

PREFEASIBILITY REPORT

FOR

**PROPOSED DISTILLERY EXPANSION FROM
60 KLPD TO 240 KLPD**

AT

**Gat No. 196/1, Pravara Nagar Loni, Rahata, Ahmednagar,
Maharashtra**

PROJECT PROPONENT

***Pad. Dr. Vitthalrao Vikhe Patil Sahakari Sakhar
Karkhana Ltd.***

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1. EXECUTIVE SUMMERY-

Introduction

Padmashri Dr. Vitthalrao Vikhe Patil SSKL (PDVVPSSKL) is was registered under section 10 of Bombay Act VII of 1925, the registration number of the Society is G 254 of 1948 in December 10th, 1948, with site located at Pravaranagar, Tal-Rahata, Dist- Ahmednagar, Maharashtra - 413 712.

PDVVPSSK (Pravaranagar Unit), is an existing sugar factory, which is established in the year 1950, for manufacturing of Sugar with 1250 TCD capacity. Distillery was established in the year 1970 for capacity 15 KLPD, expansion of distillery was done from 15 KLPD to 32 KLPD in the year 1975. Another Unit of 60 KLPD molasses based distillery is established in the Year 2002 in the same Plot area. Two Units of capacity 32 KLPD and 60 KLPD was amalgamated in the year 2007 with Total 92 KLPD Molasses Based Distillery Unit, now unit is proposing the expansion up to 240 KLPD.

All Existing capacity wise CTO details are as follows-

Sr. No.	Capacity	CTO Received in the year	Remarks
1.	15 KLPD	Ist CTO- 1970	
2.	32 KLPD	Ist Expansion - 1975	Amalgamation of CTO for both plant of Capacity 60 KLPD and 32 KLPD was done in the year 2007.
3.	60 KLPD	New Plant Establishment in the same plot - 2002	
4.	92 KLPD- Amalgamation of two Plant	Amalgamation of the two plants.	

The promoters have extensively and carefully analyzed the present and future scenario of central Govt. policies for promotion of ethanol addition in the petroleum fuels. They have also studied the present and future irrigation facilities, surplus cane availability to the nearby sugar factories and molasses availability.

#	Production unit	No.	Cat	Unit	Existing	Proposed	Total Capacity
1.	Distillery	5 (g)	A	KLPD	60	180	240

As per EIA Notification dated 14th Sep., 2006 and its subsequent amendments; the project falls in Category A, Activity 5(g) - All molasses based distillery as per S. O. 1960(E) Dated

13th June, 2019 With screening it is necessary for PDVVPSSK (Pravaranagar Unit) to approach MoEF&CC. This Pre- Feasibility Report is prepared for forming a framework for EIA study, Scoping and finalizing the Terms of Reference.

Form I, as is prescribed by the said Notification is duly filled up and submitted. This Prefeasibility Report is an accompaniment to the same. The Form I contains details regarding Justification of the project, Nearby Land Use, Resources, Process, Pollution

Control, Aesthetics, Risk Involved, Consequent Developments and Environmental Sensitive Issues.

The salient features of the project are as follows;

A.	Nature & Size of the Project	Proposed expansion of molasses based distillery from 60 KLPD to 240 KLPD.
B.	Category of the Project	As per EIA Notification dated 14th Sep., 2006 as amended from time to time; the project falls in Category A, Activity 5(g) - All molasses based distillery As per S. O. 1960(E) Dated 13th June, 2019
C.	Location Details	
	Plot no.	Gat No. 196/1, Pad. Dr. Vitthalrao Vikhe Patil S.S.K. Ltd Pravaranagar Tal. Rahata Dist. Ahmednagar (MS)
	Village	Pravaranagar
	Tehsil	Rahata
	District	Ahmednagar
	State	Maharashtra
	Latitude	19°34'17.19"N
	Longitude	74°30'5.50"E
	Mean sea level	649 m (2,129 ft.)
D.	Area Details	
	Total Project Area	Total Plot area - 40468.60 SQM. Green Belt area - 13356.09 SQ.M. (33 % of Total Plot area)
E.	Environmental Setting Details (with approximate aerial distance & direction from plant site)	
1.	Nearest Village	Loni Bk. Approx. 2.36 km (North- East)
2.	Nearest town and City	Rahata -18 Km
3.	Nearest National Highway / State Highway	National highway Nagar to Man made at 1.16 km (North-East)

4.	Nearest Railway station	Belapur Railway station: Approx. 26.0 km (North- West)
5.	Nearest Airport	Shirdi Airport is 24.0 km (North) away project site
6.	National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. within 10 km radius	No National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. falls within 10 km radius from the plant site
	Reserved Forests (RF)/ Protected Forests (PF)	No
	Water Body (within 10 km radius)	Pravara river: Approx. 8.0 km (South)
	Seismic Zone	Seismic Zone - III as per IS: 1893 (Part-I): 2002
F	Cost Details	
	Total Cost of the Project	Existing – 153.38 Cr. Proposed Cost- Rs. 160 Cr. Total Cost of the project- 313.38 Cr.
	Cost for Environment Management Plan	-----
G	Basic Requirements for the project	
	Water Requirement	With molasses as feed stock, the water requirement will be about 1200 M3/day of spirit including boiler feed water makeup.
H	Power Requirement	2.4 MW (Source 8 MW TG)
I	Man Power Requirement	37 (Source: - Unskilled / Semi-Skilled - Local Area; Skilled- Local & Outside)
J	Product	Rectified Spirit / Ethanol (Absolute Alcohols)
K	By-products	Carbon dioxide
L	Working Days	300 days/annum

ENVIRONMENT MANAGEMENT PLAN-

PARTICULARS

AIR MANAGEMENT

- ESP with stack of adequate height will be installed with the boiler to control the particulate and gaseous emissions due to combustion of fuel.
- CO₂ generated during the fermentation process will be collected and sold.
- DG Sets will have adequate stack height as per CPCB Guidelines.
- Adequate measures for control of fugitive dust emissions will be taken.
- All the internal roads will be asphalted and swept regularly.
- Greenbelt development around the periphery & within the premises of the project will help in attenuating the pollutants emitted and maintaining air quality.
- Regular monitoring will be done to ensure that ambient air quality standards.
- Online Stack Monitoring System will be installed.

