

Pre-Feasibility Report

Proposal for Amendment in Environmental Clearance

[Including the production of Anhydrous Alcohol (Ethyl alcohol - 99.8%) from Ethyl Alcohol (94%) produced in-house and purchased from open market without change in production quantity & No increase in Pollution Load]

At

**Nimbut Nira, Tehsil – Baramati,
District – Pune**

**By
M/s. Jubilant Life Sciences Ltd.**

Dec, 2017

1. Executive Summary

Jubilant Life Sciences Ltd. (JLSL) at Nira is operating industry at Gut.No.25,26,27,28,32,45, Village – Nimbut Nira, Tehsil – Baramati, District – Pune.

MoEFCC had in 2008 granted an Environmental clearance for expansion of Molasses distillery, Synthetic Organic Chemicals and a Coal Based power plant. Further, in the EC was amendment for product mix change in 2011. The project is partly commissioned for Synthetic Organic Chemicals and the molasses Distillery, due to change in market dynamics and availability of Molasses for distillery. Presently, the Basic engineering for the reminder of the project, Molasses Distillery and Coal based power plant are under-progress.

Now, to cater to the requirement of the market demand, modernization of existing facility with no increase in production capacity and pollution load, an EC amendment is proposed to include production of Anhydrous Alcohol (Ethyl Alcohol - 99.8%) from Ethyl Alcohol (94%) produced in-house and purchased from open market.

The existing production of Anhydrous Alcohol (99.8%) is 100 KLD as per the consent to operate obtained from MPCB (**Enclosure 1**). The process of anhydrous alcohol production involves removal of moisture from ethyl alcohol (94%). The moisture is removed by making vapours of alcohol in evaporation column and passing through the molecular sieve bed to obtain Anhydrous Alcohol (Ethyl alcohol - 99.8%).

There is no discharge of effluent from the process as the liquid effluent generated is proposed to be recycled back. Water is sourced from River Nira through Irrigation department. There is no increase in water requirement beyond the present approved quantities.

Additional manpower will not be required. Existing manpower will handle the production of Anhydrous Alcohol (Ethyl Alcohol – 99.8%) in the existing facility. Thus, additional facilities are not required.

The existing industry is operating as per the consent to operate obtained from the MPCB and all the environmental mitigation measures are implemented.

2. Introduction of Project/Back-ground information

2.1 Identification of the project and project proponent :

Project

Amendment in existing Environmental Clearance to include production of Anhydrous Alcohol (Ethyl alcohol - 99.8%) manufactured from Ethyl Alcohol (94% Conc.) produced in-house and purchased from open market. Proposed amendment is within the existing facility. Project location is at Gut no Gut.No.25,26,27,28,32,45, Village – Nimbut Nira, Tehsil – Baramati, District – Pune.

Details of existing and proposed amendment are given in Table 1.

Table 1 : Details of existing and proposed products

Sr. No.	Product	UOM	Capacity before 2008	Additional Capacity as per Dec'2008 EC (expansion)	Capacity as per EC amendment Dec'2010 for product mix change	Total present capacity as per EC	Present status	Proposed EC Amendment	Total After EC Amendment
1	Ethyl Alcohol	KLD	90	110	110	200	100 KLD Ethyl Alcohol (94%) & Ethyl Alcohol (99.8% - Anhydrous Alcohol) in CTO (Note -1)	200 KLD Ethyl Alcohol (94%) & Anhydrous Alcohol (Ethyl alcohol - 99.8%) (Note II)	
2	Acetaldehyde	TPD	83	100	0	83	Commissioned (Product Mix)	No change	No change 30,295 TPA
3	Acetic Acid	TPD	103	100	0	103	Commissioned (Product Mix)	No change	No change 37,595 TPA
4	Acetic anhydride	TPD	52	0	125	177	Commissioned	No Change	No change 64,605 TPA
5	Ethyl Acetate	TPD	111	136	136	247	Commissioned	No Change	No change 90,155 TPA
6	Carbon Dioxide	TPD	20	60	60	80	(Part Commissioned) 50 TPD in CTO	No Change	No change 29,200 TPA
7	Vinyl Acetate Monomer	TPD	45	0	0	45	Commissioned (Product Mix)	No Change	No change 16,425 TPA

8	Power	MW	0	12	12	12	Not started (Basic engg. Under progress)	No Change	No Change (12 MW)
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Note – I : Obtained Consent to Establish/ Consent to Operate from MPCB for 100 KLD Anhydrous Alcohol (Ethyl alcohol - 99.8%) (Consent dtd 17.01.2017 and renewed on 06.12.2017)

Note – II : We propose to manufacture Anhydrous Alcohol (Ethyl alcohol - 99.8%) from in-house generation of ethyl alcohol and purchased from open market.

(Manufacturing of Anhydrous Alcohol (99.8%); through Molecular Sieve Bed Technology, does not increase the effluent load).

Project Proponent:

Name : M/s Jubilant Life Sciences Ltd.

Registered Address : M/s. Jubilant Life Sciences Ltd.; Bhartiagram, Gajraula;
District Amroha (UP) -244 223

Plant Address: M/s Jubilant Life Sciences Ltd.; Gut.No.25,26,27,28,32,45,
Village – Nimbut Nira,; Tehsil – Baramati, District – Pune.;
Maharashtra - PIN

2.2 Brief Description of Nature of Project

The project is Modernization of production facility to produce Anhydrous Alcohol (Ethyl alcohol - 99.8%) from Ethyl Alcohol (94% Conc.) produced In-house and purchased from open market, with no increase in production capacity and pollution load.

There is no discharge of effluent from the process as the liquid effluent generated is proposed to be recycled back.

2.3 Need for the Project and Its importance to the Country and Region

Company has existing operation of 100 KLD Anhydrous Alcohol and market demand is increasing. Company being one of the major supplier of anhydrous alcohol has decided to increase the production of anhydrous alcohol to meet the market demand, where supplies are falling short against the mandated volumes of anhydrous alcohol for blending programme.

2.4 Demand Supply Gap

Supplies are falling short against the mandated volumes of anhydrous alcohol for blending programme. In tender 16-17, against the required quantity of 266 Crore Litre, the ethanol players in India has supplied only 65 Crore Litre.

2.5 Imports V/s Indigenous Production

As per the Ethanol Blending Programme (EBP) in India, imported alcohol is not allowed for blending. The Supplies should be done only through domestically produced ethanol. Thus need to enhance the production capacity for covering up the gap.

2.6 Export Possibility :

Export possibility is not applicable here because of deficit ethanol supplies within the domestic market.

2.7 Domestic/ export Market

Domestic market of anhydrous alcohol for Ethanol Blended Petrol (EBP) in India:

	2016-17 (Dec to Nov)	2017-18 (Dec to Nov)
Required quantity	266 Crore Litre	313 Crore Litre
Allocated quantity	81 Crore Litre	140 Crore Litre
Supplied quantity	65 Crore Litre	--

2.8 Employment generation (Direct and indirect) due to the project

There is no direct increase in the employment generation as the existing manpower will be adequate for production in the proposed plant.

The indirect employment will be generated for the contractors and transporters.

3. Project Description

3.1 Type of project including interlinked and interdependent projects.

Proposed Anhydrous Alcohol (99.8%) will be manufactured from Ethyl alcohol (94%) produced in-house Alcohol and purchased from open market. The in-house alcohol plant (distillery) has environmental clearance obtained dated 23.12.2008 with subsequent amendment on 21.12.2010.

3.2 Location

The project is located at village Nimbut Nira, Tehsil – Baramati, District – Pune of Maharashtra State. The site is in rural surrounding and is about 0.5 Km from Nira railway station. Nearest highway – NH4 is about 22 Km and Pune – Baramati road is 0.5 Km.

Site and Surrounding is given in Table 2.

Table 2 : Site and surrounding details

Sr. No.	Particulars	Details
1	Lattitude	18 ⁰ 5' 50" N
2	Longitude	74 ⁰ 13' 5" E
3	Elevation above mean sea level	550 m AMSL
4	Nearest Highway	NH-4 (22 Km)
5	Nearest railway Station	Nira (0.5 km)
6	Nearest Airport	Pune Airport, Lohegaon (70 Km)
7	Nearest River	Nira River (0.5 Km)

The general location map is enclosed as **Annexure 2 of Form 1**.

3.3 Details of Alternate Sites Considered

The proposed project is amendment of EC within the same plant boundary. Additional land will not be required. Therefore, alternative sites are not examined.

3.4 Size or magnitude of operation

There is no increase in the magnitude of land use or production quantities of earlier EC. The proposed amendment is for production of Anhydrous Alcohol (Ethyl alcohol - 99.8%) from Ethyl Alcohol (94%) manufactured in-house and purchased from Open market.

3.5 Project description with project details

The proposed amendment is for production of Anhydrous Alcohol (Ethyl alcohol - 99.8%) from Ethyl Alcohol (94%) manufactured from in-house and purchased from Open market.

Process Description:

Molecular Sieve Dehydration Unit (MSDH) consist of a Distillation column system and a Molecular sieve dehydration system. MSDH has following operation units:

Evaporator Column and Feed preheating:

The main purpose of Evaporator column is to vaporize the 94% ethanol liquid feed and redistill 75 to 85 % ethanol liquid stream produced during regeneration of the molecular sieve beds.

Ethyl Alcohol (94 %) is pumped from Feed tank to dehydration section. Ethyl Alcohol (94 %) is preheated in Feed preheater with the help of product vapours and then fed to top tray of Evaporator Column. The Evaporator Column operates under pressure of 1 kg/cm²g and temp 98⁰C. Energy is supplied to the Evaporator Column through Evaporator Column Re-boiler with condensing steam on shell side. The steam condensate is recycled back to the boiler.

Molecular Sieve Adsorption Bed and Feed Superheating:

Overhead feed alcohol vapours from the Evaporator Column are then passed through Superheater to superheat vapour above condensation temp. Energy for superheating is supplied by condensing steam on shell side of the Superheater. Superheated hydrous alcohol vapours are sent to twin Adsorbent Beds. The twin Adsorbent Beds operate in cyclic manner. Twin beds are provided to allow bed regeneration in continuous operation. One bed is in line while the other is in regeneration mode.

Regeneration of MS bed takes place every 5 minutes. The Adsorbent Bed will adsorb moisture present in feed vapours and product alcohol vapours are obtained from bottom of the bed. During regeneration mode, vacuum is applied to the bed under regeneration.

Product Alcohol

The Product alcohol vapors are then passed through Product Condenser and are condensed with the help of cooling water. Condensed product alcohol is collected in

product receiver. The Product alcohol from Product Receiver is pumped to Product Cooler where it is cooled with the help of cooling water and then sent for storage.

Regeneration cycle and Vacuum creation

A small amount of product alcohol vapours are purged through the bed in regeneration mode under high vacuum, to prepare the desiccant for cycle changeover when this bed goes online. The purged alcohol vapours act as carrier for removal of moisture from the bed. These alcohol vapours along with moisture are obtained from the top of bed. These alcohol water vapours (regeneration stream) are condensed in Regeneration Condenser.

The regeneration stream coming from the Regeneration Condenser is pumped, preheated in Regeneration Preheater and fed to the Evaporator Column for recovery of alcohol.

Moisture present in feed alcohol is removed from the bottom of the Evaporator Column in the form of spent lees. After one cycle is over, the beds are interchanged, i.e. the bed in line mode will be switch over to regeneration mode and the bed on regeneration mode will be switch over to inline mode, with the help of automation system.

The process flow diagram is given below as **Figure -1.**

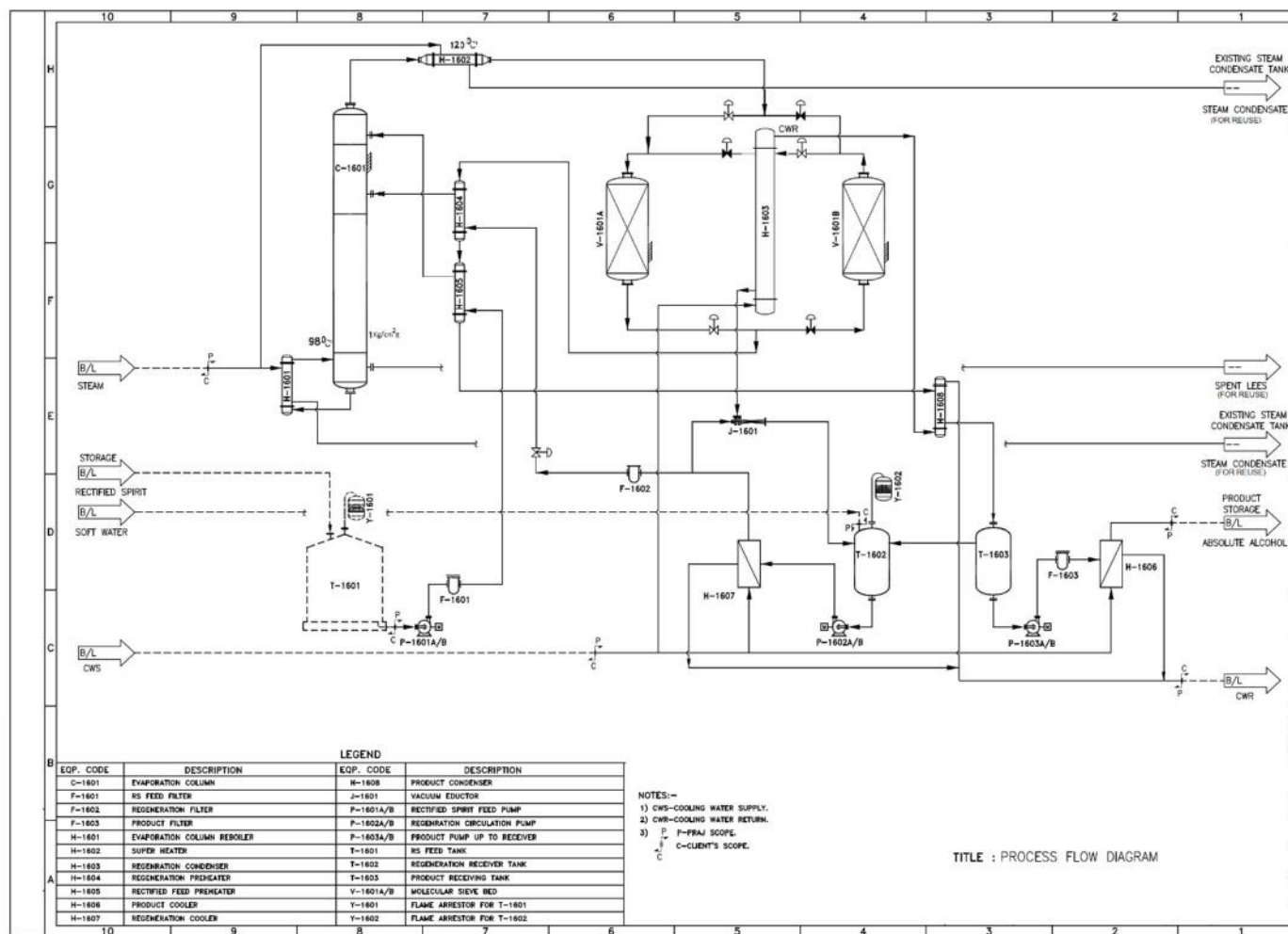


Figure – 1 : Process flow Diagram

3.6 Raw Material

The raw material required for the production of 100 KLD anhydrous alcohol is 106 KLD of Ethyl Alcohol (94%). This shall be sourced from the in-house production or shall be purchased from the market.

The sourcing of raw material and finished product shall be done through tanker.

The material balance of the proposed anhydrous alcohol production is given in **Figure – 2**.

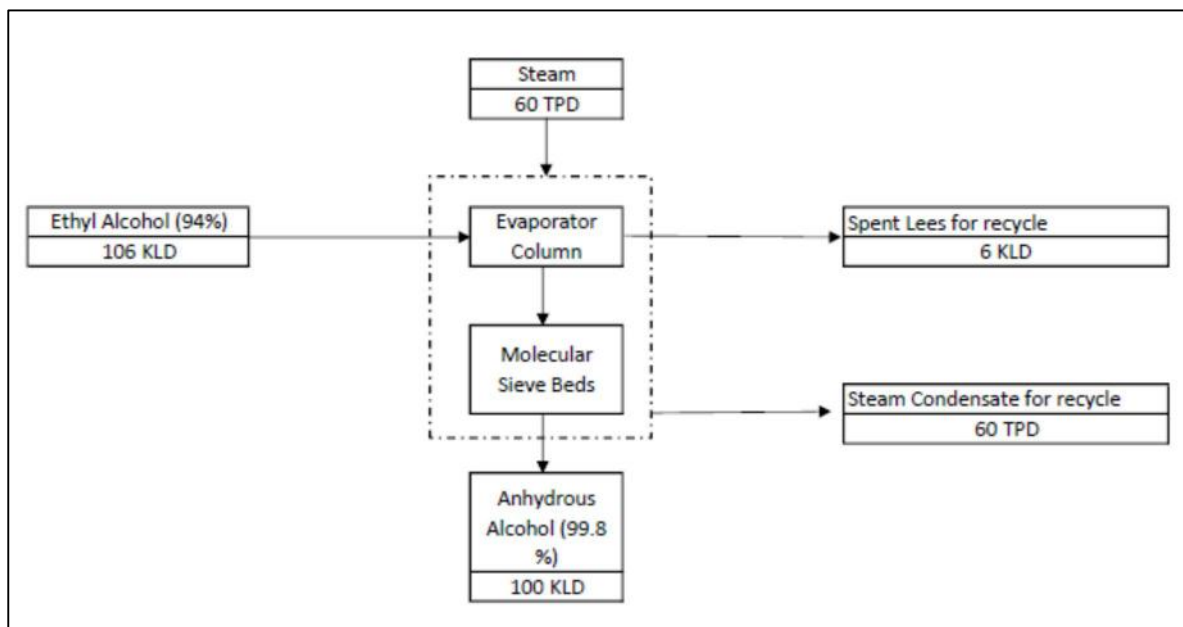


Figure – 2 : Material Balance

3.7 Resource optimization/Recycling and reuse

The process of manufacture of anhydrous alcohol involves use of steam for heating the alcohol at evaporator column. The spent lees is generated at the bottom of evaporator column as the moisture is removed from the ethyl alcohol at this stage. The spent lees generated is recycled.

