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MEMBER SECRETARY
SEIAA (GUJARAT)



STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/5(h)/ 537/2018

Date: 13 JUN 2018

By R P A D

Time Limit

Sub: Environment Clearance to M/s: Asian Paints Limited Ankleshwar for setting up of Integrated manufacturing facility for Paints with Resins and Emulsions at Plot No. 2602 to 2607, 2609 to 2614, 2701/A, 2701/B, 2702 and 2703 GIDC Ankleshwar, Dist.: Bharuch. In Category 5(h) of Schedule annexed with EIA Notification dated 14/09/2006.

Ref: Your Proposal No. SIA/GJ/IND2/18342/2017.

Dear Sir,

This has reference to your application along with Form-I dated 11/09/2017 submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006 and additional information / documents submitted vide letter dated 14/02/2018 and 16/04/2018 to the SEAC.

The proposal is for Environmental Clearance to M/s: Asian Paints Limited Ankleshwar for setting up of Integrated manufacturing facility for Paints with Resins and Emulsions at Plot No. 2602 to 2607, 2609 to 2614, 2701/A, 2701/B, 2702 and 2703 GIDC Ankleshwar, Dist.: Bharuch. It is an existing unit for manufacturing following products, which falls in the category - 5(h) of the schedule of the EIA Notification-2006:

Sr. No.	Product	Existing (TPA / KLPA)	Additional quantity (TPA/ KLPA)	Total after expansion (TPA / KLPA)
1.	Phthalic Anhydride	29796 TPA	-29796 TPA	0
2.	Light and Heavy ends of Phthalic Anhydride	360 TPA	-360 TPA	0
3.	Maleic Acid Solution	4860 TPA	-4860 TPA	0
4.	Paints	130000 KLPA	+170000 KLPA	300000 KLPA
5.	Resins and Emulsions (TSR)	32000 TPA	+53000 TPA	85000 TPA

The project activity is covered in 5(h) 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 01/06/2018 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on 26/04/2018. The proposal was considered by SEIAA, Gujarat in its meeting held on 12/06/2018 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. Unit shall surrender membership certificate of M/s: NCTL and ensure that there shall be no waste water discharge outside premises.
2. Complete Zero Liquid Discharge (ZLD) shall be maintained all the time.
3. The spent solvent from production processes shall be recovered by in-house distillation in such a manner that recovery shall be maximum and recovered solvent shall be reused in the process within premises.
4. Unit shall comply all the conditions & recommendations mentioned in the guidelines for the management of the spent solvents published by GPCB in letter and spirit.
5. Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines.
6. Incinerator shall be as per the CPCB Guidelines & proper logbook shall be maintained.
7. Waste generated due to demolition of buildings and other civil structures shall be segregated properly and the Construction and Demolition Waste Management Rules, 2016 shall be followed in letter and spirit.

A. 2 WATER :

8. Total water requirement for the project shall not exceed 1300 KL/day. Unit shall reuse 299.4 KLD of treated water (RO condensate 270 KLD and MEE condensate 29.4 KLD) for industrial purpose. Hence, fresh water requirement shall not exceed 1000.6 KL/day and it shall be met through GIDC water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water. A water meter shall be installed and records of daily and monthly water consumption shall be maintained.

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10. No ground water shall be tapped for the project requirements.
11. All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.
12. Industrial waste water generation shall not exceed 138 KL/day.
13. Entire quantity of effluent stream shall be treated in proposed ETP (Cap. 300 KL/day) comprises of primary, Secondary and tertiary treatment followed by RO system.
14. RO reject stream (30 KLD) shall be subjected to in-house MEE-Multiple Effect Evaporator.
15. RO Permeate (270 KLD) and MEE condensate (29.4 KLD) shall be reused for shall be reused for utilities and Industrial purpose.
16. Domestic waste water 162 KL/day shall be treated along with Industrial effluent in ETP and treated waste water shall be reused for gardening and toilet flushing within premises.
17. Unit shall provide adequate ETP system along with RO & MEE including stripper and ATFD to achieve Zero Liquid Discharge [ZLD].
18. Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
19. The unit shall provide metering facility at the inlet of the ETP & reuse system and maintain records for the same.
20. Proper logbooks of ETP, chemical consumption, quantities and qualities of effluent reuse, power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.
21. 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 Govt. / GIDC.

A. 3 AIR:

22. Unit shall not exceeds quantity of fuel as mentioned in table as under:

Sr. no.	Stack Attached to	Capacity	Stack Height (m)	Type of Fuel Used	Fuel Consumption (Kg/Hr)	APCM
1	Boiler – 1	3 MT/Hr	33.5	NG	78	Adequate Stack Height
2	Boiler – 2	6 MT/Hr	33.5	NG	156	
3	DG SET- 1	8MW each	30	HSD	131	Adequate Stack Height
4	DG SET- 2		30	HSD	131	
5	DG SET-3		30	HSD	131	
6	DG SET-4		30	HSD	131	
7	DG SET-5		30	HSD	131	
8	DG SET-6		30	HSD	131	
9	DG SET-7		30	HSD	131	
10	DG SET-8		30	HSD	131	
11	Incinerator (APCM,with 95%efficiency)	2 MTPD	30.5	NG	29	Adequate Stack Height and Packed bed alkali Scrubber.
12	Thermic fluid Heater - 1	2lakh Kcal/hr	36	NG	120	Adequate Stack Height
13	Thermic fluid Heater - 2	2lakh Kcal/hr	36	NG	120	
14	Thermic fluid Heater - 3	2lakh Kcal/hr	36	NG	120	
15	Thermic fluid Heater - 4	2lakh Kcal/hr	36	NG	120	
16	Thermic fluid Heater - 5	2lakh Kcal/hr	36	NG	120	
17	Thermic fluid Heater - 6	2lakh Kcal/hr	36	NG	120	

