

F. No. J-11011/159/2013- IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

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Dated: 3rd March, 2016

To,
Shri Mauilk Jayantibhai Patel, Director
M/s Meghmani Unichem Ltd
Plot No. Z/34 Village : Dahej,
Tal.: Vagra Dist.:Bharuch 392 130

E-mail: maulik@meghmani.com ; Fax No.- 079 26467335

Subject: Agro/Chemical Intermediate manufacturing unit at Plot no. Z/34, Dahej, SEZ, Taluka Vagra, District Bharuch, Gujarat by M/s Meghmani Unichem Ltd- reg. Environmental Clearance

Ref.: Your online proposal no. IA/GJ/IND2/28700/2013 dated 22nd June, 2015.

Sir,
This has reference to your online proposal no. IA/GJ/IND2/28700/2013 dated 22nd June, 2015 alongwith project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP Report regarding above mentioned project.

2.0 The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that proposal is for setting up of Agro/chemical Intermediate Manufacturing Unit at Plot No. Z/34, Dahej SEZ Area, Taluka Vagra, District Bharuch, Gujarat. Total plot area is 53,830 m² of which, area earmarked for greenbelt is 17765 m². Cost of project is Rs.100 Crore. It is reported that no wildlife sanctuary and reserve forest is located within 10 km distance. Following products will be manufactured:

Plant	S.N.	Name of Product	Quantity (MTPM)
A	1	3,4 OR 2,3 OR 2,4 OR 2,5 OR 2,6 (Dichloro Nitro Benzene)	800
	2	2,4,5 OR 2,3,6 (Trichloro Nitro Benzene)	
	3	Ortho OR Meta OR Para (Chloro Aniline)	1200
	4	2,3 OR 2,5 OR 3,4 OR 2,4 OR 2,6 (Dichloro Aniline)	
	5	2,4,5 - Trichloro Aniline	
	6	Ortho OR Para Anisidine	
	7	2 - Methyl Cyclohexyl Acetate	
	8	2 - Tertiary Butyl Cyclohexyl Acetate	
	9	4 - Tertiary Butyl Cyclohexyl Acetate	
	10	4 - Chloro 2-hydroxy Aniline	1000
	11	p-Hydroxyaniline	
B	12	Paracetamol	1200
C	13	Pigment Red-122	40
	14	Pigment Violet-19	
	15	Pigment Violet-23	50
	16	Dispersion Blue	50



Plant	S.N.	Name of By-Product	Quantity (MTPM)
A	1	Spent Sulphuric Acid	648.5
B	2	Dil. Acetic Acid	1677.71
C	3	Dil. Acetic Acid	50
	4	Dil. Phosphoric Acid	1027
	5	Dil. CS Solution	142.5
	6	Dil. Nitric Acid	87.5
	7	Resist Salt Solution	760

3.0 ESP alongwith stack of adequate height will be provided to coal/lignite fired boiler to control particulate matter. Scrubber will be provided to control process emissions. Fresh water from GIDC water supply will be exceed 1410 m³/day. Effluent generation will be 976 m³/day. Effluent will be segregated into High COD/TDS and low COD/TDS effluent streams. High COD/TDS effluent stream will be passed through steam stripper followed by evaporation in multiple effect evaporator (MEE). Low COD/BOD effluent stream and condensate of MEE will be treated in the effluent treatment plant (ETP). Treated effluent will be discharged into GIDC drain leading to marine discharge Domestic sewage should be treated in the sewage treatment plant (STP). Condensate and recover water will be recycled/reused within factory premises. All the solvent storage will be connected to a vent system through chilled water condensers to prevent loss of solvents. Process organic residue and spent carbon will be sent to cement industries. ETP sludge, process inorganic & evaporation salt will be disposed off to the TSDF. Waste oil/spent oil will be sold to registered recyclers/re-processors.

