

Your application has been Submitted with following details

Proposal No	IA/UP/IND3/267961/2022
Compliance ID	27845034
Compliance Number(For Tracking)	EC/M/COMPLIANCE/27845034/2023
Reporting Year	2023
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	29-11-2023
IRO Name	Dr Vivek Saxena
IRO Email	hr062@ifs.nic.in
State	UTTAR PRADESH
IRO Office Address	Budgam

Note:- SMS and E-Mail has been sent to Dr Vivek Saxena, UTTAR PRADESH with Notification to Project Proponent.

Half Yearly Compliance Report(Preview)

Proposal Details

Proposal No

IA/UP/IND3/267961/2022

Category

Industrial Projects - 3

Proposal Name

Expansion of Membrane Cell Technology based Caustic Soda Plant from 255 TPD to 365 TPD (110 TPD) at Renukoot, Sonbhadra, U.P. Transfer of EC from M/s Kanoria Chemicals & Industries Limited to M/s Grasim Industries Limited Dated 28 November -2022

Plot / Survey/ Khasra No.**Village(s)****Sub-District(s)****State**

UTTAR PRADESH

District

SONBHADRA

MoEF File No

J - 11011/284/2006 - IA - II - (I)

Name of the Entity/**Corporate Office**

Manish Gurg

Entity's PAN

NA

Entity Name as per PAN

NA

Entity details mentioned above is correct ?

Covering Letter

Covering Letter[Click to View](#)

Compliance Reporting Details

Reporting Year

2023

Reporting Period

01 Dec(01 Apr - 30 Sep)

Remark(if any)

The EC was transferred from M/s Kanoria Chemicals & Industries Limited to M/s Grasim Industries Limited dated: 28.11.2022 with reference to the online proposal no.

IA/UP/IND3/267961/2022; File No. J-11011/284/2006-IA-II-(I).

Details of Production and Project Area**Date of Commencement of Project/Activity**

2007-05-21

	Project Area as per EC Granted(ha.)	Actual Project Area in Possession(ha.)
Private	0	0
Revenue Land	0	0
Forest	131.53	131.53
Others	0	0
Total	131.53	131.53

PRODUCTION CAPACITY

Sr.No.	Name of the Product	Units	As per EC Granted	As per CTO Granted	CTO ID	Valid Up To	Production during last financial year
1	Caustic Soda Lye	Tons per Annum (TPA)	129000				129000

Conditions**Specific Conditions**

Sr.No.	Condition Heading	Condition Details	Status of Compliance;Remarks/Reason and Supporting Documents	
1	AIR QUALITY MONITORING AND PRESERVATION	Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are	PPs Submission	Ambient Air Monitoring at 04 locations within premises has been done by 3rd Party. CAAQMS is installed on-line ambient air monitoring at Renukeshwar Temple. Report submitted

		<p>anticipated in consultation with the SPCB and data submitted to the Ministry.</p>		<p>Quarterly to ministry. Annexure 2 ?Monthly monitoring report done by 3rd party Annexure 3 ? Biannual Audit report done by NEERI Being Complied Attachment: Click to View</p>
2	AIR QUALITY MONITORING AND PRESERVATION	<p>All the pipelines containing Cl₂ shall be connected to the Sodium Hypochlorite (Hypo) plant to control the Cl₂ emissions. Any Cl₂ escaping anywhere due to leakage, plant emergency shall be sucked into Hypo plant. High efficiency Karbate absorbers ? coolers and scrubbers shall be installed for the absorption of HCl gas and scrubbing vent gases. The vent gases from chlorine absorber of sodium hydrochloride plant and HCl plant shall be controlled at source by effective absorption system so that Cl₂ concentration in the vent gases shall not exceed 5 ppm. The vent gases shall be discharged from the stacks of adequate height</p>	PPs Submission	<p>All the Cl₂ pipelines are connected to the Sodium hypo-chlorite/Calcium Hypo Chlorite. High-efficiency absorbers, coolers, and scrubbers have been installed. The vent gases from the Sodium Hypo Chlorite and HCl plant is below the specified limits. The gases are being dispersed through the stacks at more than 30-meter height. We have also installed a continuous online monitoring system for emissions and real-time data transferred to the CPCB server. Kindly refer to Annexure 1 Being Complied Attachment: Click to View</p>