3.8 Availability of water, its source/ power requirement and source

The water for the industry is sourced from River Nira. JLSL is in agreement with Water Resource Department, Govt of Maharashtra (Pune Irrigation Division) for sourcing 1.09 Mm³ water per year from River Nira (**Enclosure – 2**).

Water is sourced from River Nira through Irrigation department. There is no increase in water requirement beyond the present approved quantities.

Power Supply for the industry is being supplied by Maharashtra State Electricity Distribution Corporation Ltd. (MSEDCL).

3.9 Quantity of waste to be generated (liquid and solid)

There is no discharge of effluent from the process as the liquid effluent generated is proposed to be recycled back. Spent Molecular sieves would be generated once in 10 years and shall be disposed to TSDF.

4. Site Analysis

4.1 Connectivity

The site is well connected by road, rail and airways.

Roads: The site is abutting Pune-Baramati Road and NH4 is at a distance of 22 Km

Rail : Nira Railway Station is at 1.5 Km

Airport : Pune Airport, Lohegaon at 70 Km.

4.2 Land form, land use and land ownership

The project land is under the ownership of the Proponent. The site is under industrial operation since 1963.

4.3 The topography

The topography of the project site is flat terrain.

4.4 Existing land use pattern

Existing land use pattern of the project land is industrial..

4.5 Existing infrastructure

Infrastructure required for industrial set-up is already developed. Road accessibility to the site is through Pune-Baramati road abutting the property boundary and nearest National Highway is NH-4 is at a distance of 22 Km. Industry is operating and infrastructure within the layout is well developed. The industry has its captive township for around 500 population. Internal roads, parking spaces for vehicles, drinking water facilities and sanitary facilities within the plant are already developed.

4.6 Soil Classification

The soil of the project site is Clay loam.

4.7 Climatic data from secondary sources

Annual max temp	33.5 °C
Annual Min temp	17.5 °C
Annual Average rainfall	70 cm
Relative Humidity	36-81%

4.8 Social Infrastructure available

As the unit is located within the Village limits of Nimbut and Nira, there are few Hospitals, Schools, Community facilities and Places of worship within 2 kms radius from the plant.

5. Planning Brief

5.1 Planning Concept

The proposed project is planned within the existing industrial premises. The land is industrial and industry is operating since 1963. The type of industry is chemical industry and existing operations of the plant are for chemical industries. The storage facilities for the finished product are already available. The township for the industry is already build and no additional infrastructure required.

5.2 Population projection

The population of the villages in the vicinity of the project site (Nimbut and Nira) is unlikely to be influenced by the proposed project, as there is not increase in manpower envisaged. The unskilled labour required for the industry already exists.

5.3 Land use planning

The total area of site is 130 acres.

32.5 acre land is developed as green belt within the site. Additional initiatives are regularly undertaken through community plantation in communities around.

The layout is developed by constructing roads, effluent treatment area, solid waste area, storm water drainage area, parking area etc.



Figure – 3 : Site Layout

5.4 Assessment of Infrastructure Demand

The proposed production of anhydrous alcohol is planned within the existing industrial premises, for which the basic infrastructure is already developed. The social infrastructure is also available in the area. No additional manpower/population is required for the said project.

5.5 Amenities/Facilities

All the required Amenities and facilities are available in the area, including Schooling, Banking, Hospitals, Community halls, Temples, State Road transportation services, , Railway Services, local Market catering to all daily needs, Hotels, etc., in addition to the captive township for employees in essential services

6. Proposed Infrastructure

The basic infrastructure for the industrial and residential establishment is already available, Social infrastructure is available in the area and the colony for the employees is developed. Connectivity to the site is well established through road and rail network.

Drinking water facility is available for the project. The industry receives water from river Nira as per the agreement with Irrigation Division, Pune. Sewage system is provided in the plant and colony.

There is no industrial waste (liquid or solid) from the proposed production of anhydrous alcohol. Small quantity (6 KLD) of spent lees will be generated which will be reused.

7. Rehabilitation & Resettlement Plan (R & R)

There is no additional land requirement for proposed project, as the modernization is proposed within the existing land. Therefore, land acquisition and R & R is not applicable.

8. Project Schedule and Cost Estimate

The project is planned to be immediately on grant of Environmental Clearance and shall be commissioned within 16 months, including the approval from SPCB for Consent to Establish and Consent to Operate. The estimated cost of the project is Rs. 3 Crores.

9. Analysis of Proposal

EC amendment is proposed to include production of Anhydrous Alcohol (Ethyl alcohol - 99.8%) from Ethyl Alcohol (94%) manufactured in-house and purchased from Open market without change in production quantity, increase in natural resources and with no increase in pollution load. Very small quantity of spent lees (6 KLD) will be generated which will be recycled back completely.

The proposed amendment will be carried out within the same plant premises and with no additional land and infrastructure.

The project will partly cater to the demand for Anhydrous Alcohol required for blending with Petrol in achieving the target of blended fuel set by the Central Government to the State Oil marketing companies.

ENCLOSURE - 1

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
/4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E),
Mumbai - 400 022

Consent order No :- Formate1.0/ BO/CAC-Cell/ UAN NO:0000020570 /4th CAC/ 1712000118
Date- 06/12/2017

To,
M/s. Jubilant Life Sciences Ltd.,
G. No. 25, 26, 27, 28, 32, 45,
Village Nimbut Nira, Tal. Baramati, Dist. Pune.

Subject: Renewal of consent to operate under RED category.

Ref :1. Formate1.0/ BO/CAC-Cell/ UAN NO:0000014392 /5th CAC/1701000978 dtd.
18.01.2017.

2. Your application approved in CAC meeting held on 23.08.2017.

Your application:. 0000020570

Dated: 01.02.2017

For: Renewal of consent to operate
under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 &
under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and
Authorization under Rule 6 of the Hazardous & Other Wastes (M & T) Rules 2016 is
considered and the consent is hereby granted subject to the following terms and
conditions and as detailed in the schedule I, II, III, IV annexed to this order:

1. The consent is granted for a period from date of issue of consent to 31.08.2022.
2. The total capital investment of the Unit is Rs. 227.35 Cr. (As per C.A. Certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity	UoM
1	Vinyl Acetate Monomer (VAM) OR	45	MT/D
	Ethyl Acetate	36	MT/D
2	3-Cyno.Pyridine OR	06	MT/D
	Acetic Anhydride	52	MT/D
3	Ethyl Acetate	256	MT/D
4	Ethyl Alcohol (94%) (Rectified spirit)	100	KL/D
5	Ethyl Alcohol (99.8%) (Anhydrous alcohol)		
6	Fusel Oil	13.33	Litrs./D
7	Liquid CO2	50	MT/D
8	Ethyl Acetate * OR	75	MT/D
	Butyl Acetate *	40	MT/D
9	Acetic Anhydride	125	MT/D
10	Alkyl Pyridine -By product	0.18	MT/D

* Only one product at a time

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	Distillery - 1270 (445 after volume reduction)	As per Schedule -I	Bio-digester followed by RO followed by Bio-composting.
		Chemical Plant - 693	As per Schedule -I	327 shall be Recycle in process & remaining 366 shall be used on land for gardening.
2.	Domestic effluent	155	As per Schedule -I	On land for irrigation

Following Conditions as per the previous Consent granted vide dtd. 21.05.2013 shall remain unchanged -

The trade effluent shall not exceed after commencement of chemical production to overall limit and 410 M³/day for proposed expansion. (As per Consent to Establish obtained quantity 767 m³/day)

(At the time of consent to 1st Operate industry shall reduce the Industrial effluent quantity by 73.00 CMD and water consumption by 73.00 CD and for cooling by 403.00 CMD from Consent to establish bearing No.BO/PAMS/Amend/E/EIC No PN-11631-11/CC-CAC-79 dated 17/12/2011)

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1	Boiler A & B	1	As per Schedule - II
2	Boiler C	1	As per Schedule - II
3	Boiler E	1	As per Schedule - II
4	Boiler D (Stand by)	1	As per Schedule - II
5	Furnace AC2O-I Plant	1	As per Schedule - II
6	Dowtherm Vaporizer	1	As per Schedule - II
7	Ethylene Vent	1	As per Schedule - II
8	Vam Vent	1	As per Schedule - II
9	CO ₂ Vent	1	As per Schedule - II
10	DG set of 380 KVA 2Nos	1	As per Schedule - II
11	Boiler F	1	As per Schedule - II
12	Furnace AC2O-II Plant	1	As per Schedule - II
13	DG Set of 600 KVA	1	As per Schedule - II

6. Conditions under Hazardous & Other Wastes (M & T) Rules, 2016 for treatment and disposal of hazardous waste:

Sr. No.	Type of Waste	Category	Quantity	Disposal
1	Tarry Residues	1.2	9551 Kg/M	CHWTSDF for incineration
2	Contaminated aromatic, aliphatic or naphthenic solvent not fit for originally intended use	20.1	7733 Kg/M	
3	Used/Spent Oil	5.1	943 Litrs./M	Send to Authorized recycler
4	Spent Catalyst	17.2	80.10 Kg/D	CHWTSDF

7. Conditions for Non-Hazardous Solid Wastes:

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	CETP Sludge	80	Kg/D	---	Used in Bio-composting
2	Coal Ash	92	MT/D	---	By Sale to brick mfr./Land filling
3	Fermentation Sludge	15	MT/D	---	Used in Composting
4	Coal Tar	1.50	MT/D		Sale

8. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
10. Industry shall comply with the Environmental Clearance granted by the MoEF vide dtd. 23.12.2008 and amended dtd. 21.12.2010.
11. Industry shall operate online monitoring system which is installed as per the Directions of CPCB and shall connect/ upload the online monitoring data at MPCB and CPCB server.
12. Consent is issued without prejudice to the order passed or being passed by the Hon'ble NGT Pune in the application bearing no. 7 (THS) 2014 (WZ) filed by Mr. Janardhan Pharande.
13. Industry shall comply the recommendations suggested by NEERI as per the directives of Hon'ble NGT, Pune.
14. The amount of Ethyl Alcohol 94% and Ethyl Alcohol 99.8% shall not exceed 100 KLPD.



15. The consent is granted without prejudice to the order passed or being passed by Hon'ble NGT.

For and on behalf of the
Maharashtra Pollution Control Board


(P.K. Mirashe)

Member Secretary

Received Consent fee of –

Sr. No.	Amount (Rs)	DD. No.	Date	Drawn On
1	The balance fees of Rs 644310/- as per the consent no <i>Format1.0/BO/CAC-Cell/ UAN NO: 0000014392 /5th CAC/1701000978</i> dtd. 18.01.2017 shall be considered at the time of this renewal of consent			
2	1629190	0198607	02.05.2017	ICICI Bank
3	50000	TXN170500 2893	30.05.2017	

Copy to:

1. Regional Officer – MPCB Pune & Sub -Regional Officer MPCB – Pune – I – They are directed to ensure the compliance of the consent conditions. SRO shall submit the verification report of the compliance made by the industry as per recommendations of NEERI and Hon'ble NGT direction.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CAC desk- for record & website updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control (Chemical Unit):

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) to the Chemical plant.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and

Rules made there under from time to time, whichever is stringent.

Sr. No.	Parameters	Standards prescribed by Board	
01	pH	Between	6.5 to 8.5
02	Suspended Solids	Not to exceed	100 Mg/l
03	BOD 3 days 27°C	Not to exceed	100 Mg/l
04	COD	Not to exceed	250 Mg/l
05	Oil & Grease	Not to exceed	10 Mg/l
06	Nitrate as N	Not to exceed	10 Mg/l
07	Arsenic	Not to exceed	0.2 Mg/l
08	Hexavalent Chromium	Not to exceed	0.1 Mg/l
09	Total Chromium	Not to exceed	1.0 Mg/l
10	Lead	Not to exceed	0.1 Mg/l
11	Cyanide as CN	Not to exceed	0.2 Mg/l
12	Zinc	Not to exceed	0.5 Mg/l
13	Mercury	Not to exceed	0.01 Mg/l
14	Copper	Not to exceed	2.0 Mg/l
15	Nickel	Not to exceed	2.0 Mg/l
16	Phenolies as C ₆ H ₂ OH	Not to exceed	5.0 Mg/l
17	Sulphide	Not to exceed	2.0 Mg/l
18	Bioassay test 90% survival of fish after first 96 hours in 100% effluent		

C] Out of 693 CMD treated effluent of Chemical Plant 327 CMD shall be Recycle in process & remaining 366 shall be used on land for gardening. In no case effluent shall not find its way to any water body directly or indirectly.

Terms & Conditions for compliance of Water Pollution Control (Distillery Unit):

A] You have provided comprehensive treatment for volume reduction consisting of Bio digester followed by Reverse Osmosis followed by Bio-composting on 22 acres of land to achieve Zero Discharge No any case Spent wash shall be discharged outside the premises and zero discharge shall be maintained.

B) The Spent Wash shall be 100% utilized for bio composting to achieve zero discharge.

C] Conditions for Aerobic Composting:

- i. The spent wash should be stored in impervious tanks. The spent wash tanks should have proper lining with HDPE and should be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation and undertaking given by the company, storage should not exceed 30 days capacity.
- ii. Applicant shall ensure availability of adequate filler material such as press mud, bagasses, agricultural, biological waste as required for effective composting system.

iii. Composted material shall meet the following specifications—

Moisture	...	30 to 35%
C/N	...	Below 17
Nitrogen	...	1.5 to 2%
Phosphorous	...	1.5 to 2%
Potassium	...	3 to 4%

iv. The composting site shall be prepared as per the guideline enclosed. Composting shall be such that it includes mechanical mixing and spraying of spent wash along with mechanical aeration to ensure thorough composting. Hand/ manual spraying of spent wash shall not be permitted.

v. The compost leachate (1 gr. of compost mixed with 100 ml. of distilled water and filtered) Filterate shall conform to the following limit.

pH	Between	7.5 to 8.0
BOD 3 days 27 Deg. C.	Not to exceed	30 mg/l.

vi. A pucca leak proof guard pond of 30 days holding capacity as per (i) above shall cope up with the effluent discharge during short term process disturbances. In case of prolonged disturbance in effluent treatment and disposal system, distillery shall be shut down and shall not be restarted without rectifying the system.

vii. The composting site/pits shall be made leak proof by proper lining. A catch drain shall be provided around the composting site to collect the storage pond for application on compost depots. Arrangements for overturning of compost material in windrows and spraying of spent wash shall be made to ensure appropriate aeration and uniform distribution of spent wash.

viii. In case of composting in open fields, the application of spent wash shall stop by end of April, so that compost is ready and the site is cleared of the composted manure before monsoon (i.e. 31st May). The manure shall be collected and stored on a raised platform with suitable rain cover so that the compost manure is not washed away by rain/runoff.

ix. Characteristic of soil, ground water and effect on crop yield should be monitored in the area where compost is used as manure and results thereof shall be compiled and reported in the Environment statement to be submitted every year.

x. The test wells shall be provided around the compost site for ground water monitoring. The well water quality has to be maintained at 2006 level.

xi. Top pullover impervious sheets shall be provided for entire compost yard, press mud and compost storage so as to cover the same during untimely rains and idles period.

xii. The operation of distillery should be restricted to 270 days in a year and that it will not operate during rainy season.

1) The industry shall create Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.

2) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines if applicable.



II) Conditions under Water (Prevention & Control of Pollution) CESS Act, 1977 as amended

The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, boiler feed etc.,	5610.00
2.	Domestic purpose	158.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	2500.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	—

gmb

Schedule-II
Terms & conditions for compliance of Air Pollution Control

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) to observe the following fuel pattern-

Sr. No	Stack Attached to	APC System	Height in meter	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/ D
1	Boiler A & B	ESP	60	Coal	130 MT/D	1	1300
2	Boiler C	Stack	50	Biogas	20400 M3/D	2	1550
3	Boiler -E	Stack	50	Biogas	30600 M3/D	2	2000
4	Boiler D (Standby)	Bag filter	40	Coal	20 MT/D	1	200
5	Furnace -AC20-I Plant	Stack	33	LDO	5 KL/D	2	180
				Biogas	550 M3/Hr.	.....	600
6	Dowterm Vapouriser	Stack	20	.....	.....	NA	.....
7	Ethylene Vent	Stack	30	.....	.....	NA	.....
8	Vam Vent	Stack	30	.....	.....	NA	.....
9	CO2 Vent	Stack	25	.....	.....	NA	.....
10	D.G. Set (380 KVA) 2 Nos.	Stack	4	HSD	60 Lit/Hr. (each)	1	28.8
11	Boiler F	ESP	55	Coal	260 MT/D	1	2600
12	Furnace -AC20 -II Plant	---	48	FO	714 Kg/Hr.	2	1542
				Producer Gas	5833 M3/Hr.	--	1700
				Biogas	1555 M3/Hr.	--	1500
13	D.G. Set * (600 KVA)	Stack	4	HSD	120 Lit/Hr.	1	57.6

2. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
3. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
4. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³
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5. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.



6. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

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Maharashtra Pollution Control Board

Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amount of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1.	C to R	Rs. 12.50 Lakh	Submitted	As per the directions issued vide dated 12.06.2014 & 13.10.2015	31.08.2022	31.12.2022
2.		Rs. 2 lakh	Submitted	O & M of pollution control systems & compliance of Consent Conditions.	31.08.2022	31.03.2022

The existing BGs shall be extended for a period upto 31.12.2022.



Schedule-IV
General Conditions

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly.
- 3) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous & Other Waste (M & T) Rules, 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 8) The industry should comply with the Hazardous & Other Waste (M & T) Rules, 2016 and submit the Annual Returns as per Rule 6(5) of Hazardous & Other Waste (M & T) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) **The applicant shall make an application for renewal of the consent before 60 days from the date of the expiry of the consent.**
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
- 12) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 14) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 15) **Conditions for D.G. Set**

- a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 16) The industry should not cause any nuisance in surrounding area.
 - 17) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
 - 18) The applicant shall maintain good housekeeping.
 - 19) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
 - 20) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
 - 21) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
 - 22) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
 - 23) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
 - 24) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
 - 25) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
 - 26) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

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ENCLOSURE - 2

Period - 1/7/2013 to 30/6/2019

JLSL-00



सत्यमेव जयते

GOVERNMENT OF MAHARASHTRA
WATER RESOURCES DEPARTMENT

Pune Irrigation Circle, Pune

Pune Irrigation Division, Pune

THE AGREEMENT

With

Jubliant Life Sciences Ltd. Nimbut
Tal. Baramati Dist .Pune

DATE: 1/7/2013

FOR JUBILANT LIFE SCIENCES LTD. NIMBUT

Anvita
Authorized Signatory

भारत INDIA

₹ 500
पाँच सौ रुपये



₹ 500
Rs. 500

INDIA NON JUDICIAL

महाराष्ट्र MAHARASHTRA

क्रमांक 93 E7 दिनांक 21/07/93 कार्य 4001 -

पुणे नगरपालिका वसुधामाता गाव - करार -
पुणे नगर मंडळीला 28 हे जमीन क्षेत्र - 28

JUBILANT LIFE SCIENCES LTD
NIMBUT

श्री यशवंत

AGREEMENT for non-Irrigation water supply

An agreement made on the 1 day of July Two Thousand Thirteen between Jubilant Life Sciences Ltd. Nimbut Tal. Baramati Dist. Pune (which expression herein-after referred to as the company shall, unless excluded by or it be repugnant to the context or meaning thereof be deemed to include its successors and assignees) registered under the Indian Companies Act 1913, (VII of 1913) and governed under the companies Act 1956 (of 1956) and having its registered office at Bhartiyaigram, Gajuraha, Dist. Phoolky Nagar, Uttar Pradesh, India Pin Code 244223, Corporate Office at 1A, Sector 16-A Institutional Area, Noida 201301, UP and having a factory amongst other place at Nira, Village Nimbut Taluka Baramati, Pin 412102 referred to as "the company" of the one part and the Governor of Maharashtra hereinafter referred to as "The Government" (which expression shall unless excluded or it be repugnant to the context or meaning thereof be deemed to include its successors and assignees) of the other part.

FOR JUBILANT LIFE SCIENCES LTD NIRA

[Signature]
Authorised Signatory

भारत INDIA

₹. 500

FIVE HUNDRED
RUPEES



पाँच सौ रुपये

Rs. 500

INDIA NON JUDICIAL

MAHARASHTRA



Handwritten text in Marathi and English:
गोपनीय -
जुबिलंट लाइव सायन्सेस लि.
प्लॉट नं. 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
पुणे - 411 004 Dist. पुणे
फोन नं. 22969156, 69157 691 19

Handwritten signature and text:
जुबिलंट लाइव सायन्सेस लि.
पुणे - 411 004
दिनांक: 24/03/2018

Whereas the company is desirous of constructing a pumping station on the company's land @ Nimbur, Tal. Baramati, Dist. Pune of drawing water from the source Nira River (hereinafter referred to as "the said source") for the use by the company's plant (hereinafter referred to as "The said plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

AND whereas the company has applied to the Government for permission to draw 130 million cubic meter of water per year from the said source

AND whereas the company has paid Rs Nil to Government towards the proportional cost of capital outlay of the project.

FOR JUBILANT LIFE SCIENCES LTD NIRA

Handwritten signature
Authorised Signatory

AND WHEREAS THE GOVERNMENT HAS AGREED TO GRANT THE ABOVE SAID PERMISSION SUBJECT TO THE TERMS AND CONDITIONS HEREINAFTER APPEARING.

AND WHEREAS UNDER the said terms and conditions the company has deposited with the Executive Engineer Pune Irrigation Division Pune to the government a sum of Rs. 18,88,680/- (In words Rs. Eighteen Lacs Eighty Eight Thousand Six Hundred and Eighty Only) in the form of Bank Guarantee issued by Corporation Bank New Delhi as security equivalent to 2 Months company's probable water charges based on yearly sanctioned quota and as communicated. In cash or in the form of fixed deposit receipt or a bank Guarantee issued by a scheduled nationalised bank having its main/branch office situated locally for the due observance and performance by the company of the terms and conditions of this Agreement AND WHEREAS the company has accordingly prior to execution of these presents deposited with the Government Rs. 18,88,680/- (In words Rs. Eighteen Lacs Eighty Eight Thousand Six Hundred and Eighty Only) as security for the due observance and performance by the company of the terms and conditions herein contained; AND WHEREAS it has been agreed that the amount shall not carry any interest if deposited in cash.

Definitions:

Quota - Quota means yearly demand sanctioned and communicated to the company by Executive Engineer.

Corporation : Corporation means the River Basin corporations like Maharashtra Krishna Valley Development Corporation (MKVDC), Godavari Marathwada Irrigation Development Corporation (GMDC), Tapi Irrigation Development Corporation (TIDC), Konkan Irrigation Development Corporation (KIDC) & Vidarbha Irrigation Development Corporation (VIDC), Municipal Corporation's Municipalities etc.

MIDC : MIDC means Maharashtra Industrial Development Corporation.

MJP : MJP means Maharashtra Jeevan Pradhikaran.

Yearly Applicable Demand: Yearly Applicable demand means the water demand communicated by the USER for the period 1st November to 31st October in the next year by Engineer & Sanctioned by Irrigation Department every year in the month of September along with its bifurcation for industrial, domestic and agricultural use.

USER: User means water using agency like individual companies' users/ Industry Entrepreneur

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1(a) In consideration of the company making payment to the Government as hereinafter specified and observing and performing the convenience and conditions hereinafter specified Government do hereby grants to the company permission to draw following quota of water for the specified purpose as under

Sr.No	Description /Use	Quantity Million Liters (Mm ³) per year
1	Total sanction quota (Yearly)	1.09 M Cum
1.1	For Industry Using Potable water bottling plant	Nil
1.2	For other than water as raw material industrial use	1.09 M Cum
1.3	For domestic use	Nil
1.4	For agricultural use(nursery/gardening) within the company's premises	Nil

and use the same for the purpose of the company's said plant or project for supply for Industrial use for a term of 6 years commencing from the 1 day of July 2013 of the following terms and conditions. This agreement supersede all previous agreements

(b) The quota assigned for domestic use and for agricultural use shall not exceed 10% of each of the individual water demand. In the cases where in the water demand for Domestic and Agricultural use exceeds 10% in each case the excess use shall be charged at industrial applicable rate specified in clause 11 of this agreement.

(c) The Industrial water requirement, the Domestic water requirement and agricultural (nursery/ gardening) water requirement of the company as demanded deemed to be separate and independent for the sole purpose and water charges assessment shall be accordingly separate and independent for other clauses of this agreement.

2) The permission here by granted shall be subject to the provisions of the Maharashtra Irrigation Act 1976 and the Bombay canal rules 1934 and subsequent revisions in force and any executive orders issued in this behalf by Government and any statutory amendment thereof from time to time and for the time being in force.

3) Nothing herein contained shall be deemed to imply and guarantee on the part of the Government as the availability or otherwise of any Specific quantity of water and Government shall not be responsible for the non supply or inadequate supply of water on any account whatsoever.

However in case of inadequate or non-supply due to shortage of water or reason beyond the control of the Department, bill shall be charged as per actual quantity of water lifted during such period.

4) The company shall use the available water at said river for purposes of the company's said Plant and for supply to the residential colonies constructed by the company in the area of the said plant for providing housing to its employees and workers (hereinafter referred to as "the said residential colonies"). The company shall not sell the water from the said river to any other person, firm or company, corporation or other body. In the event of the company selling water drawn from the said river, then the Government without prejudice to its right will forthwith revoke the license. Government shall be entitled to recover from the company the proceeds of any such sale made by the company.

5) Government Shall be entitled to utilize water of the said river available after meeting the reasonable requirements of the company; as to which matter the decision of the Government shall be final and binding on the company for such purpose as Government deems fit.

6) The permission hereby granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners; nor shall it in any way prejudice Government's right to here after launch or implement in public interest any new scheme or schemes on its own, on or in connection with the present source of channel of water supply available to the company, Subject however to the safe-guarding of its reasonable demand referred to in clause (5) above.

7) The company shall not construct the pick-up weir in the Nira river bed unless the proposals, plans, drawings, specifications, estimates, and all the details thereof are previously submitted to and approved in writing by an officer authorized in that behalf by the Government and while granting its approval to the construction of the pick-up weir Government may impose such conditions it may discretion think fit.

8) (a) For ascertaining the quantity of water drawn by the company, the company forthwith at its own cost and after obtaining prior approval in writing from the Executive Engineer, Pune Irrigation Division, Pune Install independent pipeline fitted with separate electronic water measuring devices for use of water for the said independent intention (hereinafter referred to as "the said electronic measuring device") at such places as indicated by the Executive Engineer. All the pipelines layout showing

got jointly verified and got approved from the executive Engineer, Irrigation Department. Layout from the said source shall be got approved from the Executive Engineer. No changes in the approved layout shall be made without the prior written approval from the Executive Engineer. In the event of the company failing to install and keep in proper working on the said electronic measuring devices for use of water for the said Plant and supply to the said residential colonies as aforesaid the company shall be liable to pay for the sanctioned water quota as mentioned in clause 8(d) and (e). During such period 100% of the proportionate sanctioned quantity will be charged at the prevailing rates for the said plant. The said electronic measuring devices shall always be kept under the lock and seal of the Executive Engineer and the key of such lock shall at all times remain with the Executive Engineer. The company shall at all times, during the subsistence of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

(b) Readings for the water so drawn by the company will be taken on the said electronic measuring devices, on the 10th day of each month at agreed time, jointly by the authorized representatives of the executive Engineer and of the Company.

(c) If at any time in the opinion of the Executive Engineer the said electronic measuring devices are found defective, the same shall be tested for its accuracy and the cost of testing shall be borne and paid by the company. If on such testing the said electronic measuring devices are found to be defective the company shall forthwith get the same repaired and set right at its own cost and in the event of company failing to do so within 30 (Thirty) days thereafter the Executive Engineer may proceed to do so on account and at the cost of the company.

(d) In the event of the said electronic measuring devices going out of order and becoming defective the quantity of water drawn by the company during the period when the meter was defective and not working shall be ascertained in the following manner.

i. If the said electronic measuring devices remain out of order for a period of less than 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 90% of the yearly sanctioned demand as communicated in clause No. 11 or average of the last six months whichever is higher.

ii. If the said electronic measuring devices remain out of order for a period exceeding 30 days the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 110% of the yearly sanctioned demand as communicated in clause 11 or average of the last six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order.

The aforesaid provisions will also apply when the quantity of water drawn by the company cannot be measured on account of removal of the said electronic measuring devices or repairs or the same in the opinion of the Executive Engineer not working properly.

iii. If electronic meter meant for domestic or for agricultural use is not fitted or remains out of order or is removed, the water charges will be drawn as per the rates specified for the industrial use for the total quota as referred to in clause 1(a) of this agreement :- not applicable.

9) Billing shall be done on bimonthly basis. The bill for the water drawn by the company during the previous calendar month shall be sent in duplicate/triplicate by the Executive Engineer to the office of the company within 15 days after the end of the water consumption month. The company shall thereafter duly pay the same by cheque/draft drawn in the name of the Executive Engineer Pune Irrigation Division. Payment to be on behalf of the Government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the company fails to pay the amount within the

The delay in payment of water charges exceeds six month, the Irrigation Department reserves the right to terminate the water supply with a notice of 15 days in advance.

10) The cost of all works in connection with the arrangements for water supply including the cost of measuring devices and its installation and maintenance, shall be borne by the company.

11) Subject to the provisions of clause (8) hereof the company shall pay to the Government at the time and in the manner specified in Clause (12) hereof, water charges for the quantity of water drawn by the company from the said river as measured by the said electronic measuring devices at the present rate of Rs 95.00 (Rs. Ninety Five only) per 10000 Liters, prescribed as per Govt.(amendment) Marathi letter No. 100/2005 dated 10.01.2005 for Industrial use and also as per subsequent revision in the water rates from time to time in the term of this agreement.

The water lifted by the USER during rainy season from the river when Irrigation Department has not released the water, concessional rate as decided by Irrigation Department shall be charged.

- I. Provided however that after the expiry of two years from the date the company starts drawing water from the said river if in any month the quantity of water drawn by the company is less than 90% the quantity specified in clause(1) hereof then the company shall pay to the Government water charges calculated for 90% of the quantity specified in clause (1) for average on the quantity of water drawn by the company during the period of previous three months including the month in question whichever is greater.
- II. For any unforeseen reasons, if the company would like to change the demand of water made earlier entered in the agreement, they will be required to make the revised annual demand before the commencement of the year i.e 1st day of Nov. On acceptance of such revised demand the company will be charged as per changed demand for period specified other conditions remaining same. A supplementary agreement on the bond and stamp paper for the changed quantity which will form part of this agreement.
- III. NO penal rate will be levied for the quantity limited to 10% in excess of the sanctioned one. For quantity used in excess of the 10% without prior sanction a penal rate of 25% will be charged over the basic rate. The delay in payment on account of this also, will be governed by clause (9) above.
- IV. For any unforeseen reasons (such as sudden closure of the units or sudden rise in production etc) there could be abrupt fluctuations in the demand on both sides. Such cases will be decided at Govt level only, by giving due considerations to the availability of water in the particular sub-basin and so on.
- V. In addition to the payment of water charges referred to above the company shall also pay to the Government local fund cess at the rate of 20 paise per every rupee of basic water charges.
- VI. Water Bills:- The bi-monthly bills for the period from November onwards (for 10 months) shall be prepared on the basis of actual quantity of water lifted to the prevailing rate. The bill for the months of September & October (11th & 12th month) shall be prepared by taking review of actual sanctioned demand and the terms and conditions of the agreement and may be adjusted and paid accordingly. While adjusting so it shall be considered that the 90% of the annual sanctioned demand has been lifted /used.
The water lifted in excess up to 10% of sanctioned demand shall be charged at single rate and excess above 10% (without prior permission) will be charged at penal rate of 1.25 times of the normal rate, as mentioned in the relevant clause. However the local fund cess shall be charged on the normal rate.

12) (a) The company shall pay to the Executive Engineer, water rates and local cess either in advance every alternate month on the basis of anticipated quantity of water to be drawn by it from the said source during the next two month or on monthly basis within fifteen (15) day from the date of receipt of the bimonthly demands by the USER from the Executive Engineer. On default of the USER to pay the water rate and/or local fund cess as aforesaid vide clause 9 and 11, Government shall without prejudice to its any other rights and remedies be entitled to terminate this agreement forthwith as per clause 9.

(b) In the Case of disputes regarding quantity of water billed or rate at which the bill is prepared the Company shall first pay the complete amount of their bill and then claim for refund of any excess bill charged giving the reasons/justification of wrong billing. However the decision of Superintending Engineer, Pune Irrigation Circle, Pune in this regards shall be final and binding on the Company.

13) Government hereby reserves to itself the right to revise from time to time bill rates and local fund cess and company shall pay the revised water rates and local fund cess as may be fixed by Government from time to time.

14) The USER shall not discharge the effluent in any Nallah or river and shall not pollute directly or indirectly any portion of the said Nallah/river by septic tank effluents. If any water sources are polluted by any industry as identified by Irrigation / Pollution Control Board/ MIDC/MIP the company shall be charged with a penalty of rupees 500/- per such incident per day, till it is rectified. The opinion of Maharashtra Pollution Control Board in respect of degree of pollution will be binding on the company.

