

GPCB ID NO. 22119
August 17th, 2019

Reference: JLSL / EHS/ GPCB/ 19-20/02

To,
The Director,
Ministry of Environment, Forests & Climate Change
Regional Office (Western Region)
Kendriya Paryavaran Bhavan,
Link Road No.3, E-5, Ravi Shankar Nagar,
Bhopal - 462 016 (M.P.)

Subject: Submission of Environmental Statement Form – 'V' for the year 2018 - 19

Dear Sir,

Please find enclosed herewith Environmental Statement (Form - V) of our unit for the year 2018 – 19 along with EC compliance.

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.

Thanking you,

Yours truly,
For **JUBILANT LIFESCIENCES LIMITED**

Authorised Signatory
Gurish Khosla
Unit Head
Encl:

1. Form 'V'
2. Annexure A, B & C
3. Analysis reports of treated effluent, stacks Bore well and soil.
4. Details of R.O.Plant installation at ETP
5. Annexure D Environment Day Celebration
6. Annexure E EC/CCA compliance report

CC: Regional Officer, Gujarat Pollution Control Board, Vadodara
HO Office, Gujarat Pollution Control Board, Gandhinagar

A Jubilant Bhartia Company

OUR VALUES



Jubilant Life Sciences Limited

Block 133, Village Samlaya, Taluka Savli
Distt. Vadodara, Gujarat-391 520, India
Tel: +91 2667 251281, 251306, 251326
Fax: +91 2667 251305
www.jubl.com
savli_jubilant@jubl.com
CIN No. : L24116UP1978PLC004624

Corporate Office:

1-A, Sector 16-A,
Noida-201 301, UP, India
Tel: +91 120 2516601-11
Fax: +91 120 2516628-30

Regd Office:

Bhartiagram, Gajraula
Distt. Amroha-244223, U.P.
Tel : +91 5924 252353-60
Fax : +91 5924 252352

22/8/19
G. P. C. Board
GERI Compound,
Race Course, Vadodara.

FORM - V
(See Rule 14) *

From:

JUBULANT LIFE SCIENCES LIMITED
BLOCK – 133, SAVLI – JAROD ROAD
VILLAGE – SAMLAYA, TALUKA – SAVLI
DISTRICT – VADODARA
GUJARAT

To,

Gujarat Pollution Control Board
"Paryavaran Bhavan"
Sector – 10 A
GANDHINAGAR – 382 010

Environment Statement for the financial year ending the 31st March 2019.

PART – A

- | | | | |
|---------|-------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|
| (i) | Name and address of the owner /
Occupier of the industry operation
Or process | : | Shri Anant Pande
(Whole time Director)
1A, Sector 16A
Institutional area, Noida UP |
| (ii) | Industry Category
Primary – (STD Code)
Secondary – (STD Code) | : | 134 / SIA / IMO / 2012 |
| (iii) | Production capacity units | : | Pl. Refer Annexure "C" |
| (iv) | Year of establishment | : | February, 1997
October, 2010 (Jubilant Life Sciences Ltd) |
| (v) | Date of the last Environmental
Statement submitted | : | 25 th September, 2018
for Jubilant Life Sciences Ltd. |

Submission of Environmental statement is in accordance with the provision Rules – 14 of the Environment Protection Act, 1986 (29 of 1986) published with notification dated 22-4-1993 GSR. 386 (E) in the Gazette of India – Extraordinary – Part II section – 3 subsection (I), no. 155 dated 28-4-1993 by the ministry of Environment and Forest, Government of India; read with notification dated 13-3-1993 GSR 329(E), of the Gazette of India- Extraordinary Part –II Section – 3 subsection (No. 120 dated 13-3-1993.

Every Person carrying on an industry, operation or process requiring Consent under section – 25 of the Water (Prevention & Control of Pollution) Act, 1974 (6 of 1974) or under Section – 21 of the Air (Prevention & Control pollution) Act, 1981 or both or authorisation under the Hazardous Waste (Management and Handling) Rules, 1989 published under the Environment (Protection) Act, 1986 (29 of 1986) shall submit an Environmental Statement the financial year ending the 31st March in Form V to the concerned State Pollution Control Board on or before the thirtieth day of September every year, beginning 1993.



PART – B

Water and Raw material consumption

(1) Water Consumption M3/day

Process -	52.04	M3 /day
Cooling-	75.41	M3 / day
Domestic-	19.12	M3 / day
Gardening-	72.86	M3 /day
TOTAL-	219.43	M3 / day

The cooling water consumption includes the quantities of Jubilant Agri & consumer Products Limited also.

Name of Product	Process water consumption per unit of product output	
	During the Previous Financial year	During the current Financial year
	(1)	(2)
(1)		
(2)	Please Refer Annexure – “A”	
(3)		

(ii) Raw Material Consumption

* Name of raw material	Name of product Consumption of raw material per unit of output	
	During the Previous Financial year	During the current financial year

Please Refer Annexure – “B”

- Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise industries have to name the raw materials used.



