



JVL/MoEFCC/EHS/06-2024/01

June 06, 2024

To,  
Deputy Director General of Forests (C)  
Integrated Regional Office, Gandhinagar,  
Ministry of Environment, Forest and Climate Change,  
A-Wing-407 8- 409, Aranya Bhawan, Near CH-3 Circle,  
Sector-1 0A, Gandhinagar - 382010

Sub.: Submission of compliance for the period of October'23 to March'24 of  
Environmental Clearance granted vide letter J-11011/241/2011-IA II (I) DTD.  
11th Aug 2014 Expansion of existing and new synthetic Organic Chemicals  
Manufacturing Facility at Block 133 (P), Village Samlaya, Taluka Savli,  
District Vadodara, Gujarat, India by JUBILANT INGREVIA LIMITED.

Ref.: 1. EC File no. J-11011/241/2011-IA II (I) DTD. 11th Aug 2014  
2. EC Amendment vide F. No. J-11011/241/2011-IAII(I) dated 24<sup>th</sup> March, 2023

Dear Sir,

In compliance of the standard guidelines of Ministry of Environment, Forest and Climate change, we are submitting herewith compliance report of EC granted to us vide letter no. letter J-11011/241/2011-IA II (I) DTD. 11th Aug 2014 Expansion of existing and new synthetic Organic Chemicals for expansion of manufacturing plants for synthetic organic chemicals as **Annexure -1**.

4. We assure you of our continued commitment for environment protection and compliances.

Thanking you,  
Yours faithfully,  
For Jubilant Ingrevia Limited

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A Jubilant Bhartia Company

OUR VALUES



**Jubilant Ingrevia Limited**

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**Authorized Signatory**

**Gurish Khosla**

(Senior Director & Unit Head – Savli)

**Enclosures:**

**Annexure 1:** Compliance of conditions of Environmental Clearance

CC: 1) The Member Secretary, GPCB, Gandhinagar,  
2) GPCB Regional officer, Vadodara,

***Disclosure:** All information provided/submitted herewith is commercial confidential data/information, trade secrets and/or intellectual property(s) etc. of the Company or its group Companies. The Company humbly requests you to treat the data/information submitted herewith as "Strictly Confidential", and not to provide/disclose/share any data/information to any third person/party as the same is exempted from disclosure under Section 8 of the Right to Information Act, 2005 ("RTI Act"). In the event of any person makes any application to you seeking any information about the Company, the Company requests you to please issue a prior written notice to the Company along with reasonable opportunity of representation to the Company as envisaged under Section 11(1) of the RTI Act. No disclosure of any data/information can be made to any third person/party without Company's consent under the provisions of the RTI Act.*

**Compliance of Environmental Clearance (For period Oct'23 to Mar'24)**

F. No. J-11011/241//2011-IAII(I); dated 11.08.2014

<b>Sr. No.</b>	<b>Condition Details</b>	<b>Status of Compliance</b>
para 2	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 3 <sup>rd</sup> 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.	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)
		<b>EC Products:</b>				
	1	Ethoxylate of Nonyl Phenol, Fatty Acid Fatty Alcohol, DEG & Castor Oil, Choline Chloride & derivatives (Aqueous Choline Chloride), Acidifier Liquid, Chloromequat 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		Chloromequat 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, Liquid Formulation and tonics, Encapsulated products.	Feed Emulsifier Ethoxylates of Castor oil	0	400		
	13		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 Mixture)	150	150	300	
	8	Oil Field Chemicals	Oil Field Chemicals	120	0	120	
	9	Silica 50%	Silica 50%	0	500	500	
		Sub-total		1902	5968	7870	

Sr. No.	Condition Details						Status of Compliance
		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"> <li>• Bag Filter along with 30 Mtr ht stack provided.</li> <li>• 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.</li> <li>• ETP Sludge and process waste being sent to TSDF.</li> <li>• Waste Oil and used batteries being sold to authorised recyclers/re-processors.</li> </ul>
Para 5	Public hearing/consultation meeting conducted by Gujarat Pollution Control Board on 16 <sup>th</sup> May 2012.						Noted
Para 6	The proposal was considered by Expert Appraisal Committee (Industry) in its 26 <sup>th</sup> and 6 <sup>th</sup> meeting held during 17 <sup>th</sup> – 18 <sup>th</sup> August, 2011 and during 5 <sup>th</sup> March, 2013 – 7 <sup>th</sup> March 2013 respectively. The Committee recommended the proposal for environmental clearance.						Noted
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 <sup>th</sup> September 2006, subject to the compliance of the following Specific and General Condition:						
A.	<b>Specific Conditions</b>						