		for effective dispersion.		
3	AIR QUALITY MONITORING AND PRESERVATION	Lindane unit shall be provided with bag filters and efficient dust collectors. Scrubbers shall be provided to the Al ₂ Cl ₃ unit to scrub un-reacted Cl ₂ from reactors and Al ₂ Cl ₃ vapor.	PPs Submission	Related plants have been stopped permanently. Scrubbers have been provided to the Al ₂ Cl ₃ unit to scrub un-reacted Cl ₂ from reactors and Al ₂ Cl ₃ vapor. Complied Attachment: NA
4	AIR QUALITY MONITORING AND PRESERVATION	Regular monitoring of fugitive emission in the work zone environment for all the relevant parameters including Cl ₂ , Hg, HCl and Benzene etc. using proper instruments shall be ensured and report submitted to the Ministry's Regional Office at Lucknow, CPCB and UPPCB.	PPs Submission	Related plants have been stopped permanently. Complied Attachment: NA
5	WATER QUALITY MONITORING AND PRESERVATION	Total water requirement from Rihand Reservoir shall not exceed 578* m ³ /d and as per the Agreement signed with UP Jal Vidyut Nigam Ltd. All the effluent shall be collected in one pit only and other pit shall be used for neutralization of the effluent in alternate cycles. Mercury bearing effluent shall be treated with Sodium sulphate to precipitate	PPs Submission	The water withdrawal from Rihand Reservoir is as per agreement with UP Jal Vidyut Nigam Ltd. Being Complied Attachment: NA

Mercury as Mercury sulphide. Treated supernatant (100%) shall be recycled back in the system. Settled sludge shall be disposed off in Hg bearing brine sludge disposal ground. Lindane plant effluent shall also be 100% recycled. The company shall make efforts to maximize the use of treated effluent for green belt development within the plant complex to minimize the discharge of treated effluent into Dongia Nallah. Further, efforts shall be made by maximizing optimal re-use and recycle of treated effluent in process and utilities to reduce the fresh water consumption.

6	WATER QUALITY MONITORING AND PRESERVATION	As mentioned in EIA/EMP report, no Mercury and/or Lindane bearing wastewater shall be discharged to Dongia Nallah/Rihand Reservoir. Regular monitoring of Dongia Nallah for all the relevant parameters shall be ensured. The treated effluent	PPs Submission	We have totally stopped Lindane plant and mercury cell house. Effluent treated through full fledged ETP along with RO, MEE and ATFD system. Unit has already achieved and implemented Zero liquid discharge facility at site and real time data transferred on CPCB server on continuous basis through online Flow
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		shall conform to the standards stipulated by the UPPCB for discharge in inland surface water.		meter and PTZ camera installed at final discharge point. Kindly refer Annexure 3 Being Complied Attachment: Click to View
7	WATER QUALITY MONITORING AND PRESERVATION	The company shall develop rainwater-harvesting structures to harvest the run off water from the rooftop and by laying a separate storm water drainage system for recharge of ground water.	PPs Submission	There is no feasibility of rainwater harvesting potential at our site due to the hilly region, as per CGWB. Annexure 5 ? CGWA letter is attached for reference. Complied Attachment: Click to View
8	WASTE MANAGEMENT	The process sludge (non-hazardous) shall be stored at the project site or dumped as a landfill in nearby low-lying area. Hazardous brine sludge from the filter CETP shall be dumped in UPPCB approved hazardous waste storage area (TSDF) located in nearby valley. Solid waste from Lindane unit shall be used to manufacture Tri-Chloro Benzene. Fly ash generated from CPP (extracted from ESPs) shall be used for pozzolona Portland cement and brick manufacturing.	PPs Submission	All process sludge generated by different processes are being included in Hazardous waste authorization and disposed through authorized TSDF, as directed by UPPCB. Kindly refer Annexure 4 GIL has totally stopped Lindane plant and mercury cell house. Ash from CPP is being supplied to Cement plants and also used for making of bricks, blocks and road etc. Bottom ash is used for land filling. Being Complied Attachment: Click to View