PART – C

Pollution discharged to environment / unit of output
(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants Discharged (Mass/day)	Concentration of pollutants in discharged (Mass/volume)	Percentage of variation from prescribed standards with Reasons
(a)	Water	Analysis reports are attached herewith	
(b)	Air	Analysis reports are attached herewith	

PART – D

HAZARDOUS WASTES

(As specified under Hazardous Waste (Management and Handling) Rules, 2016)

Hazardous Waste		Total Quantity (Kgs)	
		During the previous Financial year	During the current financial year
(a)	From process	42.89 MT	56.42 MT
(b)	From pollution control facility (ETP) (from sludge drying bed)	7.334 MT	0 MT
(c)	(1) Quantity recycled or re-utilized Within the unit	-	-
	(2) Solid	-	-
	(3) Disposed to RSPL/BEIL	-	Disposed to NECL/ RSPL/BEIL

The unit has been granted CCA i.e. Consolidated Consent and Authorization for hazardous waste disposal by GPCB on March 2016, in the name of Jubilant Life Sciences limited. The CCA is valid up to 30th March 2021.



PART – E
Solid Waste

Total Quantity (Kg)			
		During the previous Financial year	During the current financial year
(a)	From process	NIL	Nil
(b)	From pollution control facility (ETP) (From sludge drying bed)	Nil	Nil
(c)	(1) Quantity recycled or re-utilised Within the unit		
	(2) Solid	Nil	Nil

PART – F

Please specify the characterisation (in terms of composition and quantity) of hazardous as well as solid and indicate disposal practice adopted for both these categories of wastes.

Process waste generated from the plant is collected in drum as well as solid bags and then disposed to RSPL, Panoli, BEIL Ankleshwar for pre-processing to co-processing. Solid waste from ETP sludge drying beds is collected into bags and then sent to Nandesari Environment Control Facility (NECL), GIDC Nandesari (Survey no. 519/P), district Vadodara. This solid waste is generated due to re-activation of biomass and part of coagulation process agent.

PART – G

Impact of pollution abatement measures taken on conservation of natural resources and on the cost of production.

1. Installation of 15 KLD Sewage treatment plant and recycle the treated water to gardening purpose.
2. Upgradation of Utility RO plant to recycle 20 KLD of RO reject in process and reduce 20 KLD water consumption in utility process
3. Installation of condensate recovery system for recycle condensate to boiler.
4. Recycling of Reactor Jacket Water in to Cooling tower.
5. Recycling of Condensate water in to cooling tower.
6. A total of 650 no's of tree i.e. Coconut- 80 nos Gulmohar - 100, Neem – 100, Saptapni-100, Saru – 15, Neel Geri 60, Palto farm – 15 Kali Haran – 10 no's tree have planted across the unit.
7. Blow down water of cooling tower has been used in scrubber of Agro waste Boiler and Hot Air generator.
8. Utility R.O. reject water is used in the scrubber of Boiler – HAG.



PART – H

Additional measure / investment proposal for environmental protection including abatement of pollution prevention of pollution.

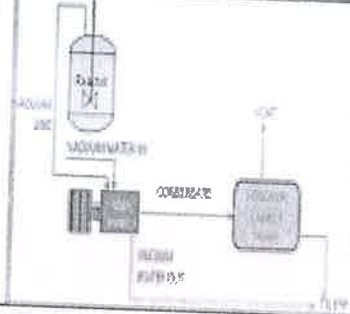
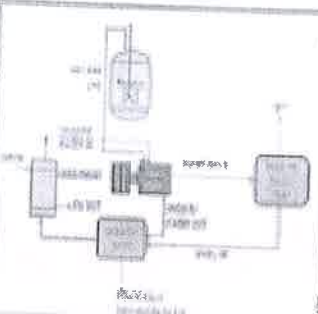

1. Unit has replaced HCL scrubber for HCL storage tank due to corrosion.
2. Installation of bag filter in dry plant to control dust nuisance in plant area.
3. The unit has installed **REVERSE OSMOSIS PLANT** (capacity 40.0 M3/Day) at the effluent treatment plant of Jubilant Life sciences Limited. The HPRO Plant is installed to for further recovery. The permeate of R.O. plant is utilized in cooling tower for makeup purpose.
4. Every year on the occasion of “**World Environment Day**” i.e. on 5th June, We organize a function at our unit. Various environmental protection related activities such as tree Plantation etc. are carried out. Details of such activities are available in Annexure – D.
5. As a part to improve the green belt of the unit, the unit personnel planted the trees near Administration Department, Security gate, Boiler – HAG Plant, Corn cob plant, ET Plant etc... A total of 500 no's of trees were planted.
6. The treated effluent of the unit is sent to a Common Effluent Treatment facility known as Enviro Infrastructure Company Limited (EICL) situated at Umraya – Padra, District Vadodara through road tankers of an authorized transporter. The treated effluent conforms the stipulated discharge norms of Gujarat Pollution Control Board.
7. As a part of Company's “**CLIMATE CHANGE MITIGATION POLICY**” special awareness sessions were conducted on tree plantation for carbon sequestration, energy and water conservation at the unit as well as nearby villages.