The company shall recycle the effluent water for their use such as gardening, recreation, cooling, cleaning, washing and manufacturing process etc. so that at least 50% reduction in consumption of fresh water is achieved.

15) The effluent disposal arrangement made by the company shall be approved by the company from the Maharashtra Pollution Control Board / Environmental Department of the Government prior to commencing the operation of pump/drawing water from the source.

16) The company shall at all the times allow an officer of Irrigation Department of the Government authorized in that behalf to inspect the said works as well as the accounts and copies taken of entries from the records maintained by the company.

17) Any notice or other document to be given to or served upon the company shall be given or served on behalf of the Government by the Executive Engineer, Pune Irrigation Division, Pune and any such notice or document shall be deemed to have been duly given served upon the company or sent by registered post to the registered company delivered at the registered office of the company or sent by registered post to registered address for the time being of the company.

18) The said sum of Rs. 18,88,680/- (In words Rs. Eighteen Lacs Eighty Eight Thousand Six Hundred and Eighty Only) Deposited in the form of FDR/DD the company with the Executive Engineer Pune Irrigation Division, Pune to the Government as aforesaid shall be held by the Government as Security for the Due observance and performance by the company of the covenants, terms and conditions herein contained. In case of default on the part of the company to perform and observe any of the said covenants terms and conditions it shall be lawful for the Government in its absolute discretion to forfeit the whole of the security deposit or any part thereof without prejudice nevertheless to any rights and remedies which the Government may have against the company under their provisions for such breach and the company shall forthwith pay up amount so forfeited & shall always maintained the original amount deposit throughout the period of this agreement on the expiry of the terms this agreement, the said security deposit of Rs. 18,88,680/- (In words Rs. Eighteen Lacs Eighty Eight Thousand Six Hundred and Eighty Only) of such part there of shall not have been appropriated as aforesaid shall be refunded to the company.

- 19) All amounts due to the Government by the company under this agreement shall be deemed to be arrears of land revenue and may without prejudice to any other rights and remedies of the Government be recovered from the company as proceeds of the recovery of the arrears of land revenue.
- 20) On the expiry of the term of this agreement, Government may renew this agreement within 90 days for such further period and on such terms and conditions as Government may at its absolute discretion deem fit.
- 21) The costs incurred in the execution of the incidental charges of the agreement including stamp duty shall be borne and paid by company.
- 22) Permission for extra water over and above the sanctioned quota will be granted only when the written permission for expansion etc. is produced by the company from the Industrial department.
- 23) Last agreement which was made and valid for a period of six years was between Irrigation dept and Jubilant Organosys Ltd referred as Company. Acceptance of change of name of Company from Jubilant Organosys Ltd to Jubilant Life Sciences Ltd vide your letter reference No युवावि/विशोधन/२२८/१८२०/११-२०११ dated 19 Sep. 2011 is with you. From now on company (will be referred as Jubilant Life Sciences Ltd.) for agreement.
- 24) The agreement supersedes all the previous agreements entered into by the USER with the Government in connection with the supply of water from said source.
- 25) The company should submit their water indent for every rotation to the Executive Engineer, Pune Irrigation Division, Pune on or before starting of the rotation where is located on canal. The Company should also furnish the exact quantity of water actually drawn in each rotation after completion of the rotation.
- 26) The company will have to make an arrangement at its own cost for adequate storage (Balancing Tank) of not less than two months requirement of water in case of perennial canal, five months requirement in case of 8 monthly canal system, four months requirement in case of water source from seasonal river/Nallah and one month water requirement in case of perennial water source of river. Nallah works to take care of the closure period. But if unexpectedly the closure period is increased by more than the specified period stipulated herein the company will have to make an alternative arrangement for its water requirement at its own cost.
- 27) IF THE COMPANY COMMITS A BREACH OF ANY OF THE TERMS AND CONDITIONS THEREOF GOVERNMENT SHALL BE ENTITLED TO CANCEL THIS PERMISSIN AND DISCONTINUE THE SUPPLY OF WATER WITHOUT PAYMENT OF ANY COMPENSATION WHATSOEVER TO THE COMPANY.
- 28) The Govt. hereby reserves to itself its right to change / amend / modify / cancel / revise any of the terms and conditions, rules and regulations of water management and Maharashtra Irrigation Act and rules laid under them which shall be applicable for this agreement.

IN WITNESS WHEREOF THE common Seal for Jubilant Life Sciences Ltd. Nira Tal-Baramati, Dist-Pune has been hereunto affixed

And

The executive Engineer Pune Irrigation Division, Pune has for and on behalf of the Governor of Maharashtra hereto set his hand and affixed the seal of his office the day and year first herein above written. The seal of

JUBILANT LIFE SCIENCES, NIRA
NIMBUT VILLAGE, NIRA (R.S.)
DIST-PUNE-412 102

For JUBILANT LIFE SCIENCES LTD. NIRA


Authorized Signatory

Was pursuant to a resolution of the Board of Directors of the company dated here to affixed in the presence of

1. *S. M. Talawale*
2. *Rajesh Dushmukh*


S. M. Talawale

Two Directors of the company who in token thereof have hereto set their respective hands in person of

- 1.
- 2.

SIGNED, SEALED AND DELIVERED by Executive Engineer, Pune Irrigation Division, Pune for and on behalf of the Governor of Maharashtra


In the Presence of:-

- 1.
- 2.


SECTION OFFICER
Pune Irrigation Division, Pune


Assistant Engineer Gr.1
Nira Irrigation Sub-Division
Nira




Executive Engineer
Pune Irrigation Division, Pune

Status of Compliance on Environmental Clearance

**EC accorded vide letter no. F. No. J-11011/745/2007-IA-II(I) dated 23.12.2008 &
EC Amendment vide letter no. F. No. J-11011/745/07-IA II (I) Dt. 21.12.2010**

Compliance to specific conditions & general conditions are mentioned below:

SR. NO	Details	Compliance Status
A	SPECIFIC CONDITIONS	
i.	The particulate emissions from 75TPH Coal fired AFBC boiler & 23TPH slop & coal fired boiler shall be controlled by installation of ESP & bag filters respectively. The emissions shall be dispersed through stacks for which height shall be as per the CPCB standards.	<p>Complied.</p> <p>35 TPH Coal fired AFBC boiler commissioned. ESP is installed for control of PM.</p> <p>Stack height (55m) as per CPCB standards is provided.</p>
ii.	The company shall adopt continuous fermentation technology. The spent wash generated after the proposed expansion shall be concentrated in the MEE followed by incineration. In the existing distillery the spent wash after bio-methanation shall be sent to RO plant. Permeates recycled and rejects shall be composted with press mud to achieve zero discharge. No effluent shall be discharged outside the factory premises and zero discharge shall be strictly followed. The compost yards shall be made impervious as per CPCB guideline	<p>Complied.</p> <p>Alcohol production is done by continuous distillation process.</p> <p>Spent wash generated is being bio-methanated and bio-methanated effluent is sent to RO followed by MEE for recovery of water to achieve zero discharge.</p> <p>MEE concentrate is composted with press mud.</p> <p>Distillery operation = 100 KLD (as per MPCB consent to operate)</p> <p>Raw spent wash = 1270 KLD</p> <p>RO capacity = 1200 KLD</p> <p>MEE Capacity = 600 KLD</p> <p>Compost yard is made impervious as per CPCB guidelines.</p> <p>Photographs of Distillery unit, RO plant, MEE and Bio-compost yard, effluent treatment are attached as</p>

SR. NO	Details	Compliance Status
		Annexure – 1.
iii.	<p>The effluent from the chemical plant shall be subjected to acid recovery and the balance effluent streams along with the existing effluent shall be treated in the ETP. The treated effluent after conforming to the prescribed standards shall be recycled.</p> <p>The effluent stream from the cooling tower and boiler blow down shall be sent to RO plant and permeates shall be used for cooling tower makeup.</p> <p>The domestic effluent after treatment in the sewage plant shall be used for green belt development.</p>	<p>Complied.</p> <p>Effluent from the Acetic Anhydride Plant is subjected to acid recovery. Effluent after recovery is sent to the ETP of capacity 410 KLD. (Photographs of ETP shown in Annexure -2)</p> <p>Effluent from Ethyl Acetate plant is recycled in distillery or sent to ETP.</p> <p>Effluent after treatment in ETP is recycled in plantation area within the site.</p> <p>Sewage is treated in STP (160 KLD) and treated water is used in plantation area.</p>
iv.	<p>The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoons shall have proper lining with HDPE & shall be kept in proper condition to prevent ground water pollution. As per the CPCB recommendations, storage shall not exceed 30 days capacity.</p>	<p>Complied.</p> <p>Spent wash from Distillery plant is given primary treatment in Bio digester then stored in impervious lagoons constructed based on CPCB guideline with proper lining of HDPE.</p> <p>The storage of spent wash is ensured not to exceed 30 days.</p>
v.	<p>Adequate nos of ground water quality monitoring stations by providing piezometers around the compost plant & the project area shall be set up. Sampling & trend analysis monitoring must be made on monthly basis & report submitted to CPCB & this ministry.</p>	<p>Complied.</p> <p>13 Nos of piezometers are set up to monitor ground water quality.</p>
vi.	<p>The company shall obtain permission to draw water from the</p>	<p>Complied.</p>

SR. NO	Details	Compliance Status
	state irrigation authority.	Permission to withdraw water 1.09 Mm ³ /year is given by Pune Irrigation Division, Pune. (Annexure – 3)
vii.	Green belt in 33% of the plant area shall be provided to mitigate the effects of fugitive emissions all around the plant & compost yard as per the CPCB guidelines in consultation with the local DFO.	Complied. 32.5 acre land is developed as green belt within the site. Additional initiatives are regularly undertaken through community plantation in communities around. (Photographs of green belt are attached as Annexure – 4)
viii.	Company shall adopt rainwater harvesting measures to recharge the ground water.	Complied. Rainwater harvesting by ground water recharge is done at colony area.
ix.	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure & facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plants, 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 wastes shall be managed so that there is no impact on the surrounding environment.	Complied. Mainly the work force sourced from nearby villages; hence staying arrangement of construction labour at site is not required.
GENERAL CONDITIONS & COMPLIANCE STATUS :		
i.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests.	Complied.

SR. NO	Details	Compliance Status
ii.	Ambient Air Quality Monitoring Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ , and NO _x , are anticipated in consultation with the State Pollution Control Board.	Complied. AAQ monitoring is carried out monthly. Report enclosed as Annexure – 5.
iii.	Adequate number of influent & effluent quality monitoring Stations shall be set up in consultation with the SPCB. Regular monitoring should be carried out.	Complied. Effluent analysis is carried out monthly. Details of analysis is given in Annexure – 6
iv.	The industry shall ensure that treated effluent & stack emissions from the unit are within the norms stipulated under the EPA rules/SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shutdown & shall not be restarted until control measures are rectified to desired efficiency.	Complied. Effluent characteristic and stack emissions are monitored to ensure the compliance to the regulations. Stack emission data is attached as Annexure – 7.
v.	The overall noise levels in & around the plant area shall be kept within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. On all sources of noise generation .The ambient noise levels should confirm to the standards prescribed under EPA Rules, 1989 viz 75 dBA (day) & 70 dBA (night).	Complied. The noise monitoring is carried out, noise levels are within norms. Noise monitoring report enclosed as Annexure – 8.

SR. NO	Details	Compliance Status
vi.	Occupational Health Surveillance programme shall be undertaken as regular exercise for all the employees'. The first aid facilities in the occupational health center shall be strengthened & the medical records of each employee shall be maintained separately.	<p>Complied.</p> <p>Occupational Health Surveillance programme is undertaken by Industrial Medical Officer on six monthly basis for all employees; record of the same maintained. Occupational health center provided with availability of full time Qualified medical officer with paramedical staff and ambulance. (Records of OHS programme is attached as Annexure – 9).</p>
vii.	A separate environmental management cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management & monitoring functions.	<p>Complied.</p> <p>Environmental Management Cell (EMC) is already in place; it is headed by Sr. Manager-EHS with three dedicated EHS professionals in his team. Environmental monitoring carried out by in-house laboratory and also through MoEFCC approved Laboratory.</p> <p>EMC also has Agriculture Expert in its team for looking after management of distillery effluent and its use in bio-composting.</p>
viii.	The project authorities shall provide requisite funds for both recurring & non-recurring expenditure to implement the conditions stipulated by the non-recurring expenditure to implement the conditions stipulated by the Ministry of Environment & Forests as well as the state government along with the implementation schedule for all the conditions	<p>Complied.</p> <p>Funds provided for environment control are not diverted for any other purpose.</p> <p><u>Implemented:</u></p> <ol style="list-style-type: none"> 1. ETP : 410 KLD : Rs 1.0 Crore. 2. STP 160 KLD : Rs 0.35 Crore. 3. Bio-digester : Rs. 6 Crore 4. RO Plant 1200 KLD : Rs 10.00 Crore

SR. NO	Details	Compliance Status
	stipulated herein. The funds so provided shall not be diverted for any other purpose.	<p>5. MEE Plant (600 KLD): Rs. 10.0 Crore.</p> <p><u>To be implemented:</u></p> <ol style="list-style-type: none"> 1. RO plant for Ground water remediation (Dug well RO): Rs 6.09 Crore. 2. RO Plant : Rs 3.89 Crore 3. MEE+ ATFD: Rs 9.00 Crore 4. Reject RO : Rs 4.50 Crore 5. New ETP/ETP up-grdation : Rs. 12.72 Crore. 6. Community STP (1200 KLD) : Rs 3.20 Crore.
ix.	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office a Bhopal/State Pollution Control Board/Central Pollution Control Board. A six monthly compliance status report along with the monitored data shall be submitted to the monitoring agencies.	<p>Complied.</p> <p>Six monthly compliance status report along with the monitored data submitted to Regional Office, MoEF.</p>
x.	The project Proponent shall inform the public that the project has been accorded EC by the Ministry. This shall be advertised within seven days from the date of issue of 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 & a copy of the same shall be forwarded to the Regional Office.	<p>Complied.</p> <p>Regarding EC, advertisement was given in local Newspaper Daily Loksatta in Marathi & Indian Express in English (Annexure – 10).</p> <p>Copy of EC submitted to Regional Office with 6 monthly compliance.</p>

SR. NO	Details	Compliance Status
xi.	The project authorities shall inform the Regional Office as well as the Ministry the date of financial closure & final approval of the project by the concerned authorities & the date of start of land development work.	The project is started after obtaining consent to establish and consent to operate by MPCB. (Copies of consent to establish (Annexure – 11) and Consent to operate attached as Annexure – 12).

Annexure 1 : Photographs of Distillery and distillery effluent treatment units

Distillery



RO Plant :



RO Plant :



MEE Plant:



MEE Plant :



Bio Methanation Reactor:



Bio-compost yard :



Bio Composting yard:



Annexure 2

Annexure 2_Photos of ETP

ETP – Equalization Tank



ETP- Aeration Tank





महाराष्ट्र MAHARASHTRA

दिनांक ३१/०७/१३ ५००/-
प्रा. सं. नं. २४९१/१३
प्रा. सं. नं. २४९१/१३
प्रा. सं. नं. २४९१/१३

JUBILANT LIFE SCIENCES (I)

श्री. राजेश शिंदे

AGREEMENT regarding Irrigation water supply

An agreement made on the 1 day of July Two Thousand Thirteen between Jubilant Life Sciences Ltd. Nimbur Tal. Baranoli Dist. Pune (which expression herein-after referred to as the company shall, unless excluded by or is in repugnant to the context or meaning thereof be deemed to include its successors and assigns) registered under the Indian Companies Act 1913, (VII of 1913) and governed under the Companies Act 1956 and having its registered office at Bhaktarygram, Gajraoda on the Phoddy Nagar, Unad, Prantesh, India Pin Code 294223, Corporate Office at 1A, Sector 16-A Institutional Area, Noida 201301, UP and having a factory amongst other place at Nira, Village Nimbur Taluka Baranoli, Pin 412102 referred to as "the company" of the one part and the Government of Maharashtra hereinafter referred to as "The Government" (which expression shall unless excluded by or is in repugnant to the context or meaning thereof be deemed to include its successors and assigns) of the other part.

FOR JUBILANT LIFE SCIENCES LTD. NIRA

Amil
Authorized Signatory

AND WHEREAS THE SAID COMPANY HAS AGREED TO GRANT AND OBSERVE AND PERFORM THE SAME IN ALL RESPECTS OF THE TERMS AND CONDITIONS HERINAFTER APPEARING:

AND WHEREAS UNDER the said terms and conditions the company has deposited with the Executive Engineer Pune Irrigation Division Pune to the government a sum of Rs. 18,88,680/- (in words Rs. Eighteen Lacs Eighty Eight Thousand Six Hundred and Eighty Only) on the total of Bank Guarantee issued by Corporation Bank New Delhi as security equivalent to 3 Months company's probable water charges based on yearly sanctioned quota and as communicated in cash or in the form of fixed deposit receipt or a bank Guarantee issued by a scheduled nationalised bank having its main/branch office situated locally for the due observance and performance by the company of the terms and conditions of this Agreement AND WHEREAS the company has accordingly prior to execution of these presents deposited with the Government Rs. 18,88,680/- (in words Rs. Eighteen Lacs Eighty Eight Thousand Six Hundred and Eighty Only) as security for the due observance and performance by the company of the terms and conditions herein contained; AND WHEREAS it has been agreed that the amount will not carry any interest if deposited in cash.

