

4. Project status -

1st Phase has been completed

5. Half yearly compliance report & other documents like ambient air, stack monitoring report, treated sewage analysis report, ground water report and green belt detail are enclosed herewith it.

We assure you of our commitment for the protection of environment.

Thanking You,

Yours Faithfully

For Jubilant Agri & Consumer Products Limited


Seshagiri Rao Kolli

(Head Manufacturing)

Encl: a/a

CC: 1. Joint Director, Ministry of Environment, Forest & Climate Change, Lucknow (UP).
2. Member Secretary, UPPCB, Vibhuti Khand, Gomti Nagar, Lucknow (U.P.)

Name of Project : Expansion of Production capacity of SSP from existing 500 TPD to 1000 TPD, expansion of GSSP Product capacity from 200 TPD to 1000 & H2SO4 capacity from 200 TPD to 400 TPD.

Project Code:

Clearance Letter No : 1900/SEAC/1118 /2011/AD(H)

Period of Compliance Report : 01/10/2017 to 31/03/2018

Specific Conditions

S.N.	Conditions	Compliance Status
1	The production capacity of the industry shall be limited to production of Granular Single Super Phosphate (GSSP) 1000 TPD and 1000 TPD SSP as proposed.	At present production capacity of Single Super Phosphate (SSP) & Granular Single Super Phosphate (GSSP) are 500 TPD and 500 TPD.
2	Coal quantity to be used as fuel should not exceed 54.5 TPD after Expansion.	Rice husk as a green fuel is being used.
3	Online monitoring system shall be installed on the process vents; with an arrangement to reflect the monitored data on the company's server, which can be accessed by the UPPCB on real time basis.	Online monitoring system have been installed & data is being transferred to CPCB/UPPCB server on real time basis.
Water:		
1	Fresh water requirement for the proposed project shall not exceed 841 M3/day during operation and it shall be met through the bore well Prior permission from the CGWA shall be obtained for extraction of ground water.	At present maximum fresh water requirement is 830 KLD & after proposed 2nd Phase expansion total water consumption will be 1400 KLD. Water is sourced from Borwell of Jubilant Agri & Consumer Products Limited/Jubilant Life Science Limited. This is as per the CGWA NOC issued on dt. 7/04/2017.
2	Effluent to be generated from scrubbing shall be completely recycled/reused back in process and hence there shall be no industrial effluent discharge from the unit.	It is being maintained in existing plant & will be maintained after proposed 2nd phase expansion also.
3	The domestic waste water generation shall be disposed off through septic tank-soak pit.	Sewage is being treated through two skid mounted packaged sewage treatment plant & treated sewage is used for horticulture purpose within the premises.
4	The unit shall deploy vacuum cleaner for wiping the floor dust, instead of washing it with water.	Noted & being complied.
5	The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water.	It is under process
Air:		
1	Stem coal shall be utilized as fuel in plant, whereas low sulphur HSD -shall be used as a fuel in the D.G. Set.	Noted. Rice husk is being used as a fuel & HSD being utilized during re startup of Sulphuric Acid Plant after periodic shut down.

2	Flue gas and process emissions shall be controlled with the air pollution control equipments (APCEs) as mentioned below:	
	a. Powder SSP unit - Multi stage venture scrubbers	Ventury Scrubber has already been installed in existing 500 TPD capacity plant. No expansion has been done. The same will be further installed when 2nd phase of expansion project shall be executed.
	b. Granular SSP unit- Multi cyclone separator and dust collector.	Multi cyclone separator and dust collector have been installed in 1st phase of expansion project.
3	The APCEs shall be operated efficiently to maintain prescribed norms by CPCB/UPPCB at stack outlets.	All APCEs are being handled effectively & our stack emissions are well within norms. Apart from this online stack monitoring systems have been installed and real live data is transmitted to CPCB & UPPCB server. Stack monitoring is conducted at regular time interval by NABL & MOEFCC approved laboratory.
4	Adequate stack height as per prevailing norms shall be provided for the flue gas and process emissions.	One stack for GSSP expansion has been installed with adequate height (30 mtrs).
5	All the vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	Noted & being complied. Dust collection bag house has been installed to reduce fugitive emission
6	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health).	Work zone monitoring for parameters mentioned in Schedule - 2 of section 41 F of Factory act is being conducted on yearly basis.
7	Regular monitoring of ground level concentrations of SO ₂ , NO _x , PM ₁₀ , PM _{2.5} and HF shall be carried out in the impact zone in consultation with UPPCB and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the UPPCB. If at any stage these levels are found to exceed the prescribed limits, necessary frequency of monitoring shall be decided in consultation with the UPPCB.	Ambient Air monitoring is carried out on monthly basis by NABL & MOEFCC approved lab as per direction of UPPCB. AAQ level are well within the prescribed limit of CPCB.
8	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous waste (Management, Handing and Trans-boundary Movement) Rules 2008, as may be amended from time to time. Authorization from the UPPCB must be obtained for collection/treatment/storage/ disposal of hazardous wastes.	It is already being implemented. All type of Hazardous waste are being handled (Storage & disposal) in accordance with the Hazardous & Other Waste (Management and Trans-boundary Movement) Rules 2016. Authorization from UPPCB received and is valid till 02/03/2021.