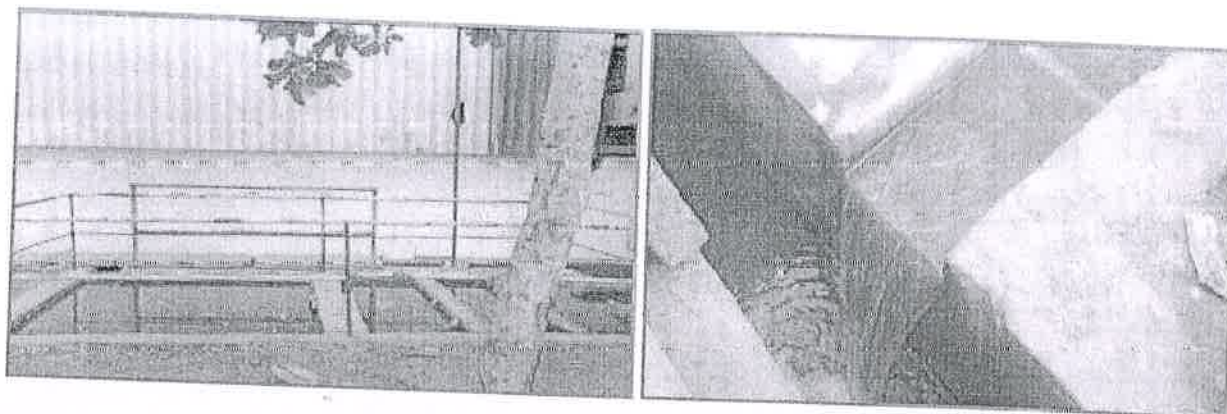
8. Some new improvement initiatives were taken in the year. The details of those initiatives is as mentioned below :

1. Installation vacuum pump at the ANU Liquid plant. The benefits of this installation is mentioned below :

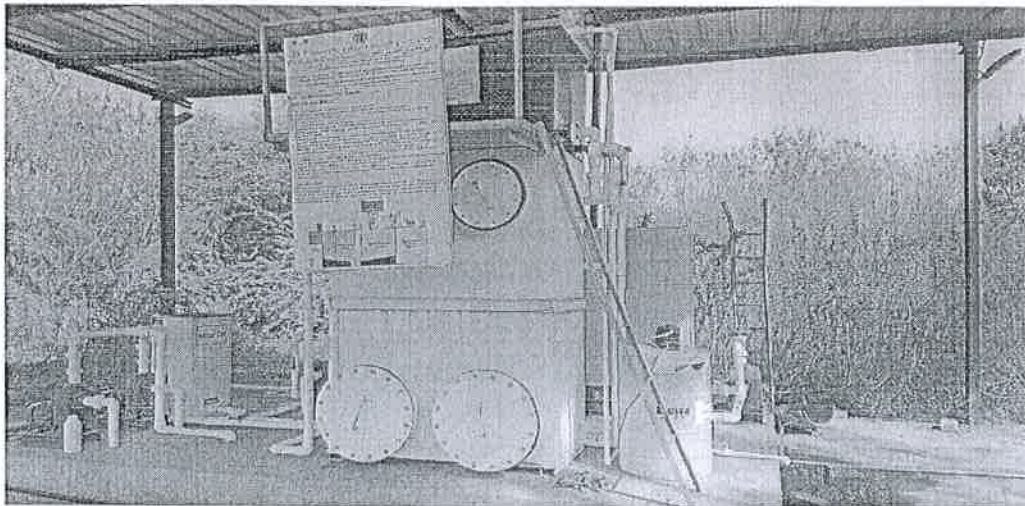
BENEFIT AFTER INSTALLATION OF NEW VACCUME PUMP

Sr. No.	Before (Schematic Diagram of Existing vaccume pump system)	After (Schematic Diagram of proposed vaccume pump system)	Remarks
1			
This will cause reduction in waste water generation 3.6 M3 / Day due to installation of new vaccume pump system at te production plant.			

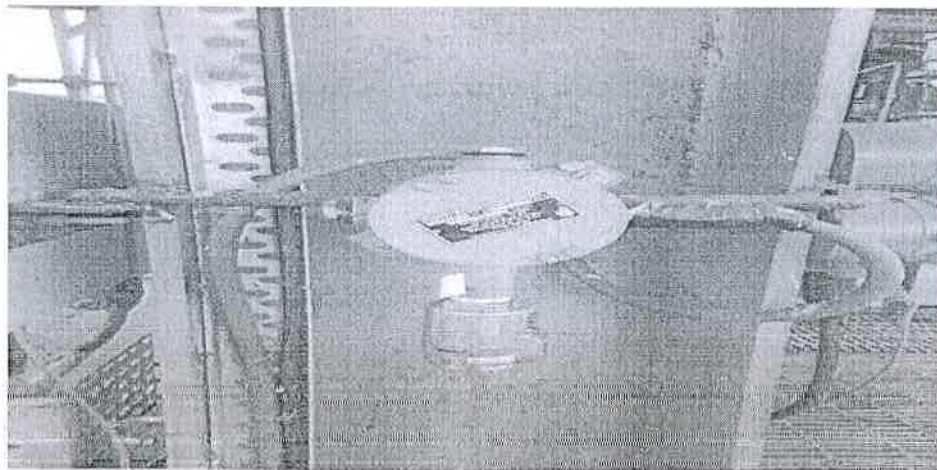
2. Installation scrubber pit at Boiler & HAG scrubber for the settlement of ash and due tha reduction of water contaminant :