Definitions:

Quota : Quota means yearly demand sanctioned and communicated to the company by Executive Engineer.

Corporation : Corporation means the River Basin corporations like Maharashtra Karmala Valley Development Corporation (MKVDC), Godavari Marathwada Irrigation Development Corporation (GMIDC), Tapi Irrigation Development Corporation (TIDC), Krishna Irrigation Development Corporation (KIDC) & Vidatha Irrigation Development Corporation (VIDC), Municipal Corporation's Municipalities etc.

MIDC : MIDC means Maharashtra Industrial Development Corporation.

MIP : MIP means Maharashtra Jeevan Pradhikaran.

Yearly Applicable Demand: Yearly Applicable demand means the water demand communicated by the USER for the period 1st November to 31st October in the following calendar & Sanctioned by Irrigation Department every year in the month of September along with its bifurcation for industrial, domestic and agricultural use.

USER: User means water using agency like individual companies' users/ Industry/ Entrepreneur
NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

With consideration of the company making payment to the Government as hereinafter specified and observing and performing the covenants and conditions hereinafter stated Government do hereby grants to the company permission to draw following quota of water for the specified purpose as under:

Sr.No	Description / Use	Quantity (Million Liters) (Mean - 1 st year)
1	Total sanction quota (Yearly)	1.09 M Cum
1.1	For Industry Using Potable water bottling plant	Nil
1.2	For other than water as raw material industrial use	1.09 M Cum
1.3	For domestic use	Nil
1.4	For agricultural use (nursery gardening) within the company's premises	Nil

and use the same for the purpose of the company's said plant or project for supply for industrial use for a term of 6 years commencing from the 1st day of July 2011 of the following terms and conditions. This agreement superseded all previous agreements.

(b) The quota assigned for domestic use and for agricultural use shall not exceed 10% of each of the individual water demand. In the cases where in the water supply for Domestic and Agricultural use exceeds 10% in each case the excess use shall be charged at industrial applicable rate specified in clause 11 of this agreement.

(c) The Industrial water requirement, the Domestic water requirement and agricultural (nursery/ gardening) water requirement of the company as detailed deemed to be separate and independent for the sole purpose and water charges assessment shall be accordingly separate and independent for other clauses of this agreement.

2) The permission here by granted shall be, subject to the provisions of the Kanamatti Irrigation Act 1976 and the Bombay canal rules 1934 and subsequent revisions, orders in force and any executive orders issued in this behalf by Government and any statutory amendment thereof from time to time and for the time being in force.

3) Nothing herein contained shall be deemed to imply and guarantee on the part of the Government as the availability or otherwise of any Specific quantity of water and Government shall not be responsible for the non supply or inadequate supply of water on any account whatsoever.

However in case of inadequate or non-supply due to shortage of water or drought beyond the control of the Department, bill shall be charged as per actual quantity of water lifted during such period.

4) The company shall use the available water at said river for purposes of the company at said Plant and for supply to the residential colonies constructed by the company (and in the area of the said plant for providing housing to its employees and workers (and water referred to as "the said residential colonies"). The company shall not sell the water from the said river to any other person, firm or company, corporation or other body. In the event of the company selling water drawn from the said river, then the Government without prejudice to its right will forthwith revoke the license. Government shall be entitled to recover from the company the proceeds of any such sale of water by the company.

5) Government Shall be entitled to utilize water of the said river available after meeting the reasonable requirements of the company; as to which matter the decision of the Government shall be final and binding on the company for such purpose as Government deems fit.

6) The permission hereby granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners; nor shall it in any way, prejudice Government's right to here after launch or implement in public interest any new scheme or schemes on its own, on or in connection with the present source of channel of water supply available to the company. Subject however to the safe-guarding of its reasonable demand referred to in clause (5) above.

7) The company shall not construct the pick-up weir in the Nira river (and unless its proposals, plans, drawings, specifications, estimates, and all the details thereof are previously submitted to and approved in writing by an officer authorized in that behalf by the Government and while granting its approval to the construction of the pick-up weir Government may impose such conditions in its discretion think fit.

8) (a) For ascertaining the quantity of water drawn by the company, the company forthwith at its own cost and after obtaining prior approval in writing from the Executive Engineer, Pune Irrigation Division, Pune install independent pipeline fitted with separate electronic water measuring devices for use of water for its own independent intention (hereinafter referred to as "the said electronic measuring device") at such places as indicated by the Executive Engineer. All the pipeline layout drawings

not finally verified and got approved from the Executive Engineer, Irrigation Department. Layout from the said source shall be got approved from the Executive Engineer. No changes in the approved layout shall be made without the prior written approval from the Executive Engineer. In the event of the company failing to install and keep in proper working order the said electronic measuring devices for use of water for the said plant and supply to the said residential colonies as aforesaid the company shall be liable to pay for the sanctioned water quota as mentioned in clause 8(d) and (e). During such period 100% of the proportionate sanctioned quantity will be charged at the prevailing rates for the said plant. The said electronic measuring devices shall always be kept under the lock and seal of the Executive Engineer and the key of such lock shall at all times remain with the Executive Engineer. The company shall at all times, during the subsistence of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

(b) Readings for the water so drawn by the company will be taken on the said electronic measuring devices, on the 10th day of each month at agreed time, jointly by the authorized representatives of the Executive Engineer and of the Company.

(c) If at any time in the opinion of the Executive Engineer the said electronic measuring devices are found defective, the same shall be tested for its accuracy and the cost of testing shall be borne and paid by the company. If on such testing, the said electronic measuring devices are found to be defective the company shall forthwith get the same repaired and set right at its own cost and in the event of company failing to do so within 30 (Thirty) days thereafter the Executive Engineer may proceed to do so on account and at the cost of the company.

(d) In the event of the said electronic measuring devices going out of order and becoming defective the quantity of water drawn by the company during the period when the meter was defective and not working shall be ascertained in the following manner:

- i. If the said electronic measuring devices remain out of order for a period of less than 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 90% of the daily sanctioned demand as communicated in clause No. 11 or average or for last six months whichever is higher.
- ii. If the said electronic measuring devices remain out of order for a period exceeding 30 days the quantity of water deemed to be drawn by the USER during the said period shall be taken to be 110% of the average sanctioned demand as communicated in clause 11 or average or for last six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order.

The aforesaid provisions will also apply when the quantity of water drawn by the company cannot be measured on account of removal of the said electronic measuring devices or repairs or the same in the opinion of the Executive Engineer not working properly.

- iii. If electronic meter meant for domestic or for agricultural use is not fixed or remains out of order or is removed, the water charges will be charged as per the rates specified for the industrial use for the total quota as referred to in clause 11(a) of this agreement - not applicable.

9) Billing shall be done on bimonthly basis. The bill for the water drawn by the company during the previous calendar month shall be sent in duplicate/triplicate by the Executive Engineer to the office of the company within 15 days after the end of the water consumption month. The company shall thereafter duly pay the same by a cheque/draft drawn in the name of the Executive Engineer, Pune Irrigation Division, P. No. 80, 106/01, behalf of the Government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the company fails to pay the dues, the same shall

If the delay in payment of water charges exceeds six months, the Irrigation Department reserves the right to terminate the water supply with a notice of 15 days in advance.

10) The cost of all works in connection with the arrangements for water supply including the cost of measuring devices and its installation and maintenance, shall be borne by the company.

11) Subject to the provisions of clause (8) hereof the company shall pay to the Government at the rate and in the manner specified in Clause (12) hereof water charges for the quantity of water drawn by the company from the said river as measured by the said electronic measuring devices at the present rate of Rs 95 000Rs. per cum (1 cum = 10000 Liters), prescribed as per Government's Marathi letter No. 100/100/100 dated 10.01.1998 for Industrial use and also as per subsequent revision in the water rates from time to time in the term of this agreement.

The water lifted by the USBR during rainy season from the river was not released. Irrigation Department has not released the water, concessional rate as decided by Irrigation Department shall be charged.

- I. Provided however that after the expiry of two years from the date the company starts drawing water from the said river if in any month the quantity of water drawn by the company is less than 90% the quantity specified in clause(1) hereof then the company shall pay to the Government water charges calculated for 90% of the quantity specified in clause (1) as an average on the quantity of water drawn by the company during the period of previous three months including the month in question whichever is greater.
- II. For any unforeseen reasons, if the company would like to reduce the demand of water made earlier entered in the agreement, they will be required to make the revised annual demand before the commencement of the year i.e 1st day of Nov. On acceptance of such revised demand the company will be charged as per changed demand for period specified under conditions remaining same. A supplementary agreement on the Indian revenue stamp paper for the changed quantity which will form part of this agreement.
- III. No penal rate will be levied for the quantity limited to 10% in excess of the sanctioned one. For quantity used in excess of the 10% sanctioned plus sanction a penal rate of 25% will be charged over the basic rate. The date in payment on account of this also, will be governed by clause 10(a) hereof.
- IV. For any unforeseen reasons (such as sudden closure of the units or sudden rise in production etc) there could be abrupt fluctuations in the demand on both sides. Such cases will be decided at Govt level only, taking due considerations to the availability of water in the particular sub-basin and so on.
- V. In addition to the payment of water charges referred to above the company shall also pay to the Government local fund fees at the rate of 20 paise per every rupee of basic water charges.
- VI. Water Bills:- The bi-monthly bills for the period from November to August (for 10 months) shall be prepared on the basis of actual quantity of water lifted to the prevailing rate. The bill for the months of September & October (11th & 12th month) shall be prepared by taking review of actual sanctioned demand and the terms and conditions of the agreement and they shall be adjusted and paid accordingly. While adjusting so it shall be considered that the 90% of the annual sanctioned demand has been lifted (used). The water lifted in excess up to 10% of sanctioned demand shall be charged at single rate and excess above 10% without prior permission shall be charged at penal rate of 1.25 times of the normal rate, as mentioned in the relevant clause. However the local fees shall be charged at the normal rate.

12) (a) The company shall pay to the Executive Engineer, water rates and local cess either in advance every alternate month on the basis of anticipated quantity of water to be drawn by it from the said source during the next two month or on monthly basis within fifteen (15) day from the date of receipt of the bimonthly demands by the USER from the Executive Engineer. On default of the USER to pay the water rate and/or local fund cess as aforesaid vide clause 9 and 11, Government shall without prejudice to its other legal rights and remedies be entitled to terminate this agreement forthwith as per clause 10.

(b) In the Case of disputes regarding quantity of water billed or rate at which the bill is prepared the Company shall first pay the complete amount of the bill and then claim for refund of any excess bill charged giving the reasons/justification of water billing. However the decision of Superintending Engineer, Pune Irrigation Circle, Pune in this regards shall be final and binding on the Company.

13) Government hereby reserves to itself the right to review from time to time the water rates and local fund cess and company shall pay the revised water rates and local fund cess as may be fixed by Government from time to time.

14) The USER shall not discharge the effluent in any Nallah or river and shall not pollute directly or indirectly any portion of the said Nallah/river by septic tank effluent. If any water sources are polluted by any industry as identified by Irrigation & Pollution Control Board/MDX/MUP the company shall be charged with a penalty of rupee 5000/- per such incident per day, till it is rectified. The opinion of Maharashtra Pollution Control Board in respect of degree of pollution will be binding on the company.

The company shall recycle the effluent water for their use such as garden, vegetation, cooling, cleaning, washing and manufacturing process etc. so that at least 50% reduction in consumption of fresh water is achieved.

15) The effluent disposal arrangement made by the company shall be approved by the company from the Maharashtra Pollution Control Board & Environmental Department of the Government prior to commencing the operation of pumps drawing water from the source.

16) The company shall at all the times allow an officer of Irrigation Department of the Government authorized in that behalf to inspect the said works as well as the accounts and copies taken of entries from the records maintained by the company.

17) Any notice or other document to be given to or served upon the company may be given or served on behalf of the Government by the Executive Engineer, Pune Irrigation Division, Pune and any such notice or document shall be deemed to have been duly given served upon the company or sent by registered post to the registered company delivered at the registered office of the company or sent by registered post to registered address for the time being of the company.

18) The said sum of Rs. 18,88,680/- (In words Rs. Eighteen Lacs Eighty Eight Thousand Six Hundred and Eighty Only) Deposited in the form of FDR/DD by the company with the Executive Engineer Pune Irrigation Division, Pune to the Government as aforesaid shall be held by the Government as Security for the Due compliance and performance by the company of the covenants, terms and conditions herein contained. In case of default on the part of the company to perform and observe any of the said covenants terms and conditions it shall be lawful for the Government in its absolute discretion to forfeit the whole of the security deposit or any part thereof without prejudice nevertheless to any rights and remedies which the Government may have against the company under these provisions in such breach and the company shall forthwith pay up amount so forfeited & shall always maintained the original amount deposit throughout the period of the agreement. On the expiry of the terms this agreement, the said security deposit of Rs. 18,88,680/- (In words Rs. Eighteen Lacs Eighty Eight Thousand Six Hundred and Eighty Only) of such part thereof shall not have been appropriated as aforesaid shall be refunded to the company.

- 19) All amounts due to the Government by the company under this agreement shall deemed to be arrears of land revenue and may without prejudice to all other rights and remedies of the Government be recovered from the company as proceeds of the recovery of the arrears of land revenue.
- 20) On the expiry of the term of this agreement, Government may renew this agreement within 90 days for such further period and on such terms and conditions, as Government may at its absolute discretion deem fit.
- 21) The costs incurred in the execution of the incidental charges of the agreement including stamp duty shall be borne and paid by company.
- 22) Permission for extra water over and above the sanctioned quota will be granted only when the written permission for expansion etc. is produced by the company from the Industrial department.
- 23) Last agreement which was made and valid for a period of six year was between Irrigation dept and Jubilant Organosys Ltd referred as Company. Acceptance of change of name, of Company from Jubilant Organosys Ltd to Jubilant Life Sciences Ltd vide your letter reference No ~~gub/irrigation/acc/for/for~~ dated 19 Sep-2011 is with you. From now on company (will be referred as Jubilant Life Sciences Ltd.) for agreement.
- 24) The agreement supersedes all the previous agreements entered into by the USIR with the Government in connection with the supply of water from said source.
- 25) The company should submit their water indent for every rotation to the Executive Engineer, Pune Irrigation Division, Pune on or before starting of the rotation where is located on canal. The Company should also furnish the exact quantity of water actually drawn in each rotation after completion of the rotation.
- 26) The company will have to make an arrangement at its own cost for adequate storage (Balancing Tank), of not less than two months requirement of water in case of perennial canal, five months requirement in case of 8 monthly canal system, four months requirement in case of water source from seasonal river/Nallah and one month water requirement in case of perennial water source of river. Nallah works to take care of the closure period. But if unexpectedly the closure period is increased by more than the specified period stipulated herein the company will have to make an alternative arrangement for its water requirement at its own cost.
- 27) IF THE COMPANY COMMITS A BREACH OF ANY OF THE TERMS AND CONDITIONS THEREOF GOVERNMENT SHALL BE ENTITLED TO CANCEL THIS PERMISSIN AND DISCONTINUE THE SUPPLY OF WATER WITHOUT PAYMENT OF ANY COMPENSATION WHATSOEVER TO THE COMPANY.
- 28) The Govt. hereby reserves to itself its right to change or amend/modify (hereafter) be any of the terms and conditions, rules and regulations of water usage, extent and Maharashtra Irrigation Act and rules laid under them which shall be applicable for this agreement.

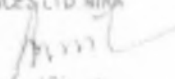
IN WITNESS WHEREOF THE common Seal for Jubilant Life Sciences Ltd. Nimbur Village, Tal-Baramati, Dist-Pune has been hereto affixed

And

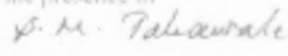
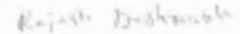
The executive Engineer Pune Irrigation Division, Pune has for and on behalf of the Governor of Maharashtra hereto set his hand and affixed the seal of his office the day and year first herein above written. The seal of

**JUBILANT LIFE SCIENCES, NIRA
NIMBUT VILLAGE, NIRA (R.S.)
DIST-PUNE-412 102**

For JUBILANT LIFE SCIENCES LTD NIRA


Authorized Signatory

Was pursuant to a resolution of the Board of Directors of the company stated hereto affixed in the presence of

1.  S. M. Takawale
2.  Rajesh Dushankh




Two Directors of the company who in token thereof have hereto set their respective hands in person of

- 1.
- 2.

SIGNED, SEALED AND DELIVERED by Executive Engineer, Pune Irrigation Division, Pune for and on behalf of the Governor of Maharashtra

In the Presence of:-

- 1.
- 2.


SECTION OFFICER
NIRA


Assistant Engineer Gr.1
Nira Irrigation Sub-Division
Nira




Executive Engineer
Pune Irrigation Division, Pune.

