment (EIA) Notification, 2006)

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification, 2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted to M/s.: Aarti Industries Limited (Unit-II) for setting up of 'Synthetic Organic Chemicals' manufacturing plant at Plot No. 756/2:A&B, 756/3:A&B, 756/4: A&B, 756/5: A&B, 756/6 & 779, GIDC Estate, Jhagadia, Bharuch, vide this office letter no. SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016, is being subjected to amendment for the following change in the project.

And whereas SEIAA has granted Environment Clearance vide office order letter no. SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016, under the provisions of the aforesaid Notification.

And whereas project proponent has applied for amendment in the environmental clearance vide their online application vide no. SIA/GJ/IND2/19817/2017 dated 13/07/2017. The project was scheduled for hearing in the SEAC meeting held on 12/10/2017.

The SEAC, Gujarat had recommended the project vide their letter dated 20/12/2017 to grant amendment in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 12/10/2017. The proposal was considered by SEIAA, Gujarat in its meeting held on 29/12/2017 at Gandhinagar. After careful consideration, Environment Clearance order dated 20/05/2016 is hereby amended as under, subject to amendment with respect to changes in the planning of the project.

1. Subject of the environmental clearance order no. SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 have been amended and shall be read as under:

Sub - Environmental Clearance to M/s. Aarti Industries Limited for setting up of the proposed expansion for manufacturing of Synthetic organic chemicals at Plot no:756/4: A & B, 756/5: A&B, 756/6 & 779, 756: 2A & 2B and 756: 3A & 3B GIDC - Jhagadia, Dist.: Bharuch.....In Category 5(f) of Schedule annexed with EIA Notification dated 14/09/2006.

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 shall remain unchanged

With regards,
Yours sincerely,

(D. T. VASAVADA)
Member Secretary

Issued to:

Mr. Kirit R. Mehta,
Aarti Industries Ltd (Unit-II),
Plot No. 801/23, GIDC Estate,
Vapi, Gujarat

MEMBER SECRETARY
State Level Environment
Impact Assessment Authority
Gujarat Pollution Control Board
"Paryavaran Bhavan"
Sector-10-A, Gandhinagar, Gandhinagar



No. SEIAA/GUJ/EC/5(f)/894/2019

Date:

19 JUN 2019

BY R.P.A.D.

Amendment to Environment Clearance Order No:- SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 and amended vide letter No. SEIAA/GUJ/EC/5(f)/1342/2017 dated 30/12/2017.

(Under the provision of Environmental Impact Assessment (EIA) Notification, 2006)

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification, 2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted to **M/s. Aarti Industries Limited (Unit-II) for expansion of Synthetic Organic Chemical manufacturing plant at Plot No: 756/2A & 2B, 756/3A & 3B, 756/4A&4B, 756/5A.&5B 756/6 & 779, Jhagadia, Bharuch**, vide this office letter no. **SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 and amended vide letter No. SEIAA/GUJ/EC/5(f)/1342/2017 dated 30/12/2017**, is being subjected to amendment for the following change in the project.

And whereas SEIAA has granted Environment Clearance vide office order letter no. **SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 and amended vide letter No. SEIAA/GUJ/EC/5(f)/1342/2017 dated 30/12/2017**, under the provisions of the aforesaid Notification.

And whereas project proponent has applied for amendment in the environmental clearance vide their online application vide No. **SIA/GJ/IND2/33648/2017 dated 01/04/2019**. The project was scheduled for hearing in the SEAC meeting held on 24/04/2019.

The SEAC, Gujarat had recommended the project vide their letter dated 01/06/2019 to grant amendment in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 24/04/2019. The proposal was considered by SEIAA, Gujarat in its meeting held on 03/06/2019 at Gandhinagar. After careful consideration, Environment Clearance order dated 20/05/2016 amended on 30/12/2017 is hereby amended as under, subject to amendment with respect to changes in the planning of the project.

1. **Condition No. 16, 17, 18, 19, 20, 21, 24, 25, 26, 27, 29 & 55** of the environmental clearance order no. **SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 and amended vide letter No. SEIAA/GUJ/EC/5(f)/1342/2017 dated 30/12/2017** have been amended and shall be read as under:

Condition No. 16 - Total industrial effluent generated (408.336 KLD) shall be send to the sister concern unit i.e. Aarti Industries Ltd (Unit-I), Plot No. 758/1, 2 & 3, GIDC Estate, Jhagadia, Dist: Bharuch located at the adjoining plot for treatment.

Condition No. 17 - Unit shall provide separate pipelines with individual marking for concentrate & dilute effluent generated from process & from utilities sending to the sister concern unit i.e. Aarti Industries Ltd (Unit-I) located at the adjoining plot for treatment.

