

Compliance of Environmental Clearance

F. No. J-11011/241//2011-IAII(I); dated 11.08.2022

Sr. No.	Condition Details	Status of Compliance
para 2	<p>The Ministry of Environment and Forests has examined the application. It is noted that the proposal is for expansion of Synthetic organic Chemicals (1067 MTPM to 4400 MTPM) of M/s Jubilant Life Sciences Ltd. at Block No. 133 (Partly), 129 130, 131, 132 (Part), 134, 136, 137, 138, 139(Part), 140, 141, 144, 147, 148, 201, 202, 203, 204, 206, 207, 208, Village Samlaya, Taluka Savli, district Vadodara, Gujarat. GPCB vide Letter no GPCB/CCA-VRD-267(4):ID:22119/170223 dated 3rd January 2014 has submitted the status of compliance to the conditions stipulated in the consent to operate of the existing Synthetic Organic Chemicals Plant, wherein it is mentioned that overall the unit is in compliance of the consent conditions specified by GPCB. Total plant area is 362500 m². Out of which, green belt will be developed in 49261 m² of land. River mini flows at a distance of 0.76 Km. no national park/wildlife sanctuary/tiger reserve/elephant reserve is located within 10 Km distance. Total project cost is Rs. 60 Crores, of which an estimated Rs. 114 lakhs and Rs. 41.77 lakhs have been earmarked toward capital costs and recurring cost per annum for implementation of environment management plan.</p>	Noted.
para 3	The following products will be manufactured:	Complied.

Sr. No.	Condition Details					Status of Compliance
S. No	Products falling under one group (Proposed Common Group)	Name of the Product	Existing Capacity (MTPM)	Additional Capacity (MTPM)	Capacity after expansion (MTPM)	
	EC Products:					
1	Ethoxylate of Nonyl Phenol, Fatty Acid Fatty Alcohol, DEG & Castor Oil, Choline Chloride & derivatives (Aqueous Choline Chloride), Acidifier Liquid, Chloromequate Chloride (Choline Dichloride), Ethoxylate PCL (Triss), Choline Chloride Crystals etc.	Ethoxylate of nonyl phenol, fatty acid, Fatty Alcohol, DEG and Castor Oil	200	--	3400	
2		Liquid Choline chloride 75%	667	1333		
3		Acidifier Liquid	40	460		
4		Chloromequate Chloride (Choline Dichloride) 50% to 67%	150	450		
5		Ethoxylate PCL3 (Triss)	10	40		

Sr. No.	Condition Details					Status of Compliance	
6		Choline Chloride crystall	0	50			
7	Betaine				500		
8	2 Vinyl Pyridine				500		
	Total		1067	3333	4400		
	Non EC Products:						
9	Choline Chloride Dry (Dry Choline Chloride),	Dry Choline Chloride	833	1167	2500		
10	Acidifier Dry, Silica based dry choline etc.	Acidifier Dry base	50	450			
11	Premix, Ethoxylates of Castor oil, Feed Emulsifier	Animal feed-Premix	416	834	3550		
12	lysolecithin, Chelated minerals for feed and food applications,	Feed Emulsifier	0	400			
13	Liquid Formulation and tonics, Encapsulated products.	Chelated mineral for feed and food applications	0	500			
14		Liquid formulations and tonics	0	500			
15		Encapsulated products for livestock, poultry and swine	0	500			
16	Carrier	Corn cob	333	517	850		
7	EOCO2 (Ethylene oxide and Carbon Dioxide Mixture)	EOCO2 (Ethylene oxide and Carbon Dioxide	150	150	300		