Annexure 4 : Photographs of Green belt



Annexure 5:AAQ Monitoring

AKANKSHA ANALYTICAL & RESEARCH LAB

Environment Laboratory Recognized by MoEF, Govt. New Delhi,
Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63
An ISO 9001:2008, OHSAS18001:2007 Certified company
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



ANALYSIS REPORTS FOR AMBIENT AIR MONITORING			
Sample Report No.	AL/TR/38-923/17-18		
Name of Client	M/S. JUBILANT LIFE SCIENCES LIMITED, GAT NO. 25, 26, 27,28,32,45, VILLAGE - NIMBUT - NIRA, NIMBUT, TAL. - BARAMATI, DIST. - PUNE.		
Work Order No.	410439, DT. 19/12/2017		
Sample Collected By	Akanksha Analytical and Research Lab		
Date Of Sampling	11/12/2017	Time of Sampling: Daytime & Night	
Report Date	16/12/2017	Inward No	AI/5-307/01/17-18
AMBIENT AIR MONITORING LOCATION DETAILS			
Location	Bio Compost		
Lateral Distance	0.5		
Receptor Height Level	1.60 meter from ground		
Duration	24 Hours		
Temperature	27.5°C		
POLLUTIONAL PARAMETERS			
PARAMETER	RESULTS	LIMITS	UNITS
Sulphur Dioxide (SO ₂)	8.15	≤ 80	µg/m ³
Oxides of Nitrogen (NO ₂)	6.60	≤ 80	µg/m ³
Particulate Matter (PM ₁₀)	33.9	≤ 100	µg/m ³
Particulate Matter (PM _{2.5})	7.50	≤ 60	µg/m ³
Ozone (O ₃) (1 hour)	5.60	≤ 180	µg/m ³
Lead (Pb)	BDL	≤ 1.0	µg/m ³
Carbon Monoxide (CO) (8 hrs)	0.40	≤ 02	mg/m ³
Ammonia (NH ₃)	BDL	≤ 400	µg/m ³
Benzene (C ₆ H ₆)	BDL	≤ 05	µg/m ³
BenzoPyrene (BaP)	BDL	≤ 01	µg/m ³
Arsenic (As)	BDL	≤ 06	µg/m ³
Nickel (Ni)	BDL	≤ 20	µg/m ³
REMARKS / OBSERVATIONS:			
<ul style="list-style-type: none"> ➤ All above results are within National Ambient Air Quality Standards. ➤ BDL – Below Detectable Limit. 			
For Akanksha Analytical & Research Lab			
			
(Lab In charge)			

Annexure 6 : Treated effluent analysis

AKANKSHA ANALYTICAL & RESEARCH LAB

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Sample Analysis Report

REPORT NO.	AL/TR /29-156/2017-18	DATE OF ISSUE	19/12/2017
INWARD NO.	AL/ W/12-47/10/2017-18	Order Reference:	Work Order No. -410439
Name and Address	M/S. JUBILANT LIFE SCIENCES LIMITED, GAT NO. 25, 26, 27,28,32,45, VILLAGE - NIMBUT - NIRA, NIMBUT, TAL. - BARAMATI, DIST. - PUNE.		
Sample Description / Type	CETP OULET EFFLUENT SAMPLE	Sample Collected by	AARL
Sampling Location	--	Sample Quantity / Packing	1 Lit. x 1 Bottles
Date of Sampling	11/12/2017	Date of Sample Receipt	12/12/2017
Sampling Procedure	APHA 22 nd Edition, Part 1060, Page 1-39 & 1-43		
Date of Start of Analysis	12/12/2017	Date of Completion of Analysis	19/12/2017

SR	PARAMETER	RESULTS	LIMITS PRESCRIBED BY M.P.C.B.	METHOD OF ANALYSIS
1	pH	7.21	6.5 TO 8.5	APHA 22 nd Edition, Part 4500-H ⁺ B, Page 4-92
2	T. S. S.	18.0	(NOT TO EXCEED) 100 mg / Lit.	APHA 22 nd Edition, Part 2540D, Page 2-66
3	B. O. D. FOR 3 DAYS AT 27 ° C.	14.0	(NOT TO EXCEED) 100 mg / Lit.	APHA 22 nd Edition, Part 5210B, Page 5-5
4	C.O.D	75.0	(NOT TO EXCEED) 250 mg / Lit.	APHA 22 nd Edition, Part 5220B, Page 5-17
5	OIL & GREASE	BDL	(NOT TO EXCEED) 10 mg / Lit.	APHA 22 nd , Part 5520 B, Page 5-40
6	NITRATES AS N	0.25	(NOT TO EXCEED) 10 mg / Lit.	APHA 22 nd Edition, Part 4500-NO ₃ B, Page 4-122
7	ARSENIC	NIL	(NOT TO EXCEED) 0.2 mg / Lit.	APHA 21 ST EDITION, PART 3500-AS B, PAGE 3-61
8	HEXAVALENT CHROMIUM	NIL	(NOT TO EXCEED) 0.1 mg / Lit.	APHA 22 nd Edition, Part 3500B, Page 3-69
9	TOTAL CHROMIUM	NIL	(NOT TO EXCEED) 1.0 mg / Lit.	APHA 22 nd Edition, Part 3111B, Page 3-18
10	LEAD	NIL	(NOT TO EXCEED) 0.1 mg / Lit.	APHA 22 nd Edition, Part 3110, Page 3-14
11	CYANIDE AS CN	NIL	(NOT TO EXCEED) 0.2 mg / Lit.	APHA 22 nd Edition, Part 4500-CN C, Page 4-43
12	ZINC	NIL	(NOT TO EXCEED) 0.5 mg / Lit.	APHA 22 nd Edition, Part 3111 B, Page 3-18
13	MERCURY	NIL	(NOT TO EXCEED) 0.01 mg / Lit.	APHA 16 th Edition, Part 320-B, Page 232
14	COPPER	NIL	(NOT TO EXCEED) 2.0 mg / Lit.	APHA 22 nd Edition, Part 3111B, Page 3-18
15	NICKEL	NIL	(NOT TO EXCEED) 2.0 mg / Lit.	APHA 22 nd Edition, Part 3500 and 3111B and CB, Page 3-108
16	PHENOLICS AS C ₆ H ₅ OH	NIL	(NOT TO EXCEED) 5.0 mg / Lit.	APHA 22 nd Edition, Part 5530 B, C, D, Page 5-44 to 49
17	SULPHIDES	0.10	(NOT TO EXCEED) 2.0 mg / Lit.	APHA 22 nd Edition, Part 4500 S ² D, Page 4-175
18	BIO - ASSAY TEST (ON FISH)	PASSES	90 % SURVIVAL IN 96 Hrs.	APHA 21 ST EDITION, PART 8910 C, PAGE 8-151.
19	TDS	740	2100 mg / Lit. MAX	APHA 22 nd Edition, Part 2540C, Page 2-65, Gravimetric Method

NOTE: - ALL VALUES ARE IN mg / Lit., EXCEPT pH.

BDL :- Below Detectable Limit

[Signature]
Verified by
(Analyst)


[Signature]
Authorized by
Mr. S.R. Warnulkar
(Lab In-Charge)

Annexure 7 : Stack emission monitoring

AKANKSHA ANALYTICAL & RESEARCH LAB

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Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727

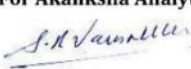


ANALYSIS REPORT FOR SOURCE EMISSION MONITORING			
Sample Report No.	AL/TR/ST/38-925/17-18		
Name of Client	M/S. JUBILANT LIFE SCIENCES LIMITED, GAT NO. 25, 26, 27,28,32,45, VILLAGE - NIMBUT - NIRA, NIMBUT, TAL. - BARAMATI, DIST. - PUNE.		
Work Order No.	410439, DT. 19/12/2017		
Sample Collected By	AARL		
Date Of Sampling	11/12/2017	Time of Sampling: Daytime : 12:30 to 13:00	
Report Date	16/12/2017	Inward No	Al/4-175/03/17-18
PARTICULARS OF STACK			
STACK DETAILS			
Stack attached to	FURNACE AC20 – I		
Shape	Round		
Diameter of stack	0.45 m		
Height above G.L.	33 mtr.		
Stack Area	0.1589 m ²		
Flue Gas Temperature	205 ^o C		
Material of Construction	MS		
Velocity of Gases	6.83 m/s		
Volume of Gases	2438.16 Nm ³ /hr		
Differential Pressure	2.71 mmWG		
Fuel type & Consumption	LDO		
POLLUTIONAL PARAMETERS			
PARAMETER	RESULTS	LIMITS	UNITS
Total Particulate Matter	52.6	≤ 150	mg/Nm ³
Sulphur Dioxide (SO ₂)	112.21	≤ 180	Kg/day
Sulphur Dioxide (SO ₂)	1917.6	--	Mg/Nm ³
Sulphur Dioxide (SO ₂)	680	--	ppm
Oxides of Nitrogen	5.07	--	Mg/Nm ³
Oxides of Nitrogen	2.50	--	ppm
Note :- Monitoring results are well within the limits prescribed by MPCB			
For Akanksha Analytical & Research Lab			
			
(Lab In charge)			

AKANKSHA ANALYTICAL & RESEARCH LAB

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Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



ANALYSIS REPORT FOR SOURCE EMISSION MONITORING			
Sample Report No.	AL/TR/ST/38-926/17-18		
Name of Client	M/S. JUBILANT LIFE SCIENCES LIMITED, GAT NO. 25, 26, 27,28,32,45, VILLAGE - NIMBUT - NIRA, NIMBUT, TAL. - BARAMATI, DIST. - PUNE.		
Work Order No.	410439, DT. 19/12/2017		
Sample Collected By	AARL		
Date Of Sampling	11/12/2017	Time of Sampling: Daytime : 13:15 to 13:45	
Report Date	16/12/2017	Inward No	AI/4-175/04/17-18
PARTICULARS OF STACK			
STACK DETAILS			
Stack attached to	FURNACE AC20 – I I		
Shape	Round		
Diameter of stack	1.30 m		
Height above G.L.	48mtr.		
Stack Area	1.3266 m ²		
Flue Gas Temperature	217 ⁰ C		
Material of Construction	MS		
Velocity of Gases	6.64 m/s		
Volume of Gases	19303.06Nm ³ /hr		
Differential Pressure	2.50 mmWG		
Fuel type & Consumption	FO		
POLLUTIONAL PARAMETERS			
PARAMETER	RESULTS	LIMITS	UNITS
Total Particulate Matter	58.9	≤ 150	mg/Nm ³
Sulphur Dioxide (SO ₂)	128.03	≤ 1542	Kg/day
Sulphur Dioxide (SO ₂)	276.36	--	Mg/Nm ³
Sulphur Dioxide (SO ₂)	98	--	ppm
Oxides of Nitrogen	5.68	--	Mg/Nm ³
Oxides of Nitrogen	2.80	--	ppm
Note :- Monitoring results are well within the limits prescribed by MPCB For Akanksha Analytical & Research Lab  (Lab In charge)			

Annexure 8 : Noise Monitoring

AKANKSHA ANALYTICAL & RESEARCH LAB

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Under E.P. Act 1986, vide GR No. S.O. 1680 (E) Sr. No. 63
An ISO 9001:2008, OHSAS18001:2007 Certified company
Approved from "AGMARK" Vide fileNo.11036/15/99/Lab./2727



ANALYSIS REPORTS FOR AMBIENT NOISE

REPORT NO.	AL/TR/NS/38-930/17-18	Inward No.	AL/5-307/8/17-18
Name and Address	M/S. JUBILANT LIFE SCIENCES LIMITED, GAT NO. 25, 26, 27,28,32,45, VILLAGE - NIMBUT - NIRA, NIMBUT, TAL. - BARAMATI, DIST. - PUNE.		Order Reference: As per the Work Order No. 410439, DT. 19/12/2017
Sample Description / Type	NOISE	Sample Collected by	Our Representative
Sampling Location	INSIDE FACTORY	Time of Sampling	24 Hrs.
Date of Sampling	11/12/2017	Date of Report	16/12/2017

SR	LOCATION	SOUND LEVEL IN dB (A)		LIMITS PRESCRIBED BY MPCB
		RESULT		
		Average reading of day time 6.00 am to 10,00 pm	Average reading of night time 10.00 pm to 6,00 am	
1.	Near Bio- Gas area	70.2	60.1	75 dB(A) during day time between 6 a.m. to 10 p.m., 70 dB (A) during night time between 10 p.m. to 6 a.m.
2.	Near Dispatch area	69.9	52.5	
3.	Near main gate	64.8	53.2	
4.	Near Acetic Acid Tank area	70.8	61.3	
5.	Near RO Plant	68.5	60.0	

Note :- Monitoring results are well within the limits prescribed by MPCB

For Akanksha Analytical & Research Lab

S.H. Vannelli

(Lab In charge)

Annexure 9 : OHS report

FORM NO - 2
HEALTH REC. - 16th 18 (17)
To: Name of the Company
ARJUNANT LIFE SCIENCES LTD.,
MUMBAI, DIST. PUNE

From: Dr. P. K. BHAMBHA
MULLA, JOGGAJI LKS
Certifying Surgeon,
DCL, PUNE

Section 8 - Detailed summary of reason for transfer or discharge should be stated
Section 11 - Should be completed as per / Under / Suspended

Sl. No.	Employee No.	Name of worker	DOB	4	5	6	7	8	9	10	11	12	13	14	15
NO	Contract		DD	DATE OF BIRTH	DATE OF TRANSFER TO OTHER WORK	REASON FOR TRANSFER	DATE OF TRANSFER TO OTHER WORK	REASON FOR TRANSFER	DATE OF TRANSFER TO OTHER WORK	REASON FOR TRANSFER	DATE OF TRANSFER TO OTHER WORK	REASON FOR TRANSFER	DATE OF TRANSFER TO OTHER WORK	REASON FOR TRANSFER	DATE OF TRANSFER TO OTHER WORK
1	3000495	UDAY B. DESAI	M	48											
2	3000558	CHANDRASHEKHAR D. DAVE	M	54											
3	3000548	ARUN B. BATE	M	47											
4	3000125	ANIL E. HIRKARHARSHI	M	51											
5	3000455	ANIL A. SHAIKH	M	50											
6	3000610	CHANDRANATH S. RAMANATH	M	50											
7	3000820	SHRIPATHI P. BHARDE	M	50											
8	3000745	MANISH S. GURJARI	M	30											
9	3000110	DEE P. S. JOSHI	M	50											
10	3000280	CHANDRANATH S. RAMANATH	M	50											
11	3000020	VIJAY M. CHAVAN	M	54											
12	3000090	VIJAY S. KARANDE	M	51											
13	3000200	MAHESH S. KARANDE	M	51											
14	3000200	MAHESH S. KARANDE	M	51											
15	3000220	MAHESH S. KARANDE	M	51											
16	3000220	MAHESH S. KARANDE	M	51											
17	3000220	MAHESH S. KARANDE	M	51											
18	3000220	MAHESH S. KARANDE	M	51											
19	3000220	MAHESH S. KARANDE	M	51											
20	3000220	MAHESH S. KARANDE	M	51											
21	3000220	MAHESH S. KARANDE	M	51											
22	3000220	MAHESH S. KARANDE	M	51											
23	3000220	MAHESH S. KARANDE	M	51											
24	3000220	MAHESH S. KARANDE	M	51											
25	3000220	MAHESH S. KARANDE	M	51											
26	3000220	MAHESH S. KARANDE	M	51											
27	3000220	MAHESH S. KARANDE	M	51											
28	3000220	MAHESH S. KARANDE	M	51											
29	3000220	MAHESH S. KARANDE	M	51											
30	3000220	MAHESH S. KARANDE	M	51											
31	3000220	MAHESH S. KARANDE	M	51											
32	3000220	MAHESH S. KARANDE	M	51											
33	3000220	MAHESH S. KARANDE	M	51											
34	3000220	MAHESH S. KARANDE	M	51											
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37	3000220	MAHESH S. KARANDE	M	51											
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42	3000220	MAHESH S. KARANDE	M	51											
43	3000220	MAHESH S. KARANDE	M	51											
44	3000220	MAHESH S. KARANDE	M	51											
45	3000220	MAHESH S. KARANDE	M	51											
46	3000220	MAHESH S. KARANDE	M	51											
47	3000220	MAHESH S. KARANDE	M	51											
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49	3000220	MAHESH S. KARANDE	M	51											
50	3000220	MAHESH S. KARANDE	M	51											
51	3000220	MAHESH S. KARANDE	M	51											
52	3000220	MAHESH S. KARANDE	M	51											
53	3000220	MAHESH S. KARANDE	M	51											
54	3000220	MAHESH S. KARANDE	M	51											

Total
3000220-3000220
3000220-3000220
3000220-3000220

राजु श्रीवास्तवला 'डी' कंपनीकडून समझी ?

मुंबई, 30 जानेवारी / प्रतिनिधी

मुंबईत मु. च्या राजु श्रीवास्तवला 'डी' कंपनीकडून समझी करायला येत आहे. राजु श्रीवास्तवला 'डी' कंपनीकडून समझी करायला येत आहे. राजु श्रीवास्तवला 'डी' कंपनीकडून समझी करायला येत आहे.

सीमाप्रदनावरून शिवसेनेचा भाजपवर दबाव

मुंबई, 30 जानेवारी / प्रतिनिधी

राज्यपालाकडे शिवसेनेचा दबाव आहे. राजु श्रीवास्तवला 'डी' कंपनीकडून समझी करायला येत आहे.

पंतप्रधान आज घरी परराष्ट्राची शक्यता

मुंबई, 30 जानेवारी / प्रतिनिधी

पंतप्रधान आज घरी परराष्ट्राची शक्यता आहे. राजु श्रीवास्तवला 'डी' कंपनीकडून समझी करायला येत आहे.

