



**By Speed post/Online**

F. No. J-11011/280/2018-IA-II(I)

**Government of India**

**Ministry of Environment, Forest and Climate Change**

Impact Assessment Division

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Indira Paryavaran Bhawan,  
Vayu Wing, 3<sup>rd</sup> Floor, Aliganj,  
Jor Bagh Road, New Delhi-110 003

**Dated: 23<sup>rd</sup> September, 2020**

To,

**M/s Saga Chemie Pvt. Ltd.**

Plot No. 201/3, GIDC Estate, Panoli,  
Taluka Ankleshwar,  
District Bharuch, Gujarat

**Sub: Setting up Pesticide & Pesticide intermediate manufacturing unit with capacity of 100 TPM by M/s Saga Chemie Pvt. Ltd., located in an area of 1000 sqm., at Plot No. 201/3, GIDC Industrial Estate-Panoli, Taluka Ankleshwar, District Bharuch, Gujarat - Environmental Clearance regarding**

Sir,

This has reference to your online proposal No. IA/GJ/IND2/78833/2018 dated 17<sup>th</sup> July 2020 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for Setting up pesticide & pesticide intermediate manufacturing unit of capacity 100 TPM by M/s Saga Chemie Pvt. Ltd., located in an area of 1000 sqm. at Plot No. 201/3, GIDC Industrial Estate-Panoli, Taluka Ankleshwar, District Bharuch, Gujarat.

3. The details of existing and proposed products and capacity are as under: -

S. No	Product	CAS no.	Quantity MT/Month			End use of product	LD50 (mg/kg)
			Existing	Proposed	Total		
1.	Repacking of PGA, EDTA, SBS powder, Phosphoric acid, 2,6 Dipicolonic acid, SBS solution, Acetic acid derivatives, Indicator & stain powder, Metheline Blue, Butyric acid, Citrazinic Acid, HydroxylamineHydrochloride, 1-Hydroxy Benzotrizole, 2-Hydroxy quinoxaline	--	1000	-950	50	--	--

2.	Formulation of Emulsifier	--	250	-50	200	Used by agro industries	--
3.	Pesticide & Agrochemicals formulation and Repacking (job work & own manufacturing)	--	300	-100	200	Used by agro industries	--
4.	Sodium Hydrogen Sulphide	1672-1-80-05	500.00	-200	300	Industrial use	4090
5.	Formulation of herbal powder		100	-100	00	--	--
6.	Para Chloro Meta Cresol	59-50-7	--	100	100	Specialty Chemicals	50
7.	Para Chloro Meta Xylenol	88-04-0	--			Specialty Chemicals	3830
8.	Para Chloro Ortho Cresol	1570-64-5	--			Used as intermediate of phenoxy herbicides	1320
9.	Para Chloro Meta Toludine	95-69-2	--			intermediate of pesticide	4000
10.	Chloro phenol	108-95-2	--			Used in pesticide, Herbicide	670
11.	Cyclopentanone	120-92-3	--			used in perfume industries	1820
12.	Benzophenone 3	131-57-7	--			Used in cosmetics	7400
13.	Benzophenone 4	4065-45-6	--			Used in cosmetics	2895
14.	Tertiary Butyl Isocynate	1609-86-5				Used as intermediate	2000
15.	Tertiary Butyl Chloride	507-20-0	--			Used as intermediate	1250
16.	Tertiary Butyl Carbitol Phosphite	235-996-8	--			Used to prepare antioxidant and fragrance	2743
17.	Tris Tridecyl Phosphite	2929-86-4	--				16100
18.	Ethyl Benzyl Meta Sulphonic Acid	101-11-1	--			Used in Dyes	5000
19.	2-Cyano Phenol	611-20-1	--			Intermediate of Azoxystrobin	450
20.	4,6 Dichloro Pyrimidine	1193-21-1	--				1000

21.	2-Hydroxy Phenyl Acetic Acid	614-75-5	--				2000
22.	Saga 545	70445-33-9	--			Cosmetics ingredient	2000
23.	1,2 Octane Diol (Capryl Glycol)	1117-86-8	--			Used in skin conditioning agent	1250
24.	1,2 Hexane Diol	629-11-8	--			Cosmetics & personal ingredient	1760
25.	1,2 Pentane Diol	5343-92-0	--			Intermediate of pharma	3200
26.	2-Hydroxy Quinoxaline	1196-57-2	--			Intermediate of pesticide	1260
27.	Dipicolinic Acid	499-83-2	--			Used as catalyst	322
28.	Meta Nitro Aniline	99-09-2	--			Intermediate of dyes	1838
29.	Aldehyde or Ketone to Alcohol	100-51-6	--			Intermediate of pesticide	1230
30.	2,4 Dichloroacetophenone	2234-16-4	--			Chemical & Pharma	2000
31.	3 Hydroxyacetophenone	121-71-1	--			Organic synthesis	1500
32.	1 Chloroadamantane	935-56-8	--			Chemical	700
33.	1 AcetamidoAdamantane	880-52-4	--			Pharma	700
34.	1 BromoAdamantane	768-90-1	--			Pharma	700
35.	1 Amino adamantane	768-94-5	--			Pharma	700
36.	Anisole	110-66-3	--			Pesticide	2800
37.	2 Methyl anisole	578-58-5	--			Pharma	4850 mg/kg
38.	4 Methyl anisole	104-93-8	--			Synthetic flavor	1920
<b>TOTAL</b>			<b>2050</b>	<b>-1200</b>	<b>850</b>		

4. Total land area for the proposed project is 1000 sqm. Green belt will be developed in an area of 40 % of the total plot area. The Estimated project cost is Rs. 5.0 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.73 Lakhs and the Recurring cost (operation and maintenance) will be about Rs.10.23 Lakhs per annum. Proposed project will generate employment for 25 persons. There are no National Parks, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km radius of project. PP reported that the conservation plan for Schedule-I



species were prepared and submitted to Wildlife Department State Govt. for approval. The Committee deliberated the same.

