

F.No.J-11011/167/2016-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division

Indira Paryavaran Bhawan
Jor bagh Road, Delhi - 3
Dated: 2nd September, 2019

To,

M/s Deepak Fertilizers and Petrochemicals Corporation Limited
Plot K1-K5, MIDC Industrial Area,
Taloja, District **Raigad** (Maharashtra)

Sub: Expansion of fertilizer plant of M/s Deepak Fertilizers and Petrochemicals Corporation Limited at Plot K1-K5, MIDC Industrial Area, Taloja, District Raigad (Maharashtra) - Environmental Clearance - reg.

Ref.: Online proposal No.IA/MH/IND2/53379/2016 dated 27th April, 2017.

Sir,

This has reference to your online proposal No.IA/MH/IND2/53379/2016 dated 27th April, 2017 for environmental clearance to the above project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of fertilizer manufacturing unit from 6 Lakh MTPA to 11.25 Lakh MTPA by M/s Deepak Fertilizers and Petrochemicals Corporation Limited in an area of 3,03,619.4 sqm at Plot K1-K5, MIDC Industrial Area, Taloja, District Raigad (Maharashtra). The project involves increase in production capacity of multiple grades of NPK fertilizers from 6 lakh to 8 lakh MTPA, and to continue the production of Ammonium Nitro Phosphate @325000 MTPA with the existing ANP Plant.

3. The details of the products presently manufactured and after the proposed expansion are as under:-

S. No.	Name of Product	Production Capacity (MTPA) unless mentioned		
		Existing	Proposed	Total
	Proposed Expansion			
1.	NPK fertilizers	6.0 Lakh	3.25* +2 Lakh	11.25 Lakh
	Existing Products			
1	Liquid CO ₂	72,000	-	72,000
2	Ammonia	1,40,400	-	1,40,400
3	Methanol	99,996	-	99,996
4	Weak Nitric Acid	4,45,500	-	4,45,500
5	Concentrated Nitric Acid	1,29,600	-	1,29,600
6	** Ammonium Nitrate Phosphate	3,24,900	-	3,24,900
7	Low Density Ammonium Nitrate Plus Ammonium Nitrate Melt	1,44,000	-	1,44,000
8	Iso Propyl Alcohol (IPA)	70,200	-	70,200



9	Electric Power	9.4 MW	-	9.4 MW
10	Steam	1,056	-	1,056
11	Bentonite Sulphur Pastilles	25,000	-	25,000
12	Ammonium Nitrate Prills (Low Density)	2,00,000	-	2,00,000
13	Ammonium Nitrate Prills (High Density)	1,00,000	-	1,00,000
14	Iso Propyl Alcohol (For drum filling operation)	15,000	-	15,000
15	Di Iso Propyl Ether (DIPE) (For drum filling operation Packaging operation)	15,000	-	15,000
16	Gas Based Power Generation (Excluding DG Sets)	17.9 MW	-	17.9 MW
BY – PRODUCT				
1	Propane	33,000	-	33,000
2	Calcium Phosphate	210	-	210
3	Crude DIPE	1,440	-	1,440
4	Hydrogen Gas	960	-	960
5	Crude IPA/NPA Mixture	1,080	-	1,080

* Existing 3.25 Lakh MTPA ANP (Prilling) plant to be put for continuous operation.

4. Existing land area is 303619.4 m² within MIDC. No additional land will required for the proposed expansion. The estimated cost for the proposed expansion is Rs.190 crores. Total capital cost earmarked towards environmental pollution control measures is Rs.1.975 crore and the recurring cost (O&M) will be about Rs. 0.19 crore per annum. Total employment will be provided to 35 persons as direct & 20 persons indirect.

5. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc within 10 km. River Karsadi flows at 1 km in South West.

6. Total water requirement is estimated to be 20,346 cum/day, which includes fresh water requirement of 19,196 cum/day proposed to be met from MIDC water supply. Total effluent generated will be 2,876 cum/day, which will be treated in the existing ETP followed by RO of capacity 4,800 cum/day. Permeate water from the RO will be reused in plant while RO reject will be sent to CETP for further treatment.