प्रतीक्षा करत केंद्रात्मिक अर्थव्यवस्था

मुंबई, 30 जानेवारी / प्रतिनिधी

प्रतीक्षा करत केंद्रात्मिक अर्थव्यवस्था आहे. राजु श्रीवास्तवला 'डी' कंपनीकडून समझी करायला येत आहे.

पंचायत राज विषयक मंत्रालय

मुंबई, 30 जानेवारी / प्रतिनिधी

पंचायत राज विषयक मंत्रालय आहे. राजु श्रीवास्तवला 'डी' कंपनीकडून समझी करायला येत आहे.

NETWORK

ion agreement on Monday

make up the Nuclear Suppliers' Group (NSG) agreed in September to lift a three-nation global ban on nuclear trade with India, paving the way for the fuel and technology deal. The ban had been in place since 1974, when the NSG carried out its first nuclear test.

India is ready to accept the NSG's conditions for lifting the ban, which includes a requirement for India to accept the NSG's 'no first use' policy and to accept the NSG's 'no export to non-nuclear-weapon states' policy.

ENVIRONMENTAL CLEARANCE

Environmental Clearance for projects of Atomic Fuel Refabrication, Gas Processing, Uranium Enrichment, and other nuclear activities. The clearance is granted for a period of 5 years from the date of issue. The clearance is granted for a period of 5 years from the date of issue.



THE INDIAN HOTELS COMPANY LIMITED

AUDITED STATEMENT OF FINANCIAL RESULTS FOR THE NINE MONTHS ENDED DECEMBER 31, 2008

Particulars	Quarter Ended	Quarter Ended	Quarter Ended	Quarter Ended	Year Ended
	Mar 31, 2008	Dec 31, 2007	Dec 31, 2008	Dec 31, 2007	Mar 31, 2008
Total Revenues from Operations	481.24	405.15	1088.42	1023.58	1994.23
Other Operating Income	73.20	97.02	182.50	142.51	395.23
Total Income	554.44	502.17	1270.92	1166.09	2389.46
Expenses	28.75	35.79	64.42	30.99	124.24
Depreciation	68.58	77.75	174.67	122.58	343.58
Finance Costs	30.38	31.71	71.53	69.80	102.73
Income Tax	20.21	21.78	78.16	69.47	109.72
Provision for Employee Benefits	27.84	21.11	65.09	64.88	98.94
Other Expenses	119.97	118.49	278.51	231.74	429.11
Total	315.62	206.63	662.38	520.46	1108.32
Profit from Operations before Other Income, Interest and Exceptional Items	238.82	295.54	608.54	645.63	1281.14
Other Income	21.62	4.37	74.71	77.31	41.92
Profit before Interest and Exceptional Items	260.44	300.91	683.25	722.94	1323.06
Interest	21.82	25.37	61.00	72.21	90.23
Profit after Interest but before Exceptional Items	238.62	275.54	622.25	650.73	1232.83
Exceptional Item - Charge (Gain) (Loss) (Net)	(8.01)	2.28	(37.41)	21.73	17.19
Profit from Ordinary Activities before Tax	230.61	277.82	584.84	672.46	1250.02
Provision for Tax (including Deferred Tax)	45.47	15.72	86.18	121.72	184.36
Provision for Fringe Benefits Tax	1.76	1.28	4.26	3.88	4.80
The Provision of other years (Net)	—	—	—	—	—
Profit from Ordinary Activities after tax	183.38	160.78	494.40	546.86	1060.86
Dividend Income	72.84	67.20	72.34	60.25	62.73
Income from other sources	1.18	2.89	3.74	3.71	5.77
Aggregate of Public Subsidies	—	—	—	—	—
Profit	257.40	230.87	668.48	670.86	1130.36
Minority Interest	70.47	75.84	70.47	75.84	70.47

1. An auditor has been appointed in the month of January 2009 to audit the financial statements of the Company for the year ending 31st March 2009. The auditor's report is expected to be ready by the end of February 2009. The Company is pleased to announce that the auditor's report is expected to be ready by the end of February 2009.

Annexure 11 : Consent to Establish

MAHARASHTRA POLLUTION CONTROL BOARD																											
Phone :	4010437/4020781 /4037124/4035273		Kalpataru Point, 3rd & 4th floor, Sion- Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai - 400 022																								
Fax :	24044532/4024058 /4023516																										
Email :	enquiry@mpcb.gov.in																										
Visit At :	http://mpcb.gov.in																										
<i>Red/L.S.I</i>	<i>Date: 17/12/2011</i>																										
<i>Consent No: BOPAMS/Amend/E/EIC NO.PN-11361-11/CC- CAC- 79</i>																											
Consent to Establish under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008																											
[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].																											
.....																											
CONSENT is hereby granted to																											
M/s Jubilant Life Sciences Ltd Village Nimbut-Nira, Rly Station Nira Tal-Baramati, Dist-Pune																											
located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:																											
1. The Consent to Establish is granted for a period up to: Commissioning of the unit or 5 years whichever is earlier.																											
2. The Consent is valid for the manufacture of -																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sr. No.</th> <th style="width: 50%;">Product Name</th> <th style="width: 20%;">Maximum Quantity</th> <th style="width: 20%;">UOM</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ethyl Alcohol</td> <td>110</td> <td>KL/D</td> </tr> <tr> <td>2</td> <td>Acetic anhydride</td> <td>125</td> <td>Ton/D</td> </tr> <tr> <td>3</td> <td>Ethyl acetate</td> <td>136</td> <td>Ton/D</td> </tr> <tr> <td>4</td> <td>Carbon dioxide-By Product</td> <td>60</td> <td>Ton/D</td> </tr> <tr> <td>5</td> <td>Power</td> <td>12</td> <td>MW</td> </tr> </tbody> </table>				Sr. No.	Product Name	Maximum Quantity	UOM	1	Ethyl Alcohol	110	KL/D	2	Acetic anhydride	125	Ton/D	3	Ethyl acetate	136	Ton/D	4	Carbon dioxide-By Product	60	Ton/D	5	Power	12	MW
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3. CONDITIONS UNDER WATER ACT:																											
(i) The daily quantity of trade effluent from the factory shall not exceed 767.00M ³ .																											
(ii) The daily quantity of sewage effluent from the factory shall not exceed 155.00M ³ . (They shall not increase in the domestic effluent due to the expansion)																											
(iii) Trade Effluent :																											
Treatment: The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 5%;">1</td> <td style="width: 55%;">pH</td> <td style="width: 25%;">Between</td> <td style="width: 15%;">5.5 to 9.0</td> </tr> <tr> <td>2</td> <td>Suspended Solids</td> <td>Not to exceed</td> <td>100 mg/l.</td> </tr> </tbody> </table>				1	pH	Between	5.5 to 9.0	2	Suspended Solids	Not to exceed	100 mg/l.																
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SRO Pune 17rd/Red L.S.191055944			1																								
																											

3	BOD 3 days 27 deg C	Not to exceed	100 mg/l
4	COD	Not to exceed	250 mg/l
5	Oil & Grease	Not to exceed	10 mg/l
6	Total Dissolved Solids	Not to exceed	2100 mg/l
7	Chlorides	Not to exceed	600 mg/l
8	Sulphates	Not to exceed	1000 mg/l
9	Total Ammonical Nitrogen	Not to exceed	50 mg/l

(iv) **Trade Effluent Disposal:**

- A) Treatment: The applicant shall provide comprehensive treatment system consisting of multi effect evaporator followed by well slop boiler, Potash Rich Ash from slop boiler will be mixed in the bio-compost of existing plant. The trade effluent from Ethyl Acetate Plant will be recycled to Alcohol Distillery.

The arrangements provided for the above treatment shall be leak proof and no effluent or leakage / seepage shall find its way into the environment thereby causing pollution of surface ground / generated water. In no case, at any time effluent shall find its way to any water body directly or indirectly.

(They shall be zero discharge due to the proposed expansion in production as listed in Sr. No 2 above)

Conditions for Aerobic Composting:

- i) The spent wash should be stored in impervious tanks. The spent wash tanks should have proper lining with HDPE and should be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation and undertaking given by the company, storage should not exceed 30 days capacity.
- ii) Applicant shall ensure availability of adequate filter material such as press mud, baggasses, agricultural, biological waste as required for effective composting system. Documentary evidence to this effect shall be submitted to the Board.
- iii) Composted material shall meet the following specifications:-

Moisture	...	30 to 35 %
C/N	...	Below 17
Nitrogen	...	1.5 to 2 %
Phosphorous	...	1.5 to 2 %
Pottasium	...	3 to 4 %
- iv) The composting shall be such that it includes mechanical mixing and spraying of spent wash alongwith mechanical aeration to ensure thorough composting. Hand / Manual spraying of spent wash shall not be permitted.
- v) The compost leachate (1 gr of compost mixed with 100 ml of distilled water and filtered) Filtrate shall conform to the following limit.

pH	...	Between 7.5 to 8.0
BOD 3 days 27 ° C	...	30 mg/l
- vi) A pucca leak proof guard pond of sufficient holding capacity should be provided to cope up with the effluent discharge during short term process disturbances or in monsoon. In case of prolonged disturbance in effluent treatment and disposal system concerned units shall be shut down and shall not be restarted without rectifying the system.



- vii) The composting yard site shall be made leak proof by proper lining. A catch drain shall be provided around the composting site to collect the storage pond for application on compost depots. Arrangements for over turning of compost material in windrows and spraying of spent wash shall be made to ensure appropriate aeration and uniform distribution of spent wash.
 - viii) In case of composting in open fields, the application of spent wash shall stop by end of April, so that compost is ready and the site is cleared of the composted manure before monsoon (i.e.31st May). The manure shall be collected and stored on a raised platform with suitable rain cover so that the compost manure is not washed away by rain / runoff.
 - ix) Characteristic of soil, ground water and effect on crop yield should monitored in the area where compost is used as manure and results thereof shall be compiled and reported in the Environment Statement to be submitted every year.
 - x) The test wells shall be provided around the compost site for ground water monitoring. The well water quality has to be maintained at 2006 level.
 - a) Adequate numbers of ground water quality monitoring stations by providing piezometers around the compost plant and the project area should be set up sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SRCB.
 - xi) Top pullover impervious sheets shall be provided for entire compost yard pressmud and compost storage so as to cover the same during untimely rains and idle period.
 - xii) The operation of distillery should be restricted to 270 days in a year and that it will not operate during rainy season.
- (v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.
- | | | | |
|-----------------------|---------------|-----|-------|
| (1) Suspended Solids | Not to exceed | 100 | mg/l. |
| (2) BOD 3 days 20° C. | Not to exceed | 100 | mg/l. |

- (vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening/ plantation only

(vii) **Non-Hazardous Solid Wastes:**

Sr. No.	Type Of Waste	Quantity	UOM	Treatment Disposal
1	Fermentation slud	8.00	Tons/D	Bio-composting
2	Coal Ash from imported coal.	47.00	Tons/D	Brick Mfg and Land filling

- (viii) **Other Conditions:** Industry should monitor effluent quality regularly.

4. CONDITIONS FOR MOLASSES STORAGE:

- i) The molasses shall be properly collected and stored in steel tanks which shall be absolutely leak proof. At no stage of handling of molasses, there shall be leakage of spillage.



- ii) The capacity of tanks for storage of molasses shall be such that at no time the molasses shall be required to be stored in kutch pits. Adequate space storage capacity shall be available to take care of bumper production of sugar, non-lifting of molasses etc.
- iii) All the area on which molasses are stored and handled should be provided with drain for diverting the spills to the treatment plant / molasses tank. Suitable arrangements for accidental discharges of molasses from the tanks shall be provided to contain the same within factory premises.
- iv) Destruction of molasses and its disposal shall not be done without specific permission in writing from the authorized officer of the Board, intimation of intention to destroy or dispose of the molasses shall be given to the Board at least 15 (fifteen) days in advance by registered post under intimation to the Sub Regional Officer and Regional Officer of the Board under whose jurisdiction the factory is situated.
- v) The storage tanks shall be kept in good conditions all the year round with adequate maintenance. The tanks size and capacity per cm. height, total capacity in tones shall be displayed prominently near the tank.
- vi) The above conditions shall be in addition to and not in derogation of the provisions contained in the "Bombay Molasses Rules, 1955" and "Maharashtra Storage and Supply Regulation, 1965"
- vii) The industry should monitor effluent quality regularly.

5. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

(i) Domestic purpose	158.00 CMD
(ii) Water gets Polluted & Pollutants are Biodegradable ...	1606.00 CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic ...	0.00 CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed ...	3884.00CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

6. CONDITIONS UNDER AIR ACT:

(A) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

a) Control Equipment:

- I. ESP for new high pressure coal fired boiler and bag filters for stop fired boiler.
- II. There shall not be any secondary (fugitive) emissions.

b) Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	150 mg/Nm ³
(ii) SO ₂	Not to exceed	7200 Kg/day



7. Standards for Stack Emissions:

- (i) The applicant shall observe the following fuel pattern:-

Sr. No.	Type Of Fuel	Quantity	UOM
1	Coal	310.00	MT /D
2	Spent Wash cake	25.00	MT /D

- (ii) The applicant shall erect the chimney(s) of the following specifications:-

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler F (High Pressure Boiler)	75.00
2	Boiler G (Slop Fired Boiler)	45.00
3	Furnace -AC20II Plant	47.00
4	D.G Set (600KVA)	4.00

- (iii) The applicant shall provide ports in the chimney(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- (iv) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- (vi) **Other Conditions:**
- 1) The industry should not cause any nuisance in surrounding area.
 - 2) The industry should monitor stack emissions and ambient air quality Regularly.

8. C.R.E.P. Conditions for Distillery:

- 1) Existing Molasses – Based Distilleries

Non-compliant distilleries will furnish bank guarantee and action plan to concerned State Boards to ensure compliance with any of combination of the following measures

- i) Compost making with press mud / agricultural residue /Municipal Waste.
- ii) Concentration and drying /incineration.
- iii) Treatment of spent wash through bio-methanation followed by two stage secondary treatment and dilution of treated effluent with process water for irrigation as per norms prescribed by CPCB/MoEF.
- iv) Treatment of spent wash through bio-methanation followed by secondary treatment (BOD<2500 mg/l) for controlled discharge into sea through a proper submerged marine outfall at a point permitted by SPCB/CPCB in consultation with National Institute of Oceanography (NIO) so that Dissolved Oxygen in the mixing zone does not deplete.



- v) For taking decision on feasibility of one time controlled land application of treated effluent a study will be undertaken within three months.

Road map for utilization of spent wash by the distilleries to achieve zero discharge in inland surface water courses will be as -100 % utilization of spent wash.

Till 100% utilization of spent wash is achieved controlled and restricted discharge of treated effluent from lined lagoons during rainy season will be allowed by SPCB/ CPCB in such a way that the perceptible colouring of river water bodies does not occur.

9. Conditions for D.G. Set

- Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
- Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
- D.G. Set shall be operated only in case of power failure
- The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

10. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:

- (i) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	1.2 Tarry residues	6520.00	Kg/M	CHWTSDF for incineration
2	20.1 Contaminated aromatic, aliphatic or naphthenic solvents	3000.00	Kg/M	CHWTSDF for incineration
3	5.1 Used /spent oil	630.00	Ltr/M	Send to authorized recycler

- (ii) Treatment: - NIL



11. Industry shall comply with following additional conditions:

- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
 - ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
 - iii. Solid waste – The non hazardous solid waste arising in the factory premises, sweepings, etc., be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal to dumping ground.
 - iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
 - v. The applicant shall not change or alter quantity, quality, the rate of discharge, temperature or the mode of the effluent / emissions or hazardous wastes or control equipments provided for without previous written permission of the Board.
 - vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
 - vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
 - viii. The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
 - ix. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
 - x. The applicant shall install a separate electric meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
 - xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection System.
 - xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
10. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
11. The industry shall comply the Environmental Clearance conditions obtained from MoEF, dated 23/12/2008 and amended dated 21/12/2010.



12. The industry shall apply for amalgamation of consents.
13. The applicant shall obtain consent to operate before starting actual commercial Production.
14. This consent is issued subject to no increase in pollution load due to change in product mix
15. This Consent is issued pursuant to the decision of Consent Appraisal Committee meeting of the Board held on 07/12/2011.
16. This amended consent granted has an overriding effect to earlier consent vide No MPCB/PCI-III/EIC No. PN-1810-07/CC-251, dated 22/08/2008, valid upto commissioning of the unit.
17. The Capital investment of Proposed Activity is Rs 42.69 Crores and total Capital investment of the five (5) units (existing and proposed) is Rs. 300.22 Crores .