9	The hazardous wastes shall be stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	Hazardous wastes is stored in separate designated hazardous waste storage facility with impreviuous flooring.
10	The major solid waste generation will be as Silica which will be used as filler material for SSP. Proper storage facility for Silica will be develop with paved bottom surfaces and covered shed to avoid its contact with water.	Floor area around the silica treatment plant is impreviuous RCC Structure.
11	The waste oil generated shall be either reused in machine lubrication or sold only to authorized recycler.	Used/Waste oil is being reused for machine lubrication.
12	Spent sulfuric acid shall be purchased only from the authorized sellers.	Noted & will be complied whenever spent sulphuric shall be purchase.
13	Hydroflosilicic Acid formed with be recycled back to the mixer at the point of addition of acid for acid dilution along with rock phosphate at the mixer inlet and surplus quantity shall be sold only to the authorized end consumers.	All effluent containing Hydrofluosilicic acid is being recycled back in process. Generation of HF acid is less than the total quantity of water used, hence no HF acid is being disposed.
14	Manifest system as depicted in the Hazardous waste (Management, Handing and Trans-boundary Movement) Rules 2008 shall be followed for purchase of Spent Sulphuric Acid and sell of Hydroflosilicic Acid. Records of purchase of Spent Sulphuric Acid and sell of Hydroflosilicic Acid shall be maintained and submitted to the UPPCB at regular intervals.	Noted.
15	Discarded drums and bags shall be either reused or returned to raw material suppliers or sold to the authorized recyclers.	Noted & being complied.
16	Scrap shall be sold to the recyclers.	Noted & being complied.
Safety:		
1	All the recommendations mentioned in the Risk Assessment chapter in the EIA Report shall be strictly implemented.	Noted & being implemented.
2	All necessary precautionary measures shall be taken to avoid accident during storage and handling of hazardous chemicals.	Work instruction for storage & handling of hazardous chemical is already available. Training on MSDS imparted at regular time interval & MSDS is displayed at each prominent sites.
3	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tank / containers instead of one single large capacity tank / containers.	It is already in practice & there are four tank to store the sulphuric acid instead of one single large capacity tank.
4	All the storage tanks shall be equipped with appropriate controls to avoid any leakages .bund/dyke walls be provided for storage tank for hazardous chemicals.	To avoid any leakgae all storge tanks of Sulphuric acid are equipped with appropriate dyke wall.

5	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	It is already being implemented.
6	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	Tie up is already done with many renowned nearby hospital in case of any emergency. In house Occupational Health Centre with round the clock doctor is available at site.
7	Personal protective equipment shall be provided to workers and its usage shall be ensured and supervised.	It is already being implemented.
8	First aid box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	It is already being implemented.
9	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	It is already being implemented.
10	Pre_employment and periodical medical examination (occupational health surveillance) for all the workers shall be undertaken as per the factories Act & Rules.	It is already being implemented.
11	Transportation of hazardous chemicals shall be done as per the provisions of the motor vehicle act & rules.	It is already being implemented.
Noise:		
1	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, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act. 1986 viz. 75 dBA (Day time) and 70 Dba (night time).	Acoustic hoods. Silencers, enclosures have been provided in plant as required to reduce the noise level also. Noise monitoring is being conducted at regular time interval.
2	The company shall undertake various waste minimization measures including:	
a)	Metering and control of quantities of active ingredients to minimize waste.	Noted & being complied.
b)	Use of automated and enclosed filling to minimize waste.	Noted & being complied.
c)	Use of close feed system into batch reactors.	Our Process is continuous process through close loop system.
d)	Regular preventive maintenance for avoiding leakage, spillage etc.	Preventive maintenance & regular inspection is being done to avoid any leakage from pipes/pumps by maintenance team round the clock.

e)	Dry cleaning of floor with vacuum cleaner devise instead of floor washing.	Noted & being complied.
f)	Regular preventive maintenance for avoiding leakage, spillage etc.	Preventive maintenance & regular inspection is being done to avoid any leakage from pipes/pumps by maintenance team round the clock.
Green Belt and Other Plantation:		
1	The company shall develop the given belt in at least 33% of plant area to mitigate the effect of fugitive emissions and noise as per the guidelines CPCB.	Noted & being complied.
2	Trees shall be planted in rows in the periphery of the premises as well as along internal roads. In addition to this, the unit shall also take up adequate plantation on road side and suitable open areas in vicinity of plant.	Adequate plantation has been done.
3	Drip irrigation/low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.	Low-angle sprinkler system is already being used.
Other Conditions		
1	Prepare and submit a comprehensive EIA within a span of one year from the date of issuance of E.C and obtain all the necessary clearances/ approvals from the competent, Authorities before starting the construction/process.	Comprehensive EIA study report has been submitted on dt. 27.04.2015.
2	The Environment Clearance is subject to ownership of the site by the project proponents in confirmation with approved master plan from amroha. In case of violation, it would not be effective and would automatically be stand cancelled.	Noted
3	You are also directed to ensure that the proposed site is not a part of any no-development zone as required/ prescribed /identified under law. In case of violation, this permission shall automatically deem to be cancelled. Also, in the event of any dispute on ownership or land use of the proposed site, this clearance shall automatically deemed to be cancelled.	Site is notified under UPSIDC industrial area.

4	The project proponent will have to submit approved plans and proposals incorporating the conditions specified in the Environmental Clearance within 03 months of issue of the clearance. The SEIAA/MoEF reserves the right to resolve the environmental clearance, if conditions stipulated are not implemented to the satisfaction of SEIAA/MoEF. SEIAA may impose additional environmental conditions or modify the existing ones, if necessary. Necessary statutory clearances should be obtained and submitted before start of any construction activity.	Approved plans and proposal has already submitted to SEIAA and other Govt authority. All necessary statutory clearances like NOC & consent to operate etc had obtained from concerned authority before start of the project.
5	These stipulations would be enforced among others under the provisions of water (prevention and control of pollution) Act, 1974, the Air (Prevention and control of pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006 including the amendment and rules made thereafter.	All applicable rules & regulation are being complied. In order to compliance NOC & Air, Water Consent & Hazardous Waste Authorization have been received from UPPCB and all conditions are being complied.
6	This is to request you to take further necessary action in the matter as per provision of Gazette Notification No. S.O. 1533(E) dated 14.09.2006, as amended and send regular compliance reports to the authority as prescribed in the aforesaid notification.	Noted & being complied.
General Conditions:		
1	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	Noted & will be complied as & when require.
2	The project management shall also comply with all the recommendations made in the EIA/EMP report of the project and the undertaking submitted by the project proponent.	Noted & being complied.