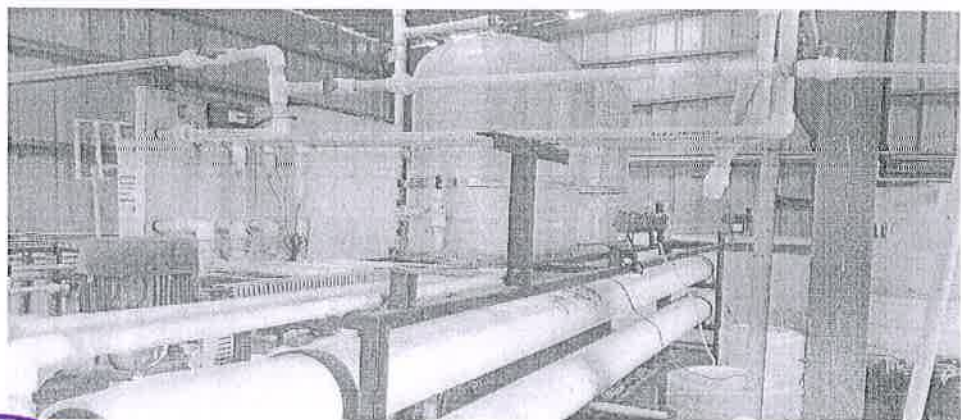
4. Installation of 15 KLD sewage treatment plant:



5. Online gas detection system for storage area and process area : 10 nos of HC detectors, EO detectors are installed in Storage and plant area.



6. RO upgradation in Utility plant to reduce 20 KLD RO rejects and 20 KL water consumption.



JUBILANT LIFE SCIENCES LIMITED

Samlaya

ANNEXURE - A

PROCESS WATER CONSUMPTION :- APR'18- MAR'19

Sr.Nc.	Products	Production Quantity MT/YR 2017-18	Production Quantity MT/YR 2018-19	Process water consumption in product M3	
				During the current financial year(2) 2017-18 M3	During the current financial year(2) 2018-19 M3
1	Ethoxylate of Nonyl phenol, Fatty Acid Fatty Alcohol, DEG & Castor oil, Choline chloride & derivatives (Aqueous Choline Chloride), Acidifier Liquid, (Choline Chloride), Ethoxylate PCL3 (Triss), Choline Chloride Crystals etc.	0	0	0	0
	Ethoxylate of Nonyl Phenol	0	0	0	0
	Fatty Acid Fatty Alcohol	0	0	0	0
	DEG & Castor Oil	0	0	0	0
	Choline Chloride & Derivatives (Aq. Acidifier Liquid	9442	9804	20217.35	19126
	Chloromequat Chloride (Choline Dichloride)	0	0	0	0
	Ethoxylated PCI 3 (Triss)	375.3	323.64	0	0
	Choline Chloride crystal etc..			0	0
	Total	9817.3	10127.64	0	0
2	Betain	0	0	0	0
3	Choline chloride Dry, (Dry Choline chloride), Acidifier Dry, Silica based dry choline etc.	9208	10600	0	0
	Silica Based Dry Choline etc.	0	0	0	0
	Total	9208	10600	0	0
4	Premix , Emulsifier Ethoxylates of Castor oil, Emulsifier lysocleithin ,Chelated minerals Liquid Formulations and tonics, Encapsulated products	1190	1019	0	0
	Emulsifier Ethoxylates of Castor Oil,	0	0	0	0
	Emulsifier Lysocleithin	0	0	0	0
	Chelated Minerals	0	0	0	0
	Liquid Formulation anc Tonic	0	0	0	0
	Encapsulated Products	0	0	0	0
	Total	1190	1019	0	0
5	Carrier	2624	2850	0	0
6	EOCO2 (Ethylene Oxide and Carbon Dioxide mixture)	325	305.54	0	0
7	Oil Field Chemicals	0	0	0	0



JUBILANT LIFE SCIENCES LIMITED

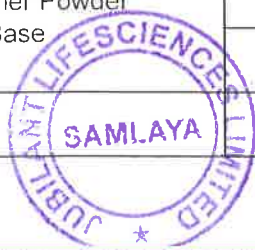
Samlaya

ANNEXURE - B

PRODUCTION DATA AND RAW MATERIAL CONSUMPTION

FROM :- APR'18 - MAR'19

Sr. No.	Name of Finished Products	Production Quantity MT/YR Year 2017-18	Production Quantity MT/YR Year 2018-19	Name of The Raw Materials	Consumption of Raw Material	
					During the current financial year (MT) 2017-18	During the current financial year (MT) 2018-19
1	Liquid Choline Chloride (Feed grade)	9442	9804	A) Ethylene Oxide	2455	2549
				B) Tri methyl amine	3116	3235
				C) HCl	6345	6588
2	Dry Choline Chloride	9817.3	10600	A) Liquid Choline Chloride	7981	8618
				B) Cob carrier	3888	4198
3	Corn cob carrier	2624	2850	A) Corn cob	1706	1853
4	Animal Feed Premix	1190	1019	A) Trace mineral (feed)	774	662
				B) Feed nutrients	774	662
5	Ethylene Oxide and Carbon Dioxide mixture	325	306	A) Ethylene Oxide	66	62
				B) Carbon Dioxide	259	244
6	Chlormequat Chloride (Choline Dichloride)	375	325	A) Ethylene Dichloride	188	163
				B) Tri methyl amine	113	98
				C) Water (DM)	75	65
7	Oil Field Chemicals	—	—	A) DM Water	—	—
				B) Max. Quat - 50	—	—
				C) RS - 0579	—	—
				D) RS - 9129	—	—
8	Ethoxylated PCI3 (Triss)	—	—	—	—	—
9	Ethoxylates of Nonyl phenol, Fatty Acid, Fatty Alcohol, DEG and Castor Oil	—	—	A) Nonyl phenole	—	—
				B) Ethylene Oxide	—	—
10	Acidifier Liquid	0	0	A) Formic Acid	0	0
				B) Propionic Acid	0	0
				C) Ammonia Solution	0	0
11	Acidifier Powder Dry Base	0	0	A) Acidifier Liquid	0	0
				B) Corn Cob Powder	0	0
				C) Rice Hull Powder	0	0



