

**Half Yearly EC Compliance Report for the Conditions given in the Environmental Clearance of Indofil Industries Limited (Unit-03), Dahej (January 2022 – June 2022)**

EC vide # F. No. J-11011/265/2013-IA II(I) Dated : 28.10.2016					
Condition				Status of Compliance (Period: January 2022 – June 2022)	
Sr. No.	Description				
2	0	The Ministry of Environment, Forests and Climate Change has examined the application. It is noted that proposal is for setting up of specialty chemicals (107085 MTPA) at plot no. D-2/CH-12, GIDC, Industrial Estate, Village- Dahej, Tehsil- Vagra, Dist.- Bharuch, Gujarat by M/s Indofil Industries. Plot area is 1, 01,900 m <sup>2</sup> out of which greenbelt will be developed in 33,330 m <sup>2</sup> . Narmada river is flowing at a distance of 17 km. Arabian sea is 3 km away from the project site. It is reported that no national park/biosphere reserve/wildlife sanctuary etc is located within 10 km. cost of project is Rs. 480 crores. Following products will be manufactured:			--
	<b>Sr. No.</b>	<b>Name of the Proposed Product</b>	<b>Quantity (MTPA)</b>		
	<b>A</b>	<b>EBDC fungicides products</b>			
	1	Mancozeb & its formulation	25000	Production detail for <b>January 2022 – June 2022</b> is enclosed as <b>Annexure-1</b> .	
	2	Maneb & its formulation	500		
	3	Zineb & its formulation	5000		
	4	Propineb & its formulation	5000		
	<b>A1</b>	<b>Herbicides</b>			
	1	Glyphosate tech and its intermediates volume	30000		
	<b>B</b>	<b>Specialty Chemicals</b>			
	1	Solution polymers	3634	Production detail for <b>January 2022 – June 2022</b> is enclosed as <b>Annexure-1</b> .	
	2	Re-dispersible powder	11571		
	3	Plastic modifiers	20055		
	4	Acrylic Emulsions	2635		
	<b>C1</b>	<b>Synthesis Technical products</b>			
	1	Tricyclazole and/or its intermediates : HMBT	1000	Production has not started yet.	
	2	Myclobutanil	135		
	3	Metalaxyl	125		
	4	Cymoxanil	300		
	5	Dodine	150		
	6	Hexaconazole	200		
	7	Propiconazole	300		

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	8	Propargite	400
	9	Difenturon	200
	10	Tebuconazole	300
	11	Difenconazole	200
	12	Thifluzamide	200
	13	Bispyribac	65
		<b>Sub-total of above 13 Products</b>	<b>3575</b>
	<b>C2</b>	<b>Out of following 10 products, only 1 product shall be made at a time</b>	
	1	Thiamethoxam	225
	2	Epoxyconazole	
	3	Prothioconazole	
	4	Fluazinam	
	5	Azoxystrobin	
	6	Pyraclostrobin	
	7	Boscalid	
	8	Cyazofamid	
	9	Penconazole	
	10	Cyproconazole	
			Production has not started yet.
	<b>C3</b>	<b>Out of following 05 products, only 1 product shall be made at a time</b>	
	1	Spirodiclofen	200
	2	Spiromesifen	
	3	Tolfenpyrod	
	4	Clodinofof	
	5	Pretilachlor	
			Production has not started yet.
		<b>Total of (C1+C2+C3) products</b>	<b>3575+225+200=4000</b>
	<b>D</b>	<b>Agro Formulation</b>	
	1	Powder formulation	32000
	2	Liquid Formulation	10000
		<b>OR</b>	
	3	Glyphosate Formulation	70000
			Production has not started yet.
		<b>List of By- Products</b>	<b>Capacity MTPM</b>