Sr. No.	Condition Details						Status of Compliance
		Mixture)					
8	Oil Field Chemicals	Oil Field Chemicals	120	0	120		
9	Silica 50%	Silica 50%	0	500	500		
	Sub-total		1902	5968	7870		
	Grand total		2969	9251	12220		
Para 4	<p>Bag filter along with Stack of adequate height will be provided to saw dust/agro waste fired boiler. Total water requirement from ground water sources will be increased from 197.7 m³/day to 355.2 m³/day after expansion. Industrial effluent will be treated in effluent treatment plant (ETP) comprising of primary, secondary and tertiary treatment facilities. Treated effluent will be discharged to CETP after conforming to the standards prescribed for the effluent discharge by GPCB. Online TOC analyser, pH meter, and flow meter will be installed to monitor the treated water quality before discharging into CETP. ETP Sludge and process waste will be sent to Treatment Storage Disposal facility (TSDF) for hazardous waste. Waste Oil and used batteries will be sold to authorised recyclers/re-processors.</p>					<p>Complied</p> <ul style="list-style-type: none"> • Bag Filter along with 30 Mtr ht stack provided. • Water consumption is within the permitted quantity of 355.2 m³/day. • Effluent treatment facility is installed and treated effluent being discharged to CETP after conforming to the standards prescribed for the effluent discharge by GPCB. Online TOC analyser, pH meter, and flow meter installed. • ETP Sludge and process waste being sent to TSDF. • Waste Oil and used batteries being sold to authorised recyclers/re-processors. 	
Para 5	Public hearing/consultation meeting conducted by Gujarat Pollution Control Board on 16 th May 2012.					Noted	
Para 6	The proposal was considered by Expert Appraisal Committee (Industry) in its 26 th and 6 th meeting held during 17 th – 18 th August, 2011 and during 5 th March, 2013 – 7 th March 2013 respectively. The Committee recommended the proposal for environmental clearance.					Noted	

Sr. No.	Condition Details	Status of Compliance
Para 7	Based on the information submitted by the project proponent, the Ministry of Environment and forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14 th September 2006, subject to the compliance of the following Specific and General Condition:	
A.	Specific Conditions	
i)	National emission standard for organic chemicals manufacturing industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended time to time shall be followed by the unit.	Complied. AAQ monitoring report enclosed as Annexure-1
ii)	Bag filter along with stack of adequate height shall be provided dust / agro waste fired boiler as per GPCB guideline	Complied. Bag Filter along with 30 Mtr ht stack provided
iii)	Ambient air quality data shall be collected as per NAAQES, standards notified by the Ministry vide G.S.R. No. 826 (E) dated 16th September, 2009. The levels of PM10, SO2, NOX, CO and VOC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and Gujarat Pollution Control Board (GPCB).	Complied. Ambient air monitoring is carried out regularly by MoEF approved lab. AAQ monitoring report enclosed as Annexure -1 Digital display board for emission and effluent parameters installed near the main gate.
iv)	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. The	Complied Control measures for checking fugitive emissions from all the vulnerable sources are provided. Fugitive emissions monitoring done regularly at process area and the emission norms confirm to standards stipulated by GPCB.

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	emissions shall conform to the limits stipulated by the GPCB.	
v)	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Complied Adequate stack of ht 30 mtr is provided for gaseous emission through DG set, regular gaseous emission monitoring done by NABET approved lab. Stack Monitoring report attached as Annexure-2
vi)	Total fresh water requirement from ground water source shall not exceed 355.2m ³ /day and prior permission shall be obtained from the CGWA.	Complied. Water consumption is within the permission quantity of 355.2 KLD, enclosed as Annexure-3 NoC for abstraction of 355.2 m ³ /day ground water obtained from CGWA vide No. CGWA/NOC/IND/REN/1/2022/ 6730 (Valid from 03/07/2021 to 02/07/2024).
vii)	Industrial effluent shall not exceed 80m ³ /day. Industrial effluent will be treated in ETP and treated effluent shall be discharged to CETP after conforming to the standards prescribed for the effluent discharge and obtaining permission from the GPCB. No process effluent shall be discharged in and around the project site. Water quality of treated effluent from ETP shall be monitored regularly.	Complied Industrial effluent is within 80 KLD, details in Annexure-4 . Effluents are treated in an in-house ETP and treated effluent being sent to CETP after confirming the norms.
viii)	Treated effluent shall be passed through guard pond. Online pH meter, flow meter and TOC analyzer to be installed	Complied. Treated Effluent is collected in collection tank. Online pH meter, flow meter and TOC analyzer installed.
ix)	Process effluent /any waste water shall not be allowed to mix with storm water and storm water drain shall be passed through guard pond	Complied Process effluent transfer is through pipelines and does not mix with storm water.
x)	Solvent Management shall be as follows- a) Reactor shall be connected to chilled brine condenser system b) Reactor and solvent handling pumps shall have mechanical seals to prevent leakages c) the condenser shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery	Complied

