

JLL/EHS/ENV/2020/88

June 01, 2020

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 of 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 Life Sciences Ltd. at Gajraula, Amroha U.P.

Ref: 1-a File no. VII / ENV / SCI-UP / 852 / 2014 / 90 DT. 11.09.2015.
1-b Ref. no. 1795/Parya/SEAC/1188/2011/TA(J) DT. 12.10.2013.

2. 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 for amendment in specific conditions (**Annexure 2**)

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

Page 1 of 3

A Jubilant Bhartia Company

OUR VALUES



Jubilant Life Sciences Limited
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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 proposed project of expansion of manufacturing plants for synthetic organic chemicals at our site located at Gajraula could not be executed due to business reasons. 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 corresponding vide our letters as referred above for amendment in stipulated specific conditions mentioned in our **Annexure -2**. A copy of the same is enclosed herewith for your ready reference. 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 Life Sciences Limited.


Radheshyam Singh
Site Head

Enclosures:

Enclosure 1: Compliance of conditions of Environmental Clearance

Enclosure 2: Details of amendment sought in Environmental Clearance

CC: 1) 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

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 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.	Installed high efficiency 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. Hence the condition may be suitably amended to include the installation of ESP as an alternative to bag filters.
3	Two stage scrubbers with caustic lye media solution shall be provided to process vents to control SO ₂ . 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 do not propose any process resulting in release of SO ₂ . The proposed boiler shall be operated 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 SO ₂ emission from stack will always remain within prescribed limits. All process vents will be connected to vent collection system and scrubbed for any odour causing gaseous emissions. 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 at 4 locations along the plant boundary in consultation with UPPCB. The monitored results are displayed at the main gate of the plant and the results are also submitted to the concerned authorities accordingly. Monitored data uploaded on company website along with EC compliance report. Latest Ambient Air Quality reports is 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.	Inline 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 transfer in closed loop only.

S.No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
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.
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 existing DG sets are complying with the stipulation and there is no proposal for any new DG sets in the proposed expansion.
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.

S.No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
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. Suitable safety measures to prevent losses are in plant.
9	Total fresh water requirement from ground water source shall not exceed 48.47 m ³ /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 obtained CGWA NOC. Presently we have applied for renewal of NOC to CGWA New Delhi for our all four units i.e.: Chemical unit-1, Chemical unit-2, Distillery Unit and Captive power plant.

S.No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
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 stripped through distillation column to remove volatiles followed by MEE's and liquid incinerators. The 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.
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.
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 are exploring the feasibility of incineration of Organic Process Residue and Spent carbon in cement industry. Till such time, it is proposed to continue incineration of these residues through SPCB approved 3rd Party TSDF. b) We have proposed to continue the disposal of ETP sludge, process inorganic and evaporation salt to our captive secured land fill facility within the premises with UPPCB permission. c) We propose to utilize the fly ash generated from boiler in land reclamation and brick/cement manufacturing.

S.No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
		The stipulation may kindly be amended suitably to include 3rd Party incineration for process organic residue and spent carbon.
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.
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.	The fly ash generated from boilers is slurried and Wet fly ash is being stored separately in lined ash ponds, ensuring no impacts on Air quality and Water regime, including no 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.

S.No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
b	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Presently practiced and Shall be implemented wherever techno-economically feasible in the proposed expansion.
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 vapour recovery system	Complied.
f	Use of high pressure hoses for equipment clearing to reduce waste water generation.	Complied. Hydro jetting 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. The proposed facility is being installed within the present property boundary which already has about 33% of green belt developed.
20	Environmental Corporate Responsibility (ECR) plan along with budgetary provision amounting to 2% of total project cost shall be 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	Based on the need assessed through participatory process with the community around the project, Environment Corporate Responsibility (ECR) plan are prepared and implemented.

S.No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
	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.	
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.	There shall be no housing for construction labour at site. Most unskilled labour shall be sourced from the local villages and the highly skilled labour coming from outside shall reside in the housing facility adequately within the surrounding areas.

	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.

GENERAL CONDITIONS		COMPLIANCE STATUS
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 station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	The present AAQ monitoring locations decided in consultation with the UPPCB shall cater to the proposed expansion also. Since the proposed project is within the same premises, the monitoring shall be continued.
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).	The noise levels in and around the plant are presently within the stipulated standards. Noise monitoring is being done in and around the plant area and 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 is constructed in non-process areas and harvested rainwater is being recharge to ground. To conserve fresh water, condensate water and treated effluent is being utilized in cooling tower 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 and pre and periodic medical check-up. Handling of chemical is one of EHS training part.
7	Usage of Personnel Protection Equipment (PPEs) by all the employees/workers shall be ensured.	Complied. PPEs is mandatory for each employee and worker.