4.0 Public hearing was exempted as per section 7 (i), (iii) Stage (3), Para (i)(b) of EIA Notification, 2006.

5.0 All units producing technical grade pesticides are listed at S.N. 5(b) under category 'A' and appraised at Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its meetings held during 29th – 31st July, 2013, 17th – 19th February, 2015 and 16th-17th December, 2015 respectively. Project Proponent and the EIA Consultant namely M/s Anand Consultants, have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

- i) National Emission Standards for Pesticide Manufacturing and Formulation Industry issued by the Ministry vide G.S.R. 46(E) dated 3rd February, 2006 and amended time to time shall be followed by the unit.
- ii) Company shall not manufacture banned agrochemical products.
- iii) ESP shall be provided to coal/lignite fired boiler to control particulate matter. Continuous air emission monitoring system to be installed from the stack. The gaseous emissions should be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

- iv) Scrubber will be provided to control process emissions. The scrubbed water should be sent to ETP for further treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. Scrubbers vent shall be provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters. At no time, the emission levels shall go beyond the prescribed standards. The system should be interlocked with the pollution control equipments so that in case of any increase in pollutants beyond permissible limits, plant should be automatically stopped.
- v) In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. Odour management plan shall be implemented.
- vi) Solvent management shall be carried out as follows :
- i. Chilled brine circulation system shall be provided to condensate solvent vapors and reduce solvent losses. It shall be ensured that solvent recovery should not be less than 95%.
 - ii. Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
 - iii. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery
 - iv. Solvents shall be stored in a separate space specified with all safety measures.
 - v. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
 - vi. Entire plant shall be flame proof. The solvent storage tanks should be provided with breather valve to prevent losses.
- vii) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- viii) The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its 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 GPCB. The levels of PM₁₀, PM_{2.5}, SO₂, NO_x, VOC and CO in ambient air and emissions from the stacks shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.
- ix) Total water requirement from GIDC water supply shall not exceed 1410 m³/day and prior permission shall be obtained from the Competent Authority.
- x) Industrial effluent generation shall not exceed 976 m³/day. Effluent shall be segregated into High COD/TDS and low COD/TDS effluent streams. High COD/TDS effluent stream shall be passed through steam stripper followed by evaporation in MEE. Low COD/BOD effluent stream and condensate of MEE will be treated in ETP. Treated effluent will be discharged into GIDC drain leading to marine discharge. Domestic sewage should be treated in STP.
- xi) Treated effluent should be passed through guard pond. Automatic /online monitoring system (24 x 7 monitoring devices) for pH meter, flow meter and TOC analyzer should be installed. The data to be made available to the respective SPCB and in the Company's website.
- xii) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.

- xiii) Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.
- xiv) A proper Leak Detection and Repair (LDAR) Program for pesticide industry shall be prepared and implemented as per the CPCB guidelines.
- xv) Alarm for chlorine leakage if any in the liquid chlorine storage area is provided alongwith automatic start of the scrubbing system.
- xvi) As proposed, process organic residue and spent carbon shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.
- xvii) The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained.
- xviii) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended in October, 1994 and January, 2000. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- xix) Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing alongwith the storm water. Direct exposure of workers to fly ash & dust should be avoided.
- xx) 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.
- xxi) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xxii) All the recommendations made in the risk assessment report shall be satisfactorily implemented.
- xxiii) As proposed, green belt over an area of 17765 m² shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xxiv) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government 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 and Forests. 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 Gujarat Pollution Control Board (GPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. 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).
- v. 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.
- vi. During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
- vii. Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.
- viii. 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.
- ix. The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
- x. The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.
- xi. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiii. The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests 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.
- xiv. 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 who suggestions/ representations, if any, were received while processing the proposal.
- xv. 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, the respective Zonal Office of CPCB and the Gujarat Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

- xvi. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Gujarat 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 Bhopal Regional Offices of MoEF by e-mail.
- xvii. 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://envfor.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.
- xviii. 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.
- 8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 9.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
- 10.0 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 Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.



(Lalit Bokolia)
Additional Director

Copy to :-

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010, Gujarat.
2. The Chief Conservator of Forests (Western Zone), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal -462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar- 382 043, Gujarat.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi.
6. Guard File/Monitoring File/Record File.



(Lalit Bokolia)
Additional Director