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1	Manganese Carbonate (MnCO <sub>3</sub> )	980		MnCO <sub>3</sub> is being sent to CHWTSDF site/ actual end user.
2	Sodium Sulphate (Na <sub>2</sub> SO <sub>4</sub> )	1200		Sodium sulphate is being sold to actual end users only.
3	Spent sulphuric acid	2		Not generated
4	Aq. Hydrochloric acid ( Conc.30%)	120		Not generated
5	Aq. Sodium Bromide ( Conc.17%)	150		Not generated
6	Aq. Potassium Bromide ( Conc.16% to 29%)	175		Not generated
7	Aq. Hydrobromic acid ( Conc.30%)	50		Not generated
8	Formic acid ( Conc.50%)	100		Not generated
9	Aq. NaSH ( Conc.20 % to 25%)	25		Not generated
10	Aq. Sodium sulphite	50		Not generated
3	<p>The Committee suggested PP to use natural gas as clean fuel. Stack of adequate height shall be provided to the gas fired boiler as per CPCB/SPCB guidelines. Bag filter will be provided to spray dryer. Adequate stack height will be provided to DG set. Alkali scrubber will be provided to incinerator. Scrubbers will be provided to control process emissions viz HCL, HBR, NH<sub>3</sub>, CS<sub>2</sub>, H<sub>2</sub>S etc. total water requirement will be 2711 m<sup>3</sup>/day. Out of which, total fresh water requirement from River Damanganga through GIDC Vapi will be 1500 m<sup>3</sup>/day and remaining water requirement (1311 m<sup>3</sup>/day) will be met from treated effluent/recycled water. Effluent generation will be 1323 m<sup>3</sup>/day. Industrial wastewater will be segregated into High TDS/COD and Low TDS/COD effluent streams. High TDS/COD effluent stream will be treated through steam stripper followed by multiple effect evaporator (MEE) and agitated thin film dryer (ATFD). Low TDS effluent stream will be treated in the effluent treatment plant (ETP) followed by reverse osmosis (RO). No effluent will be discharged outside the plant premises. Process inorganic residue, evaporation salts and ETP sludge will be sent to TSDF. Fly ash will be sent to brick manufacturers. Catalyst, waste oil and used batteries will be sent to authorized recyclers.</p>			<p>We are using natural gas &amp; coal as a fuel in the boiler. Adequate stack height is provided to the boilers &amp; DG Sets. Bag filter is provided to all spray dryers to suppress dust emission. Scrubbers are provided to control process emissions. Avg freshwater consumption is 397.77 KLD (Jul-Dec 2021) which is supplied by GIDC, Dahej. The generated effluent is being treated in full-fledged Effluent Treatment Plant (ETP) and being maintained Zero Liquid Discharge (ZLD). Effluent contains high TDS is being treated to Multiple Effect Evaporator (MEE) after ETP and generated salt (Sodium Sulphate) is sold to actual end users. Effluent having low TDS is being treated in separate ETP followed by Reverse Osmosis (RO) and Waste Heat Recovery (WHE) unit. Generated process inorganic waste, ETP sludge are being sent to CHWTSDF for secured landfilling. Fly ash is being sent to brick manufacturer. Summarized details of water consumption are enclosed as <b>Annexure-2</b> and third party monitoring of M/s Enpro Enviro Tech and Engineers</p>

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		Pvt Ltd is enclosed as <b>Annexure-3</b> . All parameters are well within permissible limit. <b>Complied.</b>
4	Public Hearing/Public Consultation meeting was conducted on 27 <sup>th</sup> January, 2016.	All points discussed during MoM have <b>noted &amp; complied.</b>
5	All units producing technical grade pesticides are listed at S.N. 5 (b) under category "A" and appraised at Central level.	<b>Noted.</b>
6	The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 7 <sup>th</sup> meeting held during 27 <sup>th</sup> - 28 <sup>th</sup> April, 2016 and 11 <sup>th</sup> Meeting held during 20 <sup>th</sup> – 21 <sup>st</sup> July, 2016 respectively. Project Proponent and the EIA Consultant namely M/s Eco Chem Sales & Services 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.	<b>Noted.</b>
7	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 14 <sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions :	<b>Noted.</b>
<b>A</b>	<b>SPECIFIC CONDITIONS:</b>	
	i	National Emission Standards for Organic Chemicals Manufacturing Industry issues by the Ministry vide G.S.R. 608 (E) dated 21 <sup>st</sup> July, 2010 and amended time to time shall be followed by the unit. <b>Noted for Compliance.</b>
	ii	Stack of adequate height shall be provided to the gas fired boiler as per CPCB/SPCB guidelines. Bag filter shall be provided to spray dryer. <b>Complied.</b>
	iii	Scrubbers shall be provided to control process emissions viz HCL, HBr, NH3, CS2, H2S etc. The scrubbing media shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels shall Caustic Scrubbers are provided to control process emissions. Third party monitoring is also being done through M/s Enpro Enviro Tech and Engineers Pvt Ltd and all parameters are well

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	go beyond the prescribed standards.	within permissible limit. <b>Complied.</b>
	iv Solvent management shall be carried out as follows:	<b>Complied.</b>
	i. Reactor shall be connected to chilled brine condenser system	All reactor vents are connected to common condenser.
	ii. Reactor and solvent handling pump shall have mechanical seals to prevent leakages	Reactor and pumps are provided mechanical seal.
	iii. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery	Solvent recovery is above 98%.
	iv. Solvents shall be stored in a separate space specified with all safety measures	For Hazardous chemicals/solvent storage, taken all safety measures.
	v. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done	Electrical earthing provided to all storage tanks/equipment's.
	vi. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses	We are using flameproof fittings in solvent storage area and plants wherever required. Breather valves are provided on storage tanks.
	vii. All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation	All vents are connected to common Condenser.
	v Total fresh water requirement from Damanganga River shall not exceed 1500 m3/day.	Avg fresh water consumption is 397.77 KLD (Jul-Dec 2021) which is supplied by GIDC, Dahej. <b>Complied.</b>
	Vi Effluent generation shall not exceed 1323 m3/day. Industrial wastewater will be segregated into High TDS/COD and Low TDS/COD effluent streams. High TDS/COD effluent stream will be treated through steam stripper followed by multiple effect evaporator (MEE) and agitated thin film dryer (ATFD). Low TDS effluent stream will be treated in the effluent treatment plant (ETP) followed by reverse osmosis (RO). No effluent will be discharged outside the plant premises.	The generated effluent is being treated in full-fledged Effluent Treatment Plant (ETP). Effluent contains high TDS is being treated to Multiple Effect Evaporator (MEE) after ETP and generated salt (Sodium Sulphate) is sold to actual end users. Effluent having low TDS is being treated in separate ETP followed by Reverse Osmosis (RO) and Waste Heat Recovery (WHE) unit. The site has maintained Zero Liquid Discharge (ZLD).

