F. No. J-11011/04/2016-IA.II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
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Dated: 15th June, 2017

To,

The General Manager
(Shri Satish Patel)
M/s Hemani Intermediates Pvt. Ltd. (Unit-V)
Plot NO.73, 74, GIDC Saykha, Taluka Vagra,
District Bharuch, Gujarat

Sub: Setting up of Specialty Chemicals, Pigments & Pesticide Plant (22000 MTPM) at Plot No. 73, 74, GIDC Saykha, Taluka Vagra, District Bharuch, Gujarat by M/s Hemani Intermediates Pvt. Ltd. (Unit-V) - Environmental Clearance - reg.

Ref: Online Proposal No. IA/GJ/IND2/34149/2015 dated 28th January, 2017.

Sir,

This has reference to your online proposal no. IA/GJ/IND2/34149/2015 dated 28th January, 2017, submitting along with project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP Report regarding the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for setting up of Specialty Chemicals, Pigments & Pesticide Plant (22000 MTPM) at Plot No. 73, 74, GIDC Saykha, Taluka Vagra, District Bharuch, Gujarat by M/s Hemani Intermediates Pvt. Ltd. (Unit-V). As informed and as per the documents submitted by the Project proponent (PP), the proposed land area is 31109 m^2. Industry will develop greenbelt in an area of 9932 m^2 out of 31109 m^2 area of the project. The estimated project cost is ₹ 30 Crores. Total capital cost earmarked towards environmental pollution control measures is ₹ 350 Lakhs and the recurring cost (operation & maintenance) will be about ₹ 35 Lakhs per annum. Industry proposed to allocate ₹ 10 Lakhs @ 2.5 % towards Corporate Social Responsibility. It is reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Bhukhi River is flowing at a distance of 4.56 km from the project site.

3. All Pesticides industry and pesticide specific intermediates (excluding formulations) units producing technical grade pesticides are listed at Sl. No. 5(b) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

4. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 4th meeting held during 11th - 12th February, 2016 and

recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 05th April, 2016.

5. The EAC (Industry-2) in its 22nd meeting held during 17th - 18th April, 2017 has considered the proposal for environmental clearance (EC). The Project Proponent and their consultant M/s Aqua-Air Environmental Engineers P. Ltd., Surat, gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken, as per Terms of References (TORs).

6. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 16.12.2016. EAC noted that the issued raised during the public hearing are employment, damage to agriculture fields, pollution etc. EAC noted that the PP has addressed the issue in the EIA/EMP report.

7. Ambient air quality monitoring is carried out at 8 locations during March-May, 2016. The EAC has noted that the AAQ monitoring data are within National Ambient Air Quality Standards.

8. Total water requirement will be 972 m^3/day of which fresh water requirement of 363 m^3/day and will be met from GIDC Water Supply. Treated Effluent (434 KL/Day) will be sent to GIDC drain for deep sea disposal. Condensate (175 KL/Day) from MEE shall be reuse.

9. Power requirement will be 2500 KVA and will be met from DGVCL. Unit will have 2 Nos. of boiler & 3 Nos. of Thermopack & 2 Nos. of D. G. Set. ESP, dust collector and scrubber with a stack of height of 50 m & 11 m respectively will be installed for controlling the Particulates emissions.

10. The process emissions generation and its management are as below:

S. No.	Stack attached to	Stack Height	Air Pollution Control System	Parameter	Permissible Limit
Proposed					
1	MCB Plant	15 m	Alkali Scrubber	HCl Cl2	20 mg/Nm^3 9 mg/Nm^3
2	Process Vent-1	15 m	Alkali Scrubber	HCl Cl2 NH_3	20 mg/Nm^3 9 mg/Nm^3 175 mg/Nm^3
3	Herbicide	12 m	Two Stage Water Alkali Scrubber	HCl SO2 HBR	20 mg/Nm^3 40 mg/Nm^3 5 mg/Nm^3
4	Fungicide	12 m	Two Stage Water Alkali Scrubber	HCl SO2	20 mg/Nm^3 40 mg/Nm^3
5	Insecticide	12 m	Two Stage Water Alkali Scrubber	HCl SO2	20 mg/Nm^3 40 mg/Nm^3
6	Process Vent-2	12 m	Water Scrubber	NOx	40 g/Nm^3

11. The Solid Waste/Hazardous Waste generation and its management are as below:

S. No.	Type of Hazardous Waste	Quantity (MT/ Month)	Hazardous Waste Category	Storage, Collection & Disposal

1.	ETP Sludge	120	35.3	Collection, Storage, Transportation & Disposal to nearest TSDF at Dahej
2.	Process Sludge from $CaCl_2$ & DCP	300	--	Collection, Storage, Transportation & sell for agricultural use
3.	Used Oil/Spent Oil	200 Lit/Month	5.1	Collection, Storage, Transportation & Sell to GPCB Authorized Reprocessor
4.	Empty Drums/Container	500 Nos./Month	33.1	Collection, Storage, Transportation & Sell to GPCB Authorized Vendor
5.	Empty Bags	2000 Nos./Month	33.1	Collection, Storage, Transportation & Sell to GPCB Authorized Vendors
6.	Distillation Residue	110	20.3	Collection, Storage, Transportation & Disposal at nearest Common Incineration Site, Dahej or sell to cement industries
7.	MEE Salt	600	35.3	Collection, Storage, Transportation & Disposal to nearest TSDF at Dahej
8.	Fly Ash	300	A2060	Collection, storage & sell to brick manufactures
9.	Organic waste	120	29.1	Collection, Storage, Transportation & Disposal at nearest Common Incineration Site, Dahej or sell to cement industries
10.	Iron Sludge	510	--	Collection, Storage, Transportation & Disposal to nearest TSDF at Dahej or sell to cement industries
11.	HCl (30%)	4120	29.6	Collection, Storage, Transportation & reuse in Calcium Chloride & Di Calcium Phosphate
12.	H_2SO_4 (70%)	2350	29.6	Collection, Storage, Transportation & reuse in process and excess quantity will be sold to end user.
13.	Inorganic Salt	550	--	Collection, Storage, Transportation & Disposal to nearest TSDF at Dahej
14.	Potassium Carbonate	175	--	Reuse in plant premises or sell to end user
15.	Potassium Chloride Solution	186	--	Sell to end user
16.	Potassium Bromide	123	--	Reuse in bromine recovery unit