 10.12
 (Milind Mhaskar, IAS)
 Member Secretary

To,
M/s Jubilant Life Sciences Ltd
 Village Nimbut-Nira, Rly Station Nira
 Tal-Baramati, Dist-Pune

Copy to:
 Regional Officer, MPCB, Pune / SRO, Pune I
 They are directed to ensure the compliance of consent conditions.
 Chief Accounts Officer, Ess Branch, MPCB / Master file.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	25000/-	028514	29 Sep 2011	ICICI Bank
2	50000/-	126274	05 Oct 2011	SBI Bank

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
 /4037124/4035273
 Fax : 24044532/4024068 /4023516
 Email : enquiry@mpcb.gov.in
 Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga
 Scheme Road No. 8, Opp. Cine Planet Cinema, Near
 Sion Circle, Sion (E),
 Mumbai - 400 022

Consent order No :- *Formate 1.0/ BO/CAC-Cell/ EIC No PN-27478-15/15th CAC/ 8091*
 Date- 20/06/2016

To,
 M/s Jubilant Lifesciences Ltd,
 Gat No 25/26/27/28/32/45, Village Nira Nimbhut,
 Tal-Baramati, Dist-Pune.

Subject: Consent to Establish for production of 99.8% Ethyl alcohol (Anhydrous alcohol) from 94% Rectified Spirit as a raw material under RED category.

Ref : 1. Existing Consent BO/PAMS/R/Amendment/EIC NO PN-15050-12/CAC-4371 dtd 21.05.2013

2. Your application approved in CAC meeting held on 09.03.2016.

Your application: CE1512000337

Dated: 31.10.2015

For: Consent to Establish for production of 99.8% Ethyl alcohol (Anhydrous alcohol) from 94% Rectified Spirit as a raw material under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule II III & IV annexed to this order:

- The consent is granted for a period up to Commissioning of the unit or Five years whichever is earlier.
- The proposed capital investment of the industry is Rs.10 Crs. (As per Undertaking submitted by industry). The total capital investment of the industry is Rs 198.08 crs + Rs 10 crs = Rs 208.08 crs
- The Consent is valid for

Sr. No.	Product Name	Maximum Quantity
1	Ethyl alcohol 99.8% (Anhydrous alcohol)	100 KLPD*

*The amount of Ethyl alcohol 94% (Existing) and 99.8% (Proposed) shall not exceed 100 KLPD as per the consented limit.

- Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	Nil	N.A	N.A
2.	Domestic effluent	Nil	N.A	N.A

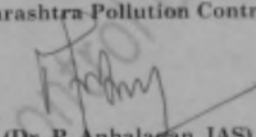
- Conditions under Air (P&CP) Act, 1981 for air emissions: NA
- Conditions about Non Hazardous Wastes: NA

7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
No additional Hazardous Waste is generated due to this activity.						

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. There shall not be any increase in consented pollution load due to the proposed modernization of distillery.
11. The consent is granted without the prejudice of the order passed or being passed by the Hon'ble NGT.

For and on behalf of the
Maharashtra Pollution Control Board


(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	25000	079306	29.10.2015	ICICI
2	100	079307	29.10.2015	ICICI

Copy to:

1. Regional Officer Pune and Sub-Regional Officer-Pune-1, MPCB: They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

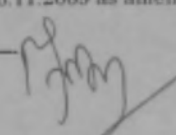
Schedule-I, II & III is not applicable.

Schedule-IV

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly.
- 3) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled
- 8) /processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed, etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 9) The industry should comply with the Hazardous Waste (M.H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M.H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/ Activity
- 12) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 13) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 14) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.



- 16) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 17) The industry should not cause any nuisance in surrounding area.
- 18) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 19) The applicant shall maintain good housekeeping.
- 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 22) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 24) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

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Maharashtra Pollution Control Board

Annexure 12 : Consent to Operate

MAHARASHTRA POLLUTION CONTROL BOARD			
Phone :	4010437/4020781 /4037124/4035273		Kalpataru Point, 3rd & 4th floor, Sion- Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai - 400 022
Fax :	24044532/4024068 /4023518		
Email :	enquiry@mpcb.gov.in		
Visit At :	http://mpcb.gov.in		
Consent order No :- Formate I.0/ BO/CAC-Cell/ UAN NO:0000020570 /4th CAC/ 1712000118			
Date- 06/12/2017			
To,			
M/s. Jubilant Life Sciences Ltd.,			
G. No. 25, 26, 27, 28, 32, 45,			
Village Nimbut Nira, Tal. Baramati, Dist. Pune.			
Subject: Renewal of consent to operate under RED category.			
Ref :1. Formate I.0/ BO/CAC-Cell/ UAN NO:0000014392 /5th CAC/1701000978 dtd. 18.01.2017.			
2. Your application approved in CAC meeting held on 23.08.2017.			
Your application: 0000020570			
Dated: 01.02.2017			
For: Renewal of consent to operate			
under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (M & T) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III, IV annexed to this order:			
1. The consent is granted for a period from date of issue of consent to 31.08.2022.			
2. The total capital investment of the Unit is Rs. 227.35 Cr. (As per C.A. Certificate submitted by industry)			
3. The Consent is valid for the manufacture of -			
Sr. No.	Product / By-Product Name	Maximum Quantity	UoM
1	Vinyl Acetate Monomer (VAM) OR Ethyl Acetate	45 36	MT/D MT/D
2	3-Cyano Pyridine OR Acetic Anhydride	06 52	MT/D MT/D
3	Ethyl Acetate	256	MT/D
4	Ethyl Alcohol (94%) (Rectified spirit)	100	KL/D
5	Ethyl Alcohol (99.8%) (Anhydrous alcohol)		
6	Fusel Oil	13.33	Litrs./D
7	Liquid CO2	50	MT/D
8	Ethyl Acetate * OR Butyl Acetate *	75 40	MT/D MT/D
9	Acetic Anhydride	125	MT/D
10	Alkyl Pyridine -By product	0.18	MT/D
* Only one product at a time			
			
<hr/>			
<small>M/s Jubilant Life Sciences Ltd</small>		<small>Page 1 of 12</small>	

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	Distillery - 1270 (445 after volume reduction)	As per Schedule -I	Bio-digester followed by RO followed by Bio-composting.
		Chemical Plant - 693	As per Schedule -I	327 shall be Recycle in process & remaining 366 shall be used on land for gardening.
2.	Domestic effluent	155	As per Schedule -I	On land for irrigation

Following Conditions as per the previous Consent granted vide dtd. 21.05.2013 shall remain unchanged -

The trade effluent shall not exceed after commencement of chemical production to overall limit and 410 M³/day for proposed expansion. (As per Consent to Establish obtained quantity 767 m³/day)

(At the time of consent to 1st Operate industry shall reduce the Industrial effluent quantity by 73.00 CMD and water consumption by 73.00 CD and for cooling by 403.00 CMD from Consent to establish bearing No.BO/PAMS/Amend/E/EIC No PN-11631-11/CC-CAC-79 dated 17/12/2011)

5. Conditions under Air (P&CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1	Boiler A & B	1	As per Schedule - II
2	Boiler C	1	As per Schedule - II
3	Boiler E	1	As per Schedule - II
4	Boiler D (Stand by)	1	As per Schedule - II
5	Furnace AC2O-I Plant	1	As per Schedule - II
6	Dowtherm Vaporizer	1	As per Schedule - II
7	Ethylene Vent	1	As per Schedule - II
8	Yam Vent	1	As per Schedule - II
9	CO ₂ Vent	1	As per Schedule - II
10	DG set of 380 KVA 2Nos	1	As per Schedule - II
11	Boiler F	1	As per Schedule - II
12	Furnace AC2O-II Plant	1	As per Schedule - II
13	DG Set of 600 KVA	1	As per Schedule - II

6. Conditions under Hazardous & Other Wastes (M & T) Rules, 2016 for treatment and disposal of hazardous waste:

Sr. No.	Type of Waste	Category	Quantity	Disposal
1	Tarry Residues	1.2	9551 Kg/M	CHWTSDF for incineration
2	Contaminated aromatic, aliphatic or naphthenic solvent not fit for originally intended use	20.1	7733 Kg/M	
3	Used/Spent Oil	5.1	943 Litrs./M	Send to Authorized recycler
4	Spent Catalyst	17.2	80.10 Kg/D	CHWTSDF

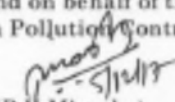
7. Conditions for Non-Hazardous Solid Wastes:

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	CETP Sludge	80	Kg/D	---	Used in Bio-composting
2	Coal Ash	92	MT/D	---	By Sale to brick mfr./Land filling
3	Fermentation Sludge	15	MT/D	---	Used in Composting
4	Coal Tar	1.50	MT/D	---	Sale

8. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
10. Industry shall comply with the Environmental Clearance granted by the MoEF vide dtd. 23.12.2008 and amended dtd. 21.12.2010.
11. Industry shall operate online monitoring system which is installed as per the Directions of CPCB and shall connect/ upload the online monitoring data at MPCB and CPCB server.
12. Consent is issued without prejudice to the order passed or being passed by the Hon'ble NGT Pune in the application bearing no. 7 (THS) 2014 (WZ) filed by Mr. Janardhan Pharande.
13. Industry shall comply the recommendations suggested by NEERI as per the directives of Hon'ble NGT, Pune.
14. The amount of Ethyl Alcohol 94% and Ethyl Alcohol 99.8% shall not exceed 100 KLPD.

15. The consent is granted without prejudice to the order passed or being passed by Hon'ble NGT.

For and on behalf of the
Maharashtra Pollution Control Board


(P.K. Mirashe)

Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs)	DD. No.	Date	Drawn On
1	The balance fees of Rs 644310/- as per the consent no <i>Formate 1.0/BO/CAC-Cell/ UAN NO: 0000014392 /5th CAC/1701000978</i> dtd. 18.01.2017 shall be considered at the time of this renewal of consent			
2	1629190	0198607	02.05.2017	ICICI Bank
3	50000	TXN170500 2893	30.05.2017	

Copy to:

1. Regional Officer - MPCB Pune & Sub -Regional Officer MPCB - Pune - 1 - They are directed to ensure the compliance of the consent conditions. SRO shall submit the verification report of the compliance made by the industry as per recommendations of NEERI and Hon'ble NGT direction.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CAC desk- for record & website updation purposes.

Schedule-1

Terms & conditions for compliance of Water Pollution Control (Chemical Unit):

1) A) As per your application, you have provided the Effluent Treatment Plant (ETP) to the Chemical plant.

B) The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and

Rules made there under from time to time, whichever is stringent.

Sr. No.	Parameters	Standards prescribed by Board	
		Between	6.5 to 8.5
01	pH		
02	Suspended Solids	Not to exceed	100 Mg/l
03	BOD 3 days 27°C	Not to exceed	100 Mg/l
04	COD	Not to exceed	250 Mg/l
05	Oil & Grease	Not to exceed	10 Mg/l
06	Nitrate as N	Not to exceed	10 Mg/l
07	Arsenic	Not to exceed	0.2 Mg/l
08	Hexavalent Chromium	Not to exceed	0.1 Mg/l
09	Total Chromium	Not to exceed	1.0 Mg/l
10	Lead	Not to exceed	0.1 Mg/l
11	Cyanide as CN	Not to exceed	0.2 Mg/l
12	Zinc	Not to exceed	0.5 Mg/l
13	Mercury	Not to exceed	0.01 Mg/l
14	Copper	Not to exceed	2.0 Mg/l
15	Nickel	Not to exceed	2.0 Mg/l
16	Phenolics as C6H2OH	Not to exceed	5.0 Mg/l
17	Sulphide	Not to exceed	2.0 Mg/l
18	Bioassay test 90% survival of fish after first 96 hours in 100% effluent		

C) Out of 693 CMD treated effluent of Chemical Plant 327 CMD shall be Recycle in process & remaining 366 shall be used on land for gardening. In no case effluent shall not find its way to any water body directly or indirectly.

Terms & Conditions for compliance of Water Pollution Control (Distillery Unit):

A) You have provided comprehensive treatment for volume reduction consisting of Bio digester followed by Reverse Osmosis followed by Bio-composting on 22 acres of land to achieve Zero Discharge No any case Spent wash shall be discharged outside the premises and zero discharge shall be maintained.

B) The Spent Wash shall be 100% utilized for bio composting to achieve zero discharge.

C) Conditions for Aerobic Composting:

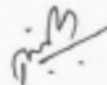
- i. The spent wash should be stored in impervious tanks. The spent wash tanks should have proper lining with HDPE and should be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation and undertaking given by the company, storage should not exceed 30 days capacity.
- ii. Applicant shall ensure availability of adequate filler material such as press mud, bagassees, agricultural, biological waste as required for effective composting system.

iii. Composted material shall meet the following specifications—

Moisture	...	30 to 35%
C/N	...	Below 17
Nitrogen	...	1.5 to 2%
Phosphorous	...	1.5 to 2%
Potassium	...	3 to 4%

- iv. The composting site shall be prepared as per the guideline enclosed. Composting shall be such that it includes mechanical mixing and spraying of spent wash along with mechanical aeration to ensure thorough composting. Hand/ manual spraying of spent wash shall not be permitted.
- v. The compost leachate (1 gr. of compost mixed with 100 ml. of distilled water and filtered) Filtrate shall conform to the following limit.
- | | | |
|-----------------------|---------------|------------|
| pH | Between | 7.5 to 8.0 |
| BOD 3 days 27 Deg. C. | Not to exceed | 30 mg/l. |
- vi. A pucca leak proof guard pond of 30 days holding capacity as per (i) above shall cope up with the effluent discharge during short term process disturbances. In case of prolonged disturbance in effluent treatment and disposal system, distillery shall be shut down and shall not be restarted without rectifying the system.
- vii. The composting site/pits shall be made leak proof by proper lining. A catch drain shall be provided around the composting site to collect the storage pond for application on compost depots. Arrangements for overturning of compost material in windrows and spraying of spent wash shall be made to ensure appropriate aeration and uniform distribution of spent wash.
- viii. In case of composting in open fields, the application of spent wash shall stop by end of April, so that compost is ready and the site is cleared of the composted manure before monsoon (i.e. 31st May). The manure shall be collected and stored on a raised platform with suitable rain cover so that the compost manure is not washed away by rain/runoff.
- ix. Characteristic of soil, ground water and effect on crop yield should be monitored in the area where compost is used as manure and results thereof shall be compiled and reported in the Environment statement to be submitted every year.
- x. The test wells shall be provided around the compost site for ground water monitoring. The well water quality has to be maintained at 2006 level.
- xi. Top pullover impervious sheets shall be provided for entire compost yard, press mud and compost storage so as to cover the same during untimely rains and idles period.
- xii. The operation of distillery should be restricted to 270 days in a year and that it will not operate during rainy season.

- 1) The industry shall create Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
- 2) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines if applicable.



II) Conditions under Water (Prevention & Control of Pollution) CESS Act, 1977 as amended

The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, boiler feed etc.,	5610.00
2.	Domestic purpose	158.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	2500.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	—

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Schedule-II
Terms & conditions for compliance of Air Pollution Control

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) to observe the following fuel pattern-

Sr. No	Stack Attached to	APC System	Height in meter	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/ D
1	Boiler A & B	ESP	60	Coal	130 MT/D	1	1300
2	Boiler C	Stack	50	Biogas	20400 M3/D	2	1550
3	Boiler -E	Stack	50	Biogas	30600 M3/D	2	2000
4	Boiler D (Standby)	Bag filter	40	Coal	20 MT/D	1	200
5	Furnace -AC20-I Plant	Stack	33	LDO	5 KL/D	2	180
				Biogas	550 M3/Hr.	.....	600
6	Dowterm Vapouriser	Stack	20	.....	.....	NA	.....
7	Ethylene Vent	Stack	30	.....	.....	NA	.....
8	Vam Vent	Stack	30	.....	.....	NA	.....
9	CO2 Vent	Stack	25	.....	.....	NA	.....
10	D.G. Set (380 KVA) 2 Nos.	Stack	4	HSD	60 Lit/Hr. (each)	1	28.8
11	Boiler F	ESP	55	Coal	260 MT/D	1	2600
12	Furnace -AC20 -II Plant	---	48	FO	714 Kg/Hr.	2	1542
				Producer Gas	5833 M3/Hr.	--	1700
				Biogas	1555 M3/Hr.	--	1500
13	D.G. Set * (600 KVA)	Stack	4	HSD	120 Lit/Hr.	1	57.6

2. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
3. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
4. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:
- | | | |
|--------------------|---------------|------------------------|
| Particulate matter | Not to exceed | 150 mg/Nm ³ |
|--------------------|---------------|------------------------|
5. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.

6. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

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Maharashtra Pollution Control Board

Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amount of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1.	C to R	Rs. 12.50 Lakh	Submitted	As per the directions issued vide dated 12.06.2014 & 13.10.2015	31.08.2022	31.12.2022
2.		Rs. 2 lakh	Submitted	O & M of pollution control systems & compliance of Consent Conditions.	31.08.2022	31.03.2022

The existing BGs shall be extended for a period upto 31.12.2022.



Schedule-IV
General Conditions

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly.
- 3) The applicant shall provide ports in the chimney(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous & Other Waste (M & T) Rules, 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 8) The industry should comply with the Hazardous & Other Waste (M & T) Rules, 2016 and submit the Annual Returns as per Rule 6(5) of Hazardous & Other Waste (M & T) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) **The applicant shall make an application for renewal of the consent before 60 days from the date of the expiry of the consent.**
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
- 12) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 14) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 15) **Conditions for D.G. Set**

- a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
- f) D.G. Set shall be operated only in case of power failure.
- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 16) The industry should not cause any nuisance in surrounding area.
- 17) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 18) The applicant shall maintain good housekeeping.
- 19) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
- 20) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 21) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 22) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 24) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 25) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
- 26) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

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