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		<b>Complied.</b>
Vii	Continuous online monitoring (24x7) system to be installed within treatment plant and data to be uploaded to company's web site and also provided to respective Regional Office of MoEF&CC and concerned SPCB/CPCB.	The site has maintained Zero Liquid Discharge (ZLD). <b>Complied.</b>
Viii	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Storm water drains are well designed to avoid mixing of any process effluent and separate chamber is provided with pump arrangement. <b>Complied.</b>
Ix	Hazardous chemicals shall be stored in tanks, tank farms, drums. Carboys etc. flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.	All hazardous chemicals are stored in storage tanks only with flame proof pumps and flame arrestor fittings. <b>Complied.</b>
X	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 manufactures/cement industry.	At present, generated process residue are being sent for co-processing at RSPL, Panoli (common TSDF). We are exploring possibility to send waste at Cement Industries for co-processing. Generated process inorganic waste, ETP sludge are being sent to CHWTSDF for secured landfilling. Fly ash is being sent to brick manufacturer. <b>Complied.</b>
Xi	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 SPCB shall be obtained for disposal of solid/hazardous waste in the TSDF. Measures shall be taken for firefighting facilities in case of emergency.	We have obtained valid Consolidated Consent & Authorization from Gujarat Pollution Control Board (GPCB) No. AWH-97432 vide # GPCB/BRCH-B/CCA-122(3)/ID-43026/501310 dated 05.04.2019 AND amended vide # AWH-108620 dated 19.10.2020 & vide # AH-111765 dated 20.03.2021 which are valid till 28.08.2023- copies are enclosed as <b>Annexure-4</b> . The dedicated fire hydrant system and shift wise fire man are allocated to fight against the fire emergency. <b>Complied.</b>
Xii	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended	We comply with rules & guidelines given in MSIHC & MVA Acts. <b>Complied.</b>

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	time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	
Xiii	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on need of local people and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bhopal.	Various Corporate Social Responsibilities (CSR) are planned and initiated as part of Enterprise Social Commitment. Please refer <b>Annexure-5</b> for details. <b>Complied.</b>
xiv	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 and records maintained. The emissions shall conform to the limits stipulated by the GPCB.	Fugitive emission is being monitored through online stack monitoring and also through third party. We are also using VOC monitor for checking any leakage. Water sprinkler systems have provided to all chemical storage tanks. VOC monitoring is being done to monitor fugitive emission. Workplace area monitoring is being done through M/s Enpro Enviro Tech and Engineers Pvt Ltd (through third party) and all parameters are found well within permissible limit. <b>Complied.</b>
xv	For further control of fugitive emissions, following steps shall be followed:	
	i. Closed handling system shall be provided for chemicals.	Provided closed handling system for Hazardous Chemicals, condensers for collection of solvents. Mechanical seals are provided to pumps and reactors. LDAR system is in place. We are using VOC monitor for checking any leakage. Closed pipeline systems are used for transfer of solvents. Solvent traps with condensers are provided. At a moment, no underground storage tanks are installed. <b>Complied.</b>
	ii. Reflux condenser shall be provided over reactor.	
	iii. System of leak detection and repair of pump/pipeline based on preventive maintenance.	
	iv. The acids shall be taken from storage tanks to reactors through closed pipeline storage tanks shall be vented through trap receiver and condenser operated on chilled water.	
	v. Cathodic protection shall be provided to the underground solvent storage tanks.	
Xvi	A proper Leak Detection And Repair (LDAR) Program for	Vapour recovery system and

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	pesticide industry shall be prepared and implemented as per CPCB guidelines. Focus shall be given for prevention of fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to.	condensate collection system is provided. We have an LDAR program in place. Regular inspections are being carried out with reference to plant operations like Pumps, Valves, Pipes etc, as per Preventive Maintenance schedule.  Regular Ambient Air and VOC monitoring are being carried out through M/s Enpro Enviro Tech and Engineers Pvt Ltd (third party). Detectors are provided for CS2 and H2S; and the detection levels are in ppm. Additionally, we are having hand-held VOC monitor for various gases to measure any VOC emission. <b>Complied.</b>
Xvii	Continuous (24x7) monitoring system for chlorine, HCL and HBr shall be installed at all important places/areas. All necessary steps should be taken for monitoring of VOCs in the plant. Effective measures shall be taken immediately, when monitoring results indicate above the permissible limits.	We have installed monitoring system for H2S & CS2 in the Mancozeb plant. All data are being monitored and reviewed. Corrective actions are being taken in time if necessary. <b>Complied.</b>
Xviii	Ground water quality monitoring including the pesticides shall be carried out every month. The monitored data shall be submitted to the Ministry's Regional Office, Bhopal and GPCB.	As per GPCB guideline, we are not allowed to withdraw any ground water and we are not having any bore well at the site. The fresh water is being supplied by GIDC of Dahej. Timely water quality analysis is being done and all parameters are well within permissible limit as per standard. <b>Complied.</b>
Xix	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.	The dedicated fire hydrant system and shift wise fire man are allocated to fight against the fire emergency. <b>Complied.</b>
Xx	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Pre-employment and periodical medical check-up are being done for all employees including contractual