WATER MANAGEMENT

- Distillery will be based on "ZERO EFFLUENT DISCHARGE".
- Spent Wash: The spent wash evaporation technology is a multiple effect evaporator system in which heat recovered from one effect is used to concentrate spent wash in second effect evaporator with continuous recirculation of concentrated spent wash within the system until desired concentration is obtained.
- The incremental capacities for spent-wash / bagasse fired boiler & matching Back Pressure cum Extraction type TG set have been considered.
- With effective utilization of such a technology, major hurdle of spent wash disposal will be solved and the proposed ethanol plant will become a ZLD unit
- This entire concentration process is carried out under vacuum leading to less consumption of steam and maximum concentration of spent wash with in less period of time. The concentrated spent wash generated after entire process of evaporation is then sprayed in a furnace with support fuel Coal/ bagasse and is then burnt in a boiler.
- Process Condensate: Process condensate from MEE will be treated & polished in CPU and recycled to process and cooling tower makeup.
- The condensate polishing unit is also envisaged to take care of spentleese, cooling tower blow down, washing and process condensate from evaporation plant. After treatment all

the stream at CPU, water can be recycled to process and cooling tower makeup.

- Spent Lees: The spent lees will be completely used in CPU and recycle in process. The reusable water comes from spent lees and from CO2 scrubbing shall be using again for various purposes such as for Molasses dilution, before or at fermentation.
- Closed water recycles system and plant process will be designed to minimize fresh water requirement by recycling various effluents after treatment.
- Domestic wastewater will be treated in a well-designed septic tank of hydraulic retention time of more than 24 hours. This is compartmentalized by baffles.
- Rainwater will be collected and recharged into underground resource through
- scientifically designed rainwater harvesting system

NOISE MANAGEMENT

- Proper maintenance, oiling and greasing of machines at regular intervals.
- PPEs like earplugs and earmuffs to the workers exposed to high noise level.
- Development of greenbelt for 33% of the total project area.
- D.G sets will be provided with acoustic enclosures to control the noise level within the prescribed limit.
- Regular monitoring of noise levels will be carried out and corrective measures in
- Concerned machinery will be adapted accordingly to the possible extent.

SOLID & HAZARDOUS WASTE MANAGEMENT

- Fly ash from the boiler will be direct/indirect input for soil conditioning/ brick manufacturing.
- Sludge will be used as manure (given to the farmers for soil amendment)
- Used oil & grease generated from plant machinery/gear boxes as hazardous waste will be sold out to the CPCB authorized recyclers

GREENBELT DEVELOPMENT & PLANTATION

- Out of the total plant area 13356.09 SQ.M (33% of total plot area) will be developed under greenbelt &plantation.
- Plantation will be done as per Central Pollution Control Board (CPCB) Norms. Greenbelt will be developed all along the plant boundary and plantation will be done all along the roads which attenuate noise level, arrest dust and improve the surrounding environment.
- Native species will be given priority for plantation in consultation with local horticulturist.

- The plantation would start along with the start of the construction activities of the proposed unit.

ODOUR MANAGEMENT

- Adequate greenbelt all around the periphery of the plant.
- Efficient CO₂ scrubbing to avoid carryover of alcohol vapours & other fumes.
- Better housekeeping will maintain good hygiene condition by regular steaming of all fermentation equipment.
- Longer storages of any product/by-products will be avoided & use of efficient biocides to control bacterial contamination.
- Regular use of bleaching powder/formalin in the drains to avoid generation of putrefying microorganisms.

2. INTRODUCTION OF THE PROJECT/ BACKGROUND INFORMATION

1. Identification of Project

This is a proposal for expansion of molasses based distillery unit from 60 KLPD to 240 KLPD in the existing premises of M/s. Padmashri Dr. Vitthalrao Vikhe Patil SSKL (PDVVPSSKL) Pravaranagar Tal. Rahata Dist. Ahmednagar(MS).

The proposal is for expansion to produce Rectified Spirit/Ethanol (Absolute Alcohols), totally 240 KLPD from Molasses Based route.

Various Government Departments have examined Justification and propriety of this venture and permissions are granted by them to establish this unit as;

Table 1.2 -Various Permissions

SR. NO	FROM	REGARDING
1.	Registrar of Companies	Certificate of Incorporation
2.	Grampanchayat Office	No Objection Certificate
3.	Commissioner, Excise Department	Grant of Letter of Intent
4.	State Electricity Distribution Board	Availability of required Power
5.	Government of India, Commerce and	IEM Industrial Entrepreneurs
6.	Industry Minister	Memorandum
7.	State Irrigation Department	Availability of water
8.	Maharashtra Pollution Control Board	Consent to Establish and Consent to Operate

The justification of the project is submitted in Form-I for the expert committee of Industry—III, MoEF&CC. During over production of sugar cane and low prices for sugar in the market shall make viable to manufacture Alcohol directly from the Molasses. This will assure returns to the farmers. This will help to maintain socio economy in the region is also Justification.

Man needs Alcohol for day to day production of downstream industrial chemicals, also for potable and medicinal usages and potentially as petrol additives to oxygenate, replacing tetraethyl lead.

The target of Alcohol demand as projected in the perspective plan for chemical industry, Department of chemical and petrochemicals is increasing for next few years. In addition, now a day, there is a good potential to export alcohol out of country.

Identification of Project Proponent

Padmashri Dr. Vitthalrao Vikhe Patil SSKL (PDVVPSSKL) is was registered under section 10 of Bombay Act VII of 1925, the registration number of the Society is G 254 of 1948 in December 10th, 1948, with site located at Pravaranagar, Tal-Rahata, Dist- Ahmednagar, Maharashtra – 413 712.

PDVVPSSKL is promoted by Ho'ble Radhakrishna Vikhe Patil, Chairman, former Member of Parlment Govt. of India, a young & dynamic leader, a Post Graduate in Medical Science, is a progressive agriculturist & a social activist from Rahata Taluka of Ahmednagar District. Under his guidance PDVVPSSKL has won several awards & registered many records. PDVVPSSKL providing better education for the local peoples.