Sr. No.	Condition Details	Status of Compliance
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 <b>Enclosure-1</b>
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 <b>Enclosure -1</b>  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 emissions shall conform to the limits stipulated by the GPCB.	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.
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 11 mtr is provided for gaseous emission through DG set, regular gaseous emission monitoring done by NABET approved lab. Stack Monitoring report attached as <b>Enclosure -2</b>

<b>Sr. No.</b>	<b>Condition Details</b>	<b>Status of Compliance</b>
vi)	Total fresh water requirement from ground water source shall not exceed 355.2m <sup>3</sup> /day and prior permission shall be obtained from the CGWA.	This condition is amendmended vide F. No. J-11011/241//2011-IAII(I) dated 24.03.2023. Kindly refer page no. 13 and para 2 of this document.
vii)	Industrial effluent shall not exceed 80m <sup>3</sup> /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.	This condition is amendmended vide F. No. J-11011/241//2011-IAII(I) dated 24.03.2023. Kindly refer page no. 13 and para 2 of this document.
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 d) Solvents shall be stored in a separate space specified with all safety measures e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. g) all the solvent storage tanks shall be connected with vent condenser with chilled brine calculation.	Complied
xi)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame	Complied. Hazardous chemical stored in Tanks with Flame arrestor followed by



Sr. No.	Condition Details	Status of Compliance
	arresters shall be provided on tank farm. Solvent transfer shall be by pumps.	breather valves. And it is transferred through pumps only.
xii)	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.	Complied. Authorization for Hazardous waste disposal at TSDF site is obtained as CCA.
xiii)	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.	Complied. All Transportation of Hazardous Chemicals are as per the Motor Vehicle Act (MVA), 1989.
xiv)	The company shall undertake following waste minimization measures a) Metering and control of quantities of active ingredients to minimize waste. b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c) Use of automated filling to minimize spillage. d) Use of Close Feed system into batch reactors. e) Venting equipment through vapor recovery system. f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.	Complied.
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	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.

Sr. No.	Condition Details	Status of Compliance
	done on a regular basis and records maintained as per the Factories Act.	
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.	<p>Being Complied.</p> <p>Green belt development is being simultaneously implemented along with the expansion projects implementation.</p> <p>Currently, 5817 Nos of fully grown trees are present as surveyed in Oct 2023.</p> <p>Another 9,300 Neem trees are planted in July 2021.</p> <p>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.</p>
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.	<p>Complied.</p> <p>Risk assessment included in the safety manual.</p>
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.	<p>Complied.</p> <p>All the commitments made to the public during public hearing/public consultation meeting held on 16th May, 2012 are satisfactorily implemented.</p>
xx)	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise 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.	<p>Issues of community are adequately addressed by allotting appropriate budget through CSR activities. The CSR investment made during the last few years area as below:</p> <p>FY 2017-18 – Rs. 14.95 Lakhs</p> <p>FY 2018-19 – Rs. 19.03 Lakhs</p> <p>FY 2019-20 – Rs. 22.90 Lakhs</p> <p>FY 2020-21 – Rs. 28.70 Lakhs</p> <p>FY 2021-22 – Rs. 56.40 Lakhs</p> <p>FY 2022-23 – Rs. 97.7 Lakhs</p> <p>FY 2023-24 – Rs. 92.6 Lakhs</p>

Sr. No.	Condition Details	Status of Compliance
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 being 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 (Hi) 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 <b>Enclosure - 3</b> .
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.
	<b>General Conditions</b>	
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 additional environmental protection measures required, if any.	Complied.
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	Complied. The locations of ambient air quality monitoring stations are decided, one stations is installed in the upwind and

Sr. No.	Condition Details	Status of Compliance
	and downwind direction as well as where maximum ground level concentrations are anticipated.	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 Noise 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 e) 2023 – 9600 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.
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 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

Sr. No.	Condition Details	Status of Compliance
		FY 2022-23 – Rs. 97.7 Lakhs FY 2023-24 – Rs. 92.6 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 18,000 tree saplings have been distributed under community plantation program during 2020, 2021, 2022, 2023 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 fledged 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.
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	Six monthly reports on the status of compliance is submitted regularly.

