

F. No. J-11011/363/2016-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

Indira Paryavaran Bhawan  
Jorbagh Road, New Delhi -3  
Dated: 2<sup>nd</sup> January, 2018

To

M/s Deepak Nitrite Limited  
Plot No. 1-7 & 26-31  
MIDC Industrial Area Dhatav, Roha  
District **Raigad** (Maharashtra)

**Sub: Modernization with Change in Product Mix of Existing Manufacturing Facility for Synthetic Organic Chemicals and Specialty Chemicals at Plot No. 1-7 & 26-31, MIDC Industrial Area Dhatav, Taluka Roha, District Raigad (Maharashtra) by M/s Deepak Nitrite Limited-Environmental Clearance-reg.**

Sir,

This has reference to your online proposal no. IA/MH/IND2/63448/2016 dated 27<sup>th</sup> April, 2017, along with project documents namely, EIA/EMP Report for the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance for modernization with change in product mix of existing manufacturing facility for synthetic organic chemicals and specialty chemicals (822 TPM to 740 TPM) at Plot No. 1-7 & 26-31, MIDC Industrial Area Dhatav, Taluka Roha, District Raigad (Maharashtra) by M/s Deepak Nitrite Limited.

3. The existing and proposed products are as under:

S. No.	Existing Products	Existing Capacity (TPM)	Proposed Products	Proposed Capacity (TPM)
1	Para Cumidine(PC) or 2 Ethyl Hexy Nitrite	200	Para Cumidine(PC) or 3 Amino BenzotriFlouride (3ABTF)	200
2	Ortho Anisidine(OA) or Tri Methyl Hydro Quinine	75	Ortho Anisidine(OA) or Tri Methyl Hydro Quinine(TM HQ)	50
3	2,4 Xylidine and 2,6 Xylidine or nitrobenzene or 2,3 Xylidine and 3,4 Xylidine	250	2,4 Xylidine and 2,6 Xylidine or 2,3 Xylidine and 3,4 Xylidine or 2,5 Xylidine and 2,3 xylenol 2,4 and 2,5 Xylenol	250
4	Meta Cholro Aniline or Diphenyl Amine Derivatives	50	Diphenyl Amine Derivatives	50
5	Crystal Diethyl Meta	55	Crystal Diethyl Meta	40



	DEMAP) or Dibutyl Para Phenylene Di amine (DBPPDA )	50	DEMAP) or Dibutyl Para Phenylene Di amine (DBPPDA or 3 NAP (3 Nitro AcetoPhenone)/ or 3AAP(3Amino AcetoPhenone) or 3 HAP (3 HydroxyAcetoPhenone)	
6	TFMAP(3- (trifloromethylacetopheno n MePPDASulphate (2 Methyl P- phenyleneDiamineSulpha te) or 1,3 CHD(1,3 Cyclohexane dione)' or 4-NAX (Benenamime, N-(1-ethyloropy)-3-4- dimethyl)	55 50 22 10	TFMAP(3-(trifloromethyl) acetophenon	80
7	Pilot Plant Products 1,3 CHD(1,3 Cyclohexane dione) and SMIA(synMethoximino (2 furanyl)acetic acid	5	2 MePPDASulphate (2 Methyl P-phenylene DiamineSulphate) or 1,3 CHD(1,3 Cyclohexane dione)	60
8	--	--	Pilot Plant Products (synthetic Organic Chemicals)	10
<b>Total</b>		<b>822</b>		<b>740</b>

4. The existing land area is 26624 m<sup>2</sup> and no additional land will be required for the proposed modernization project. Green belt of 12281 m<sup>2</sup> is proposed to be developed in the premises/adjacent plot in the MIDC area. The total cost of the project is Rs.38.68 crore.

5. There are no National parks, Wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, Wildlife corridors etc within 10 km distance from the project site. Kundalika river is flowing at a distance 1 km in North Direction.

6. The total fresh water requirement after the project will be 519 m<sup>3</sup>/day and will be met from MIDC Dhatav water supply.

The effluent generated (243 m<sup>3</sup>/day) will be treated through ETP having primary and secondary treatment. High TDS stream will be treated separately in MEE. Effluent treated as per MPCB norms is being disposed to CETP for disposal.

The existing power requirement is 2100 KW and no additional power requirement is envisaged due to the proposed project. The power requirement will be met from Maharashtra State Electricity Distribution Co Ltd (MSEDCL).

