State Environment Impact Assessment Authority, M.P.
(Government of India, Ministry of Environment, Forest & Climate Change)

Environmental Planning Coordination Organization (EPCO)
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No:2601 /SEIAA/2019
Date: 13.3.19

To,
M/s Nishit Chemicals
Mr. Girish Khandelwal, Owner,
Plot No. 51/2/1, 52/1/1, Gram Kajipalasia,
Nemawar Main Road, Indore,
MP – 452003

Sub:-Case No. 5767/2018: Prior Environment Clearance for Synthetic Organic Chemicals Industry, Production Capacity of LABSA (90%) 500 MTMP, Spent Sulhuric Acid (Dil. Acid Slurry, 70-80 %) - 495 MTPM & Detergent Soap Liquid 25 MTPM Ferric Alum 250 MTPM at Plot No. 51/2/1, 52/1/1, Gram Kajipalasia, Nemawar Main Road, Indore,MP; Land area:6310 sq.m. by M/s Nishit Chemicals through Owner, Mr. Girish Khandelwal Plot No. 51/2/1, 52/1/1, Gram Kajipalasia, Nemawar Main Road, Indore, MP - 452003 Mob: 9537706765 E-mail – girisgnishitk@gmail.com Env. Consultant San Envirotech Pvt. Ltd. Ahmedabad, Gujrat

Ref: Your application dtd. 01.10.18 received in SEIAA office on 09.10.2018

With reference to above, the proposal has been appraised as per prescribed procedure & provisions under the EIA notification issued by the Ministry of Environment & Forests vide S.O.1533(E), dtd. 14.09.06 & its amendments, on the basis of the mandatory documents enclosed with the application viz., Form I, pre-feasibility report, ToR, EMP Report, PPT and additional clarifications furnished in response observations by the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

(i) The proposed Manufacturing project of Linear Alkyl Benzene Sulphonic Acid (90% LABSA), Liquid Soap Manufacturing and Ferric Alum is planning having capacity of 20 TPD at Plot No. at Plot No. 51/2/1, 52/1/1, Gram Kajipalasia, Nemawar Main road, Indore

(ii) This is a backward integration due to proposed manufacturing of LABSA slurry. LABSA will be used for captive consumption as an in-house "Detergent Soap Liquid Manufacturing (Non-EC Product)" as well as sell to various Detergent manufacturing units for detergent powder, detergent cake, liquid scouring powder or paste. The bottom layer, which is Spent Sulphuric acid shall be used in Manufacturing of Ferric Alum and will sell to Fertilizer Industries for SSP manufacturing Industries.

(iii) The proposed project with product and production capacity as follows:-

S.No.	Name of Product	Quantity (MTPM)
1.	Detergent Soap Liquid (Non-EC Product)	25.0
	Ferric Alum (Non-EC Product)	250
2.	Linear Alkyl Benzene Sulphonic Acid (LABSA) (EC Product)	500
By Product		
1.	Dil. Sulphuric Acid (70-80%)	495

(iv) The Linear Alkyl Benzene Sulphonic Acid (LABSA) manufacturing activity is covered under 5 (f) category B of the MoEF, GoI EIA Notification, 2006 and its amendments. Project Falls under Category B2 as per the MoEF & CC OM vide J-13012/12/2013-IA.II (I) dated 24th December 2013 and its amendment/ continuation of circular dated: 13th February 2018 vide circular no- F. No. 22-76/2017-IA.III.

(v) There is no interstate boundary within 05 km and no National park, Sanctuary and Eco-sensitive areas within 05 km of the project area hence General condition are not attracted.

(vi) The total land area of the project is 6310 sq.m, PP has submitted sale deed dtd 16.02.12 and MOU registration copy for Trading Buisness.

(vii) PP has proposed that the raw materials obtained from traders and distributor from the local market mainly from Reliance Industries, IOCL & IPCL. Raw materials and finished good transported by road ways.

(viii) PP submitted that 02 tanks are proposed for storage of sulphuric acid out of which one is standby. The material will be stored in storage tank with protected vent. Foam will be available to fight hydrocarbon fire. Flameproof equipments will be used in the tank farm area.