Sr. No.	Condition Details	Status of Compliance
	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.	
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
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

Sr. No.	Condition Details	Status of Compliance
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

**Compliance of Environmental Clearance (For period Oct'23 to Mar'24)**

F. No. J-11011/241//2011-IAII(I); dated 24.03.2023

Sr. No.	Condition Details					Status of Compliance
para a 2	The project proponent has requested for amendment in the EC with the details as under:					
i)	Correction and Modifications in EC:					Complied  Industrial effluent is within limit, details enclosed in <b>Enclosure - 4</b> .  Effluent streams are treated in an in-house ETP and treated effluent being sent to CETP after confirming the norms.  Fuel consumption is within limits as per the details in <b>Enclosure – 5</b>
	S. No.	Para of EC issued by MoEF&C	Details as per the EC	To be revised/ read as	Justification/ reasons	
	1	Para 4	.....Industrial effluent generation will be increased from <b>59.9 m³/day to 80 m³/day</b> after expansion.....	.....Industrial effluent generation & discharge will be increased from <b>118.4 m³/day to 186.5 m³/day</b> after expansion.....	Waste water generated from Raw Ground water treatment through Reverse Osmosis, as RO reject, was inadvertently missed to be mentioned in effluent generation details of EIA. Further, additional options for disposal of effluent, other than CETP, requested.	

Sr. No.	Condition Details						Status of Compliance				
	2	Not Mentioned	Table 3-40: Fuel Consumption details of EIA Report. SawDust/Agrowaste fuel total allowed is <b>32.984</b> TPD	Fuel consumption details: Saw Dust – <b>65.968 TPD/ AgroWaste-32.984</b> TPD. Variation in quantityof fuel permitted proportionate to calorific value of the Biomass Fuel	Flexibility to use variety of seasonal Biomass fuel is requested without change in steam generation and utility						
ii)	<b>Amendment in EIA Report and Inclusion in EC Letter</b>										
	a) Table 3-34: Wastewater Generation Details (Proposed Amendment)						Complied Industrial effluent is within limits, details enclosed in <b>Enclosure - 4</b> . Effluent streams are treated in an in-house ETP and treated effluent being sent to CETP after confirming the norms.				
	S. No.	Category	JLSL (JVL)			JIL (JACPL)			Total		
			Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
	1	Domestic	8	3	11	3	0	3	11	3	14
	2	Industrial									
	2.1	Manufacturing Process									
	2.1.1	Process	6.4	3.4	9.8	0	0	0	118.4	68.1*	186.5*
	2.1.2	Equipment Washing	6.2	0	6.2	26.2	0	26.2			
	2.2	Boiler	2.1	2.1	4.2	0	0	0			
	2.3	Cooling	10	6.6	16.6	0	0	0			
	2.4	Floor Washing	1	2	3	0	0	0			
	2.5	Other (Water Treatment Plant regeneration)	8	6	14	0	0	0			
	3	Gardening	0	0	0	0	0	0			
	4	Fire Fighting	0	0	0	0	0	0			
	5	Ground water RO Reject	42.6	48.0	90.6	15.9	0	15.9			



Sr. No.	Condition Details											Status of Compliance
	6	Total Industrial Effluent	76.3	68.1	144.4	42.1	0.0	42.1	118.4	68.1*	186.5*	Upto 10 KLD Organic Aqueous effluent disposal through GPCB approved 3 <sup>rd</sup> party MEE, Incinerator, Cement Co-Processing, Pre-processing for Co-processing.
	7	Total Industrial and Domestic	84.3	71.1	155.4	45.1	0.0	45.1	129.4	71.1*	200.5*	
	b) Table 3-40: Fuel Consumption Details:(Amendment in the Fuel Consumption)											Fuel consumption is within limits as per the details in Enclosure – 5
	Sr. No.	Equipment	Type of Fuel	Existing	Proposed	Total						
	1	Super Therm boiler (Existing- 2.0Ton/Hr); Ltr/Hr	Furnace Oil	104	0	104						
	2	Agro Waste Steam Boiler (2.0 Ton/Hr); MT/day	Saw Dust/Agro waste	12 / 6	0	22 / 11						
	3	Hot Air Generator (6 Lakhs Kcal/Hr); MT/day	Saw Dust/Agro waste	10 / 5	0							
	4	Agro Waste Steam Boiler (Additional- 4.0 Ton/Hr); MT/day	Saw Dust/Agro waste	0	24/12	24/12						
	5	Hot Air Generator (Additional-12.0 Lacs Kcal/Hr); Kg/Hr	Saw Dust/Agro waste	0	832 / 416	832 / 416						
	6	HSD Burner (Dry Plant); Ltr/Hr	HSD	60	60	120						
	7	D. G. Set (860 KVA)- (Existing); Ltr/Hr	HSD	1000	0	1000						
	8	D. G. Set (2000 KVA)- (Additional); Ltr/Hr	HSD	0	2000	2000						
	Note:											
	a) Calorific Value considered: Saw Dust 2000 K Cal/Kg; Agro Waste 4000 K Cal/Kg.											
b) Industry may use other available sources of cleaner Liquid Fuel as a substitute for Furnace Oil for generating approved quantity of Steam.												
c) Industry may use other available sources of Solid biomass/ Renewable fuel as a substitute for Saw Dust / Agro Waste for generating approved quantities of Steam. The fuel quantity may												