Shree T.R. Dhone is the present Chairman. The detailed list of Board of directors is given as follows:

Sr.No.	Name of the Director	Designation
1.	Hon.Shri. Radhakrishna E.Vikhe Patil (M.L.A.)	Chairman
2.	Shri.Vishwasrao Kashevrao Kadu Patil	Vice Chairman
3.	Shri.Kailas Suryabhan Tambe Patil	Director
4.	Shri. Dinkar Ganpat Gaikawad Patil	Director
5.	Shri.Bhanudas Lahanu Tambe Patil	Director
6.	Shri.Devichand Bharat Tambe Patil	Director
7.	Shri.Uttamrao Rambhau Dighe Patil	Director
8.	Shri.Sanjay Sopanrao Aher Patil	Director
9.	Shri.Dadasaheb Chandrabhan Ghogare Patil	Director
10.	Shri.Dhananjay Babasaheb Dale Patil	Director
11.	Shri.Swapnil Suresh Nibe Patil	Director
12.	Shri.Dattatraya Sahebrao Kharde Patil	Director
13.	Shri.Sahebrao Jijaba Mhaske Patil	Director
14.	Shri.Satish Shivajirao Sasane Patil	Director
15.	Shri.Sampatrao Bhaurao Chitalkar Patil	Director
16.	Shri.Rambhau Shankarrao Bhusal Patil	Director
17.	Shri.Babu Fakira Palghadmal Patil	Director
18.	Shri.Shantaram Genu Jori Patil	Director
19.	Shri.Subhash Namdev Antre Patil	Director
20.	Sau.Ujwala Ashok Gholap	Director
21.	Sau.Sangeeta Bhaskar Kharde	Director
22.	Hon.Dr.Sujay Radhakrishna E.Vikhe Patil (M.P.)	Expert Director
23.	Shri Annasaheb Murlidhar Mhaske Patil	Expert Director
24.	Shri.Popatrao Aanadrao Wani Patil	Functional Director
25.	Shri.Dilip Gorakshnath Kadu Patil	Functional Director
26.	Shri.T. R. Dhone	Managing Director

All the other board members also have rich experience in sugar, ethanol & agro based industries and socio economic activities in Ahmednagar District.

A dedicated Project Team of PDVVPSSKL has been functioning, along with appointed experts and consultants, for speedy and successful commissioning of this project.

PDVVPSSKL already has appointed a technical / managerial team of highly qualified engineers, contract & arbitration experts, agricultural officers and managerial personnel for implementation and operation of the captioned sugar expansion project.

Latest technologies for ethanol manufacture will be employed in this project to ensure optimum efficiency and operating costs.

ii) Brief description of nature of the project-

Padmashri Dr. Vitthalrao Vikhe Patil SSKL (PDVVPSSKL) proposes an expansion for manufacturing of 60 KLPD to 240 KLPD Molasses based Distillery, which requires following resources.

Location-

1. Ready infrastructure
2. Nearby cane growing lands already
3. Lot of potential of more cane growing
4. Climatic condition suitable for cane growing
5. Soil characteristic suitable for cane growing
6. Good rainfall, good irrigation facilities makes suitable for cane growing
7. Well-connected road network with ease of cane transportation
8. Leveled ground and load bearing soil

iii) Need for the project and its importance to the country and/ or region-

Advancement in science and technology has created so many products that have enhanced the quality of human life in every passing year. The human race is largely dependent on industrialization for up gradation in quality of life. Progress of the nation is judged through its economic growth which is largely dependent on industrial productivity. In Indian economy (which is agro based) many industries are dependent over agricultural produce for production of luxury and need based commodities. Alcohol has assumed a very important place in the Country's economy. It is a vital raw material for a number of chemicals. It has been a source of revenue by way of excise duty levied by the State Government on alcohol liquors. It has a potential as fuel in the form of power alcohol for blending with petrol in the ratio of 20:80.

The use of alcohol for the purpose of potable liquor is as high as it is used for industrial purposes. The Country Liquor is mainly used by the common masses.

According to analysts, the Indian alcoholic beverages industry is expected to witness accelerating growth in coming years with the consumer base likely to expand amidst rising disposable income. The domestic alcoholic drinks market is estimated around \$13 billion

and has been growing at a compounded annual growth rate in excess of 10% in the past few years. The growth rate is higher than other major Asian markets like China and South Korea, etc. In the path of company's growth and development this project will serve as yet another milestone.

iv) Demand- Supply Gap

The gap between the availability of alcohol and the requirement by the industry has been widening. The existing requirement of alcohol by the industries is around 450 Crore liters annually at 10% fuel ethanol blending, industrial alcohol and potable alcohol and the production is around 285 Crore liters. The trend is increasing as the blending increases.

v) Import vs. Indigenous Production

Indian market could not meet present alcohol demand. So they import alcohol 5-7% of total demand. As far as ethanol production is concerned, Indian market play a vital role at both domestic & international level. So they require producing more alcohol to meet the demand.

vi) Export Possibility

There will be possibility of export of alcohol to African, European & Asian countries.

vii) Domestic / Export Markets

Market depends on Excise Department.

viii) Employment Generation (Direct and Indirect) due to the project

For smooth functioning of the plant, the company needs a team of 100 persons. These persons are responsible towards their respective department such as process plant, boiler operating plant and administrative block.