5. Total water requirement is 26 m<sup>3</sup>/day of which fresh water requirement of 26 m<sup>3</sup>/day + Rain Water Harvesting 1.0 m<sup>3</sup>/day and will be met from GIDC Water Supply. Total wastewater generation will be 11 KL/Day. Total Industrial wastewater (7.5 KL/Day) From Process, Boiler, Cooling, Washing, Scrubber will be sent to ETP consists of primary treatment and then treated effluent shall be sent to Common MEE, Panoli for the further treatment and final disposal. 3.5 KLD Domestic wastewater will be disposed through Septic Tank/Soak Pit.

6. Power requirement for proposed project will be 500 KVA and will be met from DGVCL. 1 Nos. DG set of 100 KVA capacity shall be used as standby during power failure. Stack (height 11 m) will be provided as per CPCB norms to the proposed DG sets of 100 KVA which will be used as standby during power failure. Unit shall have 1 Nos. of Steam Boiler (850 kg/Hr) Natural Gas = 8.0 Nm<sup>3</sup>/Hr., 1 Nos. of Thermopack 6 Lakh Kcal/Hr Natural Gas = 140 Nm<sup>3</sup>/Hr., 1 Nos. of D.G Set Diesel - 30 Liter/Hr. will be installed. Adequate Stack height will be provided. Stack of height of 11 m will be installed for controlling the Particulate emissions (within statutory limit of 150 mg/Nm<sup>3</sup>) respectively.

7. The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

8. The ToR was granted by the Ministry vide letter dated 4<sup>th</sup> November, 2018. Public hearing is exempted as per para 7(i), III. Stage (3), (i)(b) of the EIA Notification, 2006, and in accordance with the Ministry's OM dated 27th April 2018, as the project site is located in the notified industrial area. No litigation is pending against the proposal.

9. The proposal was considered by the EAC in its 22<sup>nd</sup> meeting held on **17-19 August, 2020** in the Ministry, wherein the project proponent and their consultant M/s Aqua-Air Environmental Engineers Pvt. Ltd. presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.

10. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

11. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006 and the guidelines issued by the Ministry on



critically polluted area and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

**12.** The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain 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, from the State Pollution Control Board, prior to construction & operation of the project.

**13.** Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Setting up Pesticide & pesticide intermediate manufacturing unit of capacity 100 TPM by M/s Saga Chemie Pvt. Ltd., in an area of 1000 sqm., located at Plot No. 201/3, GIDC Industrial Estate- Panoli, Taluka Ankleshwar, District Bharuch, Gujarat**, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

**A. Specific Condition**

- (i) The SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24<sup>th</sup> October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25<sup>th</sup> October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.
- (ii) 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, and risk mitigation measures relating to the project shall be implemented.
- (iii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. All the waste water to be collected and to be reused after treatment.
- (iv) Total fresh water requirement shall not exceed 26 cum/day, proposed to be met from GIDC supply. Necessary permission obtained in this regard shall be renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.
- (v) As proposed 4% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER) as per Ministry's OM dated 1<sup>st</sup> May 2018 & CPA OM dated 31.10.2019. As proposed, the CER allocation shall be spent mainly for education including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR. Preference shall be given to local villagers for employment in the unit.

- (vi) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (vii) 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 ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (viii) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (ix) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (x) 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.
- (xi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (xii) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (xiii) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xiv) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xv) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.



- (xvi) The green belt of at least 5-10 m width shall be developed in nearly 40% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xvii) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

**13.1. : General Condition:**

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) 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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (v) 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.
- (vi) 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.
- (vii) 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.
- (viii) The environmental statement for each financial year ending 31<sup>st</sup> 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.



- (ix) 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 and at <https://parivesh.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.
- (x) 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.
- (xi) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

**14.** 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.

**15.** 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.

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

**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 Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

**18.** This issues with the approval of the competent authority.

**(Dr. R. B. Lal)**

**Scientist 'E'/Additional Director**

(डा. आर. बा. लाल)  
(Dr. R. B. LAL)  
वैज्ञानिक 'ई'/Scientist 'E'  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय  
Min. of Environment, Forest and Climate Change  
भारत सरकार, नई दिल्ली  
Govt. of India, New Delhi

**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, Delhi -32
4. The Member Secretary, 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 Bhawan, Jor Bagh road, New Delhi
  6. District Magistrate, Bharuch, Gujarat
  7. Guard File/Monitoring File/Record File/Parivesh Portal

  
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