JUBILANT INGREVIA

JVL/EHS/ENV/2022/139 **May 26, 2022**

To,
Shri V.K. Singh, IFS
Additional Principal Chief Conservator of Forests (C)
Ministry of Environment, Forest & Climate Change
Regional office (Central Zone)
Kendriya Bhawan, 5th Floor, Sector 'H'
Aliganj, Lucknow– 226020

Sub.: Submission of compliance for the period of Oct'21 to Mar'22 against the general and specific conditions of Environmental Clearance granted to us vide letter no. 1795/Parya/SEAC/1188/2011/TA(J) DT. 12th Oct. 2013 for expansion of manufacturing plants for synthetic organic chemicals products of Jubilant Ingrevia Ltd. at Gajraula, Amroha U.P.

Ref.: 1. File no. VII / ENV / SCI-UP / 852 / 2014 / 90 DT. 11.09.2015.
2. Ref. no. 1795/Parya/SEAC/1188/2011/TA(J) DT. 12.10.2013.
3. Our request made vide our letter no. JLL/EHS/ENV/2014/22 DT.03.03.2014 and again followed up with our next compliance submission vide our letter no. JLL/EHS/ENV/2015/68 DT 16.10.2015, JLL/EHS/ENV/2016/41 DT.15.04.2016, JLL/EHS/ENV/2016/81 DT.12.10.2016, JLL/EHS/ENV/2017/43 DT. 29.04.2017, JLL/EHS/ENV/2017/97 DT. 22.10.2017, JLL/EHS/ENV/2018/55 DT. 25.06.2018, JLL/EHS/ENV/2018/118 DT. 23.10.2018, JLL/EHS/ENV/2019/80 DT. 08.06.2019, JLL/EHS/ENV/2019/183 DT. 01.12.2019, JLL/EHS/ENV/2020/88 DT. 01.06.2020, JLL/EHS/ENV/2020/261 DT.30.11.2020, JVL/EHS/ENV/2021/137 DT. 24.05.2021 and JVL/EHS/ENV/2021/309 DT. 10.11.2021 for amendment in specific conditions (**Annexure 2**)

A Jubilant Bhartia Company

OUR VALUES

INSPIRE CONFIDENCE · ALWAYS STRETCH · NURTURE INNOVATION · EXCELLENT QUALITY

Jubilant Ingrevia Limited
Bhartiagram, Gajraula
Distt. Amroha - 244 223, UP, India
Tel: +91 5924 252351, 252353-60
www.jubilantingrevia.com

Corporate Office:
1-A, Sector 16-A,
Noida-201 301, UP, India
Tel: +91 120 4361000
Fax: +91 120 4234895-96

Regd Office:
Bhartiagram, Gajraula
Distt. Amroha - 244 223
Uttar Pradesh, India
CIN : U24299UP2019PLC122657

Dear Sir,

In compliance of the standard guidelines of Ministry of Environment, Forest and Climate change, we are submitting herewith compliance report of General and specific conditions of EC granted to us vide letter no. 1795/Parya/SEAC/1188/2011/TA(J) DT. 12th Oct 2013 for expansion of manufacturing plants for synthetic organic chemicals as **Annexure -1.**

We would also like to inform you that, we executed the project for capacity expansion vide the CFE granted by your good office during the validity of the CFE, through adoption of improved SOPs, Process Innovations and Digital technologies for debottlenecking of existing facilities resulting in enhanced efficiencies of raw material conversion, Improved raw material quality, reduced equipment outage and thereafter addition of balancing equipment. However, in spite of the investment made, the capacity remained unutilized due to adverse market conditions followed by the COVID pandemic over the last 24 months. However, restrictions imposed by global customers in USA and Europe on China, which is world's largest and cheapest manufacturer of these products, the viability for these products has increased for us and thus opportunity has opened up to cater to the demand of the domestic as well the export market. Further, we have applied for validity extension of EC on online portal of Parivesh and would like to submit that State Expert Appraisal Committee (SEAC) recommended Extension of Environment clearance 1795/PARYA/ SEAC/1188/2011 /TA(J) Dt.12.10.2013 up to 11/10/2023 vide Minutes of 626th SEAC-2 Meeting Dated 17/02/2022 (Attached as **Annexure-3).** The Formal letter from the UPSEIAA is awaited. However, the conditions prior to proposed project as mentioned in compliance of EC are being maintained properly with advancement as suggested by statutory authorities' time to time.