3.0 PROJECT DESCRIPTION

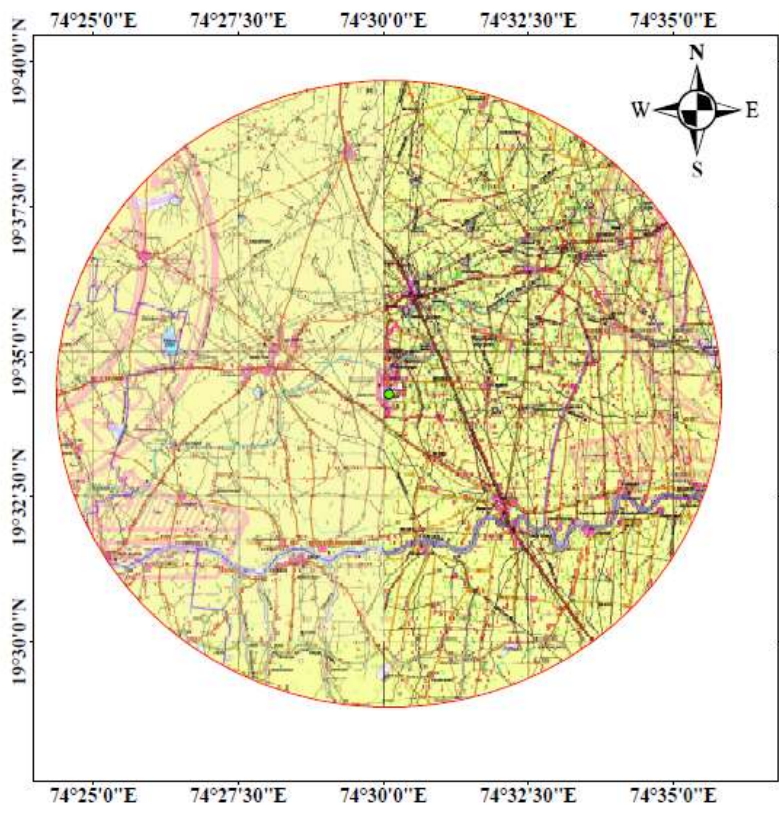
Type of Project including interlinked and independent projects, if any- Existing unit is interlinked with Sugar Unit having capacity of 4000 TCD to 7200 TCD (EC Received from SEIAA on dtd. June 24, 2020).

Location (map showing general location, specific location, and project boundary & project site layout) with coordinates.



Google Image

Latitude 19°34'17.19"N Longitude 74°30'5.50"E



Legends:

CONVENTIONAL SYMBOLS

Express Highway with toll with barrier with distance stone	
Road, marked according to importance	
Feeds, feeder cartways according to importance	
Unimproved road, Cart-track, Pathway with gate, Foot path	
Streams with bank to bank, artificial, Canal	
Canal, masonry or rock-lined, cutback, flow	
River, dry with water channel, with bank & water, Tidal, dry	
Submerged rocks, Shad, Swamp, Ponds	
Water head control, Tidal, well, Spring, Tidal, permanent, dry	
Embankments, road or rail, sea, Broken ground	
Subsided, Road, power, Electric, single with distance stone, dy	
Subsided, other power, dykes, single with distance stone, dy	
Mine, Top or temporary, fill, Gully, with fence	
Contours with sea-levels, Paddy, stone, City	
Small features (Pillar) (Dotted) (No) (Dotted) (Dotted) (Dotted)	
Towers or Village, industrial, elevated, Post	
Fort, (Dotted) (Dotted) (Dotted) (Dotted) (Dotted) (Dotted)	
Trench, Channel, Channel, House, High, Tidal, Stone	
Lighthouse, Light, Buoy, Light, Light, Light, Light	
Wind, Van or India, Stone, Stack	
Water, jetties, other, Pylon, Cable, Barbed, Other, tree	
Area, railroad, wooded, Surveyed, tree	
Boundary, International	
Water, dammed, submerged	
Water, dammed, submerged, what or what, level	
Boundary, 2000, 10000, 100000, 1000000, 10000000	
Height, 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000, 10000	
Bank, mark, position, water, level	
Post, office, District, Sub	
Post, office or Station, Telegraph, District, Police, Police, Station	
Clipping, ground, Forest, Reserve, reserved	
Bound, survey, administrative, locality or land	
Health, Dispensary, Hospital, Hospital, Dispensary	
Airplane, Helipad, Tower, etc	
Power, line, with pylons, suspended, with poles, unattached	

Padmashri Dr. Vithal Rao Vikhe Patil Sahakari Sakhar Karkhana Ltd

0 1.25 2.5 5 7.5 10 Kilometers

MAP OF 10 KM RADIUS STUDY AREA ON SOI TOPOSHEET
 Toposheet No : 47I/6, 47I/10, 47I/7, 47I/11
 (Scale : 1:50,000)

Toposheet within 10Km radius

For bringing out above biochemical reaction there should be a proper and careful handling of yeast, optimum temperature and pH control and substrate concentration, which results in to effective concentration, which results into effective conversion of sugars to alcohol.

- Yeast can be manufactured under strict controlled conditions or readymade under compressed yeast may be directly in the pre fermenter. Good quality of yeast is used in distillery. The yeast is useful to obtain good yield of alcohol by fermentation of molasses. The stages of yeast propagation as described above for producing yeast from laboratory scale to prefermenter stage may be to total alluminated. The fermentation of molasses in fermenters takes about 24 to 36 hrs. for completely exhausting the sugars in molasses.
- All the sugars are not converted to alcohol during the process of fermentation because chemicals like Glycerin, succinic acid etc. are also produced by yeast during their metabolic process. Therefore, it is not possible to have 100% efficiency of conversion of sugars to alcohol. The average yield of alcohol from molasses is about 245 lits. From 01 MT of molasses.
- The different technologies like high brix fermentation, multistage continuous fermentation, immobilized enzyme fermentation, continuous fermentation without yeast separators are using in the field of fermentation to get a high yield of 280 to 300 MT empty of molasses.
- After fermentation the next stage in the manufacture of alcohol is to separate alcohol from fermented wash and to concentrate it to 95% alcohol called as rectified spirit. For this purpose, method of distillation is employed.
- The fermented wash first enters the beer heater, which is a condenser for condensing alcoholic vapors by using wash a cooling medium. The objective of this beer heater is to recover the heat form the hot vapors of the alcohol. Fermented wash from the beer heater goes to degasifying column; degasifying column bottom goes to the top plate of the wash column. This column consists of 18 plates. The steam is admitted through the steam sparser situated at the bottom of the column. As the steam rise up the wash descending from the top to the bottom of the column, gets heated and by the time, it reaches to the bottom plate, it consists practically no alcohol. The wash going out is called raw spent wash, which will be pumped in to raw spent wash storage lagoon for further treatment.