Power requirement will be 315.5 MW proposed to be met from Maharashtra State Electricity Distribution Company Limited. Existing unit has 7 DG sets of total capacity 5,710 KVA. No additional DG sets would be required for the proposed expansion. Process/fresh steam from existing facilities will be used to meet the requirements.

7. Details of solid/ hazardous waste generation and its management are as follows:

S. No.	Type	Unit	Quantity			Method of disposal
			Existing	Proposed	Total	
1	Used/spent oil	TPA	126.5	3.49	130	Sale to Authorized party approved by MPCB / CPCB
2	Wastes/residue containing oil	TPA	50.1	4.878	55	CHWSTDF

3	Spent catalyst	TPA	110	0	110	Sale to recycler / CHWSTDF
4	Spent catalyst	TPA	48.3	0	48.3	Sale to Authorized party approved by MPCB / CPCB
5	Date-expired, discarded and off-specification product	TPA	734	0	734	Sale to recycler
6	Residues and wastes	TPA	38	2	40	Sale to recycler / CHWSTDF
7	Discarded containers/ barrels / liner	Numbers	346	0	346	Sale to authorized party for decontamination
			3,012	0	3,012	CHWTSDf
			800	100	900	CHWTSDf

8. The project/activities are covered under category A of item 5(a) 'Chemical fertilizers' of the schedule to the Environment Impact Assessment Notification, 2006, and require appraisal/approval at central level by the sectoral EAC in the Ministry.

9. The Terms of reference for the project was granted on 21st September, 2016. Public hearing was conducted by the State Pollution Control Board on 31st January, 2017.

10. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meetings held on 5-7 July, 2017 & 26-28 June, 2019, wherein the project proponent and their accredited consultant presented the EIA/EMP Report. The Committee found the EIA/EMP report to be satisfactory, complying with the ToR, and recommended the project for grant of environmental clearance.

11. Based on the proposal submitted by the project proponent and recommendations of the EAC, Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for **expansion of fertilizer manufacturing unit from 6 lakh MTPA to 11.25 lakh MTPA** by M/s Deepak Fertilizers and Petrochemicals Corporation Limited at Plot K1-K5, MIDC Industrial Area, Talaja, District Raigad (Maharashtra), under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as below:-

(a) Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board.

(b) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

(c) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

(d) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

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- (e) National Emission Standards for Fertilizer Industry issued by the Ministry and amended from time to time shall be followed.
- (f) 10 m wide green belt of perennial trees around periphery of the plant shall be provided.
- (g) Fresh water requirement shall not exceed 17000 m³/day from MIDC water supply and prior permission shall be obtained from the concerned authority.
- (h) Only 1500 m³/day waste water shall be sent to CETP.
- (i) Closed cooling system shall be provided to the cooling towers.
- (j) As proposed adequate scrubbers shall be provided to all reactors. The efficiency of scrubbers shall be more than 99.9%.
- (k) 1000 trees/year shall be planted during 5 years in nearby villages with the consultation of the villagers. Survival rate of plants shall be reported to RO, MoEF&CC in 6 monthly compliance reports.
- (l) At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) and shall be used only for providing laptops to the school student through school management.
- (m) A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.
- (n) Scrubbers shall be provided to all emissions sources.
- (o) Continuous online (24x7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB.
- (p) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (q) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (r) The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.

11.1 The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or 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 16th November, 2009 shall be complied with.
- (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 to recharge ground water, and to utilize the same for different industrial operations within the plant.
- (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 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, risk mitigation measures and public hearing shall be implemented.
- (ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.
- (x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (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, ZilaParisad/ 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-mail.

(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.

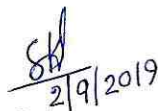
12. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

13. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991, read with subsequent amendments therein.


2/9/2019
(S. K. Srivastava)
Scientist E

Copy to:-

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


2/9/2019
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