JUBILANT LIFE SCIENCES LIMITED**ANNEXURE - C****LIST OF CONSENTED QUANTITIES OF FINISHED PRODUCTS**

Sr. No.	Name of Product	Quantity (TPM)
1	Ethoxylate of Nonyl phenol, Fatty Acid Fatty Alcohol, DEG& Castor oil, Choline chloride& derivatives (Aqueous Choline Chloride), Acidifier Liquid, Chloromequate Chloride (Choline Dichloride), Ethoxylate PCL3 (Triss), Choline Chloride Crystals etc.	1700
2	Betain	500
3	Choline chloride Dry, (Dry Choline chloride), Acidifier Dry, Silica based dry choline etc.	2440
4	Premix, Emulsifier Ethoxylates of Castor oil, Emulsifier lysolecithin ,Chelated minerals, Liquid Formulations and tonics, Encapsulated products	3550
5	Carrier	850
6	EOCO2 (Ethylene Oxide and Carbon Dioxide mixture)	300
7	Oil Field Chemicals	120
	Total	9460



WORLD ENVIRONMENT DAY 5TH JUNE, 2019

EHS - Savli

THEME: CLEARING THE AIR
COMBATTING AIR POLLUTION



JUBILANT
Aster & Consumer Products



5th JUNE WORLD ENVIRONMENT DAY 2019 ITS ALL ABOUT AIR POLLUTION

WORLD ENVIRONMENT DAY 5TH JUNE, 2019

World Environment Day is an annual event that is aimed at being the biggest and most widely celebrated global day for positive environmental action. World Environment Day activities take place all year round and climax on 5 June every year, involving everyone from everywhere.

World Environment Day is hosted by different countries for the official celebration this year China will be the host for World Environment Day 2019. As we cannot stop breathing, but we can change the quality of air which we are breathing. Approx millions of people die due to "Air Pollution", on World Environment 2019 the government, industries, communities, and individuals should come together to explore green technologies and renewable energy to improve the quality of Air and make our environment Pollution free.

As a part of worldwide celebrations, we at JUBILANT are celebrating World Environment Day on 5th June 2019 and Environment Week from 3rd June to 8th June, 2019.

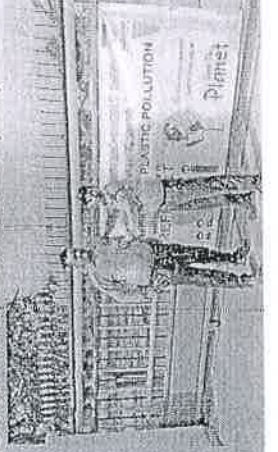
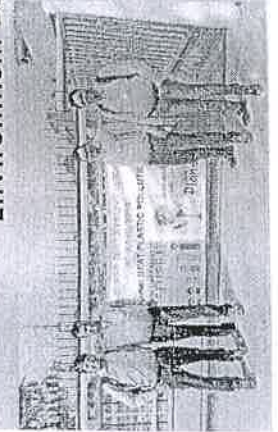
All are welcome to deliver a talk on Environmental Protection on 5th June during the Environment Day Celebration.



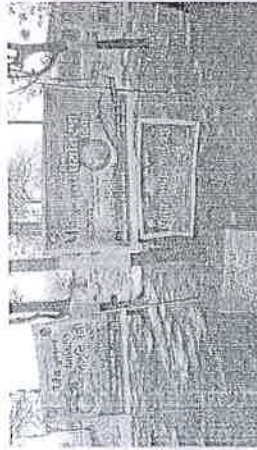
WORLD ENVIRONMENT DAY 5TH JUNE, 2010



Environment Badge distribution and Banner Display



WORLD ENVIRONMENT DAY 5TH JUNE, 2019



Environment plantation in presence of
Forest officer- Mr Solanki, Savli

Environment awareness message given by
Forest officer,
Gunish Khosla- Unit Head -JLL

Environment Pledge - Viral Postagia



Environment awareness speech

Forest officer- Savli
Viral Postagia- EHS
Gunish Khosla- Unit Head -JLL
Neeraj Tripathi- HR Head



WORLD ENVIRONMENT DAY 5TH JUNE, 2019



Environment day tree plantation:

Tree Plantation- 500 nos

1. Nilgiri Plant- 200 nos
2. Saplapant- 100 nos
3. Neem -100 nos
4. Gulmohar- 100 nos



WORLD ENVIRONMENT DAY 5TH JUNE, 2018



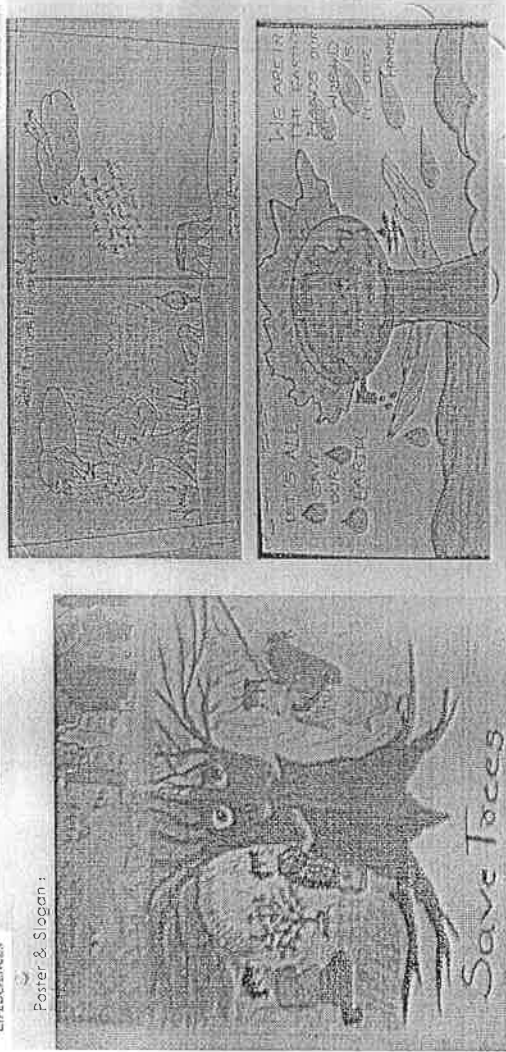
Environment day tree plantation:



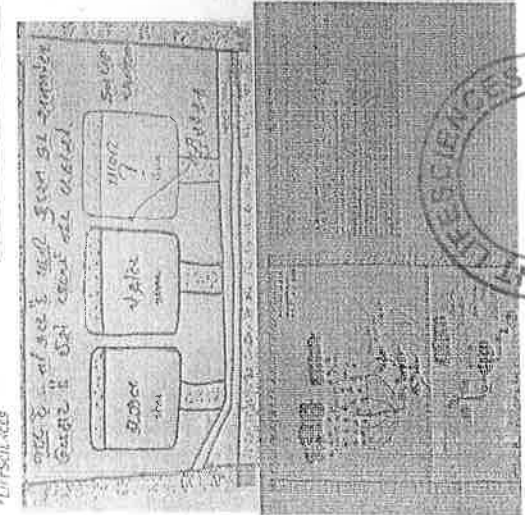
Winners of Various Event

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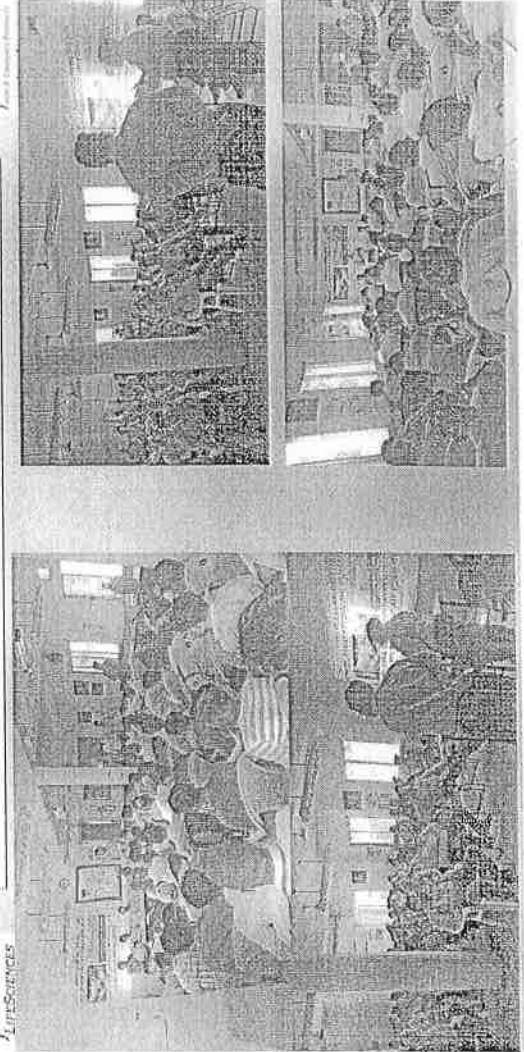
SUBSTANT
LIFESCIENCES



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LIFE Sciences



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WORLD ENVIRONMENT DAY 2019



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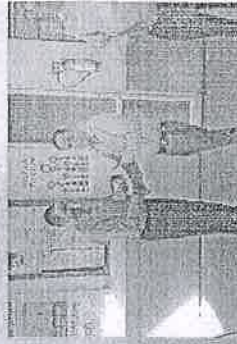


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THANKS



COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCES

[Compliance Period: April 2018 to March 19]



COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

Project : Expansion of existing and new synthetic Organic Chemicals Manufacturing Facility at Block 133 (P), Village Samlaya, Taluka Savli, District Vadodara, Gujarat, India by JUBILANT LIFE SCIENCES LIMITED.