Condition No. 18 - Unit shall recycle recovered water to the tune of 643.28 KLD (273.28 KL from Aarti Industries Limited (Unit-II) + 370 KLD from combined ETP located at sister concern unit i.e. Aarti Industries Limited (Unit-I)).

Condition No. 19 - Unit shall provide separate pipeline with individual marking for recovered water from sister concern unit i.e. Aarti Industries



Limited (Unit-I).

- Condition No. 20 - Recovered water from combined ETP of Unit I of 370 KLD and recovered water of 273.28 from within premises shall be reused in cooling tower and process.
- Condition No. 21 - The domestic waste water (38 KLD) shall be send to sister concern unit i.e. Aarti Industries Ltd (Unit-I) located at the adjoining plot for treatment in Combined STP and after treatment the treated domestic waste water 30 KLD shall be received back and utilized for gardening/plantation within own premises.
- Condition No. 24 - Proper Logbook of the effluent quantity and quality send to sister concern unit i.e. Aarti industries Ltd (Unit-I) located at the adjoining plot, reuse etc. shall be maintained and shall be furnished to the GPCB from time to time.
- Condition No. 25 - Effluent shall be send to the sister concern unit i.e Aarti Industries Limited (unit -I) for treatment in combined ETP and shall not be allowed to discharge anywhere else or not allowed to mix with storm water.
- Condition No. 26 - The unit shall provide metering facility at the outlet and inlet of the wastewater discharging to the sister concern unit i.e. Aarti industries Ltd (Unit-I) located at the adjoining plot and maintain the record for the same.
- Condition No. 27 - Regular performance evaluation of the combined ETP shall be undertaken every year to check its adequacy, through a reputed institute/organization and its records shall be maintained.
- Condition No. 29 - Imported Coal to the tune of 11.02 MT/hr shall be used as a fuel for each Steam Boiler having capacity 30 TPH (2 Boilers).
- Condition No. 55 - Silica and Insulation waste shall be disposed off at the nearby common TSDF.

2. The following additional Conditions shall be added in the environmental clearance order no. SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 and amended vide letter No. SEIAA/GUJ/EC/5(f)/1342/2017 dated 30/12/2017 and shall be read as under:

➤ Hazardous waste management shall be as under:

Sr. No.	Type of Hazardous Waste	Source of Generation	As per CTE-72020	Proposed Scenario	Total after EC Amendment	Category No.	Mode of Disposal
1.	ETP Residue after evaporation	ETP Plant	50 MT/Y	-50 MT/Y	0	35.3	Collection, Storage within factory premises. Transportation and disposal at common TSDF by M/s BEIL Ankleswar
	ETP Waste		2880 MT/Y	-2880 MT/Y	0		
	Silica	Calcium Chloride Process	10840 MT/Y	0	10840 MT/Y		Collection, storage, transportation & disposal at approved TSDF site.
2.	Used oil	Utility	18.4 MT/Y	0	18.4 MT/Y	5.1	Collection, storage, transportation. Disposal by selling to registered re-

							processor.
3.	Empty Barrels & Empty HDPE bags	Raw material storage area	33 MT/Y	0	33 MT/Y	33.1	Collection, storage, transportation, decontamination. Disposal by sending back to raw material supplier.
	Discarded Containers /Bags		15 MT/Y	0	15 MT/Y		Collection, storage, transportation & disposal by sale to registered recyclers/ waste filling.
4.	Distillation residue & waste	Process Area	1404 MT/Y	0	1404 MT/Y	28.1	Collection, storage, transportation & disposal by incineration at CHWIF-BEIL/ SEPPL
5.	Process residue	Process Area	1613 MT/Y	0	1613 MT/Y	26.1	Collection, storage, transportation & disposal at approved incineration facility.
6.	Spent Catalyst	Process Area	235 MT/Y	0	235 MT/Y	35.2	Collection, storage, transportation & disposal by sale to registered regenerators.
7.	Hydrochloric acid (30%)	Process Area	145272 MT/Y	0	145272 MT/Y	D2	Collection, storage, transportation & reused in manufacturing of CaCl ₂ OR sold to authorized actual end users.
8.	Spent sulphuric acid	Process Area	9300 MT/Y	0	9300 MT/Y	D2	Collection, storage, transportation & sold to authorized actual end users.

Rest of all the conditions of the Environment Clearance orders no **SEIAA/GUJ/EC/5(f)/335/2016** dated **20/05/2016** and amended vide letter No. **SEIAA/GUJ/EC/5(f)/1342/2017** dated **30/12/2017** shall remain unchanged.

With regards,
Yours sincerely,



(S. M. SAIYAD)
Member Secretary

Issued to:

M/s. Aarti Industries Limited (Unit-I)
C/o. Aarti Industries Limited (Organic Division)
Plot No. 801/23, GIDC Estate,
Phase- III, Vapi- 396195