Existing unit has 3 DG sets (750 KVA, 640 KVA and 500 KVA) as standby. These will be used during power failure as per requirement. No additional DG sets are required. Stack (height 4.5 m) has been provided as per CPCB norms.



Existing unit has 8 TPH steam boiler using Indian/Imported coal. Additionally, 8 TPH boiler is used as stand by in which furnace oil is used. Unit has a thermopac of capacity 6 Lac Kcal/hr where Indian/Imported coal is used. In addition, unit has two 4 Lac Kcal/hr thermopacs for which furnace oil is being used. These are standby thermopacs. Cyclone separator with bag filter and stack of height of 34 m is provided as APC.

7. All Synthetic organic chemicals industries located in notified industrial area/estate are listed at S.N. 5(f) under Category 'B'. The terms of reference (ToR) was issued vide Ministry's letter dated 28<sup>th</sup> February, 2017 exempting public consultation as per Section 7(i), III. Stage (3), Para (i)(b) of EIA Notification, 2006.
8. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 23<sup>rd</sup> meeting held during 3-5 May, 2017 and 25<sup>th</sup> meeting held during 5-7 July, 2017 in the Ministry. The project proponent and their consultant M/s Goldfinch Engineering Systems Private Limited presented the EIA/EMP report as per the ToR. The Committee found the EIA/ EMP Report to be satisfactory and in consonance with the presented ToR. The Committee has recommended the proposal for grant of environmental clearance.
9. Subsequent to recommendations of the sectoral EAC, and SEIAA in Maharashtra not functional for the present, the proposal for environmental clearance to the project was taken forward in the Ministry.
10. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project "Modernization with change in product mix of existing manufacturing facility for synthetic organic chemicals and specialty chemicals" from 822 TPM to 740 TPM by M/s Deepak Nitrite Limited at Plot No. 1-7 & 26-31, MIDC Industrial Area Dhatav, Taluka Roha, District Raigad (Maharashtra), under the provisions of EIA Notification, 2006 and the amendments made therein, subject to the compliance of terms and conditions, as under:-
  - (i) Locally available raw materials shall not be stored for more than three days.
  - (ii) Green belt of atleast 10 m width shall be developed along the periphery of the plant (excluding the existing building/storage area) with three layers of trees. At least 33 % of the area shall be developed/compensated as green area with trees.
  - (iii) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.'
  - (iv) Fresh water requirement shall be restricted to 420m<sup>3</sup>/Day.



- (v) Smart energy conservation equipments (like LED/solar light) shall be installed in the factory and premises.
- (vi) 25 % of the total power requirement shall be produced from solar power/renewable energy sources.
- (vii) Hazardous Waste shall be handled and disposed as per the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and necessary permissions shall be obtained under the said rules.
- (viii) The by-products which fall under the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.
- (ix) Solid Waste shall be handled as per the provisions of the Solid Waste Management Rules, 2016 and necessary permissions shall be obtained under the said rules.
- (x) Unit shall have an environment management cell with full-fledged laboratory and an Environmental Manager having Post Graduate/Graduate qualification in Environmental Sciences/Environmental Engineering.
- (xi) Enterprises Social Commitment (ESC) plan shall be implemented with atleast 5 % of the expansion cost.

**10.1.** The grant of environmental clearance is subject to compliance of other generic conditions, as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the State Government, Central Pollution Control Board, State Pollution Control Board and any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be followed.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment




(Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management and risk mitigation measures relating to the project shall be implemented.
- (ix) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.
- (x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.
- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-




- (xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (xvi) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
11. The Ministry may revoke or suspend the clearance, at subsequent stages, if implementation of any of the above conditions is not satisfactory.
12. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
13. The above conditions will be enforced, inter alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water 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, read with subsequent amendments therein.