We would also like to draw your kind attention on our requests made to your office through our various correspondence vide our letters as referred above for amendment in stipulated specific conditions (mentioned in our **Annexure -2).** The amendment is still awaited by us.

We once again request you to grant us the required amendment in the EC at the earliest.

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

Thanking you,
Yours faithfully,
For **Jubilant Ingrevia Limited**

Authorized Signatory
Himanshu Kumar Shukla
(Site Head)

Enclosures:
Annexure 1: Compliance of conditions of Environmental Clearance
Annexure 2: Details of amendment sought in Environmental Clearance
Annexure-3: Minutes of 626th SEAC-2 Meeting Dated 17/02/2022

CC: 1) The Member Secretary, UPPCB, Lucknow.
CC: 2) Regional officer, UPPCB, Bijnor

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.*

Annexure 1

Compliance of Conditions of Environmental Clearance Ref. no. 1795 / Parya / SEAC / 1188 /2011/TA(J) DT. 12.10.2013.

S. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
1	National Emissions Standards for Organic Chemicals Manufacturing industry issued by the Ministry vide G.S.R 608(E) DATED 21 July, 2010 and amended time to time shall be followed by the unit.	Being complied. The same shall be maintained.
2	Multi-cyclone followed by bag filter shall be provided to the coal fired boiler to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/UPPCB guidelines.	Coal fired boiler is equipped with 3-field Electro-Static Precipitators on each boiler to ensures the emissions levels well within the limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB guidelines. Recently, ESPs have been upgraded to latest technologies to ensure and maintain the emission from the boiler well within the stipulated norms. Hence, the condition may be suitably amended to include the installation of ESP as an alternative to multi-cyclone with bag filers.
3	Two stage scrubbers with caustic lye media solution shall be provided to process vents to control SO2. The scrubbing media shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels shall go beyond the prescribed standards. Scrubbers vent shall be provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters.	The proposed expansion does not propose any process resulting in release of SO2. All process vents are connected to vent collection system and scrubbed for any odor causing gaseous emissions. The boilers are operating on a mix of Indian and Imported coal that shall maintain the Sulphur content below 1% and stack height as per CPCB guidelines. Hence the SO2 emission from stack always remain within prescribed limits. The online detection system is provided in the stack and connected to UPPCB and CPCB server.

S. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
4	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, VOC and CO should be monitored in ambient air and emissions from the stack 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 the Uttar Pradesh Control Board (UPPCB).	Ambient air quality is monitored monthly for PM10, SOx, NOx, VOC and CO along the plant boundary in consultation with UPPCB. The monitored results are displayed at the main gate of the plant. The results are also submitted to the concerned authorities accordingly. Monitored data are uploaded on company website along with EC compliance report. Latest Ambient Air Quality reports are attached as **Annexure 1.1**
5	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 UPPCB.	In line with the present practices, various control measures for control of Fugitive emission including a combination of construction of closed storage tanks, closed handling and conveying system for chemicals/materials, Vent collection system, vent chillers, vent condensers, double seal pumps, Nitrogen Blanketing, breather valves, dust suppression system, are installed in the facilities. The fugitive emission maintained within the prescribed limits stipulated by UPPCB.
6	For further control of fugitive emissions, following steps shall be followed;	
a	Closed handling system shall be provided for chemicals	The system is implemented in the present facility. All chemicals are transferring in closed loop only.
b	Reflux condenser shall be provided over reactor	Reflux Condenser provided.
c	System of leak detection and repair of pumps/pipeline based on preventive maintenance.	The system is implemented in the facility.
d	The acids shall be taken from storage tanks to reactors through closed pipeline.	The system is implemented in the present facility. Acid is being transferred from storage tanks to reactor through closed pipelines.

S. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
e	Storage tanks shall be vented through trap receiver and condenser operated on chilled water.	The system is implemented.
f	Cathodic protection shall be provided to the underground solvent storage tanks.	Complied. Cathodic protection is provided to underground tanks.
7	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. The gaseous emission from DG sets are well within the stipulated norms for DG sets.
8	Solvent management shall be carried out as follows;	
a	Reactor shall be connected to chilled brine condenser system	Complied. The system is implemented.
b	Reactor and solvent handling pump shall have mechanical seals to prevent leakages.	Complied. The system is implemented.
c	The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.	Complied. The system is implemented.
d	Solvents shall be stored in a separate space specified with all safety measures.	Complied. Dedicated tank farm with safety measures are installed.
e	Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.	Complied
f	Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.	Flameproof equipment as per zone classification is provided throughout the plant.
g	All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	The system is implemented in the present facility.

S. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
9	Total fresh water requirement from ground water source shall not exceed 48.47 m3/day and prior permission shall be obtained from the CGWA/SGWA.	As detailed in the EIA report (Page 1-54 -Figure 2.4 - proposed water balance), We have proposed an increase in water consumption from the present 15224 cum/day to 17787 cum/day, an additional water requirement of 2563 cum/day for the proposed expansion. The stipulated condition is erroneously mentioned as 48.47 cum/day. The same may kindly be amended to 17787 cum/day as submitted in our proposal. We have obtained NOC from UP Ground Water Dept. under The UP Ground Water Act 2019, for our all four units i.e. Chemical unit-1, Chemical unit-2, Distillery Unit and Captive power plant.
10	Trade effluent shall be segregated into high COD/TDS and Low COD/TDS effluent streams. High TDS/COD effluent shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP and then passed through RO system. Condensate and recover water shall be recycled/reused within factory premises. 'Zero' effluent discharge shall be adopted and no effluent will be discharged outside the premises.	Complied with, as proposed in the EIA report (Page 1-54 para 2.5.1) detailed below. A) Formaldehyde expansion - No process effluent generation. Only approx. 2.0 KLD of washings etc. which is being generated and treated in existing CETP having sufficient capacity. Treated effluent is being reused. B) Pyridine & Picoline and derivatives: The generated effluent is stripped through distillation column to remove volatiles followed by MEE's and liquid incinerators. The recovered condensate is reused as Cooling Tower make up after appropriate treatment as required, if any. Thus complete Zero Discharge from Process effluent is being maintained. We have installed ATFD as a new facility to treat effluent generated from Pyridine and Picoline derivatives.
11	Hazardous chemicals shall be stored in tank, tank farms drums, carboys etc. Flame arresters shall be provide on tank firm. Solvent transfer shall be by pump.	Complied.

S. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
12	As proposed, process organic residue and spent carbon should be sent to cement industries. ETP sludge, process inorganic and evaporation salt should be disposed off to the TSDF. The fly ash from boiler should be sold to brick manufacturers/cement industry.	a) We explored the feasibility of incineration of Organic Process Residue and Spent carbon in cement industry. However, presently we are utilizing the organic residue as a support fuel in captive incinerators and therefore saving the equivalent fuel. Also this has been included in our hazardous waste authorization to be used as a support fuel for incinerators b) As proposed during the EIA for EC ETP sludge, process inorganic and evaporation salt are being disposed to our captive secured land fill facility with UPPCB permission. c)The fly ash generated from boiler is being sold for utilization in cement plant and brick manufacturing. We have valid agreement with UltratTech for utilization in Cement manufacturing. The stipulation may kindly be amended suitably to include in house utilization of process organic residue as a support fuel in place of sent to cement industries.
13	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 UPPCB 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 is obtained from UPPCB. Adequate fire-fighting facilities with dedicated fire water storage, fire tender and fire extinguisher is in place.
14	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.

S. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
15	Fly ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash and dust shall be avoided.	Complied. The fly ash is being stored in dedicated Silos of 1300 MT. The generated fly Ash is transferred through closed coveting system. The fly ash is unloaded only in dedicated Fly Ash bulkers to avoid air borne by wind. We have also provided the water sprinkler system around the silo to avoid direct exposure to workers.
16	The company shall undertake following waste minimization measures: -	
a	Metering and control of quantities of active ingredients to minimize waste.	The system is implemented in the facility.
b	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	We will utilize it as per Rule No 9 of Hazardous & Other Waste (Management and Transboundary Movement) Rule 2016.
c	Use of automated filling to minimize spillage.	Automated filling machine are installed wherever feasible.
d	Use of close feed system into batch reactors.	Complied.
e	Venting equipment through vapor recovery system	Complied.
f	Use of high pressure hoses for equipment clearing to reduce waste water generation.	Complied. Hydro jetting is used for cleaning.
17	The unit shall make the arrangement of protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	Complied. Risk assessment done and safety fire-fighting system provided as per recommendation.
18	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied. Pre and periodic medical check-up is done for all employees.
19	Green belt shall be developed in minimum 33% plot area of the project.	Complied. Green belt development is our continuous activity that involves plantation every year.
20	Environmental Corporate Responsibility (ECR) plan along with budgetary provision amounting to 2% of total project cost shall be	Complied Environment Corporate Responsibility (ECR) plan prepared and implemented based on the need assessed

S. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
	submitted (within three month) on need base assessment study in the study area. Income generating measures which can help in upliftment of weaker section of society consistent with the traditional skills of the people identified. The program can include activities such as old age home, rain water harvesting provision in nearby areas, development of fodder farm, fruit bearing orchards, Vocational training etc. In addition, vocational training for individuals shall be imparted so that poor section of society can take up self-employment shall be specified.	through participatory process with the community around the project.
21	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction waste shall be managed so that there is no impact on the surrounding environment.	Complied During the construction phase all the unskilled labor were sourced from local villages, hence provision of housing was not require, however all necessary facilities like mobile toilets, safe drinking water and medical healthcare facilities were provided within the premises. Also the skilled labor had facility to reside within the premises in the housing facility provided by the company

S. No.	GENERAL CONDITIONS	COMPLIANCE STATUS
1	The project authorities shall strictly adhere to the stipulations made by the Uttar Pradesh Pollution Control Board.	Noted.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, U.P. In case of deviations or alterations in the project proposal from those submitted to SEIAA 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.
3	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 location of the Ambient Air Quality Monitoring Station has been decided in consultation with UPPCB and the location is such decided so as to ensure that maximum ground level concentration can be monitored.
4	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, enclosure 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 70dBA (night time).	Complied The noise levels in and around the plant are maintained within the stipulated standards. Noise monitoring is being done in and around the plant area and monitoring report is being submitted to UPPCB on regular basis.
5	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.	Suitable rainwater harvesting facility has been constructed in non-process areas and the harvested rainwater is being recharged to ground. To conserve fresh water requirement, the principle of 3 R's is being followed i.e. Recover, Recycle and Reuse. For this treated sewage is utilized in the horticulture, floor cleaning, car washing etc. and condensate, treated water from RO plants is being utilized in the cooling tower as make-up.
6	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.	Complied. Every employee undergoes EHS training, Periodic health check-up every year with close monitoring of past records of health. Handling of chemicals is one of the part of EHS training.

S. No.	GENERAL CONDITIONS	COMPLIANCE STATUS
7	Usage of Personnel Protection Equipment (PPEs) by all the employees/workers shall be ensured.	Complied. PPEs are mandatory for each employee and worker.
8	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the SEIAA. 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.
9	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.	Complied. We have separate CSR cell taking steps to improve socio-economic conditions in surrounding areas under Jubilant Bhartia Foundation.
10	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied.
11	A separate Environmental Management cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Complied
12	As proposed, the company shall earmark sufficient funds towards capital cost to implement the conditions stipulated by the SEIAA 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.	Complied.
13	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/representations, if any, were received while processing the proposal.	Complied. A copy of the EC letter was submitted to the Panchayat and Zila Parishad office. There were no suggestion and representations from any local NGO's.

S. No.	GENERAL CONDITIONS	COMPLIANCE STATUS
14	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 UP Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Complied. Last report was submitted vide letter no. JVL/EHS/ENV/2021/309 dated 10.11.2021 and the same has been uploaded on company website.
15	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. Last report was submitted vide letter no. JVL/EHS/ENV/2021/141 Dtd. 30.05.2021 and the same has been uploaded on company website.
16	The project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA and copies of the clearance letter are available with the SPCB/Committee. 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 details of the EC granted was published in two newspapers namely Shah Times and Awam-E-HIND on 27.02.2014 A copy of the same has already been submitted.
17	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.	Noted.