Sr. No.	Condition Details	Status of Compliance
	<i>therefore be allowed to vary as per the Calorific value of the fuel substitute.</i>	
Para 3	<p>The proposal was appraised by the Expert Appraisal Committee (Industry-3) in its 46<sup>th</sup> meeting held on 30<sup>th</sup> January – 1<sup>st</sup> February, 2023. The EAC constituted under the provisions of the EIA Notification, 2006 and comprising of expert members/domain experts in various fields, examined the proposal submitted by the PP in desired form.</p> <p>The EAC constituted under the provisions of the EIA Notification, 2006 and comprising of expert members/domain experts in various fields, examined the proposal submitted by the project proponent in desired form.</p> <p>The EAC inter-alia, deliberated on the inadvertent errors in the EIA/EMP report, wastewater, Fuel, Greenbelt development plan, Previous EC granted and certified compliance report, and further, advised the PP to submit the following:</p> <ol style="list-style-type: none"> <li>Undertaking for seeking condonation of the inadvertent errors in the EIA/EMP report.</li> <li>Undertaking for seeking amendment to the wastewater details and fuel details.</li> <li>Undertaking for the Greenbelt development plan.</li> <li>Undertaking to comply to the Amendment to EC granted.</li> <li>Self-certified compliance report.</li> </ol> <p>The PP submitted the above information/documents and the EAC found it to be satisfactory.</p>	
Para 4	After detailed deliberations, the EAC <b>recommended</b> the amendment in EC as detailed in above-mentioned table subject to the following additional conditions:	
i)	The Project Proponent shall ensure reduction in total fresh water consumption from earlier approved 355.2 KLD to 299 KLD through implementation of water conservation measures with the commissioning of the expanded facility.	The water consumption is under the and consumption data is enclosed as <b>Enclosure – 6</b> .
ii)	Domestic wastewater shall be treated in STP and utilised for Greenbelt and landscaping.	Complied

Sr. No.	Condition Details	Status of Compliance
iii)	The PP shall use a cleaner fuel (solid biomass/renewable fuel) as a substitute for furnace oil for generating approved quantity of steam.	Noted
iv)	The Project Proponent shall ensure that the 33% green belt stipulated shall be completed simultaneously during the construction of the project.	Noted
v)	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Noted
vi)	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The Project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.	Noted
Par a 5	Based on the proposal submitted by the PP and recommendations of the EAC (Industry-3 Sector), the Ministry of Environment, Forest and Climate Change hereby accords the above amendment in the EC dated 11.08.2014 (read with EC transfer dated 18.05.2021) subject to the above said additional conditions with all other terms and conditions stipulated in the EC remaining unchanged.	Noted



TC-7099



# KADAM ENVIRONMENTAL CONSULTANTS

An ISO 9001-2015 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.  
Phone : (O) 0265 - 6131000, 6131001



## ENVIRONMENTAL MONITORING REPORT

### LABORATORY TEST REPORT - AMBIENT

REPORT NO.: MAR24/099/08 (ULR- TC709924000006109F)