  
2/11/2018  
**(S. K. Srivastava)**  
**Scientist E**

**Copy to:-**

1. The Secretary, Environment Department, Government of Maharashtra, 15<sup>th</sup> Floor, New Administrative Building, Mantralaya, Mumbai- 32
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur-1
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai-22
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi - 3
6. Guard File/Monitoring File/Website/Record File

  
2/11/2018  
**(S. K. Srivastava)**  
**Scientist E**

**F.No. J-11011/363/2016-IA II (I)**  
Government of India  
Ministry of Environment, Forest & Climate Change  
IA-II Division

Indira Paryavaran Bhawan  
Jorbagh Road, New Delhi -3  
Dated: 12<sup>th</sup> April, 2018

To

M/s Deepak Nitrite Limited,  
Plot No.1-7 & 26-31,  
MIDC Industrial Area Dhatav, Roha,  
District **Raigad** (Maharashtra)

**Sub: Modernization with Change in Product Mix of Synthetic Organic Chemicals and Specialty Chemicals by M/s Deepak Nitrite Limited at Plot No.1-7 & 26-31, MIDC Industrial Area Dhatav, Taluk Roha, District Raigad (Maharashtra) - Amendment in Environmental clearance - reg.**

Sir,

This refers to your online proposal No. IA/MH/IND2/72778/2018 dated 8<sup>th</sup> January, 2018 for amendment in the environmental clearance granted by the Ministry vide letter dated 2<sup>nd</sup> January, 2018 for the above project.

2. The Ministry of Environment, Forest and Climate Change has examined the above proposal for amendment in the environmental clearance granted by the Ministry vide letter dated 2<sup>nd</sup> January, 2018 in favour of M/s Deepak Nitrite Limited, to the project 'Modernization with Change in Product Mix of Synthetic Organic Chemicals and Specialty Chemicals' at Plot No.1-7 & 26-31, MIDC Industrial Area Dhatav, Taluk Roha, District Raigad (Maharashtra).

3. The proposal was considered by the Expert Appraisal Committee (Industry-2) in the Ministry in its 34<sup>th</sup> meeting held on 26-28 February, 2018. The Committee, after deliberations, has recommended the proposed amendments in para 3 of the said environmental clearance, in the following manner:

(a) .....List of By-products: -

S.No	Existing by-products	Capacity (TPM)	Proposed by-products	Capacity (TPM)
1	Ortho Nitro Cumene (from p-cumidiene)	150	Ortho Nitro Cumene (from p-cumidiene)	150
2	PPO (Poly phenylene Oxide) from product tri methyle hydro quinine	201	2 NBTF (2 Nitro BTF) / 2 ABTF (2 Amino BTF)/ 4 ABTF (4 Amino BTF) from 3 Amino BTF	41
3	Ortho Toludine (OT)	20	PPO (Poly phenylene Oxide)	135
4	-	-	OHBTf/OA BTF from TFMAP	20
5	-	-	Ortho Toludine (OT)	25
	<b>Total</b>	<b>371</b>	<b>Total</b>	<b>371</b>

(b) Details of solid waste/hazardous waste generation and its management: -

Used spent oil (91 MTPM), Spent Chemical/Acid (836 MTPM) and Spent Chemicals (91 MTPA) shall be sold to authorized reprocessor. Discarded containers/barrels/liner (25 Nos.), Chemical sludge from waste water treatment (50 MTPM), Distillation residue from contaminated



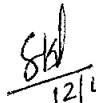
organic solvents (28 MTPM) & MEE Salts (1778 MTPM) shall be disposed off to CHWTSD, Taloja or sold to authorized recyclers. Spent catalyst (0.07 MTPM) shall be send back to authorized party.

(c) Details of process emissions generation and its management: -.

<b>Equipment</b>	<b>Control</b>	<b>Stack height (m)</b>
Nitration	Scrubber-1	8.5


4. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the proposed amendments in the environmental clearance dated 2<sup>nd</sup> January, 2018, as stated in para 3 above, for the project 'Modernization with Change in Product Mix of Synthetic Organic Chemicals and Specialty Chemicals' by M/s Deepak Nitrite Limited at Plot No.1-7 & 26-31, MIDC Industrial Area Dhatav, Taluk Roha, District Raigad (Maharashtra).

5. All other terms and conditions stipulated in the environmental clearance dated 2<sup>nd</sup> January, 2018 shall remain unchanged.

  
12/4/2018  
(S. K. Srivastava)  
Scientist E

**Copy to: -**

1. The Secretary, Environment Department, Government of Maharashtra, MECL Building, Dr. Ambedkar Bhawan, Seminary Hills, Civil Lines, **Nagpur-440006** (Maharashtra)
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), **Nagpur** (Maharashtra)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, **Delhi - 32**
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> floor, Opp. Cine Planet, Sion Circle, **Mumbai - 400 022** (Maharashtra)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, **New Delhi**
6. Guard File/Monitoring File/Record File

  
12/4/2018  
(S. K. Srivastava)  
Scientist E