- The vapors coming from wash column now consist approximately 50% alcohol and 50% water with impurities such as higher alcohol, aldehydes, acids, sulphardioxide etc. part of these vapors are lead to pre-rectifier column. Other portion of the vapors, which is measure quantity, is lead to rectifying column. This column consist of 44 plates, which helps the removal of based smelling fusel oil, which is a mixture of higher alcohol, as the vapors coming from the wash column, rise to the top of the rectifying column, the concentration of alcohol goes on increasing and finally it aches to the concentration of 95.5% alcohol.
- Actual product of rectified spirit is drawn from the 3 plate from the top and cooled in alcohol cooler and taken out as a product. The fusel oil, which is mixture of higher alcohol, is drawn from the 6 to 10 plate from bottom of rectified column, as a strem of vapors, it is condensed and cooled and led in to a decanter where it mixed with water. Fusel oil is recovered at the rate of 0.2 % of alcohol produced.
- The alcohol both pure and impure is first in the separate receivers. The quantity of alcohol produced assessed daily in the receivers and it is finally transferred to storage vase in the ware house. The spirit from storage vats could be issued for denaturation, or for own consumption, a directly to the contact of the costumer depend up on the type of requisition. All these precautions are taken.

Manufacturing process for absolute alcohol

- Anhydrous alcohol is an important product required by industry. As per IS Specification it is nearly 100% pure / water free alcohol. Alcohol as manufactured by Indian distilleries is rectified spirit, which is 94.68 % alcohol. It is not possible to remove remaining water from rectified spirit by straight distillation as ethyl alcohol forms a constant boiling mixture with water at this concentration and known as azeotrope. Therefore, special process for removal of water is required for manufacture of anhydrous alcohol. In order to extract water from alcohol it is necessary to use some dehydrant or entrainer, which is capable of separating water from alcohol. Simple dehydrant is unslacked lime, Industrial alcohol is taken in a reactor and quick lime is added to that and the mixture is left over night for complete reaction. It is then distilled in fractionating column to get anhydrous alcohol. Water is retained by quick lime. This process is used for small scale production of anhydrous alcohol by batch process.
- The various processes used for dehydration of alcohol are as follows: 1. Azeotropic

Distillation 2. Molecular Sieves 3. Evaporation / Vapor permeation system: 4. Dehydration with Molecular Sieve Process: Molecular sieves are synthetic adsorbents and are developed for vapor phase ethanol dehydration is metal alumino silicates with effective pore size opening 3 angstroms (3×10^{-8} cm).

- Molecular sieve of type 3A has chemical formula - $(K_2O.Na_2O).Al_2O_3.2SiO_2.XH_2O$
- During potassium form of molecular sieve has pore size of 3 angstrom. The diameter of ethanol molecule is 4.4 angstrom the water vapor molecules are having strong dipoles and elastic. They are drawn into the pores and condensed at the wall of the pores. Ethanol vapors are bigger in size, passes through the bed without getting into the pores of the molecular sieves. Water strongly attracted to molecular sieve of 3- angstrom type that for each kilogram adsorbed, 990 Kcal of heat released. This effect is referred as the heat of adsorption. When we remove that same kilogram of water during regeneration, we must supply 990 Kcal of heat. This effect referred as the heat of desorption. A 3A type molecular sieve is capable of adsorbing up to 22 % of its weight in water. The salient features of the molecular sieve adsorption process:
 - Steam consumption of 0.5 to 0.6 Kg/lit of Rectified Spirit.
 - It is possible to use exhaust steam - 1.5 Kg/cm² gm (90%) and medium pressure steam 3 - 3.5 Kg/cm² gm (10%).
 - Safety equipment such as relief valves, flame arresters etc.
 - Steel structure with prompt access to all equipment's.
 - Explosion proof installation, easy and safe operation
- The rectified spirit (94 - 96% v/v) from the rectifier feed tank is pumped to a feed pre- heater to evaporation (regeneration) column - in evaporation column liquid phase converted in to vapor phase by application of steam through re-boiler at the bottom of the column. The top vapor of the column fed to the super heater. The vapors are super- heated by applying steam - the vapor temperature approximately 140 °C-150 °C. Superheated rectified spirit vapors from feed super heater is passed to one of the pair of molecular sieve beds for several minutes while passing through the molecular sieve bed water is absorbed and absolute alcohol vapor at 99.8 - 99.9 % v/v is removed, which is then condensed and cooled and sent to respective receivers and storage tank. During the adsorption cycle of app. 8 - 10 mins. The bed undergoes a temp rise due to heat adsorption (990 Kcal/kh water adsorbed). When the bed reaches the saturation factor, it is regenerated by vacuum application on the loaded bed

and water plus ethanol mixture at 135° proof boils and released the heat of adsorption and the bed temperature is reduced again.

A moderate vacuum is applied by vacuum pump operating after condensation of the evaporation column by recycle pump to the regeneration pre-heater. The life of molecular sieve may be around five to seven years. However, the operating cost is considerably less than azeotropic distillation.

This section contains the detailed process description for the Molecular Sieve Dehydration

Unit. Referring to the Process Flow Diagram, rectified ethanol from the storage tanks is combined with any condensed liquid from the Rectifier Condenser, & is pumped under flow control by the Feed Pump, through the Feed Preheater, The feed is preheated in this heat exchanger against steam condensate coming from the Reboiler. The preheated feed enters the Recovery Column. The Recovery Column is pressurized & its purpose is to vaporize the ethanol feed & to process the recycle liquid coming from the Mol Sieve Regeneration system. The tower contains 30 sieve trays. It operates at a pressure of about 1.4 to 1.5 Kg/Cm² & Temperature 120 to 122 oC. Since the ethanol feed has already been rectified & only needs to be vaporized; it can be fed at or near the top of the Recovery column. There are feed locations at tray. Energy is provided to the tower via the Reboiler using steam under flow control. The steam condensate flows under level control through the feed Preheater to the steam condensate return system. Overhead vapour from the Recovery column is to the Mol Sieve Unit. Any excess vapour passes through a pressure control valve & is condensed at atmospheric pressure in the Recovery Condenser against cooling water. Minimizing the amount of vapor that enters this condenser results in minimum energy usage. This is accomplished by closely matching the amount of steam required to vaporize the ethanol feed & fine tuning the flow control loop on the vapor feed to the Mol. Sieve Unit.