Reference : MoEF LETTER NO. . J-11011/241/2011-IA II (I) DTD. 11th Aug 2014

Products : Various Synthetic organic chemicals

S. No.	Product Falling under one group	Name of the Product	Existing Production as per GPCB Consent MTPM	Proposed Additional Production, MTPM	Total Proposed Production after Expansion, MTPM
EC Products					
1	Ethoxylate of Nonyl phenol, Fatty Acid Fatty Alcohol, DEG & Castor oil, Choline chloride & derivatives (Aqueous Choline Chloride, Acidifier Liquid, Chloromequate Chloride (Choline Dichloride), Ethoxylate PCL ₃ (Triss), Choline Chloride Crystals etc.	Ethoxylate of Nonyl phenol, Fatty Acid Fatty Alcohol, DEG & Castor oil	200.00	0.00	3400.00
2		Liquid Choline Chloride 75%	667.00	1333.00	
3		Acidifier Liquid	40.00	460.00	
4		Chloromequate Chloride (Choline Dichloride) 50% to 67.5%	150.00	450.00	
5		Ethoxylates PCI3 (Triss)	10.00	40.00	
6		Choline Chloride Crystals	0	50	
7	Betaine	Betaine	0	500	500.00
8	2 - Vinyl Pyridine	2 - Vinyl Pyridine	0	500	500.00
Total for EC Product			1067	3333	4400



S. No.	Product Falling under one group	Name of the Product	Existing Production as per GPCB Consent MTPM	Proposed Additional Production, MTPM	Total Proposed Production after Expansion, MTPM
Non EC Product					
9	Choline chloride Dry, (Dry Choline chloride, Acidifier Dry, Silica based dry choline etc.	Dry Choline Chloride	833	1167	3000
10		Acidifier (Dry Base)	50	450	
11		Silica 50%	0	500	
12	Premix (Animal Feed - Premix, Feed Emulsifier Ethoxylates of Castor oil, Liquid Formulations and tonics etc.	Animal Feed - Premix	416	834	3550
13		Feed Emulsifier Ethoxylates of Castor oil	0	400	
14		Feed Emulsifier lysolecithin	0	400	
15		Chelated minerals for feed and food applications	0	500	
16		Liquid Formulations and tonics	0	500	
17		Encapsulated products for livestock, poultry and swine	0	500	
18	Carrier	Corn Cob Carrier	333	517	850
19	EOCO ₂ (Ethylene Oxide & Carbon Dioxide)	EOCO ₂ (Ethylene Oxide & Carbon Dioxide)	150	150	300
20	Oil Field Chemicals	Oil Field Chemicals	120	0	120
Total Non EC Product			1902	5918	7820
Total			2969	9251	12220



During the stated compliance period, we have obtained NOC vide Order No. 54431 Ref. No. GPCB/CCA-VRD-267(6)/ID:22119/161629 dated 03.10.2013 and Amd. 54431 Ref. No. GPCB/CCA-VRD-

267(7)/ID:22119/32184 valid up to 07.10.2017.

Detail of Production during the compliance period is enclosed as Annexure-A.

Period : APRIL 2018 TO MARCH 19

COMPLIANCE REPORT OF CTE AMENDMENT, ORDER NO. 54431, DATED 03/10/2013

Sr. No.	Consent Conditions					Compliance Status
	In first paragraph address of industries is amended and shall be read as Plot No. 133, (Survey No. 133 (part), 134, 135, 136, 137, 138, 207, 208, 129, 130, 131, 139, 132 (part), 141, 201, 202, 204, 206, 144, 203, 140, 147, 148) vill; Samlaya, Tal: Savli, Dist Vadodara					Noted
	Product list mentioned in CTE shall be replaced and read as below:					Complied
Sr. No.	Products falling under one group	Products	Earlier Quantity (TPM)	Additional Quantity (TPM)	Total Quantity (TPM)	
➤ EC Products :						
1	Ethoxylate of Nonyl phenol, Fatty Acid Fatty Alcohol, DEG& Castor oil, Choline chloride & derivatives (Aqueous	Ethoxylate of Nonyl phenol, Fatty Acid Fatty Alcohol, DEG& Castor oil	200.00	0.00	3400.00	
2	Choline Chloride, Acidifier Liquid,	Liquid Choline Chloride 75%	667.00	1333.00		
3	Choline Chloride, Acidifier Liquid,	Acidifier Liquid	40.00	460.00		
4	Chloromequat Chloride (Choline Dichloride),	Chloromequat Chloride (Choline Dichloride) 50% to 67.5%	150.00	450.00		
5	Ethoxylate PCL ₃ (Triss),	Ethoxylates PCI ₃ (Triss)	10.00	40.00		
6	Choline Chloride Crystals etc.	Choline Chloride Crystals	0.00	50.00		