23. Unit shall provide adequate stack height/APCM as mentioned in the above table.
24. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.
25. Stack/Vents of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas

- emission.
26. There shall be no process gaseous emission from the proposed activities.
 27. Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.
 28. All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.
 29. 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 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.
 - 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.
 - A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.
 30. Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.
 31. For control of fugitive emission, VOCs, following steps shall be followed :
 - a. Closed handling and charging system shall be provided for major chemicals.
 - b. Pumps shall be provided with mechanical seals to prevent leakages.
 32. Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx 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:

33. 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 shall be obtained for collection / treatment / storage / disposal of hazardous wastes.
34. 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.
35. The unit shall obtain necessary permission from the nearby TSDF site and CHWIF.
36. Oil contaminated with waste water & sludge, Sludge and filters contaminated with oil, Contaminated aromatic, aliphatic or naphthenic solvents, may or may not be fit for reuse, Distillation Residues, Process waste (landfill incinerable), Waste /residues, Waste/residues such as filter aids, Chemical containing residue arising from denomination , Discarded containers/barrels/liners contaminates with hazardous wastes/chemical (linear) incinerable , Spent Ion Exchange Resin containing toxic metals and Oil and Grease skimming residue shall sent to in-house Incinerator or sent to authorized co-processors.
37. Spent Carbon shall be return back to supplier for regeneration or sent to in-house Incinerator or sent to authorized co-processors.
38. Lead Acid Batteries shall be return back to supplier or sent to authorized recyclers as per the Battery Rules 2016.
39. Management of Debris and construction waste, Paper waste, Plastic waste, Metal waste, wooden waste, Kitchen waste & Miscellaneous waste shall be as per the provisions of Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, the Construction and Demolition Waste Management Rules, 2016 and the Plastics Waste Management Rules, 2016
40. ETP waste, Discarded Asbestos sheet, Flue gas cleaning residue, Ash from incineration of hazardous waste, shall be disposed off at the nearby common TSDF.
41. Discarded barrels/containers/bags/liners shall be either reused or returned back to suppliers or sold only to the actual users authorized by the SPCB.
42. Used oil shall be sold only to the actual users authorized by the SPCB.
43. Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.
44. The design of the Trucks/tankers shall be such that there is no spillage during transportation
45. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
46. Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.

A. 5 SAFETY:

47. The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules

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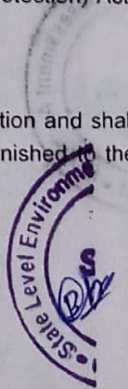
48. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller 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.
49. First Aid Box shall be made readily available in adequate quantity at all the times.
50. Main entry and exit shall be separate and clearly marked in the facility.
51. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.
52. Storage of flammable chemicals shall be sufficiently away from the production area.
53. Sufficient number of fire extinguishers shall be provided near the plant and storage area.
54. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
55. 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.
56. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.
57. Flame proof electrical fittings shall be provided in flame proof zones or wherever applicable in Plant premises
58. 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.
59. 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.
60. Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
61. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.
62. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.
63. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
64. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
65. 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.
66. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
67. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.
68. Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.

A. 6 NOISE:

69. 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:

70. The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.
71. The company shall undertake various waste minimization measures such as :
 - a. *Metering and control of quantities of active ingredients to minimize waste.*
 - b. *Reuse of by-products from the process as raw materials or as raw materials substitutes.*
 - c. *Use of automated and close filling to minimize spillages.*
 - d. *Use of close feed system into batch reactors.*
 - e. *Venting equipment through vapour recovery system.*
 - f. *Use of high pressure hoses for cleaning to reduce wastewater generation.*
 - g. *Recycling of washes to subsequent batches.*
 - h. *Recycling of steam condensate*
 - i. *Sweeping / mopping of floor instead of floor washing to avoid effluent generation.*
 - j. *Regular preventive maintenance for avoiding leakage, spillage etc.*



A. 8 GREEN BELT AND OTHER PLANTATION:

72. 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.
73. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.


B. OTHER CONDITIONS:

74. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s: Kadam Environmental Consultants, Vadodara was submitted by project proponent vide letter no. NIL dated 11/09/2017 and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.
75. Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.
76. 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 Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.
77. Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.
78. The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.
79. All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.
80. 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 for the environmental protection and management.
81. 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.
82. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
83. During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
84. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
85. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
86. 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.
87. 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 Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
88. 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.
89. 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.
90. 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.
91. 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.
92. 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.
93. 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.

94. 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.
95. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
96. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
97. 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.
98. 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.
99. This environmental clearance is valid for seven years from the date of issue.
100. 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.
101. Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.

With regards,
Yours sincerely,


(PRADEEP SINGH)
Member Secretary



Issued to:
M/s: Asian Paints Limited (Ankleshwar),
Plot No. 2602 to 2607, 2609 to 2614, 2701/A, 2701/B, 2702 and 2703,
GIDC Ankleshwar, Dist.: Bharuch