Again, hydrous ethanol vapor is fed under flow control to the Mol. Sieve Unit. It is first superheated in the Mol. Sieve Super heater, against steam. This is to prevent condensation of liquids onto the molecular sieve beads, which would decrease their adsorption efficiency. The superheated ethanol vapor is directed to the Mol Sieve Units, A for dehydration. The vapor passes up through one bed of molecular sieve beads at a pressure of about 1.5Kg/Cm² (g) Incoming water is adsorbed on the molecular sieve beads. Anhydrous ethanol vapor exits the

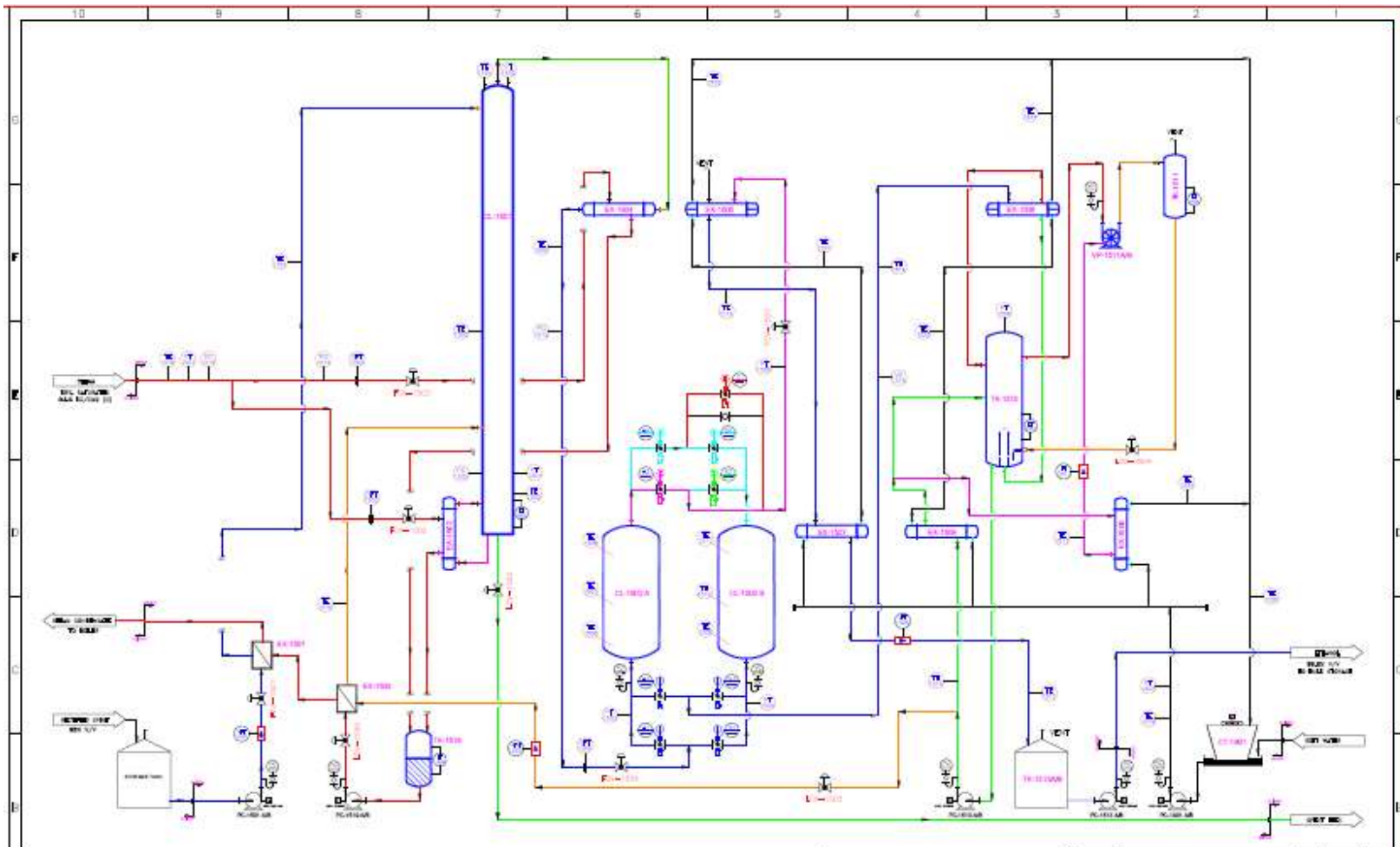
Mol Sieve Units. The Mol Sieve Units are recycled so that one is regenerating while the other is adsorbing water from the vapor stream. The regeneration is accomplished by doing two things. First, a vacuum is applied to the bed undergoing regeneration. Second, a portion of the anhydrous ethanol vapor stream is directed down through the bed (purging). This combination causes water to desorb from the molecular sieve beads & transfer into the ethanol vapor stream. The valve switching sequence is shown in detail in PLC section. This mixture of ethanol & water is condensed in the Weak Alcohol Condenser, against cooling water. Any uncondensed vapor leaving the vent of the Weak Alcohol Condenser enters the Weak Alcohol Tank, where it is contacted with cooled regenerate liquid.

The liquid regenerate stream collects in the Weak Alcohol Tank. It then drains into the Weak

Alcohol Recirculation Pump. The regenerate liquid is circulated through the Weak Alcohol Recirculation Cooler, for cooling against cooling water & sprayed into Weak Alcohol Tank. The portion of the regenerate liquid is pumped out of the circulation loop under level control by the Weak Alcohol Recirculation Pump & fed to Recovery Column. Another portion of the regenerant liquid flows to the Mol Sieve Vacuum pump. The Mol Sieve Vacuum Pump provides the vacuum source for the system. It is used to pump down the system during start-up & to remove non-condensable during steady state operation. The seal liquid & non-condensable leaving the Vacuum Pump are separated in the Weak Alcohol Tank. This liquid is returned to the Weak Alcohol Tank under level control of the Vacuum Drum.

DEHYDRATION SECTION

Anhydrous ethanol vapor from the Mol Sieve Units passes through the pressure control valve into the Mol Sieve Condenser, where it is condensed against cooling water. The anhydrous ethanol product flows by gravity through the Product cooler, to product storage.