(ix) Total water requirement (industrial + domestic + greenbelt) will be tuned around 10.1 KLD, of which 9.1 KLD will be freshwater demand and 1.0 KLD will be met from recycled water. Total water requirement for industrial purpose (process and cooling) will be 4.1 KLD. Water usage for domestic purpose and greenbelt will be 1.5 KLD and 4.5 KLD, respectively. Water requirement will be satisfied through Municipal Corporation routed through Industrial Developer.

(x) Domestic wastewater will be disposed to soak pit. Generated bleed off of cooling tower will be utilized for process input. Diluted Sulphuric Acid (70-80%) will be produced as by-product in LABSA production. The spent Sulphuric Acid shall be used in in-house Liquid Soap Manufacturing, Ferric Alum and shall be sold to outside for Fertilizer Industries as well as Liquid soap Manufacturers.

(xi) The source of solid waste/hazardous waste generation will be used oil, discarded drum / containers which will be handled & disposed as per the Hazardous & other Waste (Management & Transboundary Movement) Rules, 2016.

(xii) Used lubricating oil will reused as lubricating oil in pumps and gear box and in case of excess, will be sent to registered re-refiners. Discarded drums/containers will be sold to approved recyclers.

(xiii) There will be no process gas emission. The source of flue gas emission will be from the stand by D.G. set of 150 kVA where HSD will be used as fuel. Most probable

pollutants from D.G. set stack will be SPM, SO2, and NOx Adequate stack height will be provided to control & disperse the air pollutants within the satisfactory levels and facility for sampling such as ladder and sampling point will be provided.

(xiv) The power requirement for the project is 50 KVA, Sourced from MPPCL. Stand by D.G. set : 150 kVA (HSD: 50 ltr/hr)

(xv) PP has included Disaster Management plan in the EMP Report. For firefighting measure PP has provided Fire extinguishers and Fire Hydrants at project site.

(xvi) PP has proposed the rain water from the building roof will be directed through the drainage to the covered storm water drainage line. All drainage system will be concreted lined and located along the roads up to rain water harvesting pit. Roof top rain water will be collected in tanks and reused after filtration as per requirements.

(xvii) As part of CSR activity PP has proposed to provide drinking water; sanitation facilities to villagers; Contribution towards primary health services depending on local needs, Public health and family welfare, Rural infrastructure development by construction of rainwater harvesting ponds, check dams etc.& greenbelt development in and around the project site.

(xviii) PP has proposed green area of 2082 sq.m. (33% of the total plot area) with plantation of local species trees. PP has explored the possibility to develop the greenbelt in areas available outside the plant premises.

Based on the information submitted at Para i to xviii above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 516th meeting held on 20.12.18 and decided to accept the recommendations of 335th SEAC meeting held on dtd 01.12.2018

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14th September 2006 & its amendments to the proposed Synthetic Organic Chemicals Industry, Production Capacity of LABSA (90%) 500 MTMP, Spent Sulhuric Acid (Dil. Acid Slurry, 70-80 %) - 495 MTPM & Detergent Soap Liquid 25 MTPM Ferric Alum 250 MTPM at Plot No. 51/2/1, 52/1/1, Gram Kajipalasia, Nemawar Main Road, Indore,MP; Land area:6310 sq.m. by M/s Nishit Chemicals through,Owner, Mr. Girish Khandelwal Plot No. 51/2/1, 52/1/1, Gram Kajipalasia, Nemawar Main Road, Indore, MP – 452003 subject to the compliance of the Standard Conditions and the following additional Specific Conditions as recommended by SEIAA & SEAC in its meetings.