Annexure-1.1

Newcon Consultants & Laboratories

An ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018 Certified Laboratory
NABL ISO/IEC 17025 : 2017 (Testing, Cert. No. TC-5526) Accreditated Laboratory
Recognised by MOEFCC

Website : www.newconlab.in

TEST CERTIFICATE

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

TEST REPORT NO : NCL/JILGA/2803/9/260302/9	DATE OF REPORT : 31-03-2022
Name And Address Of Customer	JUBILANT INGREVIA LIMITED BHARTIAGRAM ,GAJRAULA , ,AMROHA,U.P, INDIA

SAMPLING DETAIL

Analysis Start Date	26/03/2022	**Analysis End Date**	31/03/2022
Date Of Sampling	22/03/2022	**Sampling Done By**	NCL
Time Of Sampling	10:00 22/03/2022 **To** 10:00 23/03/2022		
Sampling Location	NEAR AC2O PLANT		
Sampling Protocol	IS:5182(PART-5) AS PER CPCB GUIDELINES		
Sample Flow Rate For SPM(Average)	1.180 mtr³/min	**Sampling Machine Placed At Height (From Ground)**	1.6 mtr
Sample Flow Rate For Gas	0.5 LPM	**Sample Duration**	24- Hrs.
Equipments Used	Respairable Dust Sampler (PM10) + Fine Particulate Sampler (PM 2.5) With Gaseous Attachement,		

PHYSICAL OBSERVATIONS

Ambient Temperature	27°C	**Wind Direction**	West To East
Weather Condition	Clear		

TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Specification/ Limit (As Per CPCB)
1	Particulate Matters (Size Less Than 10µm) (PM_{10})	µg/m³	IS:5182 Part 23	85	For 24 Hrs=100
2	Particulate Matters(Size Less Than 2.5 µm) ($PM_{2.5}$)	µg/m³	Grav.Method	54	For 24 Hrs 60
3	Sulphur Dioxide (SO_2)	µg/m³	IS:5182 (Part 2)	28	For 24 hrs= 80
4	Carbon Monoxide (CO)	mg/m³	IS:5182 (Part 10)	0.52	For 08 Hrs= 02 For 01 Hrs=04
5	Nitrogen Dioxide (NO_2)	µg/m³	IS:5182 (Part 6)	37	For 24 hrs=80
6	Lead (Pb)	µg/m³	IS:5182 PART-22	NIL	For 24 hrs=1.0
7	Ozone (O_3)	µg/m³	UV-Spectrophotometer	38	For 8hrs=100 For 1 hr= 180
8	Ammonia (NH_3)	µg/m³	Indophenol Blue Method	NIL	For 24hrs=400
9	Benzene (C_6H_6)	µg/m³	GC Method	NIL	For Annual =05
10	Benzo(a)Pyrene (BaP)	ng/m³	GC Method	NIL	For Annual=01
11	Arsenic (As)	ng/m³	AAS Method	NIL	For Annual =06
12	Nickel (Ni)	ng/m³	AAS Method	NIL	For Annual =20
13	VOC (As BTEX)	µg/m³	IS 5182(P-11) 2006	NIL	Not Specified

**** End Of Report****

FOR NEWCON CONSULTANTS & LABORATORIES

CHECKED BY

PREPARED BY

AUTHORIZED SIGNATORY

NOTE : 1. The Results reported above pertains to the Tested parameters only. Endorsement of the same is neither inferred nor Implied. 2. All disputes subject to GHAZIABAD JURISDICTION. 3. The Report shall not be reproduced except in full without the permission of MANAGING PARTNER. 4. Our liability is limited to invoiced value only.

Laboratory : A-1/156, Sector-17, (Swadeshi Compound) Kavi Nagar Industrial Area, GHAZIABAD - 201 002 (U.P.)
Phone No.: 0120-2803115 | *Mobile :* 9810430345 | *Website :* www.newconlab.in
E-mail : newconlab@gmail.com, newconlabfinance@gmail.com

Annexure-1.1

Newcon Consultants & Laboratories

An ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018 Certified Laboratory
NABL ISO/IEC 17025 : 2017 (Testing, Cert. No. TC-5526) Accreditated Laboratory
Recognised by MOEFCC

ISO 9001/14001/45001 Reg. No. R151/7361

Website : www.newconlab.in

TEST CERTIFICATE

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

TEST REPORT NO : NCL/JILGA/2803/9/260302/11	DATE OF REPORT : 31-03-2022
Name And Address Of Customer	JUBILANT INGREVIA LIMITED BHARTIAGRAM ,GAJRAULA , ,AMROHA,U.P, INDIA