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		workers and all records are being maintained. <b>Complied.</b>
Xxi	As proposed, green belt over an area of 33,330 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 side etc. selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	We have developed greenbelt as per guideline (more than 33,330 m2) and is our continual activity. <i>In addition, we have also developed greenbelt through dense forest (Miya-Waki) concept.</i> Please refer <b>Annexure-6</b> for details. <b>Complied.</b>
Xxii	All the recommendations made in the risk assessment report shall be satisfactorily implemented.	All recommendations given during risk assessment study have implemented. <b>Complied.</b>
Xxiii	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.	All suggested facilities were provided during the time of project commissioning. <b>Complied.</b>
<b>B</b>	<b>GENERAL CONDITIONS:</b>	
i	The project authorities must strictly adhere to the stipulations made by the Gujarat State Pollution Control Board (GSPCB), State Government and any other statutory authority.	<b>Noted for Compliance.</b>
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	We have obtained valid Consolidated Consent & Authorization from Gujarat Pollution Control Board (GPCB) No. AWH-97432 vide # GPCB/BRCH-B/CCA-122(3)/ID-43026/501310 dated 05.04.2019 AND amended vide # AWH-108620 dated 19.10.2020 & vide # AH-111765 dated 20.03.2021 which are valid till 28.08.2023- copies are enclosed as <b>Annexure-4</b> .
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the SPCB and it shall be ensured that at least one station is installed in the	We are doing ambient air monitoring through third party (M/s Enpro Enviro Tech and Engineers Pvt Ltd ) and all

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	upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	parameters are well within permissible limit- details is enclosed as <b>Annexure-3</b> . <b>Complied.</b>
iv	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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).	We are doing noise monitoring through third party (M/s Enpro Enviro Tech and Engineers Pvt Ltd ) and all parameters are well within permissible limit- details is enclosed as <b>Annexure-3</b> . <b>Complied.</b>
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.	As we are manufacturing agrochemical products, we will explore the possibility of rain water harvesting system and ground water recharge is strictly prohibited by GPCB. <b>Noted for Compliance.</b>
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.	Well designed storm water drains are made to ensure avoidance of mixing of storm water with domestic water. A separate Sewage Treatment Plant (STP) is also in operation to take care of generated domestic wastewater. The treated effluent is being used for gardening purpose. <b>Complied.</b>
vii	Usage of Personnel Protective Equipment by all employees/workers shall be ensured.	All employees/workers are given required PPE's. <b>Complied.</b>
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.	Various type of training are being imparted to all employees/workers for hazardous chemicals handling. Pre-employment and periodical medical check-up are being done for all employees including contractual workers and all records are being maintained. <b>Complied.</b>
ix	The company shall also comply with all the environmental protection measures and safeguards proposed in the	All recommendations given in EIA/EMP are complied.

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	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.	<b>Complied.</b>
X	The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.	Various Corporate Social Responsibilities (CSR) are planned and initiated as part of Enterprise Social Commitment. The detail is enclosed as <b>Annexure-5.</b> <b>Complied.</b>
Xi	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	<b>Noted for Compliance.</b>
Xii	A separate Environment Management Cell with full-fledged laboratory to be set up to carry out the environmental management and monitoring functions.	We are having separate Environment Management Cell with full-fledged laboratory. <b>Complied.</b>
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.	We have invested approx. 22 crores for EMS systems so far. <b>Complied.</b>
Xiv	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local body and the local NGO, if any, from who suggestions/representations, if any, were received while processing the proposal.	A copy sent to all concerns. <b>Complied.</b>
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 State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	A half yearly compliance report is being submitted to the Ministry and other statutory authorities in time. <b>Complied.</b>
Xvi	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated shall be	The environmental statement (Form-V) is being submitted in time each year.

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Sr. No.	Description	
	submitted to the Gujarat 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 Bhopal Regional Offices of MoEF by e-mail.	<b>Complied.</b>
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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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 as copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	We have given advertisement in two news-papers and details submitted to MoEF.  <b>Complied.</b>
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.	<b>Noted &amp; Complied.</b>
8	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	<b>Noted.</b>
9	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	<b>Noted.</b>
10	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.	<b>Noted.</b>

**Half Yearly EC Compliance Report for the Conditions given in the Environmental Clearance of Indofil Industries Limited (Unit-03), Dahej  
(January 2022 – June 2022)**

EC vide # F. No. J-11011/265/2013-IA II(I) Dated : 12.03.2018			
Condition		Status of Compliance (Period: January 2022 – June 2022)	
Sr. No.	Description		
2	0	The proposal was considered by the Expert Appraisal Committee (Industry-2) in the Ministry in it's 30 <sup>th</sup> m project meeting held on 2-3 November, 2017. The details of the project, as per the documents submitted by the project proponent, and also as informed during the meeting, are reported to be as under:-	--
	(i)	The Ministry has granted environmental clearance vide letter No. J-11011/265/2013-IA-II (I) dated 28 <sup>th</sup> October, 2016 to the project "Setting up specialty chemicals manufacturing unit" by M/s Indofil Industries Limited at plot No. D-2/CH-12, GIDC, Industrial Estate, Village Dahej, Tehsil Vagra, Dist.- Bharuch (Gujarat).	
	(ii)	The amendment have been sought in the EC as per details below:	
Item in the EC	Matter as per EC	Amendment Required	Status of Compliance (Period: January 2022 – June 2022)
Para No. 3	The Committee suggested PP to use natural gas as clean fuel. Stack of adequate height shall be provided to the gas fired boiler as per CPCB/SPCB	The committee suggested the project proponent to use Coal or Natural Gas as fuel. Stack of adequate height shall be provided to the gas or coal fired boiler as per CPCB/SPCB guidelines. Bag filter shall be provided to	We are using natural gas & coal as a fuel in the boiler. Adequate stack height is provided