3	<p>The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board.</p>	<p>Following arrangement has been done in 1st phase expansion project to meet the CREP requirement -</p> <ol style="list-style-type: none"> 1. Sulphuric Acid Plant is based on only DCDA to meet the emission standard for SO₂ as 2.5 kg/tonne of H₂SO₄ produced & Stack height is 50 meter. 2. Continuous SO₂ emission monitoring systems has been installed in sulphuric acid plants. 3. Regular monitoring of ambient air quality with regard to SO₂, NO_x, PM, SO₃, fluoride and acid mist are carried out. 4. spent catalyst having toxic metals is being handle with care & store in HDPE bag in disignated isolated closed place as per Hazardous Waste (Management, Handling & Transboundary Movement) Rule 2008. Spent Catalyst is disposed off in Secure Land fill (S.L.F) authorized by UPPCB . <p>Following arrangement is proposed in 2nd expansion project to meet the CREP requirement -</p> <ol style="list-style-type: none"> 1. Dust control systems which is already implemented in existing rock Phosphate grinding unit in single super phosphate plants will be inplace in 2nd expansion project also. 2. Particulate as well as gaseous fluoride will be monitored and adequate contro systems will be installed which is already implemented in existing plant.
4	<p>A separate Environment Management Cell equipped with full fledged laboratory facilities and qualified personnel shall be set up to carry out the environment management and monitoring functions and a separate budget shall be allocated for this purpose.</p>	<p>Sampling & Testing of ambient air in the plant, COD, BOD, pH, TSS etc.of domestic sewage is being done. A dedicated well established Environment department is already in existence for maintaing & monitoring environment management system.</p>
5	<p>The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safe guards shall be reported.</p>	<p>It has already been submitted.</p>
6	<p>All the issues raise in the public hearing shall be comprehensively addressed/ complied with in a time bound manner.</p>	<p>Not Applicable</p>
7	<p>2% of total project cost should be utilized create a corpus of funds for implementing plan under social, Corporate and Environmental responsibility and proposals submitted within a month of issuance of Environmental clearance failing which the clearance shall deem to be canceled.</p>	<p>CSR budget details has already been submitted vide our earlier compliance report ref no.JACPL/EHS/ENV/2013/155 dt. 27/11/2013.</p>

8	During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	Dyke wall with drain are installed at all chemical storage tank.
9	Pucca flooring/impervious layer shall be provided in the work areas, chemical storage area and chemical handling areas to minimize soil contamination.	RCC flooring/impervious layer is provided in the work areas, chemical storage area and chemical handling areas.
10	Leakages from the pipes/pumps shall be minimal and if occurs, arrested promptly.	Preventive maintenance & regular inspection is being done to avoid any leakage from pipes/ pumps. Availability of maintenance team is ensured round the clock.
11	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	Noted & will be complied.
12	No further expansion or modification in the plant likely to cause for the purpose environmental impacts shall be carried out without obtaining prior. Environment clearance from the concerned authority.	Noted & will be complied
13	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted & being complied.
14	Information regarding grant of environment clearance to the project 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 UPPCB/SEIAA UP/ the concerned Regional Office of MOEF.	Information has already been advertised in two local news paper Shah Times & Dianik Jagran on dt. 16/11/2013 & 18/11/2013.
15	The project authorities shall inform UPPCB/SEIAAUP/ the concerned Regional Office of MoEF, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Information had been given to UPPCB vide our letter no. JACPL/EHS/ ENV/2013/151.
16	This Environmental Clearance is valid for five years from the date of issue.	Noted.

17	The SEIAA, U.P. reserve the right to add new conditions, modify/annual any condition and/or to revoke the clearance if implementation of any of the aforesaid condition/ other stipulations imposed by competent authorities is not satisfactory. Six monthly compliance status reports on project along with implementation of environmental measures shall be submitted to this Authority, MoEF, Regional Office, Lucknow and SPCB.	Noted & six monthly compliance report is being submitted regularly to aforesaid concern authority.
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TEST CERTIFICATE

WATER SAMPLE ANALYSIS REPORT

(COMPLETE TEST AS PER IS:10500-2012)

TEST REPORT NO : NCL/JASG/101/13/11/2017	DATE OF REPORT : 18/11/2017
Name And Address Of Customer	JUBILANT AGRI & CONSUMER PRODUCTS LTD. (FERTILIZER UNIT) BHARTIAGRAM , AMROHA,UTTAR PRADESH, INDIA

SAMPLING DETAILS

Analysis Start Date	13/11/2017	Analysis End Date	18/11/2017
Date of Sampling	10/11/2017	Sampling ID No.	101/13/11/2017
Time of Sampling	15:45		
Sampling Done By	NCL		
Sampling Description	GROUND WATER		
Sampling Location	BOREWELL WATER		
Sampling Protocol	IS:3025(Part-I)	Sampling Quantity	FIVE Lt
Packing Condition	Sealed	Packed In	PVC CANE

TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Drinking Water Standards / Limit (IS :10500 2012)	
					Desirable Limit	Permissible Limit
1	Colour	Hazen	APHA-2120 (C)	<5.0	5 max	15 max
2	Odour	-	IS:3025 (P-5)	Agreeable	Agreeable	Agreeable
3	Taste	-	IS:3025 (P-8)	Not Analysed	Agreeable	Agreeable
4	pH	-	APHA-4500 (H+B)	7.40	6.5-8.5	No Relaxation
5	Turbidity	NTU	APHA-2130 (B)	<1.0	1 max.	5 max.
6	Total Hardness	mg/L	APHA-2340 (C)	470	200 max.	600 max.
7	Iron (Fe)	mg/l	APHA-3111 (B)	0.15	0.3 max.	No Relaxation
8	Chloride (Cl)	mg/L	APHA-4500 (B)	83.5	250 max.	1000 max.
9	Residual, Free Chlorine	mg/L	APHA-4500 (B)	<0.2	0.2 min.	1.0 min.
10	Total Dissolved Solids (TDS)	mg/L	APHA-2540 (C)	745	500 max.	2000 max.
11	Calcium (Ca)	mg/L	APHA-3500 (B)	96	75 max.	200 max.
12	Magnesium (Mg)	mg/L	APHA-3500- Mg (B)	55.9	30 max.	100 max.
13	Copper (Cu)	mg/l	APHA-3111 (B)	<0.05	0.05 max.	1.5 max.
14	Manganese (Mn)	mg/L	APHA-3111 (B)	<0.05	0.1 max.	0.3 max.
15	Sulphate (SO ₄)	mg/L	APHA-4500 (C)	40.6	200 max.	400 max.
16	Nitrate (NO ₃)	mg/L	APHA-4500 (NO3)	0.27	45 max.	No Relaxation
17	Fluoride (F)	mg/L	APHA-4500 (D)	0.21	1.0 max.	1.5 max.

FOR NEWCON CONSULTANTS & LABORATORIES

INTEKHAB KHAN
M.Bg. (Env. Science)

CHECKED BY

LABORATORY
LEAD
NO.
J.K.



TECHNICAL
MANAGER
AUTHORIZED SIGNATORY

Format no NCL/QSP-28/TC-DWT/FMT-05/a Rev.No.1 Date 18.07.2011
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Laboratory : 8th K.M. Stone, Delhi Meerut Road, Merta (Opp. Manan Dham Mandir) GHAZIABAD - 201 005 (U.P.) Telefax : (0120) 2675225, Mobile : 9810430345
E-mail : info@newconlab.in



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Recognised with MOEFCC & U.P. Pollution Control Board



ISO 9001/14001/OHSAS 18001
Reg. No. R191/0381

Website www.newconlab.in

TEST CERTIFICATE

WATER SAMPLE ANALYSIS REPORT (COMPLETE TEST AS PER IS:1500-2012)

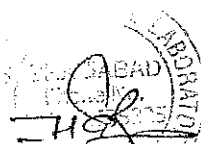
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TEST REPORT NO : NCL/JASG/101/13/11/2017			DATE OF REPORT : 18/11/2017			
18	Phenolic Compounds (C ₆ H ₅ OH)	mg/L	APHA-5530	<0.001	0.001 max.	0.002 max.
19	Mercury (Hg)	mg/L	APHA-3112 (B)	<0.001	0.001 max.	No Relaxation
20	Cadmium (Cd)	mg/L	APHA-3111 (B)	<0.003	0.003 max.	No Relaxation
21	Selenium (Se)	mg/L	APHA-3113 (B)	<0.01	0.01	No Relaxation
22	Arsenic (As)	mg/L	APHA-3500 (B)	<0.01	0.01 max.	0.05 max.
23	Cyanide (Cn)	mg/L	APHA-4500 (C)	<0.05	0.05 max.	No Relaxation
24	Lead (Pb)	mg/L	APHA-3111 (B)	<0.01	0.01 max.	No Relaxation
25	Zinc (Zn)	mg/L	APHA- 3111 (B)	<0.05	5 max.	15 max.
26	Anionic Detergent (MBAS)	mg/L	APHA-4540	<0.02	0.2 max.	1.0 max.
27	Polynuclear Aromatic Hydrocarbon (PAH)	mg/L	APHA-6440	<0.0001	0.0001	No Relaxation
28	Mineral oil	mg/L	IS:3025 (P-39)	<0.05	0.50 max.	No Relaxation
29	Pesticides	mg/L	IS:14628	Absent	Absent	0.001 max.
30	Total Alkalinity	mg/L	APHA-2320 (B)	598.6	200 max.	600 max.
31	Aluminium (Al)	mg/L	APHA-3500 (B)	<0.01	0.03 max.	0.2 max.
32	Boron (B)	mg/L	APHA-4500 (B)	0.12	0.5 max.	1.0 max.
33	Ammonia (as total Ammonia-N)	mg/L	APHA-4500 (C)	<0.2	0.50	No Relaxation
34	Barium (Ba)	mg/L	APHA-3111 (D)	<0.05	0.7 max.	No Relaxation
35	Chloramines (Cl ₂)	mg/l	APHA-4500-cl(G)	Absent	0.4 Max.	No Relaxation
36	Sulphide (H ₂ S)	mg/L	APHA-4500 F	<0.05	0.05	No Relaxation
37	Molybdenum (Mo)	mg/L	APHA-3111 D	<0.05	0.07	No Relaxation
38	Nickel (Ni)	mg/L	APHA-3111 (B)	<0.02	0.02	No Relaxation
39	Poly Chlorinated Biphenyls (PCB)	mg/L	APHA-6431 (B)	<0.0005	0.0005	No Relaxation
40	Bromoform	mg/L	APHA-6232	Absent	0.1	No relaxation
41	Dibromochloro methane	mg/L	APHA-6232	Absent	0.1	No relaxation
42	Bromo dichloro methane	mg/L	APHA-6232	Absent	0.06 max.	No relaxation
43	Chloroform	mg/L	APHA-6232	Absent	0.2 max.	No Relaxation
44	E-coli	/100ml	IS:1622:1981	Absent	Absent	No relaxation
45	Total Coliform (MPN)	MPN/100 ml	IS:1622-1981	Absent	Absent	No relaxation
46	Silver (Ag)	mg/L	APHA-3111 (B)	<0.05	0.1	No relaxation
47	Total Chromium (as Cr)	mg/L	APHA-3500 Cr-C	<0.02	0.05	No relaxation