SAMPLING DETAIL

Analysis Start Date	26/03/2022	**Analysis End Date**	31/03/2022
Date Of Sampling	21/03/2022	**Sampling Done By**	NCL
Time Of Sampling	10:30 21/03/2022 **To** 10:30 22/03/2022		
Sampling Location	NEAR FC III AREA		
Sampling Protocol	IS:5182(PART-5) AS PER CPCB GUIDELINES		
Sample Flow Rate For SPM(Average)	1.20 mtr³/min	**Sampling Machine Placed At Height (From Ground)**	1.6 mtr
Sample Flow Rate For Gas	0.5 LPM	**Sample Duration**	24- Hrs.
Equipments Used	Respairable Dust Sampler (PM10) + Fine Particulate Sampler (PM 2.5) With Gaseous Attachement,		

PHYSICAL OBSERVATIONS

Ambient Temperature	26°C	**Wind Direction**	East To West
Weather Condition	Clear		

TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Specification/ Limit (As Per CPCB)
1	Particulate Matters (Size Less Than 10µm) (PM_{10})	µg/m³	IS:5182 Part 23	88	For 24 Hrs=100
2	Particulate Matters(Size Less Than 2.5 µm) ($PM_{2.5}$)	µg/m³	Grav.Method	43	For 24 Hrs 60
3	Sulphur Dioxide (SO_2)	µg/m³	IS:5182 (Part 2)	31	For 24 hrs= 80
4	Carbon Monoxide (CO)	mg/m³	IS:5182 (Part 10)	0.49	For 08 Hrs= 02 For 01 Hrs=04
5	Nitrogen Dioxide (NO_2)	µg/m³	IS:5182 (Part 6)	39	For 24 hrs=80
6	Lead (Pb)	µg/m³	IS:5182 PART-22	NIL	For 24 hrs=1.0
7	Ozone (O_3)	µg/m³	UV-Spectrophotometer	36	For 8hrs=100 For 1 hr= 180
8	Ammonia (NH_3)	µg/m³	Indophenol Blue Method	NIL	For 24hrs=400
9	Benzene (C_6H_6)	µg/m³	GC Method	NIL	For Annual =05
10	Benzo(a)Pyrene (BaP)	ng/m³	GC Method	NIL	For Annual=01
11	Arsenic (As)	ng/m³	AAS Method	NIL	For Annual =06
12	Nickel (Ni)	ng/m³	AAS Method	NIL	For Annual =20
13	VOC (As BTEX)	µg/m³	IS 5182(P-11) 2006	NIL	Not Specified

**** End Of Report****

FOR NEWCON CONSULTANTS & LABORATORIES

CHECKED BY PREPARED BY AUTHORIZED SIGNATORY

NOTE : 1. The Results reported above pertains to the Tested parameters only. Endorsement of the same is neither inferred nor implied. 2. All disputes subject to **GHAZIABAD JURISDICTION.** 3. The Report shall not be reproduced except in full without the permission of **MANAGING PARTNER.** 4. Our liability is limited to invoiced value only.

Laboratory : A-1/156, Sector-17, (Swadeshi Compound) Kavi Nagar Industrial Area, GHAZIABAD - 201 002 (U.P.)
Phone No.: 0120-2803115 | ***Mobile :*** 9810430345 | ***Website :*** www.newconlab.in
E-mail : newconlab@gmail.com, newconlabfinance@gmail.com