**Half Yearly EC Compliance Report for the Conditions given in the Environmental Clearance of Indofil Industries Limited (Unit-03), Dahej  
(January 2022 – June 2022)**

<b>EC vide # F. No. J-11011/265/2013-IA II(I) Dated : 12.03.2018</b>			
<b>Condition</b>		<b>Status of Compliance (Period: January 2022 – June 2022)</b>	
<b>Sr. No.</b>	<b>Description</b>		
	<p>guidelines. Bag filter will be provided to spray dryer. Adequate stack height will be provided to DG set. Alkali scrubber will be provided to incinerator. Scrubbers will be provided to control process emissions viz HCL, HBR, NH3, CS2, H2S etc. total water requirement will be 2711 m3/day. Out of which, total fresh water requirement from River Damanganga through GIDC Vapi will be 1500 m3/day and remaining water requirement (1311 m3/day) will be met from treated effluent/recycled water. Effluent generation will be 1323 m3/day. Industrial wastewater will be segregated into High TDS/COD and Low TDS/COD effluent streams. High TDS/COD effluent stream will be treated through steam stripper followed by multiple effect evaporator (MEE) and agitated thin film dryer (ATFD). Low TDS effluent stream will be treated in the effluent treatment plant (ETP) followed by reverse osmosis (RO). No effluent will be discharged outside the plant premises. Process inorganic residue, evaporation salts and ETP sludge will be sent to TSDF. Fly ash will be sent to brick manufacturers. Catalyst, waste oil and</p>	<p>spray dryer. Adequate stack height shall be provided to DG set. Alkali scrubber shall be provided to incinerator. Scrubber shall be provided to control process emissions viz HCL, HBr, NH3, CS2, H2S etc. Total freshwater requirement shall be 2811 m3/day (Industrial: 2711 m3/day + Domestic: 100 m3/day) from GIDC water supply. Effluent generation shall be 1361 m3/day (Industrial: 1311 m3/day + Domestic: 50 m3/day). Industrial wastewater will be segregated into High TDS/COD and Low TDS/COD effluent streams. High TDS/COD effluent stream will be treated in multiple effect evaporator (MEE) and condensate goes to conventional ETP where it is mixed with Low TDS/COD effluent stream and ultimately the treated effluent i.e. 1361 m3/day (Industrial: 1311 m3/day + Domestic: 50 m3/day) shall be discharged to deep sea via GIDC's existing pipeline. Process inorganic residue, evaporation salts and ETP sludge will be sent to TSDF. Fly ash will be sent to brick manufacturers. Catalyst, waste oil and used batteries will be sent to authorized recyclers.</p>	<p>to the boilers &amp; DG Sets. Bag filter is provided to all spray dryers to suppress dust emission. Scrubbers are provided to control process emissions. Avg freshwater consumption is 397.77 KLD (January 2022 – June 2022) which is supplied by GIDC, Dahej. The generated effluent is being treated in full-fledged Effluent Treatment Plant (ETP) and being maintained Zero Liquid Discharge (ZLD). Effluent contains high TDS is being treated to Multiple Effect Evaporator (MEE) after ETP and generated salt (Sodium Sulphate) is sold to actual end users. Effluent having low TDS is being treated</p>

**Half Yearly EC Compliance Report for the Conditions given in the Environmental Clearance of Indofil Industries Limited (Unit-03), Dahej  
(January 2022 – June 2022)**

EC vide # F. No. J-11011/265/2013-IA II(I) Dated : 12.03.2018		
Condition		Status of Compliance (Period: January 2022 – June 2022)
Sr. No.	Description	
	used batteries will be sent to authorized recyclers.	<p>in separate ETP followed by Reverse Osmosis (RO) and Waste Heat Recovery (WHE) unit. Generated process inorganic waste, ETP sludge are being sent to CHWTSDF for secured landfilling. Fly ash is being sent to brick manufacturer. Summarized details of water consumption are enclosed as <b>Annexure-2</b> and third party monitoring of M/s Enpro Enviro Tech and Engineers Pvt Ltd is enclosed as <b>Annexure-3</b>. All parameters are well within permissible limit. Waste/used oil and used batteries are sent to only authorized recyclers.</p> <p><b>Complied.</b></p>

**Half Yearly EC Compliance Report for the Conditions given in the Environmental Clearance of Indofil Industries Limited (Unit-03), Dahej  
(January 2022 – June 2022)**