		Bottom ash shall be used for land filling.		
9	WASTE MANAGEMENT	Proper handling, management and disposal of Lindane and Mercury bearing sludge shall be ensured.	PPs Submission	Related plants have been stopped permanently. Complied Attachment: NA
10	Corporate Environmental Responsibility	All the recommendations made in a Charter of Corporate Responsibility for Environmental Protection (CREP) shall be implemented in a time bound manner.	PPs Submission	Implemented Being Complied Attachment: NA
11	Risk Mitigation and Disaster Management	The project authorities shall comply with the recommendations made in the Disaster Management Plan. The Company shall install chlorine gas detectors to detect leakage of chlorine at liquid chlorine storage tanks, sodium hypo plant at vent pipe, HCl synthesis unit at vent pipe and electrolyzes area. The company should install on-line Hydrogen in Chlorine analyzer.	PPs Submission	DMP has been prepared and has complied with its recommendation. 60 Nos. Chlorine gas detectors have been installed at different location in Chlorine storage tank, sodium hypo plant, HCl synthesis and Electrolyser area for monitoring of any residual chlorine leakage. Annexure 7 ? List of all sensors installed in different location is attached for reference. Being Complied Attachment: Click to View
12	Statutory compliance	All the mercury cells of the existing Chlor Alkali (Mercury Cell) plant shall be phased out by	PPs Submission	Mercury cell permanently stopped in September 2011 well ahead of the deadline in 2012.

		2012 and no further expansion will be granted.		Complied Attachment: NA
13	GREENBELT	Greenbelt shall be developed in an area of 22.78 ha to mitigate the effects of fugitive emissions all around the plant. The development of green belt shall be as per the Central Pollution Control Board guidelines	PPs Submission	The greenbelt has been developed in 82.28 ha area around the plant. This is around 62% of the total area. Annexure 6 ? Summary of Greenbelt is attached for your reference. Being Complied Attachment: Click to View
14	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions (SO ₂ , NO _x , Cl ₂ & HCl) particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	PPs Submission	All the gas emissions like SO ₂ , NO _x , Cl ₂ & HCl, and SPM from various process units of the plant is within the limits as prescribed by the Pollution Control Board. The last 6 months' Stack monitoring report is attached, this monitoring was done by 3rd Party. The unit has also installed a continuous online monitoring system for emissions testing of the above parameters and real-time data transfer on the CPCB server on a continuous basis. Annexure 1 ? Stacks monitoring report done by 3rd party. Being Complied Attachment: Click to View

General Conditions

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks/Reason and Supporting Documents	
1	WASTE MANAGEMENT	<p>The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collection/treatment/storage / disposal of hazardous wastes.</p>	PPs Submission	<p>Hazardous waste authorization has been obtained from UPPCB Lucknow for the disposal and treatment of hazardous waste. Annexure 9 ? Hazardous waste authorization is attached for your reference. Being Complied Attachment: Click to View</p>
2	Risk Mitigation and Disaster Management	<p>The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and import of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000. Prior approvals from Chief Inspectorate of Factories, Chief of Controller Explosives, Fire Safety Inspectorate etc. must be obtained.</p>	PPs Submission	<p>We are complying with the MSIHC rules 1989 as amended in 1994 and 2000 and prepared On Site and Off Site emergency plans and drills. Being Complied Attachment: NA</p>
3	Human Health Environment	<p>Occupational health surveillance program should be undertaken as regular exercise for all the employees, specially for those engaged in handling hazardous substances. The first aid facilities in the occupational health center shall be strengthened and the medical records of each employee should be maintained separately.</p>	PPs Submission	<p>Annual health check-up of all employees are done. An 8 bed OHC headed by a MBBS Doctor equipped with Ambulance are available. Records of medical examination maintained. Annexure 10 ? Health examination</p>

				record of all employee for FY 2023-24, is attached for reference Being Complied Attachment: Click to View
4	Noise Monitoring & Prevention	The overall noise levels in and around the plant area should 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 should conform to the standards prescribed under Environment (Protection) Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)	PPs Submission	Silencers to DG set vent and acoustic enclosures have been provided. The overall noise level and ambient noise levels during daytime and night time are within prescribed limits. kindly refer Annexure 3 Being Complied Attachment: Click to View
5	PUBLIC HEARING	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 UPPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in . This should 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 should be forwarded to the Regional Office.	PPs Submission	Already advertised in two local newspapers i.e. Hindustan dtd. 27.05.07 & Dainik Jagaran dtd. 26.05.07. Copy of the advertisement already sent to regional office. Complied Attachment: NA

