

Six Monthly Compliance Status Report

Annexure-1

Name of Project : Expansion of Multi- purpose/ Fluorospeciality Plant (3000TPA to 6000TPA), Installation of New Generation Refrigerants & Refrigerant blends Plant (9000TPA) and change in product mix of Chloromethanes and HFC-134 at village & P.O Jhiwana, Tehsil Tijara District Alwar, Rajasthan.

Project Code: Nil

Clearance Letter No.: F.No. J-11011/77/2015-1A II (I) dated 9th December 2016

Period of compliance Report: EC Applicability Period: April 23 to September '23

S. No.	Conditions	Compliance Status
A. SPECIFIC CONDITIONS :		
(i)	As proposed, Central absorption system(CAS) and hypo system with scrubbers shall be installed in new generation Refrigerants & Refrigerant blends Plant and MPP/FSP Plant. The Scrubber water should be sent to ETP for further treatment, Efficiency of scrubber shall monitored regularly and maintained Properly. Scrubber vent shall be provided with on-line detection system and alarm system to indicate higher than permissible value of controlled parameters. At no time, The emission levels shall go beyond the prescribed standards. The system should be inter locked with the pollution control equipment so that in any case of any increase in pollutants beyond permissible limits, plant should be automatically stopped.	Being complied. Central absorption system(CAS) and hypo system with scrubbers are installed in all existing plants however as far as New Generation Refrigerants & Refrigerant Blends Plant are concerned, there is no need to install any such system. Existing scrubbers' water is being treated and quality of treated water is also maintained as per RPCB prescribed limits. Analysis of treated water is being done by our in-house NABL accredited lab and quarterly by MOEFCC approved lab. Test reports of Stack and Ambient air are attached as Annexure-2-& 3 and Annexure E1 to E-12 All stacks are also being monitored through on line detection and alarm system.
(ii)	LDO shall be used as fuel instead of furnace Oil.	Being complied. Use of FO has been stopped completely

(viii)	Total water requirement from ground water source shall not exceed 2681 M3/day and prior permission should be obtained from the CGWA/SGWA.	Being complied. Currently water consumption is well below the CGWA permission i.e. 2681 M3 /Day. Water consumption from April-23 to September 23 is attached as Annexure-5. A copy of valid NOC from CGWA is attached as Annexure-9. Previous compliance report of CGWA conditions is also attached as Annexure-10
(ix)	Industrial effluents generation shall not exceed 1100M3/day. As proposed, effluent shall be treated in the ETP. Treated effluent (700M3/day) will be recycled/reused in the process and treated effluents (400M3/day) will be used for green belt. No effluents should be discharged outside from the premises and zero liquid discharge should be maintained. Domestic sewage should be treated in STP. Water quality of treated effluent should meet the norms prescribed by CPCB/SPCB.	Being Complied. Industrial effluents generation is under limit i.e. less than 1100M3/day. As proposed, effluent is being treated in the ETP. Treated effluent is being recycled/reused in the process and remaining treated effluents is being used for green belt. No effluents is being discharge outside from the premises and zero liquid discharge is being maintained. Domestic sewage is being treated in existing STP. Water quality of treated effluent met the norms prescribed by CPCB/SPCB. Details of water withdrawal during April 23 to September 23 and analysis reports of treated water are enclosed as an Annexure-5 & 6. Treated water also being analyzed by the MOEFCC approved lab. Analysis report of Approved lab is attached as Annexure E-13 & E-14
(x)	Process effluent and waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond	Being Complied. We have separate system for collecting process effluent and storm water. Storm water drain is being passed through guard pond.
(xi)	Hazardous chemicals shall be stored in tanks in tank farm, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.	Being Complied. Hazardous chemicals are being stored in tanks in tank farms, drums, carboys etc. Flame arresters are provided on tank farm. Solvent transfer is being done by pumps.
(Xii)	The company shall obtain Authorisation 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 waste and prior permission from RSPCB shall be obtained for disposal	Being Complied. Company has obtained Authorisation for collection, storage and disposal of hazardous waste under the hazardous Waste (Management, Handling and trans-Boundary movement) Rules, 2016 and amended as on date for

	Company shall carry out CSR activity in Jhiwana and Banban Villages. Activity should include orchard creation, cattle , woman welfare, road creation of health centre, training centre for unemployed people, facility for seed distribution etc.	satisfactorily and adequate budget provision is made accordingly. Company carry out CSR activities in Tjara Block including Jhiwana and Banban Villages. Our CSR includes orchard creation, cattle , woman welfare, road creation of health centre, training centre for unemployed people, facility for seed distribution etc.
(xix)	An Amount as required as per public hearing shall be embarked towards the enterprise social commitment (ESC) based on local needs and action plan with financial and physical break up/details shall be prepared and submitted to the Ministry's Regional office at Lucknow. Implementation of such program shall be ensured accordingly in a time bound manner.	Being Complied. All the requirements raised during public hearing are being met through our CSR activities.