LEGEND

SL. NO.	Ta. No.	LOCATION	SL. NO.	Ta. No.	LOCATION	SL. NO.	Ta. No.	LOCATION
1	L-101	CONDENSER COLUMN	34	E-100	PRODUCT COOLER	17	TE-101 A/B	FEED PUMP
2	L-102 A/B	FEED LINE HEATER	42	E-106	64 AL-HL (COL) HEAT EXCH	18	TE-102 A/B	64 AL-HL (COL) HEAT EXCH PUMP
3	E-101	RECONDENSER	71	E-109	64 AL-HL (COL) HEAT EXCH	19	TE-103 A/B	PRODUCT HPT COOLER PUMP
4	E-102	CONDENSER COLUMN HEAT EXCH	12	T-101	64 AL-HL-T	20	TE-104 A/B	FEED CONDENSATE PUMP
5	E-103	CONDENSER RECONDENSER	13	T-102	DT TANK	21	TE-105 A/B	CONDENSATE PUMP
6	E-104	CONDENSER	14	T-103 A/B	PRODUCT HPT COOLER	22	TE-106 A/B	64 AL-HL (COL) HEAT EXCH PUMP
7	E-105	PRODUCT CONDENSER	15	T-104	TE CONDENSATE-T			
8	E-106	CONDENSER COLUMN HEAT EXCH	16	T-105	CONDENSATE RECONDENSER			

REV.	DATE	BY	APP.
1	17/01/2017	MEGA	MEGA
MEGA			
PROCESS FLOW DIAGRAM FOR DEHYDRATION SECTION			
PROJECT 17017			
SCALE:	DATE:	BY:	APP:
1:1	17/01/2017	MEGA	MEGA
DRAWN BY: 17017-PFD-1503			
DATE:	BY:	APP:	REV.
17/01/2017	MEGA	MEGA	0

Raw material required along with estimated quantity, likely source, marketing area of final products, mode of transport of raw material and finished product.

(a) Raw Material Requirement

List of raw materials & chemical required, their source, storage along with mode of transportation are given below:

PDVVPSSKL will manufacture about 79200 KL of total Rectified Spirit / Fuel Ethanol from Cane Juice, B-Heavy molasses & C heavy molasses in 300 days, with minimum recovery of 70 Lit per ton of Cane Juice, 320 Lit per ton of B-Heavy molasses & 240 Lit per ton of C molasses. The total requirement of Cane Juice, B-Heavy molasses & C heavy molasses for the 300 days operation of the proposed additional distillery plant at 95% utilization level of operation will be as follows,

#	Feed Stock	Quantity	Days of Operation
1	Sugar Cane, MT	307,700	170
2	Own B-Heavy Molasses, MT	25,718	65
3	Procured B-Heavy Molasses, MT	10,660	27
4	Procured C-Heavy Molasses, MT	19,000	38

Sr. No	Particulars	Total Requirement for proposed Capacity	Source of the Raw Material & Mode of Transportation
2.	Chemicals		Near-by markets via road
	Sodium Hydroxide (Caustic soda)	2.2 MT/Day	
	Nutrients	0.8 MT/Day	
	Liquid enzyme	0.12 MT/Day	
	Saccharifying Enzyme	0.24 MT/Day	
	Yeast (Active Dry Yeast/Distiller's Yeast)	0.05 MT/Day	

(a) Fuel Requirement

Concentrated Spent Wash and Bagasse / Indian coal will be used for the proposed boiler of 65 TPH. Details regarding fuel requirements are given in Table - 2.2.

Table 1.6- Fuel Requirement

Sr. No.	Name of Fuel	Approx. Quantity for Proposed Capacity (MT per day)	Source	Mode of Transportation
1.	Concentrated spent wash	563	Own	Through pipelines
2.	Bagasse/ Biomass	250 MT/Day	Bagasse from own sugar mills and rice husk from local vendors	By Conveyor Belt
3.	Or Indian Coal	150 MT/D	From Authorized Dealers	By Road

Note: - The usage of fuel mix will be as per availability & technology

(viii) Resources optimization/ recycling and reuse envisaged in the project, if any, should be briefly outlined-

Water as a resource will be recycled at each possible step of the process and latest technology and methodology will be adopted to conserve and reuse the resources.

- The distillery is Zero Effluent Discharge so does not pose any threat to ground or surface water quality.
- Incorporation of advanced technique i.e. Multi Effect Evaporator and Bio-Compost is enabling substantial reduction of final effluent.
- Water is conserved at every stage of process. Total quantity of water is re used & recycled.
- Rainwater from rooftop is collected and stored in water tanks and reused.

(viii) Availability of water its source, energy /power requirement and source should be given.

- a. Water Requirement and Source-** With molasses feed stock the total water requirement for the proposed project is 1200 M³/day, of spirit including boiler feed water makeup, recycled more than 90%. (Fresh water requirement for the proposed project after recycle of process streams will be 720 M³ lit per day). Water

required for the proposed distillery will be made through existing water supply scheme from Pravara River water. A water storage tank will be proposed on site to ensure adequate water supply. Efforts will be taken to minimize & conserve water. Water is required for various purposes like Boiler, Cooling, Process, Floor washing, vacuum pump and Domestic use.

b. Power Requirement and Source-

Total power required for proposed project during operation phase will be 2.4 MW (Source- TG set of 8 MW) and would be generated through the in-house boiler and D.G set.

c. Steam Requirement

The ethanol plant employs multi pressure system for achieving steam economy. The working steam pressure is 1.50 kg/cm²g. The steam from Back pressure cum dump condensing type turbine will be supplied to fuel ethanol plant using incremental boiler 3.5 kg/cm² (g) Dry, Saturated Steam at the inlet of steam header in Distillation & MSDH Section.

d. Boiler Details

Details regarding this are mentioned in the table given below:

Sr.no	Particulars	Details
1	Type of Fuel	Bagasse/ Biomass
2	Capacity of Boiler	65 TPH
3	Pollution Control Equipment Measures	ESP

e. DG Set Details- DG Set of capacity 500 kVA is proposed as emergency backup.

f. Building materials- this is not a heavy construction and majority is in fabrication from Mild steel structural. The orientation is so kept as to balance nearly and cutting and filling. The small requirement is available systematically. The construction- erection time will be small and will be done in day time.

g. Quantity of waste to be generated (liquid and solid) and scheme for their management/disposal

- Distillery will be based on “ZERO EFFLUENT DISCHARGE”.
- Fresh water requirement of the project will be met by Surface Water. Efforts are will be made to conserve as much water as possible by recycling and reuse.
- Spent wash generated during Molasses operation, would be biomethanated then

concentrated spentwash will send to incinerator boiler.