Sr. No.	Consent Conditions						Compliance Status												
		Carbon Dioxide)	Carbon Dioxide)																
	20	Oil Field Chemicals	Oil Field Chemicals	120	0	120													
	Total for Non- EC Products			1902.00	5918.00	7820.00													
	Gross Total			2969	9251	12220													
	The following condition is added as specific condition: The applicant shall comply with the terms and conditions stipulated by MOEF vide letter F. No. J-11011/241/2011-A(11)1 dated 11/08/2014																		
	The condition no. 1 under the Air Act is amended for addition of fuel as under:																		
	<table><tr><th>Sr.No.</th><th>Fuel</th><th>Quantity</th></tr><tr><td>1</td><td>HSD</td><td>2060 lit/hr</td></tr></table>						Sr.No.	Fuel	Quantity	1	HSD	2060 lit/hr							
Sr.No.	Fuel	Quantity																	
1	HSD	2060 lit/hr																	
	Condition No. 2 under the Air Act is amended for additional flue gas emission and flue gas stack shall conform to the following standards:																		
	<table><tr><th>Sr. No.</th><th>Stack attached to</th><th>Stack height</th><th>APCM</th><th>Parameter</th><th>Permissible limits</th></tr><tr><td>3</td><td>DG set (1 No.) (2000 KVA) (stand by)</td><td>30 m</td><td>With acoustic system</td><td>PM,SO2,N O2</td><td>150 mg/Nm3,100 ppm,50 ppm</td></tr></table>						Sr. No.	Stack attached to	Stack height	APCM	Parameter	Permissible limits	3	DG set (1 No.) (2000 KVA) (stand by)	30 m	With acoustic system	PM,SO2,N O2	150 mg/Nm3,100 ppm,50 ppm	
Sr. No.	Stack attached to	Stack height	APCM	Parameter	Permissible limits														
3	DG set (1 No.) (2000 KVA) (stand by)	30 m	With acoustic system	PM,SO2,N O2	150 mg/Nm3,100 ppm,50 ppm														
6	The following conditions are added as Condition no. 9 under the "Conditions under the Air Act" DG set standard: The flue gas emission through stack attached to DG Set shall confirm the following : (a) The minimum height of stack provided shall be $H = h+0.2 (KVA)^{0.5}$ H = Stack height in m h = building height in which DG installed (b) Noise from DG shall be controlled by acoustics in the room (c) The acoustic enclosure or acoustic treatment of the shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards whichever is on the higher side The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room and the averaged (d) The DG set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A) (e) All efforts shall be made to bring down the noise level due to the DG set outside the premises within the ambient noise requirements by proper siting and control measures (f) Installation of DG set must be strictly in compliance with the						Complied												

Sr. No.	Consent Conditions	Compliance Status																								
	recommendations of the DG Set manufacture (g) A proper routine and preventive maintenance procedure for the DG set should be set and followed																									
7	<p>The condition no. 4 under air act is amended for additional process gas emission through stack /vent of attached reactors ,process vessels and process gas emission shall confirm the following standard:</p> <table><tr><th>Stack no</th><th>Stack attached to</th><th>Stack height (m)</th><th>APCM</th><th>Parameter</th><th>Permissible limit</th></tr><tr><td>1.</td><td>Combined stack attached to 3 nos. Of blowers</td><td>13</td><td>Cyclone separator ,bag filter and dust collector</td><td rowspan="4">PM</td><td rowspan="4">150 mg / Nm3</td></tr><tr><td>2.</td><td>Universal Grinder-1 (Premix Plant)</td><td>9</td><td>Cyclone separator ,bag filter</td></tr><tr><td>3.</td><td>Dry Exhaust Air (Dry Plant existing)</td><td>9</td><td>Multi Cyclone Separator</td></tr><tr><td>4.</td><td>Dry Exhaust Air (Dry Plant proposed)</td><td>9</td><td>Multi Cyclone Separator</td></tr></table>	Stack no	Stack attached to	Stack height (m)	APCM	Parameter	Permissible limit	1.	Combined stack attached to 3 nos. Of blowers	13	Cyclone separator ,bag filter and dust collector	PM	150 mg / Nm3	2.	Universal Grinder-1 (Premix Plant)	9	Cyclone separator ,bag filter	3.	Dry Exhaust Air (Dry Plant existing)	9	Multi Cyclone Separator	4.	Dry Exhaust Air (Dry Plant proposed)	9	Multi Cyclone Separator	Complied
Stack no	Stack attached to	Stack height (m)	APCM	Parameter	Permissible limit																					
1.	Combined stack attached to 3 nos. Of blowers	13	Cyclone separator ,bag filter and dust collector	PM	150 mg / Nm3																					
2.	Universal Grinder-1 (Premix Plant)	9	Cyclone separator ,bag filter																							
3.	Dry Exhaust Air (Dry Plant existing)	9	Multi Cyclone Separator																							
4.	Dry Exhaust Air (Dry Plant proposed)	9	Multi Cyclone Separator																							



EC COMPLIANCE REPORT OF GRANTED LETTER F. NO. J- 11011/241/2011- IA

II(I), DATED 11/08/2014

Sr. No.	EC CONDITION	COMPLIANCE STATUS
A	Specific condition	
i	National emission standard for organic chemicals manufacturing industry issued by the Ministry vide G.S.R. 608(E) dated 21 st July, 2010 and amended time to time shall be followed by the unit.	Noted & Agreed
ii	Bag filter along with stack of adequate height shall be provided dust / agro waste fired boiler as per GPCB guideline	Complying (Ventury scrubber is working efficiently)
iii	Ambient air quality data shall be collected as per NAAQES, standards notified by the Ministry vide G.S.R. No. 826 (E) dated 16 th September, 2009. The levels of PM ₁₀ , SO ₂ , NO _x , CO and VOC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and Gujarat Pollution Control Board (GPCB).	Noted & Complying
iv	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the GPCB.	Noted & Complying
v	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Complying
vi	Total fresh water requirement from ground water source shall not exceed 355.2m ³ /day and prior permission shall be obtained from the CGWA.	Complying (Permission is obtained from CGWA, New Delhi)
vii	Industrial effluent shall not exceed 80m ³ /day. Industrial effluent will be treated in ETP and treated effluent shall be discharged to CETP after conforming to the standards prescribed for the effluent discharge and obtaining	Complying