#### SAMPLE DETAILS

1.	Name & Address of Client: M/s. Jubilant Ingrevia Limited Block No 133, Village: Samlaya, Tal: Savli, - 391520, Dist: Vadodara.	3.	Client Representative: Mr.Utkarsh Sharma
2.	Sample ID: 2252808246 - 099MR24AQ01	5.	Sampling Location: Nr.ETP
4.	Sampling Date: 11.03.2024	7.	Sampling Duration: 24 Hrs
6.	Sampling time: 14:50 hr	9.	Analysis Completed on: 14.03.2024
8.	Analysis commenced on: 14.03.2024	11.	Discipline : Chemical
10.	Reporting Date: 27.03.2024	13.	Group : Atmospheric Pollution
12.	Sample Collected By: Mr.Nikhil Patil	15.	Product: Ambient Air
14.	Sampling Procedure: IS Method		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed✓ Bladder: Clamped
17.	Environment Condition:	Temp: Normal Humidity: Low	Wind speed: Smooth Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Core area	Wind blowing from: - Station category: Industrial
18.	Sample Received Date : 14.03.2024		

#### TEST RESULTS

S. No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	PM <sub>10</sub>	µg /m <sup>3</sup>	61	100	IS 5182 (Part 23 ) : 2006
2.	PM <sub>2.5</sub>	µg /m <sup>3</sup>	19	60	Guidelines By CPCB(Vol-1)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg /m <sup>3</sup>	9.40	80	IS 5182 (Part 2 ) : 2001
4.	Oxides of Nitrogen (NO <sub>x</sub> )	µg /m <sup>3</sup>	16.70	80	IS 5182 (Part 6 ) : 2006
5.	Ammonia (NH <sub>3</sub> )	µg /m <sup>3</sup>	N.D.	N.A	Modified APHA Method
Remark : N.D. - Not Detected.					
Authorized By -					
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

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**ENVIRONMENTAL MONITORING REPORT****LABORATORY TEST REPORT – AMBIENT**

REPORT NO.: MAR24/099/09 (ULR- TC70992400006110F)

**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 – 099MR24AQ02	3.	Client Representative: Mr.Utkarsh Sharma	
4.	Sampling Date: 12.03.2024	5.	Sampling Location: Near Material Gate	
6.	Sampling time: 15:15 hr	7.	Sampling Duration: 24 Hrs	
8.	Analysis commenced on: 14.03.2024	9.	Analysis Completed on: 14.03.2024	
10.	Reporting Date: 27.03.2024	11.	Discipline : Chemical	
12.	Sample Collected By: Mr.Nikhil Patil	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: Medium	Wind speed: Smooth
	Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Cloud cover: Clear sky
18.	Sample Received Date : 14.03.2024			
			Station category: Industrial	

**TEST RESULTS**

S. No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	PM <sub>10</sub>	µg /m <sup>3</sup>	: 65	100	IS 5182 (Part 23 ) : 2006
2.	PM <sub>2.5</sub>	µg /m <sup>3</sup>	: 21	60	Guidelines By CPCB(Vol-1)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg /m <sup>3</sup>	: 8.80	80	IS 5182 (Part 2 ) : 2001
4.	Oxides of Nitrogen (NO <sub>x</sub> )	µg /m <sup>3</sup>	: 14.64	80	IS 5182 (Part 6 ) : 2006
5.	Ammonia (NH <sub>3</sub> )	µg /m <sup>3</sup>	: N.D.	N.A	Modified APHA Method

Remark : N.D. - Not Detected

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
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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 - 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





## ENVIRONMENTAL MONITORING REPORT

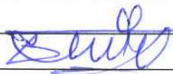
### LABORATORY TEST REPORT - AMBIENT

REPORT NO.: MAR24/099/10

#### 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 – 099MR24AQ01		3.	Client Representative: Mr.Utkarsh Sharma	
4.	Sampling Date: 11.03.2024		5.	Sampling Location: Nr.ETP	
6.	Sampling time: 14:50 hr		7.	Sampling Duration: 24 Hrs	
8.	Analysis commenced on: 14.03.2024		9.	Analysis Completed on: 14.03.2024	
10.	Reporting Date: 27.03.2024		11.	Discipline : Chemical	
12.	Sample Collected By: Mr.Nikhil Patil		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.	<b>Environment Condition:</b>	Temp: Normal	Humidity: Low	Wind speed: Smooth	Cloud cover: Clear sky
		Rain: No Rain	Wind Direction: Core area	Wind blowing from: -	Station category: Industrial
18.	Sample Received Date : 14.03.2024				

#### TEST RESULTS

S. No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	HCL	µg/m <sup>3</sup>	: 10.71	N.A	APHA 23 <sup>rd</sup> Edition: 4500 - Cl C
Remark :					
Authorized By - 					
Name : Sapana Amin			Designation : Lab Incharge		