EC vide # F. No. J-11011/265/2013-IA II(I) Dated : 12.03.2018			
Condition		Status of Compliance (Period: January 2022 – June 2022)	
Sr. No.	Description		
<b>Specific Condition (v)</b>	Total fresh water requirement from Damanganga River shall not exceed 1500 m3/day.	The fresh water requirement shall not exceed 2811 m3/day (Industrial: 2711 m3/day +Domestic: 100 m3/day) from GIDC water supply.	Avg fresh water consumption is 397.77 KLD ( January 2022 – June 2022) which is supplied by GIDC, Dahej. <b>Complied.</b>
<b>Specific Condition (vi)</b>	Effluent generation shall not exceed 1323 m3/day. Industrial wastewater will be segregated into High TDS/COD and Low TDS/COD effluent streams. High TDS/COD effluent stream will be treated through steam stripper followed by multiple effect evaporator (MEE) and agitated thin film dryer (ATFD). Low TDS effluent stream will be treated in the effluent treatment plant (ETP) followed by reverse osmosis (RO). No effluent will be discharged outside the plant premises.	Effluent generation shall be 1361 m3/day (Industrial: 1311 m3/day + Domestic: 50 m3/day). Industrial wastewater will be segregated into High TDS/COD and Low TDS/COD effluent streams. High TDS/COD effluent stream will be treated in multiple effect evaporator (MEE) and condensate goes to conventional ETP where it is mixed with Low TDS/COD effluent stream and ultimately the treated effluent i.e. 1361 m3/day (Industrial: 1311 m3/day + Domestic: 50 m3/day) shall be discharged via GIDC’s existing 10 km deep sea pipeline.	The generated effluent is being treated in full-fledged Effluent Treatment Plant (ETP) and being maintained Zero Liquid Discharge (ZLD). Effluent contains high TDS is being treated to Multiple Effect Evaporator (MEE) after ETP and generated salt (Sodium Sulphate) is sold to actual end users. Effluent having low TDS is being treated in separate ETP followed by Reverse Osmosis (RO) and Waste Heat Recovery (WHE) unit. Generated



**Half Yearly EC Compliance Report for the Conditions given in the Environmental Clearance of Indofil Industries Limited (Unit-03), Dahej  
(January 2022 – June 2022)**

EC vide # F. No. J-11011/265/2013-IA II(I) Dated : 12.03.2018		
Condition		Status of Compliance (Period: January 2022 – June 2022)
Sr. No.	Description	
		<p>process inorganic waste, ETP sludge are being sent to CHWTSDf for secured landfilling. Fly ash is sent to brick manufacturer.</p> <p>Summarized details of water consumption are enclosed as <b>Annexure-2</b> and third party monitoring is enclosed as <b>Annexure-3</b>. All parameters are well within permissible limit. We do not discharge treated effluent as maintaining Zero Liquid Discharge (ZLD) system.</p> <p><b>Complied.</b></p>
<b>3</b>	The EAC, after deliberations, recommended for the proposed amendments in the environmental clearance dated 28 <sup>th</sup> October, 2016, in respect of para 3 and specific conditions (v) & (vi) as under:	
<b>(a)</b>	<p>The para 3 of the said EC to be replaced with, and now read as under:-</p> <p><i>“The committee suggested the project proponent to use Coal or Natural Gas as fuel. Stack of adequate height shall be provided to the gas or coal fired boiler as per CPCB/SPCB guidelines. Bag filter shall be provided to spray dryer. Adequate stack height shall be provided to DG set. Alkali scrubber shall be provided to incinerator. Scrubber shall be provided to control process emissions viz</i></p>	<b>Noted for Compliance.</b>

**Half Yearly EC Compliance Report for the Conditions given in the Environmental Clearance of Indofil Industries Limited (Unit-03), Dahej  
(January 2022 – June 2022)**

<b>EC vide # F. No. J-11011/265/2013-IA II(I) Dated : 12.03.2018</b>		
<b>Condition</b>		<b>Status of Compliance (Period: January 2022 – June 2022)</b>
<b>Sr. No.</b>	<b>Description</b>	
	<p><i>HCL, HBr, NH3, CS2, H2S etc. Total fresh water requirement shall be 2811 m3/day (Industrial: 2711 m3/day + Domestic: 100 m3/day) from GIDC water supply. Effluent generation shall be 1361 m3/day (Industrial: 1311 m3/day + Domestic: 50 m3/day). Industrial wastewater will be segregated into High TDS/COD and Low TDS/COD effluent streams. High TDS/COD effluent stream will be treated in multiple effect evaporator (MEE) and condensate goes to conventional ETP where it is mixed with Low TDS/COD effluent stream and ultimately the treated effluent i.e. 1361 m3/day (Industrial: 1311 m3/day + Domestic: 50 m3/day) shall be discharged to deep sea via GIDC's existing pipeline. Process inorganic residue, evaporation salts and ETP sludge will be sent to TSDF. Fly ash will be sent to brick manufacturers. Catalyst, waste oil and used batteries will be sent to authorized recyclers. . "</i></p>	
<b>(b)</b>	<p>Specific Conditions (v) &amp; (vi) to be read as under:-                      (v) <i>The fresh water requirement shall not exceed 2811 m3/day (Industrial: 2711 m3/day + Domestic: 100 m3/day) from GIDC water supply.</i>                      (vi) <i>Effluent generation shall be 1361 m3/day (Industrial: 1311 m3/day + Domestic: 50 m3/day). Industrial wastewater will be segregated into High TDS/COD and Low TDS/COD effluent streams. High TDS/COD effluent stream will be treated in multiple effect evaporator (MEE) and condensate goes to conventional ETP where it is mixed with Low TDS/COD effluent stream and ultimately the treated effluent i.e. 1361 m3/day (Industrial: 1311 m3/day + Domestic: 50 m3/day) shall be discharged via GIDC's existing 10 km deep sea pipeline.</i></p>	<b>Noted for Compliance.</b>
<b>4</b>	<p>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 28<sup>th</sup> October, 2016 for Setting up specialty chemicals manufacturing unit "by M/s Indofil Industries Limited at plot No. D-2/CH-12, GIDC, Industrial Estate, Village Dahej, Tehsil Vagra, Dist.- Bharuch (Gujarat), as stated in para 3 above.</p>	<b>Noted for Compliance.</b>
<b>5</b>	<p>All other terms and conditions stipulated in the environmental clearance dated 28<sup>th</sup> October, 2016 shall remain unchanged.</p>	<b>Noted for Compliance.</b>