A. Specific Conditions as recommended by SEIAA

1. PP should ensure to water supply from Municipal Corporation through industrial developed and there shall be no extraction of ground water.
2. Ensure to provide fully covered storage facility at the factory site for hazardous and inflammable substances.
3. Ensure the transportation of raw / finished material only by covered vehicles.
4. Ensure the storage and handling of all the chemicals in a proper and safe manner to avoid any spillages and also to prevent runoff contamination in monsoon.
5. Ensure collection & treatment of spillages, if any.
6. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of hazardous chemicals.
7. 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. Close handling system for chemicals shall be provided

8. PP should maintain zero discharge from the Industry.
9. Industrial effluent generation shall be completely evaporated with help of Evaporator so as to achieve zero discharge.
10. There shall be no industrial effluent discharge from the unit.
11. The performance of air pollution control system should be regularly monitored and maintained. Regular stack monitoring & ambient air quality monitoring should be carried out as per the guidelines/norms of MPPCB/CPCB.
12. PP should obtain Authorization from the competent authority (TSDF, Pithampur) for disposal of hazardous wastes.
13. PP should obtain authorization from MPPCB for collection / treatment / storage / disposal of hazardous wastes.
14. PP should ensure handling, disposal and management of hazardous waste as per the related prescribed rules.
15. PP should ensure disposal of hazardous waste regularly through sale or in TSDF site and there should be no dumping of these materials in the premises/outside.
16. PP should provide RCC layer and double layered HDPE lining for primary and secondary leachate collection.
17. Discarded bags/liners/containers shall be either reused or sold to the registered recyclers.
18. Used oil shall be either reused in lubrication of the plant machineries or sold to the registered recyclers
19. PP should obtain approval of the Competent Authority for Health and safety, Onsite disaster management plan, Risk management plan before commencing of the project.
20. PP should obtain approval of the Competent Authority for Firefighting before commencing of the project.
21. PP should ensure plantation in three rows all along the periphery of the project area, and along the roads area subject to minimum of 33% of total plot area. PP should ensure plantation of the trees of indigenous local varieties like Neem, Peepal, Kadam, Kachnaar etc. Every effort should be made to protect the existing trees on the plot.
22. PP should ensure the implementation of CSR activities to the extent on regular basis in consultation with the Gram Panchayat of the respective village.
23. 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.
24. Total quantity of runoff water generated and green belt area should be collected in underground tank & used for process in plant to minimize fresh water requirement.

B. Specific Conditions as recommended by SEAC

(A) PRE-CONSTRUCTION PHASE

25. During any construction/plant erection activity, proper curtaining of site should be carried out to protect nearby areas.
26. For dust suppression, regular sprinkling of water should be undertaken.
27. PP will obtain other necessary clearances/NOC from respective authorities.
28. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe

drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.

(B) CONSTRUCTION PHASE

29. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.

30. 50 meters area shall be left as non industrial area from the road and thick green belt shall be developed in this area.

31. Fire extinguishers should be provided on site during construction/ plant erection period.

32. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.

33. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.

34. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 2082 sq.m meter area will be developed as green belt. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.

35. MSW of various labours generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.

36. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

37. Total water requirement will be 10.1 KLD, of which 9.1 KLD will be freshwater demand and 1.0 KLD will be met from recycled water.

38. The domestic waste water 1.3 KLD will be disposed in the soak pit.

39. No industrial effluent from the unit shall be discharged outside the plant premises and Zero discharge shall be maintained. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom and data connectivity must be provided to the MPPCB's server for remote operations.

40. Hazardous wastes should be disposed off as per the authorization issued by MP Pollution Control Board.

41. Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.

42. An integrated sensor based alarm system shall be provided by the PP to indicate any leakage of sulphuric acid form process and storage tanks. Automatic smoke, heat detection system should also be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.

43. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes. An acid proof dyke wall shall also be provided all around the storage area.

44. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.

45. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.

46. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.

47. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.

48. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.

49. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.

50. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.

51. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended, the Public Liability Insurance Act for handling of hazardous chemicals, Plastic Waste Management Rules 2016, e-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016 etc.

52. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.

53. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.

(D) ENTIRE LIFE OF THE PROJECT

54. The proposed EMP cost is Rs. 19.00 lacs and Rs. 7.50 lacs/year are proposed as recurring expenses out of which Rs. 03.50 lacks is proposed for green belt development as capital and Rs. 02.50 lacks /year for recurring expenses for plantation proposed in the EMP.