GENERAL CONDITIONS		COMPLIANCE STATUS
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 with.
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.

	GENERAL CONDITIONS	COMPLIANCE STATUS
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.
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 on 01.12.2019 vide letter no. JLL/EHS/ENV/2019/183 and uploaded on company website i.e. www.jubl.com
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 on 23.09.2019 vide letter no. JLL/EHS/ENV/2019/134 and uploaded on company website i.e. www.jubl.com
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	Complied. The details of the EC granted was published in two news papers namely Shah Times and Awam-E- HIND on 27.02.2014 A copy of the same already submitted.

GENERAL CONDITIONS		COMPLIANCE STATUS
	concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	
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.



An ISO 9001 : 2015, ISO 14001 : 2015, OHSAS 18001 : 2007 Certified Laboratory
NABL ISO/IEC 17025 : 2017 (Testing, Cert. No. TC-5526) Accredited Laboratory,
Recognised with MOEFCC & U.P. Pollution Control Board

Annexure-1.1
JAS-ANZ
ICS
ISO 9001/14001/OHSAS 18001
Reg. No. R191/7381

TEST CERTIFICATE

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Page 1 Of 2

TEST REPORT NO : NCL/JOGB/4963/064/16/03/2020

DATE OF REPORT : 21/03/2020

Name And Address Of Customer

JUBILANT LIFE SCIENCE LIMITED

BHARTIAGRAM, GAJRAULA, , DISTT - AMROHA, UTTAR
PRADESH, INDIA

SAMPLING DETAIL

Analysis Start Date	16/03/2020	Analysis End Date	21/03/2020
Date Of Sampling	13/03/2020	Sampling Done By	NCL
Time Of Sampling	10:40	13/03/2020 To	10:40 14/03/2020
Sampling Location	NEAR FINE CHEMICAL-III AREA		
Sampling Protocol	IS:5182(PART-5) AS PER CPCB GUIDELINES		
Sample Flow Rate For SPM(Average)	1.135 mtr ³ /min	Sampling Machine Placed At Height (From Ground)	1.7 mtr
Sample Flow Rate For Gas	0.5 LPM	Sample Duration	24 Hrs.
Equipments Used	RDS GSA-AI101-S.NO-117 DTA-2017+Pm 2.5 sampler AI-102 S.NO-119 DTA-2017, ,		

PHYSICAL OBSERVATIONS

Ambient Temperature	24°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/m ³	IS:5182 Part 23-2006 R/A 2017	72	For 24 Hrs=100
2	Particulate Matters(Size Less Than 2.5 µm) (PM _{2.5})	µg/m ³	Grav.Method	53	For 24 Hrs 60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	38	For 24 hrs= 80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.46	For 08 Hrs= 02 For 01 Hrs=04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	42	For 24 hrs=80
6	Lead (Pb)	µg/m ³	AAS Method	NIL	For 24 hrs=1.0
7	Ozone (O ₃)	µg/m ³	UV-Spectrophotometer	22	For 8hrs=100 For 1 hr= 180
8	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	NIL	For 24hrs=400
9	Benzene (C ₆ H ₆)	µg/m ³	GC Method	NIL	For Annual =05
10	Benzo(a)Pyrene (BaP)	ng/m ³	GC Method	NIL	For Annual=01
11	Arsenic (As)	ng/m ³	AAS Method	NIL	For Annual =06
12	Nickel (Ni)	ng/m ³	AAS Method	NIL	For Annual =20
13	VOC (As BTEX)	µg/m ³	IS 5182(P-11) 2006	3.4	Not Specified

FOR NEWCON CONSULTANTS & LABORATORIES

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AUTHORIZED SIGNATORY

Form no NCL/QSP-28/TC-AAQ/FMT-02 Rev.No 1 Date 18/07/2011

NOTE : 1. The Results reported above pertains to the Tested parameters only. 2. All disputes subject to the same is neither inferred nor implied. 3. The Report shall not be reproduced except in full with the permission of MANAGING PARTNER. 4. Our liability is limited to invoiced value only.