B. GENERAL CONDITIONS :		
(i)	The project authorities shall strictly adhere to the stipulations made by the Rajasthan State Pollution Control Board (RSPCB). State Government and any other statutory authority.	Noted.
(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.	Noted that no further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
(iii)	The locations of ambient air quality monitoring station shall be decided in consultation with RSPCB and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Being Complied. Ambient air quality monitoring stations have been set up in the down wind direction as well as where maximum ground level concentration are anticipated in consultation with the RSPCB.

(ix)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Being Complied. Company has already undertaken CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area are being taken care.
(x)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Being Complied. Company has undertaken 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 to carry out the environmental Management and monitoring functions.	Separate Environment cell exists for ensuring compliance with respect to the consent conditions, supported by well equipped (NABL accredited) laboratory. Hierarchy of Management cell is attached as Annexure-11
(xii)	The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the ministry of Environment and forest as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environmental management/pollution control measures shall not be diverted for any other purpose.	Being Complied. The company has earmarked sufficient funds for recurring cost per annum to implement the conditions stipulated by the ministry of Environment and forest as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environmental management/pollution control measures is not being diverted for any other purpose.
(xiii)	A copy of the clearance letter shall be sent by the project proponent to concerned panchayat, Zila Praisad/Municipal corporation, Urban local Body and the local NGO ,If any, from who suggestion/representations if any were received while processing the proposal.	A copy of the clearance letter has already been sent by the project proponent to concerned panchayat, Zila Praisad/Municipal corporation, Urban local Body and the local NGO ,If any, from whose suggestion/representations if any were received while processing the proposal.

(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.	Being Complied. The project has been completed accordingly CTO have been taken from RPCB .
7.0	The Ministry may revoke or suspend the clearance, if implementation of any of above conditions is not satisfactory.	Noted that the Ministry may revoke or suspend the clearance, if implementation of any of above conditions is not satisfactory.
8.0	The ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted that the ministry reserves the right to stipulate additional conditions, if found necessary.
9.0	The above conditions will be enforced, inter-alia under the provisions of the water(Prevention& Control of pollution) Act 1974,Air(Prevention & control of water Pollution) Act1981, 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.	Noted and being complied.


SRF
Stack Emission analysis report for the period of April'23 to September '23

Frequency : Once in a fortnight

S.NO	Source of sample :	Parameters		Chlorine*	Hydrochloric Acid vapour and mist*	Fluoride as F/HF*	Particulate matter
		UOM	Standard				
			RPCB Standards	15	35	25	50
1	Chlorine Stack at CMS Plant			<0.59	Nil	N/A	N/A
2	HCl Stack at CMS Plant			Nil	<1.52	N/A	N/A
3	Central Absorption system at HF Plant			Nil	N/A	2.62	N/A
4	Dryer at HF Plant			Nil	N/A	Nil	N/A
5	Emergency Gas at Absorption (CAS) at HFC 134a Plant			Nil	Nil	2.48	N/A
6	Chlorine, HCL & HF Gas Absorption System vent of MPP			<0.59	<1.52	<0.415	N/A
7	Stack of the Thermal Oxidation Plant			N/A	<1.52	2.44	N/A
8	Coal/Husk boiler in CPP Plant			N/A	N/A	N/A	40.2

The stack analysis is carried out by dragger tube. CPP stack done by third party.

* Average Value for the period of April '23 to September '23

Annexure-3

Ambient air analysis report for the period of April'23 to September '23

Frequency : Twice in a week, 24 hourly

Period	Station/ Area	*Pm ₁₀	*Pm _{2.5}	*Sox	*Nox	*CO
		($\mu\text{g}/\text{m}^3$) Max	($\mu\text{g}/\text{m}^3$) Max	($\mu\text{g}/\text{m}^3$) Max	($\mu\text{g}/\text{m}^3$) Max	($\mu\text{g}/\text{m}^3$) Max
April '23 to September'23	Near Main gate of the factory - West	71	26.5	21.6	23.1	<2300
	Near HFC 134a Plant - East	67	27.2	21.1	22.1	<2300
	Near STP Area - South	72	26.3	21.8	22.6	<2300
	Near MPP Plant - North	70	29.0	21.4	23.1	<2300
RPCB Standards →		100	60	50	40	4000

Note :1 Since the site is common for Refrigerant , Hydrofluoric Acid , Chloromethanes , Thermal oxidation, Captive power plant ,MPP & HFC-134a common analysis is done & reported.

Note :2 CO is determined by Drager Tube.
* Average Value

Annexure-3a

Work Zone monitoring report for the period of April'23 to September '23

Frequency : Once in a month

Period	Chemical Name	Chlorine	Chloroform	CTC	HCl	HF	Methanol	Sulphuric Acid	Toluene
TLV as per Factory Act	→	1(PPM)	10	5	7	3	200	1	100
April'23 to September '23 (Average value at work zone)		<0.2	<2	<0.1	<1	<0.5	<25	<1	<5

Note : 1 Analysis is carried out by dragger tube.