Annexure-2

Details of amendment sought in Environmental Clearance

S. No.	Condition No.	As stipulated in the EC	Response	Request for Amendment
1	**Specific Condition No. 2**	Multi-cyclone followed by bag filter shall be provided to the coal fired boiler to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/UPPCB guidelines.	Coal fired boiler is equipped with 3-field Electro-Static Precipitators on each boiler to ensures the emissions levels well within the limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB guidelines. Recently, ESPs have been upgraded to latest technologies to ensure and maintain the emission from the boiler well within the stipulated norms.	The condition may be suitably amended to include the installation of ESP as an alternative to bag filers.
2	**Specific Condition No. 9**	Total fresh water requirement from ground water source shall not exceed 48.47 m3/day and prior permission shall be obtained from the CGWA/SGWA.	As detailed in the EIA report (Page 1-54 -Figure 2.4 - proposed water balance), We have proposed an increase in water consumption from the present 15224 cum/day to 17787 cum/day, an additional water requirement of 2563 cum/day for the proposed expansion. The stipulated condition is erroneously mentioned as 48.47 cum/day. The same may kindly be amended to 17787 cum/day as submitted in our proposal.	We have obtained NOC from UP Ground Water Dept. under The UP Ground Water Act 2019, for our all four units i.e.: Chemical unit-1, Chemical unit-2, Distillery Unit and Captive power plant.
3	**Specific Condition No. 10**	Trade effluent shall be segregated into high COD/TDS and Low COD/TDS effluent streams. High TDS/COD effluent shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP and then passed through RO system. Condensate and recover water shall be recycled/reused within factory premises. 'Zero' effluent discharge shall	Complied with as proposed in the EIA report (Page 1-54 para 2.5.1) detailed below. A) Formaldehyde expansion - No process effluent generation. Only approx. 2.0 KLD of washings etc. which is being generated and treated in existing CETP having sufficient capacity. Treated effluent is being reused. B) Pyridine & Picoline and derivatives: The generated effluent stripped through distillation column to remove volatiles followed by MEE's and liquid incinerators. The	The condition may be suitably amendment to the EC by installation of ATFD.

Annexure-2

S. No.	Condition No.	As stipulated in the EC	Response	Request for Amendment
		be adopted and no effluent will be discharged outside the premises.	recovered condensate reused in CT make up after appropriate treatment as required, if any. Thus complete Zero Discharge from Process effluent is being maintained. We have installed ATFD as a new facility to treat effluent generated from Pyridine and Picoline derivatives.	
4	**Specific Condition No. 12**	As proposed, process organic residue and spent carbon should be sent to cement industries. ETP sludge, process inorganic and evaporation salt should be disposed off to the TSDF. The fly ash from boiler should be sold to brick manufacturers/cement industry.	a) We explored the feasibility of incineration of Organic Process Residue and Spent carbon in cement industry. However, presently we are utilizing the organic residue as a support fuel in captive incinerators and therefore saving the equivalent fuel. Also this has been included in our hazardous waste authorization to be used as a support fuel for incinerators b) As proposed during the EIA for EC ETP sludge, process inorganic and evaporation salt are being disposed to our captive secured land fill facility with UPPCB permission. c)The fly ash generated from boiler is being sold for utilization in in cement plant and brick manufacturing. We have valid agreement with Shree Cement and UltratTech for utilization in Cement. The stipulation may kindly be amended suitably to include in house utilization of process organic residue as a support fuel in place of sent to cement industries.	The condition may kindly be amended suitably to include in house utilization of process organic residue as a support fuel for process organic residue

Annexure-3

Minutes of 626th SEAC-2 Meeting Dated 17/02/2022

The 626th meeting of SEAC-2 was held in the Directorate of Environment, U.P. through dual-mode (physically/virtually) at 11:00 AM on 17/02/2022. Following members participated in the meeting:

1.	Dr. Harikesh Bahadur Singh,	Chairman, SEAC-2
2.	Dr. Amrit Lal Haldar,	Member, SEAC-2 (through VC)
3.	Dr. Dineshwar Prasad Singh,	Member, SEAC-2 (through VC)
4.	Shri Tanzar Ullah Khan,	Member, SEAC-2
5.	Prof. Jaswant Singh,	Member, SEAC-2
6.	Dr. Shiv Om Singh,	Member, SEAC-2 (through VC)

The Chairman welcomed the members to the 626th SEAC-2 meeting which was conducted via dual-mode (virtually/physically). Nodal Officer, SEAC-2 informed the committee that the agenda has been approved by the Member Secretary, SEAC-2/Director Environment. Nodal Officer, SEAC-2 placed the agenda items along with the available file and documents before the SEAC-2.

1. Amendment in Group Housing at Plot No.- SC-02/D, Sector- 150, Noida, District- Gautam Buddha Nagar, U.P., M/s Samridhi Infra Square Pvt. Ltd. File No. 3271/Proposal No. SIA/UP/MIS/208780/2021

The committee noted that the matter was earlier discussed in 549th SEAC meeting dated 15/07/2021 and directed the project proponent to submit following in information:

1. NOC from Airport Authority of India as per revised proposal.
2. Protection measure against impact of lighting.
3. NOC from competent authority regarding discharge of treated effluent.
4. NOC from Ground Water Authority regarding extraction of ground water.
5. Plan for antismog guns to reduce dust during construction phase.
6. Detailed plantation plan.
7. In the layout plan of the project, location of proposed STP, solid waste (MSW), collection & disposal points and DG sets should be marked.
8. Plan for disposal of solid waste as per MoEF&CC, GoI & CPCB guidelines.
9. Revised water balance diagram.