6	Statutory compliance	The project authorities must strictly adhere to the stipulations made by the Uttar Pradesh Pollution Control Board (UPPCB).	PPs Submission	<p>We follow the direction/guidelines of UPPCB and consents are obtained. We are maintaining and complying the stipulated conditions and annual productions as per UPPCB Consents ? Sr. No. Product UOM Production in FY 2023-24</p> <table border="0"> <tr> <td>1</td> <td>Caustic Soda Lye</td> <td>MT</td> <td>65,348.00</td> </tr> <tr> <td>2</td> <td>Chlorine</td> <td>MT</td> <td>46,601.00</td> </tr> <tr> <td>3</td> <td>HCL Chemicals</td> <td>MT</td> <td>11,487.00</td> </tr> <tr> <td>4</td> <td>Stable Bleaching Powder</td> <td>MT</td> <td>18,104.00</td> </tr> <tr> <td>5</td> <td>Aluminium Chloride</td> <td>MT</td> <td>8,330.00</td> </tr> <tr> <td>6</td> <td>PAC 10% Basis</td> <td>MT</td> <td>31,497.00</td> </tr> <tr> <td>7</td> <td>Chlorinated paraffin</td> <td>MT</td> <td>9,145.00</td> </tr> <tr> <td>8</td> <td>Hydrogen Gas</td> <td>Nm3</td> <td>27,3911.00</td> </tr> </table> <p>Annexure 8 ? Copy of CTO is attached with for your reference Being Complied Attachment: Click to View</p>	1	Caustic Soda Lye	MT	65,348.00	2	Chlorine	MT	46,601.00	3	HCL Chemicals	MT	11,487.00	4	Stable Bleaching Powder	MT	18,104.00	5	Aluminium Chloride	MT	8,330.00	6	PAC 10% Basis	MT	31,497.00	7	Chlorinated paraffin	MT	9,145.00	8	Hydrogen Gas	Nm3	27,3911.00
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7	Statutory compliance	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and monitoring functions.	PPs Submission	<p>We are having Structured Environment Management System in place and also we are having separate EMS Cell at unit level with full-fledged laboratory set up. Annexure 12 ? Detail structure</p>																																

				of Environmental Management Cell is attached for reference. Being Complied Attachment: Click to View
8	Statutory compliance	The implementation of the project vis-à-vis environmental action plans will be monitored by the Ministry's Regional Office at Lucknow / UPPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.	PPs Submission	Six monthly reports are sent to authorities. Refer - GIL/ENV/2023-24/16 dtd. 26 May 2023 Environment Clearance compliance for the period 1st October 2022 to 31st March 2023 submitted via E-mail. Being Complied Attachment: NA
9	MISCELLANEOUS	No further expansion or modifications in the plant shall be carried out without prior approval of 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.	PPs Submission	No further expansion or modifications has been done. Being Complied Attachment: NA
10	MISCELLANEOUS	Rs. 5.00 Crores and Rs. 0.50 Crores earmarked towards the capital cost and recurring cost/annum for environmental pollution control shall be judiciously used to implement the	PPs Submission	There is no paucity of funds for environmental pollution control.

		conditions stipulated by the Ministry of Environment & Forests as well as State Government. The funds so provided shall not be diverted for any other purpose.		Being Complied Attachment: NA
11	MISCELLANEOUS	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 commencing the land development work, if any.	PPs Submission	Data sheets sent to regional office. Being Complied Attachment: NA
12	Corporate Environmental Responsibility	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA and Disaster Management Plan. The company also under takes social welfare/community development measures in the surrounding villages such as health care, education and drinking water supply facilities.	PPs Submission	We comply with the safeguards recommended in EIA and DMP. Regular health camps, training workshops, cleaning of wells etc. in villages situated around GIL are undertaken as part of our Rural development activities. Annexure 11 ? Detail of expenditure made under community development as CSR scheme for FY 2023-24. Being Complied Attachment: Click to View

Document Upload

Last Site Visit Report (if available)

NA

Last Site Visit Report Date (if available)

Additional Attachment (if any)[Click to View](#)**Additional Remarks (if any)**

Additional Attachment: Consolidated letter for EC Compliance as well as the annexures supporting the specific & general conditions.

- I 'Manish Gurg' hereby give undertaking that the data and information given in the filed compliance and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information found to be false or misleading at any stage, the clearance given to the project will be revoked at our risk and cost. In addition to above, I hereby give undertaking that no activity such as change in project layout, construction, expansion, etc. has been taken up without due approval.