**** End Of Report****

FOR NEWCON CONSULTANTS & LABORATORIES

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(Env. Science)
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Laboratory : 8th K.M. Stone, NH-58, Delhi Meerut Road, Merta (Opp. Manan Dham Mandir) GHAZIABAD - 201 003 (U.P.) Telefax : (0120) 2875225 Mobile : 9810430345



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JAS-ANZ



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Reg. No. R191/7381

TEST CERTIFICATE

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Page 1 Of 2

TEST REPORT NO : NCL/JASG/105/12/03/2018	DATE OF REPORT : 17/03/2018
Name And Address Of Customer	JUBILANT AGRI & CONSUMER PRODUCTS LTD. (FERTILIZER UNIT) BHARTIAGRAM , AMROHA, UTTAR PRADESH, INDIA

SAMPLING DETAIL

Analysis Start Date	12/03/2018	Analysis End Date	17/03/2018
Date Of Sampling	9/03/2018	Sampling Done By	NCL
Time Of Sampling	10:00 9/03/2018 To 10:00 10/03/2018		
Sampling Location	NEAR MATERIAL GATE		
Sampling Protocol	IS:5182(PART-5) AS PER CPCB GUIDELINES		
Sample Flow Rate For SPM(Average)	1.115 mtr ³ /min	Sampling Machine Placed At Height (From Ground)	1.5 mtr
Sample Flow Rate For Gas	0.5 LPM	Sample Duration	24-Hrs.
Equipments Used	Respirable Dust Sampler (PM10) + Fine Particulate Sampler (PM 2.5) With Gaseous Attachment, ,		

PHYSICAL OBSERVATIONS

Ambient Temperature	30°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)	94	For 24 Hrs=100
2	Particulate Matters(Size Less Than 2.5 µm) (PM _{2.5})	µg/m ³	Grav.Method	46	For 24 Hrs 60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	20	For 24 hrs= 80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.345	For 08 Hrs= 02 For 01 Hrs=04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	36	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	16	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

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Tel: (0522) 227225, 227226, 227227, 227228, 227229, 227230, 227231, 227232, 227233, 227234, 227235, 227236, 227237, 227238, 227239, 227240, 227241, 227242, 227243, 227244, 227245, 227246, 227247, 227248, 227249, 227250, 227251, 227252, 227253, 227254, 227255, 227256, 227257, 227258, 227259, 227260, 227261, 227262, 227263, 227264, 227265, 227266, 227267, 227268, 227269, 227270, 227271, 227272, 227273, 227274, 227275, 227276, 227277, 227278, 227279, 227280, 227281, 227282, 227283, 227284, 227285, 227286, 227287, 227288, 227289, 227290, 227291, 227292, 227293, 227294, 227295, 227296, 227297, 227298, 227299, 227300, 227301, 227302, 227303, 227304, 227305, 227306, 227307, 227308, 227309, 227310, 227311, 227312, 227313, 227314, 227315, 227316, 227317, 227318, 227319, 227320, 227321, 227322, 227323, 227324, 227325, 227326, 227327, 227328, 227329, 227330, 227331, 227332, 227333, 227334, 227335, 227336, 227337, 227338, 227339, 227340, 227341, 227342, 227343, 227344, 227345, 227346, 227347, 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Page 2 Of 2

TEST REPORT NO : NCL/JASG/105/12/03/2018		DATE OF REPORT : 17/03/2018			
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	Fluoride	µg/m ³	BIS Method	Nil	Not Specified
14	Acid Mist	µg/m ³	Vol. Analysis	Nil	Not Specified

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TEST REPORT NO : NCL/JASG/106/12/03/2018	DATE OF REPORT : 17/03/2018
Name And Address Of Customer	JUBILANT AGRI & CONSUMER PRODUCTS LTD. (FERTILIZER UNIT) BHARTIAGRAM , ,AMROHA,UTTAR PRADESH, INDIA

SAMPLING DETAIL

Analysis Start Date 12/03/2018 Analysis End Date 17/03/2018
 Date Of Sampling 9/03/2018 Sampling Done By NCL
 Time Of Sampling 09:10 9/03/2018 To 09:10 10/03/2018
 Sampling Location NEAR SCRAP YARD AREA
 Sampling Protocol IS:5182(PART-5) AS PER CPCB GUIDELINES
 Sample Flow Rate For SPM(Average) 1.118 mtr³/min Sampling Machine 1.5 mtr
 Placed At Height (From Ground)
 Sample Flow Rate For Gas 0.5 LPM Sample Duration 24-Hrs.
 Equipments Used Respirable Dust Sampler (PM10) + Fine Particulate Sampler (PM 2.5) With Gaseous Attachment ,

PHYSICAL OBSERVATIONS

Ambient Temperature 30°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)	80	For 24 Hrs=100
2	Particulate Matters(Size Less Than 2.5 µm) (PM _{2.5})	µg/m ³	Grav.Method	44	For 24 Hrs 60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	16.0	For 24 hrs= 80
	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.30	For 08 Hrs= 02 For 01 Hrs=04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	34.0	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	10	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

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Page 2 Of 2


TEST REPORT NO : NCL/JASG/106/12/03/2018		DATE OF REPORT : 17/03/2018			
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	Fluoride	µg/m ³	BIS Method	Nil	Not Specified
14	Acid Mist	µg/m ³	Vol. Analysis	Nil	Not Specified