The project proponent submitted their replies vide letter dated 09/09/2021. The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project proponent along with their consultant M/s Ind Tech House Consult. The project proponent informed that the environmental clearance for the project has already been issued by SEIAA, UP, vide letter no. 76/Praya/SEAC/3271/2015/OSD(T) dated 13/04/2016, for the plot area 40,186.45 m^2, built up area 1,63,902 m^2. Due to revision of building plan (additional 5% Green FAR) the built-up area decreases from 1,63,902 m^2 to 1,56,700.64 m^2 (change 7,201.356 sq m) and revised built-up area of the project is 1,56,700.64 m^2.

Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The environmental clearance is sought for amendment in Group Housing at Plot No. SC-02/D, Sector- 150, Noida, District- Gautam Buddha Nagar, U.P., M/s Samridhi Infra Square Pvt. Ltd.

31	Total Solid Waste Generation	2.52	TPD
32	Organic waste	1.54	TPD
33	Quantity of E-Waste Generation- Kg/Day	30.71	KG/DAY
34	Quantity of Hazardous waste Generation	2.02	LPD
35	Quantity of Sludge Generated from STP	26	KG/DAY
ENERGY			
36	Total Power Requirement	3170	KVA
37	DG set backup	2750	KVA
38	No of DG Sets	4	No.

The project proponent requested to amend the environmental clearance letter dated 13/04/2016 as per above details.

RESOLUTION AGAINST AGENDA NO-01

The committee discussed the matter and found the reply submitted by the project proponent was satisfactory and recommended to amend the Environmental Clearance letter no. 76/Praya/SEAC/3271/2015/OSD(T) dated 13/04/2016 as per above details. The committee also directed the project proponent that all the other contents mentioned in Environmental Clearance letter no. 76/Praya/SEAC/3271/2015/OSD(T) dated 13/04/2016 shall remain the same.

2. Validity extension of manufacturing plants for synthetic organic chemicals products of Jubilant Life Science at Gajraula, U.P., UPSIDC, J.P. Nagar, File No. 1188/Proposal No. SIA/UP/IND2/202818/2021

The committee noted that the matter was earlier discussed in 550th SEAC meeting dated 16/07/2021 and directed the project proponent to submit following in information:

1. Compliance report for the environmental clearance letter no. 1795/PARYA/SEAC /1188 /2011/TA(J) dated 12/10/2013 issued by SEIAA.
2. Compliance of notification issued by MOEF vide GO dated 18/09/2018 in regarding Hastinapur Sanctuary.
3. Copy of consent letter under Water and Air act issued by UPPCB along with compliance report.
4. Compliance status of the direction issued by the Hon'ble Supreme Court in writ no. 418/98 Imtiyaz Ahmad Vs. Govt. of India and others.

The project proponent submitted their replies vide letter dated 22/09/2021. A presentation was made by the project proponent. The project proponent informed the committee that the project applied for extension of validity period of existing environmental clearance issued by SEIAA, UP on 12/10/2013. The project proponent also informed that they have regularly submit the six monthly compliance of the environmental clearance conditions imposed by SEIAA to the Regional Office (Central Zone), MoEF&CC, Lucknow, Member Secretary and Regional Officer, UPPCB. The committee observed that the project proposal relates to validity extension of existing EC not an expansion of existing unit. Hence, the certified compliance report is not necessary document for validity extension of existing EC. The project proponent also submit the copy of consent order dated 06/11/2018 issued by UPPCB along with its compliance.

RESOLUTION AGAINST AGENDA NO-02

The committee discussed the matter and found the reply submitted by the project proponent was satisfactory and recommended to extend the validity of Environmental Clearance letter no. 1795/PARYA/SEAC/1188/2011/TA(J) dated 12/10/2013 for the period of 03 years i.e. 12/10/2020 to 11/10/2023. The committee also directed the project proponent that all the other contents mentioned in Environmental Clearance letter no. 1795/PARYA/SEAC/1188/2011/TA(J) dated 12/10/2013 shall remain the same.