Sr. No.	Condition Details	Status of Compliance
	<p>d) Solvents shall be stored in a separate space specified with all safety measures</p> <p>e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</p> <p>f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.</p> <p>g) all the solvent storage tanks shall be connected with vent condenser with chilled brine calculation.</p>	
xi)	<p>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.</p>	<p>Complied. Hazardous chemical stored in Tanks with Flame arrestor followed by breather valves. And it is transferred through pumps only.</p>
xii)	<p>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 GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for firefighting facilities in case of emergency.</p>	<p>Complied. Authorization for Hazardous waste disposal at TSDF site is obtained as CCA.</p>
xiii)	<p>The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.</p>	<p>Complied. All Transportation of Hazardous Chemicals are as per the Motor Vehicle Act (MVA), 1989.</p>
xiv)	<p>The company shall undertake following waste minimization measures</p> <p>a) Metering and control of quantities of active ingredients to minimize waste.</p> <p>b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</p> <p>c) Use of automated filling to minimize spillage.</p> <p>d) Use of Close Feed system into batch reactors.</p> <p>e) Venting equipment through vapor recovery system.</p> <p>f) Use of high pressure hoses for</p>	<p>Complied.</p>

Sr. No.	Condition Details	Status of Compliance
	equipment clearing to reduce wastewater generation.	
xv)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Complied. Adequate firefighting facilities are provided in manufacturing process area.
xvi)	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. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied. Pre-Employment and Periodical medical examination for all employees done regularly. Training is also provided to employees on safety and health aspects of chemicals handling.
xvii)	Green belt shall be developed at least in 33 % of the plant area in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO. Selection of plant species shall be as per the CPCB guidelines.	Being Complied. Green belt development is being simultaneously implemented along with the expansion projects implementation. Currently, 3705 Nos of fully grown trees are present as surveyed in Jan 2023 and another 20,000 Neem trees are planted in July 2021. Additionally, about 18,000 tree saplings have been distributed under community plantation program during 2020, 2021, 2022 in the surrounding villages through community engagement under CER objectives.
xviii)	The company shall comply with the recommendations made in the EIA-EMP/Risk assessment report. Risk assessment shall be included in the safety Manual.	Complied. Risk assessment included in the safety manual.
xix)	All the commitments made to the public during public hearing/public consultation meeting held on 16th May, 2012 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	Complied. All the commitments made to the public during public hearing/public consultation meeting held on 16th May, 2012 are satisfactorily implemented.
xx)	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise	Issues of community are adequately addressed by allotting appropriate

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	Social Commitment based on earlier Public Hearing Issues, locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.	budget through CSR activities. The CSR investment made during the last few years area as below: FY 2017-18 – Rs. 14.95 Lakhs FY 2018-19 – Rs. 19.03 Lakhs FY 2019-20 – Rs. 22.90 Lakhs FY 2020-21 – Rs. 28.70 Lakhs FY 2021-22 – Rs. 56.40 Lakhs
xxi)	The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to bring into focus any infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.	Complied. Company policy towards Corporate Environment Responsibility is enclosed as Annexure-5 .
xxii)	Provision shall be made for the housing for the construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, creche 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.	Complied. All labours for the project activity comes from nearby areas and none reside inside the premises.
	General Conditions	
i)	The project authorities shall strictly adhere to the stipulations made by the Gujarat Pollution Control Board.	Complied.
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	Complied.

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	additional environmental protection measures required, if any.	
iii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied. The locations of ambient air quality monitoring stations are decided, one stations is installed in the upwind and downwind direction at location on maximum GLC anticipated.
iv)	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, 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).	Complied. Noise monitoring is done regularly to check the Nosie levels.
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.	Complied. Roof top water from non-process area is harvested for ground water recharge. Additionally, a 3000 KL Rain Water runoff Reservoir is constructed for harvesting and utilization as substitute to ground water since 2019. Rainwater Harvested and utilized is, a) 2019- 3000 KL b) 2020- 6200 KL c) 2021- 3200 KL d) 2022- 4000 KL
vi)	Usage of Personnel Protection Equipment (PPEs) by all employees/ workers shall be ensured.	Being Complied.
vii)	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA-EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied.