Laboratory : 8th K.M. Stone, NH-58, Delhi Meerut Road, Merta (Opp. Manan Dhaba) GHAZIABAD - 201 003 (U.P.) Telefax : (0120) 2675225, Mobile : 9810430345

E-mail : info@newconlab.com, newconlab@gmail.com



AN ISO 9001 : 2015, ISO 14001 : 2015, OHSAS 18001 : 2007 Certified Laboratory
NABL ISO/IEC 17025 : 2017 (Testing, Cert. No. TC-5526) Accredited Laboratory,
Recognised with MOEFCC & U.P. Pollution Control Board



TEST CERTIFICATE

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Page 1 Of 2

TEST REPORT NO : NCL/JOGB/4963/062/16/03/2020

DATE OF REPORT : 21/03/2020

Name And Address Of Customer

JUBILANT LIFE SCIENCE LIMITED

BHARTIAGRAM, GAJRAULA, , DISTT - AMROHA, UTTAR
PRADESH, INDIA

SAMPLING DETAIL

Analysis Start Date	16/03/2020	Analysis End Date	21/03/2020
Date Of Sampling	12/03/2020	Sampling Done By	NCL
Time Of Sampling	10:15 12/03/2020 To 10:15 13/03/2020		
Sampling Location	NEAR AC20 PLANT		
Sampling Protocol	IS:5182(PART-5) AS PER CPCB GUIDELINES		
Sample Flow Rate For SPM(Average)	1.125 mtr ³ /min	Sampling Machine Placed At Height (From Ground)	1.2 mtr
Sample Flow Rate For Gas	0.5 LPM	Sample Duration	24- Hrs.
Equipments Used	RDS GSA-AI101-S.NO-117 DTA-2017+Pm 2.5 sampler AI-102 S.NO-119 DTA-2017, ,		

PHYSICAL OBSERVATIONS

Ambient Temperature	24°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/m ³	IS:5182 Part 23-2006 R A 2017	86	For 24 Hrs=100
2	Particulate Matters(Size Less Than 2.5 µm) (PM _{2.5})	µg/m ³	Grav.Method	58	For 24 Hrs 60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	38	For 24 hrs= 80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.42	For 08 Hrs= 02 For 01 Hrs=04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	46	For 24 hrs=80
6	Lead (Pb)	µg/m ³	AAS Method	NIL	For 24 hrs=1.0
7	Ozone (O ₃)	µg/m ³	UV-Spectrophotometer	26	For 8hrs=100 For 1 hr= 180
8	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	NIL	For 24hrs=400
9	Benzene (C ₆ H ₆)	µg/m ³	GC Method	NIL	For Annual =05
10	Benzo(a)Pyrene (BaP)	ng/m ³	GC Method	NIL	For Annual=01
11	Arsenic (As)	ng/m ³	AAS Method	NIL	For Annual =06
12	Nickel (Ni)	ng/m ³	AAS Method	NIL	For Annual =20
13	VOC (As BTEX)	µg/m ³	IS 5182(P-11) 2006	2.3	Not Specified

FOR NEWCON CONSULTANTS & LABORATORIES

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Format no NCL/QSP-28/TC-AAQ/FMT-02 Rev.No 1 Date 18.07.2017

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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.	Installed high efficiency 3- field Electro-Static Precipitators on each boiler to ensure the emissions levels well within the limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB guidelines.	The condition may be suitably amended to include the installation of ESP as an alternative to bag filters.
2	Specific Condition No. 9	Total fresh water requirement from ground water source shall not exceed 48.47 m ³ /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.	Presently we have applied for renewal of NOC from CGWA New Delhi 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 be adopted and	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 recovered condensate reused in CT make up after appropriate treatment	The condition may be suitably amended to the EC by installation of ATFD.

S.No.	Condition No.	As stipulated in the EC	Response	Request for Amendment
		no effluent will be discharged outside the premises.	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 are exploring the feasibility of incineration of Organic Process Residue and Spent carbon in cement industry. Till such time, it is proposed to continue incineration of these residues through SPCB approved 3rd Party TSDF. b) We have proposed to continue the disposal of ETP sludge, process inorganic and evaporation salt to our captive secured land fill facility within the premises with UPPCB permission. c) We propose to utilize the fly ash generated from boiler in land reclamation and brick/cement manufacturing.	The condition may kindly be amended suitably to include 3 rd Party incineration for process organic residue and spent carbon.