- NOTE:
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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 - 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

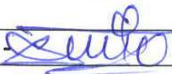
**ENVIRONMENTAL MONITORING REPORT****LABORATORY TEST REPORT - AMBIENT**

REPORT NO.: MAR24/099/11

**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 - 099MR24AQ02	3.	Client Representative: Mr.Utkarsh Sharma	
4.	Sampling Date: 12.03.2024	5.	Sampling Location: Near Material Gate	
6.	Sampling time: 15:15 hr	7.	Sampling Duration: 24 Hrs	
8.	Analysis commenced on: 14.03.2024	9.	Analysis Completed on: 14.03.2024	
10.	Reporting Date: 27.03.2024	11.	Discipline : Chemical	
12.	Sample Collected By: Mr.Nikhil Patil	13.	Group : Atmospheric Pollution	
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air	
16.	Description of Sample:	Sampling Bottles: Sealed <input checked="" type="checkbox"/>	Filter Paper: Packed <input checked="" type="checkbox"/>	Bladder: Clamped
17.	<b>Environment Condition:</b>	Temp: Normal	Humidity: Medium	Wind speed: Smooth
	Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Cloud cover: Clear sky
18.	Sample Received Date : 14.03.2024			
	Station category: Industrial			

**TEST RESULTS**

S. No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	HCL	µg /m <sup>3</sup>	: 16.06	N.A	APHA 23 <sup>rd</sup> Edition: 4500 - Cl C
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 - 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



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## ENVIRONMENTAL MONITORING REPORT

### LABORATORY TEST REPORT - STACK

REPORT NO.: MAR24/099/01 (ULR- TC709924000006104F)

#### 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 – 099MR24SE01	3.	Client Representative: Mr.Utkarsh Sharma
4.	Sample Date: 13.03.2024	5.	Sampling Location: D.G.Set (1010 KVA)
6.	Sampling Time: 15:30 hr	7.	Sampling Duration: 20 Mins
8.	Analysis commenced on: 14.03.2024	9.	Analysis Completed on: 14.03.2024
10.	Reporting Date: 27.03.2024	11.	Discipline : Chemical
12.	Sample Collected By: Mr.Nikhil Patil	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 : 14.03.2024		

#### STACK DETAILS

S.No.	Parameters	Unit (SI)	Description
1.	Source		: D.G.Set (1010 KVA)
2.	Height	m	: 11
3.	Diameter	mm	: -
4.	Temperature	°c	: 133
5.	Velocity	m/s	: 8.02
6.	Type of fuel used		: HSD
7.	Quantity of fuel used	lit/hr	: 3000

#### TEST RESULTS

S. No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	Particulate Matter	mg/Nm <sup>3</sup>	: 65	150	IS 11255 (Part 1) : 1985
2.	Sulphur Dioxide(SO <sub>2</sub> )	ppm	: 27.10	100	IS 11255 (Part 2) : 1985
3.	Oxides of Nitrogen (NOx)	ppm	: 7.43	50	IS 11255 (Part 7) : 2005

Remark :

Authorized By -

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 - 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





## 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**

<b>Enclosure - 4 : Industrial Effluent</b>						
Disposal to CETP	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
Monthly Total (KL)	1862.0	1724.5	1804.0	1712.0	1558.0	1730.5
Daily Average (KLD)	60.1	57.5	58.2	55.2	55.6	55.8
Permission (KL/month)	1856.9	1797.0	1856.9	1856.9	1885.0	2015.0

**Enclosure - 5: Fuel Consumption****Agrowaste Consumption**

	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
Monthly Total (MT)	314.84	299.515	345.55	326.15	272	321
Daily Average (MT per day)	10	10	11	11	9	10
Permission (MT/month)	1022.50	989.52	1022.50	1022.50	956.54	1022.50

**HSD Consumption**

	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
Monthly Total (Litres)	955	1646	1116	1755	2778	3265
Daily Average (Litres per day)	31	55	36	57	96	105
Permission (Kilo Litres/month)	1116	1080	1116	1116	1044	1116

Enclosure - 6 : Groundwater Extraction Details						
Ground Water Extraction	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
Monthly Total (KL)	4837.0	5780.0	5250.0	5315.0	5673.0	3544.0
Daily Average (KLD)	156.0	192.7	169.4	171.5	195.6	114.3