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viii)	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.	CSR activities being undertaken regularly, year-wise investment towards CSR is as below. FY 2017-18 – Rs. 14.95 Lakhs FY 2018-19 – Rs. 19.03 Lakhs FY 2019-20 – Rs. 22.90 Lakhs FY 2020-21 – Rs. 28.70 Lakhs FY 2021-22 – Rs. 56.40 Lakhs
ix)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Eco-developmental measures including Segregation of Municipal Solid Waste at Source, composting of domestic food waste, Education on Single Use Plastic Ban are undertaken in the community. Additionally, about 15,000 tree saplings have been distributed under community plantation program during 2020, 2021, 2022 in the surrounding villages through community engagement under CER objectives.
x)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions	Environmental Management Cell is provided. For requirement of full fledge environment lab, it is hired as NABL approved Lab.
xi)	As proposed, the company shall earmark sufficient funds towards capital cost and 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.	Funds as required for Capital and Recurring expenditure are provided and are not diverted for any other purpose.
xii)	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.	Copy of Clearance letter provided to regulatory offices from time to time.

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xiii)	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 Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Six monthly reports on the status of compliance is submitted regularly.
xiv)	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied.
xv)	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 www.moef.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied. The information of accord of Environmental Clearance was given through newspaper advertisement. The copies are available with SPCB and MoEF&CC.
xvi)	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.	Shall be Complied.
para 8	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted

Sr. No.	Condition Details	Status of Compliance
para 9	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted
para 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.	Noted

Encl-1



KADAM ENVIRONMENTAL CONSULTANTS
 An ISO 9001-2015 Certified Company (MoEF Approved)

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 Phone : (O) 0265 - 6131000, 6131001



TC-7099

ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – AMBIENT

REPORT NO.: SEP22/143/09 (ULR- TC709922000019041F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Jubilant Ingrevia Limited Block No 133, Village: Samlaya, Tal: Savli, – 391520, Dist: Vadodara.				
2.	Sample ID: 2252808246 – 143SE22AQ02	3.	Client Representative: Mr. Amrish Sharma		
4.	Sampling Date: 23.09.2022	5.	Sampling Location: Nr Material Gate		
6.	Sampling time: 13:30 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 27.09.2022	9.	Analysis Completed on: 27.09.2022		
10.	Reporting Date: 10.10.2022	11.	Discipline : Chemical		
12.	Sample Collected By: Mr. Nikhil	13.	Group : Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humidity: Moderate	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Down wind	Wind blowing from: SW	Station category: Industrial	
18.	Sample Received Date : 27.09.2022				

TEST RESULTS

S. No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	PM ₁₀	µg /m ³	51	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	22	60	Guidelines By CPCB(Vol-1)
3.	Sulphur Dioxide (SO ₂)	µg /m ³	6.60	80	IS 5182 (Part 2) : 2001
4.	Oxides of Nitrogen (NO _x)	µg /m ³	12.87	80	IS 5182 (Part 6) : 2006
5.	Ammonia (NH ₃)	µg /m ³	N.D.	N.A	Modified APHA Method

Remark : N.D. - Not Detected.

Authorized By - *[Signature]*

Name : Sapana Amin

Designation : Lab Incharge

- NOTE: 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT		
DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



TC-7099

KADAM ENVIRONMENTAL CONSULTANTS

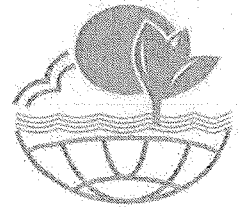
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ENVIRONMENTAL MONITORING REPORT