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Tel: (0120) 2975225, 2975226, 2975227, 2975228, 2975229, 2975230, 2975231, 2975232, 2975233, 2975234, 2975235, 2975236, 2975237, 2975238, 2975239, 2975240, 2975241, 2975242, 2975243, 2975244, 2975245, 2975246, 2975247, 2975248, 2975249, 2975250, 2975251, 2975252, 2975253, 2975254, 2975255, 2975256, 2975257, 2975258, 2975259, 2975260, 2975261, 2975262, 2975263, 2975264, 2975265, 2975266, 2975267, 2975268, 2975269, 2975270, 2975271, 2975272, 2975273, 2975274, 2975275, 2975276, 2975277, 2975278, 2975279, 2975280, 2975281, 2975282, 2975283, 2975284, 2975285, 2975286, 2975287, 2975288, 2975289, 2975290, 2975291, 2975292, 2975293, 2975294, 2975295, 2975296, 2975297, 2975298, 2975299, 2975300, 2975301, 2975302, 2975303, 2975304, 2975305, 2975306, 2975307, 2975308, 2975309, 2975310, 2975311, 2975312, 2975313, 2975314, 2975315, 2975316, 2975317, 2975318, 2975319, 2975320, 2975321, 2975322, 2975323, 2975324, 2975325, 2975326, 2975327, 2975328, 2975329, 2975330, 2975331, 2975332, 2975333, 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AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

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TEST REPORT NO : NCL/JASG/107/12/03/2018	DATE OF REPORT : 17/03/2018
Name And Address Of Customer	JUBILANT AGRI & CONSUMER PRODUCTS LTD. (FERTILIZER UNIT) BHARTIAGRAM , AMROHA, UTTAR PRADESH, INDIA

SAMPLING DETAIL

Analysis Start Date 12/03/2018 Analysis End Date 17/03/2018
 Date Of Sampling 9/03/2018 Sampling Done By NCL
 Time Of Sampling 09:30 9/03/2018 To 09:30 10/03/2018
 Sampling Location NEAR ENTRANCE GATE
 Sampling Protocol IS:5182(PART-5) AS PER CPCB GUIDELINES
 Sample Flow Rate For SPM(Average) 1.185 mtr³/min Sampling Machine 1.8 mtr
 Placed At Height (From Ground)
 Sample Flow Rate For Gas 0.5 LPM Sample Duration 24-Hrs.
 Equipments Used Respirable Dust Sampler (PM10) + Fine Particulate Sampler (PM 2.5) With Gaseous Attachment, ,

PHYSICAL OBSERVATIONS

Ambient Temperature 30°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/m ³	IS:5182 (Part 23)	80	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5 µm) (PM _{2.5})	µg/m ³	Grav. Method	36	For 24 Hrs 60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	15.0	For 24 hrs= 80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.40	For 08 Hrs= 02 For 01 Hrs=0.1
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	35	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	12	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

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TEST REPORT NO : NCL/JASG/107/12/03/2018		DATE OF REPORT : 17/03/2018			
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	Fluoride	µg/m ³	BIS Method	Nil	Not Specified
14	Acid Mist	µg/m ³	Vol. Analysis	Nil	Not Specified

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STACK EMISSION MONITORING AND ANALYSIS REPORT

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TEST REPORT NO : NCL/JASG/104/12/03/2018	DATE OF REPORT : 17/03/2018
Name And Address Of Customer	JUBILANT AGRI & CONSUMER PRODUCTS LTD. (FERTILIZER UNIT) BHARTIAGRAM , ,AMROHA,UTTAR PRADESH, INDIA

SAMPLING DETAIL

Analysis Start Date	12/03/2018	Analysis End Date	17/03/2018
Date Of Sampling	9/03/2018	Sampling Done By	NCL
Sampling Protocol	AS PER CPCB GUIDELINES	Duration Of Sampling	30 Minute
Equipment Used	Vayubodhan Stack Sampler No 1 VSS-1(S.No 321 DTC 01), , ,		

DETAILS OF STACK

Stack Attached To	ROCK DRIER	Stack Dia At The Top	640 mm
Capacity	15000 MT/Month	Material Of Construction	MS
Type Of Fuel Used	RICE HUSK	Normal Operation Schedule	24 HRS
Quantity Of Fuel Used	275 KG/HR		
Stack Height Above The Ground level	30.0 Mtr		
Attached APCS	CYCLONE & DUST CHAMBER WITH WATER SPREY		

PHYSICAL OBSERVATIONS

Ambient Temperature	30°C	Flue Gas Temperature	86°C
Velocity Of Flue Gases	6.7 Mtr/Sec	Sampling Flow Rate For SPM	22.0 LPM
Sampling Flow Rate For Gases	2.2 LPM	Quantity Of Emission Discharged	7755.44832m ³ /hr

TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Specification/ Limit (As Per CPCB)
1	Particulate Matters (PM)	mg/Nm ³	IS:11255 (P-1)	75.9	150
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS:11255 (P-2)	20	Not Specified
3	Oxides of Nitrogen (NO _x)	mg/Nm ³	IS:11255 (P-7)	32	Not Specified

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TEST REPORT NO : NCL/JASG/103/12/03/2018	DATE OF REPORT : 17/03/2018
Name And Address Of Customer	JUBILANT AGRI & CONSUMER PRODUCTS LTD. (FERTILIZER UNIT) BHARTIAGRAM , ,AMROHA,UTTAR PRADESH, INDIA

SAMPLING DETAIL

Analysis Start Date	12/03/2018	Analysis End Date	17/03/2018
Date Of Sampling	9/03/2018	Sampling Done By	NCL
Sampling Protocol	AS PER CPCB GUIDELINES	Duration Of Sampling	30.0 Min.
Equipment Used	Vayubodhan Stack Sampler No 1 VSS-1(S.No 321 DTC 01), , ,		

DETAILS OF STACK

Stack Attached To	S.S.P Plant	Stack Dia At The Top	1090 mm
Capacity	15000 MT/Month	Material Of Construction	MS
Type Of Fuel Used	---	Normal Operation Schedule	24-Hrs.
Quantity Of Fuel Used	---		
Stack Height Above The Ground level	30.0 Mtr		
Attached APCS	Ventury Scrubber & Wet Scrubber		

PHYSICAL OBSERVATIONS

Ambient Temperature	30°C	Flue Gas Temperature	74°C
Velocity Of Flue Gases	6.7 Mtr/Sec	Sampling Flow Rate For SPM	22.0 LPM
Sampling Flow Rate For Gases	2.2 LPM	Quantity Of Emission Discharged	22495.7230m ³ /hr

TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Specification/ Limit (As Per CPCB)
1	Particulate Matters (PM)	mg/Nm ³	IS:11255 (P-1)	80.6	150
2	Fluoride	mg/Nm ³	IS:11255 (P-5)	6.2	25.0

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TEST REPORT NO : NCL/JASG/102/12/03/2018	DATE OF REPORT : 17/03/2018
Name And Address Of Customer	JUBILANT AGRI & CONSUMER PRODUCTS LTD. (FERTILIZER UNIT) BHARTIAGRAM , ,AMROHA,UTTAR PRADESH, INDIA

SAMPLING DETAIL

Analysis Start Date	12/03/2018	Analysis End Date	17/03/2018
Date Of Sampling	9/03/2018	Sampling Done By	NCL
Sampling Protocol	AS PER CPCB GUIDELINES	Duration Of Sampling	30 Minutes
Equipment Used	Vayubodhan Stack Sampler VSS1 (S.No. : 321-DTC-07), , ,		

DETAILS OF STACK

Stack Attached To	G.S.S.P Plant (New Plant)		
Capacity	9000 MT/Month		
Type Of Fuel Used	Rice Husk		
Quantity Of Fuel Used	650 KG/HR		
Stack Height Above The Ground level	30 Mtr	Stack Dia At The Top	1080 mm
Attached APCS	MULTI CYCLONE WITH DUST COLLECTOR CHAMBER SCRUBBER	Material Of Construction	MS
		Normal Operation Schedule	24 Hrs

PHYSICAL OBSERVATIONS

Ambient Temperature	30°C	Flue Gas Temperature	62°C
Velocity Of Flue Gases	6.8 Mtr/Sec	Sampling Flow Rate For SPM	22.0 LPM
Sampling Flow Rate For Gases	2.5 LPM	Quantity Of Emission Discharged	22414.4755m ³ /hr

TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Specification/ Limit (As Per CPCB)
1	Particulate Matters (PM)	mg/Nm ³	IS:11255 (P-1)	69.0	150
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS:11255 (P-2)	16	Not Specified
3	Oxides of Nitrogen (NO _x)	mg/Nm ³	IS:11255 (P-7)	32	Not Specified

**** End Of Report****

FOR NEWCON CONSULTANTS & LABORATORIES

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PREPARED BY

AUTHORIZED SIGNATORY

Format no NCL/QSP-28/TC-SET/FMT-01 Rev.No.1 Date 18.07.2011

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Laboratory : 8th K.M. Stone, NH-59, Delhi-Mumbai Expressway, Gurgaon, Haryana



Website : www.newconlab.in

TEST CERTIFICATE

STACK EMISSION MONITORING AND ANALYSIS REPORT

TEST REPORT NO. NCL/JASG/116/14/12/2017	DATE OF REPORT: 20/12/2017
Name and Address of Customer	JUBILANT AGRI & CONSUMER PRODUCTS LTD. (FERTILIZER UNIT) BHARTIAGRAM , AMROHA, U.P.INDIA,

SAMPLING DETAIL

Analysis Start Date : 14/12/2017
Date of Sampling : 11/12/2017
Sampling Protocol : AS PER CPCB GUIDELINES
Equipment Used : Vayubodhan Stack
Sampler No.1 VSS 1
(S.No.321 DTC 07)

Analysis End Date : 20/12/2017
Sampling Done By : By NCL
Duration of Sampling : 30 MINUTES

DETAILS OF STACK

Stack Attached To : SULPHURIC ACID PLANT Type of fuel used : SULPHUR
Quantity of Fuel Used : 3.20 Ton/Hr
Stack height above the ground level : 50 Mtr
Stack dia at the top : 900 mm
Attached APCS : ALKALI WET SCRUBBER
Material of construction : MS
Normal operating schedule : 24 HRS

PHYSICAL OBSERVATIONS

Ambient temperature : 22°C
Velocity of flue gases : 7.0MTR/SEC
Sampling Flow Rate for Gases : 2.5LPM

Flue gas temperature : 78°C
Sampling Flow Rate for SPM : 22.0LPM
Qty of Emission discharged : 15107.796m3/hr

TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Specification/ Limit (as per CPCB)
1	Sulphur Dioxide (SO2)	Kg/Ton	IS:11255 (Pt 2)	0.65	2.50
2	Acid Mist (H2SO4)	mg/Nm ³	Vol. Method	32	50
3	Sulphur Dioxide (SO2)	mg/Nm ³	IS:11255 (Pt 2)	426.66	1370

*OTE- Current load 248 Mt/DAY

*** End of Report ***

FOR NEWCON CONSULTANTS LABORATORIES

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0120-2675225

FORMAT No. NCL/OSP-28/TC-SET/FMT-01



GHAZIABAD
Phone No.
0120-2675225

INTEKHAR KHAN
M.Sc. (Env. Science)
AUTHORIZED SIGNATORY

Rev. No. 01 Date:18/07/2011

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Laboratory : 8th K.M. Stone, Delhi Meerut Road, Merta (Opp. Manan Dham Mandir) GHAZIABAD - 201 003 (U.P.)
Telefax : (0120) 2675225, Mobile : 9810430345
E-mail : info@newconlab.com, newconlab@gmail.com



TEST CERTIFICATE

WASTE WATER SAMPLE ANALYSIS REPORT

TEST REPORT NO : NCL/JASG/103/20/11/2017

DATE OF REPORT : 24/11/2017

Name And Address Of Customer

JUBILANT AGRI & CONSUMER PRODUCTS LTD.
 (FERTILIZER UNIT) BHARTIAGRAM , AMROHA, UTTAR PRADESH,
 INDIA

SAMPLING DETAILS

Analysis Start Date	20/11/2017	Analysis End Date	24/11/2017
Date of Sampling	18/11/17	Sampling ID No.	103/20/11/2017
Time of Sampling	13:00		
Sampling Done By	NCL		
Sampling Location	STP WATER, NEAR SCRAP YARD (FERTILIZER UNIT)		
Sampling Description	SEWAGE WATER		
Sampling Protocol	IS:3025(Part-I)	Sampling Quantity	Two Lt
Packing Condition	Sealed	Packed In	Glass Bottle

TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Standards (CPCB) (Max)	
					Inland Surface Water	Public Sewer
1	pH	--	APHA-4.10(H+B)	7.25	5.5-9.0	5.5-9.0
2	Total Suspended Solids (TSS)	mg/L	APHA-2540 (H+B)	55	100	600
3	Bio Chemical Oxygen Demand (3 days at 27°C)	mg/L	APHA-5210 (B)	24	30	350
4	Chemical Oxygen Demand (COD)	mg/L	APHA-5220 (B)	128	250	Not Specified
5	NH4-N	mg/L	APHA-4500 (NH3-C)	12.4	50	50
6	N-Total	mg/L	APHA-4500 (N)	18.7	Not Specified	Not Specified
7	Fecal Coliform	Nos/100ml	APHA-9215 B	65	Not Specified	Not Specified

**** End Of Report****

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



TEST CERTIFICATE

WASTE WATER SAMPLE ANALYSIS REPORT

TEST REPORT NO : NCL/JASG/102/20/11/2017	DATE OF REPORT : 24/11/2017
Name And Address Of Customer	JUBILANT AGRI & CONSUMER PRODUCTS LTD. (FERTILIZER UNIT), BHARTIAGRAM, AMROHA, UTTAR PRADESH, INDIA

SAMPLING DETAILS

Analysis Start Date	20/11/2017	Analysis End Date	24/11/2017
Date of Sampling	18/11/17	Sampling ID No.	102/20/11/2017
Time of Sampling	13:50		
Sampling Done By	NCL		
Sampling Location	STP WATER, NEAR COMMERCIAL OFFICE (FERTILIZER UNIT)		
Sampling Description	SEWAGE WATER		
Sampling Protocol	IS:3025(Part-I)		
Packing Condition	Sealed	Sampling Quantity	TWO Lt
		Packed In	Glass Bottle

TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Standards (CPCB) (Max)	
					Inland Surface Water	Public Sewer
1	pH	--	APHA-4500(H+B)	7.48	5.5-9.0	5.5-9.0
2	Total Suspended Solids (TSS)	mg/L	APHA-2540 (H+B)	85	100	600
3	Bio Chemical Oxygen Demand (3 days at 27°C)	mg/L	APHA-5210 (B)	26	30	350
4	Chemical Oxygen Demand (COD)	mg/L	APHA-5220 (B)	158	250	Not Specified
5	NH4-N	mg/L	APHA-4500 (NH3-C)	19.6	50	50
6	N-Total	mg/L	APHA-4500 (N)	24.3	Not Specified	Not Specified
7	Fecal Coliform	Nos/100ml	APHA-9215 B	59	Not Specified	Not Specified

**** End Of Report****

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J.R.
 CHECKED BY

Shreyas



INTERVAL

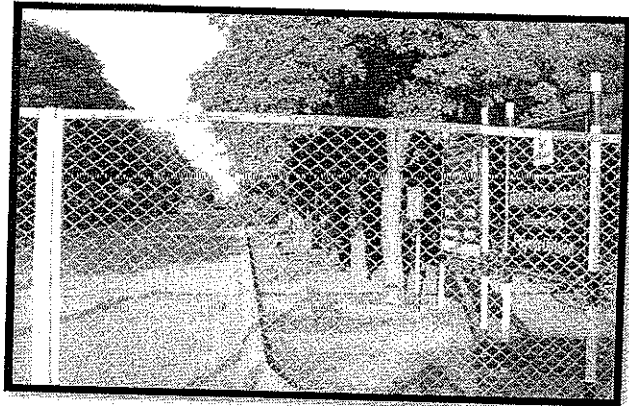
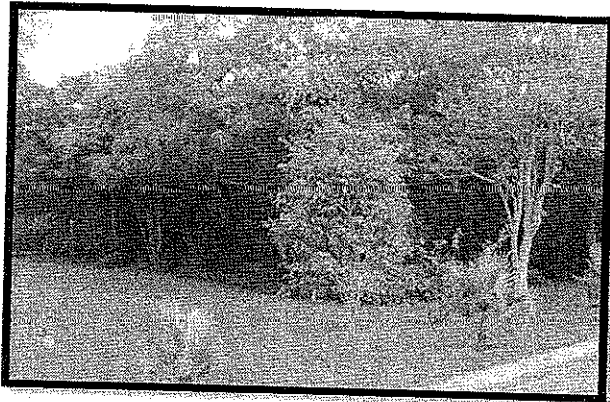
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Details of Plantation at JACPL (Fertilizer Unit, Polymer Unit & Ester gum) Gajraula

Green belt development and tree plantation is our ongoing process. Approximate 35% area of the total area has been developed as a green belt.



S. N.	Plant Name
1	Washingtonia
2	Ficus virens (Philkhan)
3	Azadirachta indica (Neem)
4	Alstonia
5	Ficus Benazamina
6	Ficus religiosa (Pipal)
7	Delonix regia (Gulmohar)
8	Cycas revoluta (Sago Palm)
9	Melia azedarach (Bakayan)
10	Ficus bengalensis (Bar)
11	Papri
12	Plumeria alba (Champa)
13	Eucalyptus
14	Psidium guajava (Amrood)
15	Morpakhuni
16	Albizia lebbeck (Siris/Jagreda)
17	Morus (Shahtoot plant)
18	Syzygium Cumini (Jamun)
19	Mango
20	Bombax malabaricum, (Semal)
21	Cycas
22	Acacia