**Annexure-1**

<b>Production Details in MT (January 2022 – June 2022)</b>						
<b>Month</b>	<b>Mancozeb &amp; its Formulation</b>	<b>Zineb &amp; its Formulation</b>	<b>Solution Polymers</b>	<b>Re-dispersible Powder</b>	<b>Plastic Modifiers</b>	<b>Acrylic Emulsions</b>
<b>Permission (MTPA)</b>	<b>55000</b>	<b>5000</b>	<b>3634</b>	<b>11571</b>	<b>20055</b>	<b>2635</b>
<b>Jan-22</b>	3853.512	0	206	833	806	157
<b>Feb-22</b>	3578	0	194	739	898	175
<b>Mar-22</b>	1701.987	242	215	640	718	191
<b>Apr-22</b>	3062	782	265	590	738	171
<b>May-22</b>	4390	736	284	842	934	194
<b>Jun-22</b>	4360	0	297	818	844	214
<b>Total in MT (six monthly)</b>	<b>20945.499</b>	<b>1760</b>	<b>1461</b>	<b>4462</b>	<b>4938</b>	<b>1102</b>

**Annexure-2**

<b>Month</b>	<b>GIDC Fresh Water Consumption Details (KL)</b>
<b>Jan-22</b>	12434
<b>Feb-22</b>	11942
<b>Mar-22</b>	10378
<b>Apr-22</b>	12434
<b>May-22</b>	14072
<b>Jun-22</b>	14037
<b>Total (KL)</b>	<b>75297</b>
<b>Avg (KL/Day)</b>	<b>409</b>

**Annexure-3**

Sr.no.	Stack ID	Parameter	GPCB Limits	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Min	Max	Avg.
<b>FLUE GAS EMISSION ANALYSIS</b>												
1	Boiler Stack-1	PM	150 mg/NM3	77	68	82	91	75	82	68	91	79
		SOX	100ppm	42.9	39.6	49	56.3	51.1	48.3	40	56	48
		NOX	50ppm	35.6	32.5	34	42.8	39.6	35.8	33	43	37
2	DG Set-1 Stack-2	PM	150 mg/Nm3	91	94	101	92	98	91	91	101	95
		SO2	100ppm	60.1	57.4	69	61.5	65.1	59.2	57	69	62
		NOX	50ppm	44.5	41.6	49.3	39.6	43.2	48.5	40	49	44
<b>PROCESS STACK EMISSION ANALYSIS</b>												
3	CS2 Vent Blower -Stack 01	HCL	20mg/Nm3	NA	NA	NA	NA	NA	NA	NA	NA	NA
		CS2	180mg/Nm3	17.21	17.8	22.1	28.63	23.42	24.47	17	29	22
		H2S	05mg/Nm3	3.4	3.2	3.9	4.6	3.9	4.5	3	5	4
4	Spray Dryer EBDC Stack -2	PM	20mg/Nm3	13	16	12	14	12	15	12	16	14
5	Spray Dryer SPCD Stack 3	PM	20mg/Nm3	16	17	13	11	15	18	11	18	15
6	PPT Scrubber Out Stack-04	CS2	180mg/Nm3	19.2	18.12	25.9	19.39	22.12	27.04	18	27	22
		H2S	05mg/Nm3	2.6	1.9	2.6	2	2.6	1.9	2	3	2
7	Spray Dryer (SPD 224) SPCD Stack 6	PM	20mg/Nm3	10	11	13	18	13	17	10	18	14

<b>AMBIENT AIR MONITORING</b>								
Month	Near Main gate				Near Material Gate Area			
	Station-1				Station-2			
	PM10 (100)	PM2.5 (60)	SO2 (80)	NO2 (80)	PM10 (100)	PM2.5 (60)	SO2 (80)	NO2 (80)

**Half Yearly EC Compliance Report for the Conditions given in the Environmental Clearance of Indofil Industries Limited (Unit-03), Dahej  
(January 2022 – June 2022)**

	µg/m3)	µg/m3)	µg/m3)	µg/m3)	µg/m3)	µg/m3)	µg/m3)	µg/m3)
<b>Jan-22</b>	64	29	21.3	18.2	68	31	23.9	17
<b>Feb-22</b>	64	29.2	21.5	18.2	68	30.9	23.9	17.1
<b>Mar-22</b>	78	35.9	16.7	24.9	83	40.8	21.6	29.9
<b>Apr-22</b>	67	24.2	19.9	20.9	72.7	29.6	18.9	26.3
<b>May-22</b>	67	24.2	13.9	20.6	72.7	29.6	18.9	26.3
<b>Jun-22</b>	65	22.9	13.7	26.1	75	30.1	20.4	26.9
<b>Avg</b>	<b>67.50</b>	<b>27.57</b>	<b>17.83</b>	<b>21.48</b>	<b>73.23</b>	<b>32.00</b>	<b>21.27</b>	<b>23.92</b>
<b>Max</b>	78	35.9	21.5	26.1	83	40.8	23.9	29.9
<b>Min</b>	64	22.9	13.7	18.2	68	29.6	18.9	17.1