55. Under CSR activity, Rs. 6.00 lacks are proposed for spent in different activities and should be implemented through respective committees.

56. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell.

57. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.

58. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.

59. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.

60. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

Standard Conditions:

1. The company shall install an effluent treatment plant to treat the effluent generated due to proposed activity. The treated water shall be utilized within the premises to achieve zero discharge.
2. The project authority shall obtain the membership of CTSDF (Common Treatment Storage & Disposal Facility) for disposal of solid and hazardous waste (if applicable) and copy of the same shall be submitted to the Regional Office of MoEF, GoI at Bhopal. The company shall maintain the valid membership of CTSDF.
3. The process emissions, VOCs and particulate matter form various units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission level shall go beyond the stipulated standards.
4. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by MPPCB.
5. The company shall carry out the HAZOP study and the report shall be submitted to Regional Office of MoEF, GoI at Bhopal.
6. The company shall develop greenbelt in the project area as per the guidelines of CPCB to mitigate the effect of fugitive emission.
7. During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixings of accidental spillages with domestic waste and storm drains.
8. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
9. Industry should get the Emergency Disaster Management Plan approved by DTHS and should also comply with the provisions made in Public Liability Insurance Act, 1991.
10. All activities / mitigative measures proposed by PP in Environmental Impact Assessment must be ensured.
11. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies.
12. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of raw material and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. No overloading of raw material for transportation shall be committed.
13. The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water.
14. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Regional office of the Ministry of Environment and Forest, Bhopal and MP PCB.
15. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained (as and when applicable), by the project proponent from the respective competent authorities.

16. The Regional Office, MoEF, GoI, Bhopal and MP PCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan, should be given to Regional Office, MoEF, GoI, Bhopal and MP PCB.

17. A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat and Municipal Bodies as applicable in addition to the concerned Government Departments / organization responsible for controlling the proposed projects who in turn has to display the same for 30 days from the date of receipt.

18. The project proponent has to strictly follow directions/guideline issued by the MoEF, GoI, CPCB and other Govt. agencies from time to time.

19. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the State Level Environment Impact Assessment Authority (SEIAA) website at **www.mpseiaa.nic.in** and a copy of the same shall be forwarded to the Regional Office, MoEF, GoI, Bhopal and MP PCB.

20. The Project Proponent has to upload soft copy of half yearly compliance report of the stipulated prior environmental clearance terms and conditions on 1st June and 1st December of each calendar year on MoEF & CC web portal - http://www.environmentclearance.nic.in/ or http://www.efclearance.nic.in/ and submit hard copy of compliance report of the stipulated prior environmental clearance terms and conditions to the Regulatory Authority also

21. The SEIAA of M.P. reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

22. Action plan with respect to suggestion/improvement and recommendations made and agreed during public hearing consultation shall be submitted to the Regional Office, MoEF, GoI, Bhopal, MP PCB within six months.

23. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.

24. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

25. 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.

26. Any appeal against this prior environmental clearance shall lie with the Green Tribunal, if necessary, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

27. The prior Environmental Clearance granted for the project is valid for a period of five years as per EIA notification dtd. 14.09.2006.

28. 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 sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

29. 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 Regional Office of MoEF.

(Jitendra Singh Raje)
Member Secretary

2602

Endt No. / SEIAA/ 2019 Dated 13.3.19

Copy to:-

(1). Principal Secretary, Urban Development & Environment Deptt. 3rd Floor, Mantralaya Vallabh Bhawan, Bhopal.

(2). Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-462016.

(3). Member Secretary, MPPCB, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016.

(4). The Collector, District Indore, M.P.

(5). Managing Director, M.P. Audyogik Kendra Vikas Nigam (Indore) Limited, Free Press House First Floor,3/54 Press Complex, Agra–Mumbai Highway Indore(M.P).

(6). Director, I.A. Division, Monitoring Cell, MoEF, GoI, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110 003

(7). Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.

(8). Guard file.

(Dr. Sanjeev Sachdev)
Officer-in-Charge