LABORATORY TEST REPORT - STACK

REPORT NO.: SEP22/143/06 (ULR- TC709922000019039F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Jubilant Ingrevia Limited Block No 133, Village: Samlaya, Tal: Savli, - 391520, Dist: Vadodara.		
2.	Sample ID: 2252808246 - 143SE22SE06	3.	Client Representative: Mr. Amrish Sharma
4.	Sample Date: 22.09.2022	5.	Sampling Location: Boiler
6.	Sampling Time: 12:10 hr	7.	Sampling Duration: 56 Mins
8.	Analysis commenced on: 27.09.2022	9.	Analysis Completed on: 27.09.2022
10.	Reporting Date: 10.10.2022	11.	Discipline : Chemical
12.	Sample Collected By: Mr. Nikhil	13.	Group : Atmospheric Pollution
14.	Sampling Procedure: IS Method	15.	Product: Stack Emission
16.	Description of Sample:	Sampling Bottles: Sealed	Thimble: Packed✓ Bladder: Clamped
17.	Sample Received Date : 27.09.2022		

STACK DETAILS

S.No.	Parameters	Unit (SI)	Description
1.	Source		: Boiler
2.	Height	m	: 30
3.	Diameter	mm	: -
4.	Temperature	°c	: 100
5.	Velocity	m/s	: 10.56
6.	Type of fuel used		: Agro Waste
7.	Quantity of fuel used	MT/month	: 21

TEST RESULTS

S. No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	Particulate Matter	mg/Nm ³	: 59	150	IS 11255 (Part 1) : 1985
2.	Sulphur Dioxide(SO ₂)	ppm	: 11.38	100	IS 11255 (Part 2) : 1985
3.	Oxides of Nitrogen (NOx)	ppm	: 4.63	50	IS 11255 (Part 7) : 2005

Remark :

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

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2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - STACK

DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021

Enclosure-3: Ground Water Extraction details

Ground Water Extraction	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Monthly Total (KL)	7834	9449	7077	6631	8422	7644
Daily Average (KLD)	261.1	315.0	235.9	221.0	280.7	254.8
Permission from CGWA (KLD)	355.2	355.2	355.2	355.2	355.2	355.2
Permission (KL/Month)	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0



**JUBILANT
INGREVIA**

ENVIRONMENT, OCCUPATIONAL HEALTH AND SAFETY POLICY

Jubilant Ingrevia Limited and its subsidiaries are committed to proactively maintain and achieve excellence in Environment, Occupational Health and Safety (EHS) Practices.

We shall achieve this by:

- Complying and going beyond the all applicable country specific statutory, legal and other requirements in respect of 'Environment, Occupational Health & Safety'.
- Initiating efforts and building the EHS Culture where everyone is accountable to prevent or minimize the impact on Environment, Occupational health and Safety to all personnel working directly or indirectly with us or community around by establishing Environmental, Process Safety and Work place safety Systems
- Optimizing resource utilization for protection of environment including pollution prevention, energy & water conservation and reduction of wastes & emissions.
- Providing safe and healthy working conditions for the prevention of work related injuries and ill health by eliminating hazards and reduction of Risks by involving and empowering all personnel.
- Establishing adequate processes and controls in consultation and participation for assigning the responsibilities of employees, Workers, contractors, subcontractors, transporters, and other agencies entering the premises towards EHS management systems.
- Establishing, measuring and Continually Improving EHS performance by setting objectives, targets and key performance indicators at individual level and sharing companywide performance as a part of sustainability report.
- Ensuring regular audits, hazard and risk assessment of the processes and services by internal and external experts to continually enhance EHS performance.
- Integrating EHS aspects in all decisions dealing with purchase of equipment, machinery, material as well as in the process of selection and placement of personnel and service providers to promote inherent safe design.
- Making continual efforts to create a pro-active and learning organization to enhance EHS awareness and competence among employees and EHS performance as a part of their career advancement. Engaging business associates and community through effective stakeholder engagement, communication and training.

The Company shall design, develop, manufacture, handle, store and distribute its products in a manner that minimizes the risk to human beings and environment to go beyond compliance in all aspects of EHS.

Jubilant Ingrevia Limited and each of its subsidiaries shall sign up to this policy or develop an equivalent Policy that shall be implemented throughout the company. This policy shall be reviewed periodically for its continuing suitability and updated as necessary.


Hari S Bhartia
Co-Chairman