17.	Sodium Sulfite Solution	900	--	Sell to end user
18.	HBr (38%)	301	--	Reuse in bromine recovery unit
19.	Liqour Ammonia (36%)	1484	--	Sell to end user
20.	Aluminium Chloride	836	--	Sell to end user
21.	Sodium Bromide Salt	150	--	Reuse in bromine recovery unit
22.	Ammonium Carbonate	150	--	Reuse in process of CPC

12. The proposed products and capacity are:

S. No.	Name of Products	Proposed Quantity (MT/Month)
1.	Chlorination Derivatives (e.g. MCB, DCB, ODCB, PDCB,MDCB & TCB)	3000
2.	Nitration of Chlorobenzene (ONCB, PNCB & MNCB)	4000
3.	Calcium Chloride	3000
4.	Di Calcium Phosphate	1500
5.	2,4 Dinitro Chloro Benzene(DNCB) & Derivatives	1500
6. Fungicide		
a)	Hexaconzole (T)	500
b)	Tebuconzole (T)	
c)	Propioconzole (T)	
d)	Fenbuconzole (T)	
7. Herbicide		
a)	Dicamba (T)	500
b)	Metribuzine (T)	
c)	Metsulfuron Methyl (T)	
d)	Pendimethalin (T)	
e)	Sulfentrazone (T)	
f)	Ethofumesate (T)	
8. Insecticide		
a)	Transfluthrin (T)	500
b)	Cyfluthrin & Beta Isomers (T)	
c)	Bifenthrin (T)	
d)	Cypermethrin (T) & Beta Isomers (T)	
e)	Chloropyriphos (T)	
f)	Imidacloprid (T)	
g)	Clodinafop Propargyl (T)	
h)	Cloquintocet mexyl (T)	
i)	Thiamethoxam	
9	Para Nitro Chloro Benzene & Derivatives	1000
10	Ortho Nitro Chloro Benzene & Derivatives	500
11	Para Dichloro Benzene & Derivatives	500
12	Ortho Dichloro Benzene & Derivatives	500
13	Pigment (CPC Blue, CPC Green-7, Alpha Blue, Beta Blue, Pigment Red, Pigment Yellow, Pigment Orange)	1500

14	3,3 DCB	800
15	Dimethyl Sulphate	200
16	Sulfuric Acid & Allied Products	1500
17	Nitro Benzene & Derivatives	500
18	Chloro Toulene & Derivatives (Benzyl Chloride & Benzaldehyde)	500
	Total	**22000**

13. The EAC, in its 22nd meeting held during 17th- 18th April, 2017 has found that the final EIA/EMP report submitted by the project proponent is adequate. The EAC after detailed deliberations, on the basis of the information and presentation made by the project proponent, has recommended the project for environmental clearance with certain conditions.

14. Based on the proposal and information submitted by the Project Proponent, and considering the recommendation of the Expert Appraisal Committee (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the 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. Zero Liquid Discharge shall be ensured by the project proponent.
ii. The project proponent shall not produce/export any banned products.
iii. No ground water shall be used.
iv. The project proponent shall develop greenbelt of atleast 10 m width around the periphery of the unit with perennial trees. The project proponent shall also develop atleast 33 % of green area with trees.
v. 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
vi. Regular monitoring of ground water around 5 km radius of the unit through an accredited lab/institution. Monitoring report shall be provided to RO, MoEF&CC in six monthly compliance report.
vii. Environment Management Cell with full fledged laboratories shall be setup in the unit. 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.
viii. As proposed, 60% of the employees shall be from the local villages.
ix. 2.5 % of the project cost shall be earmarked towards the Enterprise Social Commitment. The project proponent shall utilize the amount for developing and maintaining the Drinking water facility with RO facilities (with all the pretreatment for safe drinking water) in the 5 nearby villages as per list.
x. The project proponent shall plant and maintain 1000 trees/year for five years in the identified villages.

B. General Conditions:

i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, 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, 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 stations 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 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. ESR 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. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

xii. 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.

xiii. 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.

xiv. 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.

xv. 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.

xvi. 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.

xvii. 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.

15. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

16. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

17. 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 Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

15.6.2017

(Yogendra Pal Singh)
Scientist 'D'

Copy to:-

1. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th floor, Sachivalaya, Gandhinagar - 382 010, Gujarat.
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal – 462 016
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Chairman, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector-10A, Gandhinagar - 382 010, Gujarat.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh, New Delhi - 110 003.
6. Guard File/Monitoring File/Website/Record File.

15.6.2017

(Yogendra Pal Singh)
Scientist 'D'