<b>AMBIENT AIR MONITORING</b>								
	<b>Near ETP</b>				<b>Near SPCD Lab</b>			
<b>Month</b>	<b>Station-1</b>				<b>Station-2</b>			
	<b>PM10 (100 µg/m3)</b>	<b>PM2.5 (60 µg/m3)</b>	<b>SO2 (80 µg/m3)</b>	<b>NO2 (80 µg/m3)</b>	<b>PM10 (100 µg/m3)</b>	<b>PM2.5 (60 µg/m3)</b>	<b>SO2 (80 µg/m3)</b>	<b>NO2 (80 µg/m3)</b>
<b>Jan-22</b>	64	29	26.3	20.2	54	21	23.9	20.2
<b>Feb-22</b>	64	29.2	26.4	20.2	54	20.9	23.9	20.2
<b>Mar-22</b>	74	32.1	12.1	21.1	70	28	7.1	17
<b>Apr-22</b>	63.5	20.4	10.3	17.1	61.8	18.8	8.5	15.4
<b>May-22</b>	63.5	20.4	10.3	17.1	61.8	18.4	8.5	15.4
<b>Jun-22</b>	68	25	11.9	18.8	59.4	16.3	8.4	16.3
<b>Avg</b>	<b>66.17</b>	<b>26.02</b>	<b>16.22</b>	<b>19.08</b>	<b>60.17</b>	<b>20.57</b>	<b>13.38</b>	<b>17.42</b>
<b>Max</b>	74	32.1	26.4	21.1	70	28	23.9	20.2
<b>Min</b>	63.5	20.4	10.3	17.1	54	16.3	7.1	15.4

**Half Yearly EC Compliance Report for the Conditions given in the Environmental Clearance of Indofil Industries Limited (Unit-03), Dahej  
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<b>Noise Monitoring Report (dBA) (Jan-2022 to June-2022)</b>											
<b>Sr. No.</b>	<b>Location</b>	<b>Permissible limit Day Time</b>	<b>Jan-22</b>	<b>Feb-22</b>	<b>Mar-22</b>	<b>Apr-22</b>	<b>May-22</b>	<b>Jun-22</b>	<b>Min</b>	<b>Max</b>	<b>Avg</b>
1	Near Main Gate	75	57.4	54.2	59.7	55.9	57.4	60.2	54	60	57
2	Near Boiler	75	71.9	72.5	70.2	73.8	70.2	69.8	70	74	71
3	Near ETP	75	64.7	67.4	66.9	67.1	69.5	65.2	65	70	67
4	Near Material Gate	75	61.5	62.7	69.5	65.3	62.8	64.9	62	70	64
5	Near EBDC plant	75	63.3	65.1	65.2	69.1	68.4	70.7	63	71	67
6	Near SPCD Spray Dryer	75	55.7	52.8	59.4	55.4	60.4	57.5	53	60	57
7	MEE plant	75	72.5	73.9	71.8	73.9	70.3	74.1	70	74	73
8	Utility Area	75	69.2	66.1	60.7	68.2	71.8	65.5	61	72	67
9	Near CS2 plant	75	62.8	58.6	68.4	65.8	59.3	66.9	59	68	64
10	SPCD liquid Plant	75	65.4	60.2	67.2	63.4	69.5	63.7	60	70	65

  

<b>Night Time (in dbA)</b>											
<b>Sr. No.</b>	<b>Location</b>	<b>Permissible limit Night Time</b>	<b>Jan-22</b>	<b>Feb-22</b>	<b>Mar-22</b>	<b>Apr-22</b>	<b>May-22</b>	<b>Jun-22</b>	<b>Min</b>	<b>Max</b>	<b>Avg</b>
1	Near Main Gate	70	54.1	49.5	52.2	52.7	52.2	50.7	50	57	53
2	Near Boiler	70	55.6	48.4	56.7	58.1	57.8	54.3	65	69	67
3	Near ETP	70	62.4	61.6	62.3	63.6	63.5	62	61	65	63
4	Near Material Gate	70	61.6	59.5	58.3	60	58.9	57.4	53	65	59
5	Near EBDC plant	70	58.5	63.1	65.7	63.1	61.6	60.1	56	66	61
6	Near SPCD Spray Dryer	70	52.6	55.6	51.7	49.9	53.4	51.9	49	56	53
7	MEE plant	70	58.8	57.7	58.5	56.4	59.2	60.1	65	70	68
8	Utility Area	70	60.5	63.6	60.1	59.3	59.8	58.3	57	67	62
9	Near CS2 plant	70	57.5	58.1	56.5	57.8	61.5	60	56.5	61.5	59
10	SPCD liquid Plant	70	56.9	60.4	61.1	60.4	64.4	62.9	56.9	64.4	61