- Process condensate from MEE will be recycled back to the process.
- Fly ash from the boiler will be direct/indirect input for soil conditioning/ brick manufacturing.
- Sludge will be used as manure (given to the farmers for soil amendment).

4.0 SITE ANALYSIS

(i) Connectivity-

The project is well connected to Nagar Manmad highway approx.: 1.16 km (North-East). The nearest railway station is Belapur Railway station: Approx. 26.0 km (North- west) away project site and nearest airport is Shirdi Airport is 24.0 km (North) from project site. The site is suitably located with respect to availability of raw material, water, road network, skilled/semi-skilled/unskilled and professional manpower etc. All communication facilities such as telephone, telefax & internet are available in the vicinity of the project site.

(ii) Land from Land use and Land ownership

Total Plot area for the project in 88 Acres, where as for Sugar, Cogen and Otthers is 78 Acres. Plot Area for distillery is 10 Acres. As project is an expansion project, plot is in possession.

(iii) Topography

Topography of the core zone of the proposed project is almost flat.

(iv) Existing land use pattern (agriculture, non-agriculture, forest, water bodies (including area under CRZ), shortest distances from the periphery of the project to periphery of the forests, national park, wild life sanctuary, eco sensitive areas, water bodies(distance from the HFL of the river), CRZ. In case of notified industrial area, a copy of the Gazette notification should be given

Table 1.8- Environmental Settings of the Area

Sr. No.	Particulars	Details
1.	Nearest Village	Loni Bk. Approx. 2.36 km (North- East)
2.	Nearest town and City	Rahata -18 Km
3.	Nearest National Highway / State Highway	National highway Nagar to Manmad at 1.16 km (North-East)
4.	Nearest Railway station	Belapur Railway station: Approx. 26.0 km (North- West)
5.	Nearest Airport	Shirdi Airport is 24.0 km (North) away project site.

6.	National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. within 10 km radius	No National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. falls within 10 km radius from the plant site
7.	Reserved Forests (RF)/ Protected Forests (PF)	No
8.	Water Body (within 10 km radius)	Pravara River- Approx. 5.33 Km (South)
9.	Seismic Zone	Seismic Zone - III as per IS: 1893 (Part-I): 2002

(iv) Existing Infrastructure

There are no existing infrastructures within the project site.

(v) Social Infrastructure available

There are primary schools, dispensaries, small hospitals, places of worship in nearby area of the project site. Most of the villages are electrified. Telephone, Medical facilities and Telegraph facilities are available in the nearby towns.

5.0 PLANNING BRIEF

(i) Planning Concept (type of industries, facilities, transportation etc.) Town and country Planning/ Development authority classification.

Proposed industry is a molasses based distillery. Facilities required for the project will be provided as per requirement. Transportation of raw material and final product will be done via existing road network and cement concrete road will be developed within the plant premises.

(ii) Population Projection

Temporary influx of people will be there as the managerial and supervisory staff will generally be outsiders. A projection may be made by a governmental organization, or by those unaffiliated with a government.

(iii) Land use planning (breakup along with greenbelt etc.)

Total Plot area for the project in 88 Acres, whereas for Sugar, Cogen and Others is 78 Acres.

Plot Area for distillery is 10 Acres.

For Distillery- Green belt area – 3.3 Acres.

(iv) Assessment of infrastructure demand (Physical & Social)

The Company will assess the demand of infrastructure (Physical & Social) in nearby area of

the proposed site and will be developed in under corporate social responsibilities programs.

(v) Amenities/Facilities

The Company will develop the Amenities/Facilities in nearby area of the proposed project site as per requirement of local people under corporate social responsibility program

6.0 PROPOSED INFRASTRUCTURE

(i) Industrial Area (Processing Area)

Total Plot area for Distillery- 10 Acres, Green belt development – 3.3 Acres (33% of Total Plot area)

(ii) Residential area (Non-Processing area)

Residential colony is proposed in existing colony for proposed project. The local labor will be preferred to provide employment opportunities.

(iii) Greenbelt

Total project area is 3.33 acres will be developed under greenbelt & plantation.

(iv) Social Infrastructure

Proposed project will result in growth of the surrounding areas by increased direct and indirect employment opportunities in the region including ancillary development and supporting infrastructure.

(v)Connectivity

The project site is well connected with rail and road.

(vi) Drinking Water

Drinking water required for the workers will be met from Gram panchayat and threated through own filter house.

(vii) Sewage Treatment System

Domestic wastewater will be treated in septic tank and soak pit.

(viii) Industrial Waste management

Spent wash generation from the process will be 1875 m³/day, the effluent/ spent wash will be concentrated in evaporators. The concentrated spentwash generated after entire process of evaporation is then sprayed in a furnace with auxiliary support fuel bagasse and is then burnt in a boiler. To achieve ZLD, PDVVPSSKL proposes to to go for spent wash concentration and

incineration technology simultaneously generating steam and power for the distillery. Unit is adopting 4 stage ZLD treatment process to take care of spent wash;

- a. Multi pressure distillation along with stand alone evaporation
- b. Multi effect evaporation
- c. Incineration Boiler
- d. Condensate Polishing unit

(ix) Solid Waste Management

- Fly ash from the boiler will be direct/indirect input for soil conditioning/ brick manufacturing.
- Sludge will be used as manure (given to the farmers for soil amendment).

(ix) Power requirement and source

The total power requirement for the proposed project will be approx. 2.4, which will be sourced from Turbine Generator of 8 MW capacity & D.G Sets (500 kVA capacity for emergency). The working steam pressure is 1.50 kg/cm²g. the steam from back pressure cum dump condensing type turbine will be supplied to fuel ethanol plant.

Boiler details-

Incineration Boiler capacity, TPH	1 x 65
Pressure, Kg/ cm ²	45
Temperature, °C	400
Turbine capacity, MW	8
Turbine type	Back pressure cum extraction
Operation days	300
Fuel used	Spent wash
Supporting fuels used for operation	Bagasse

7. REHABILITATION AND RESETTLEMENT (R & R) PLAN

Any rehabilitation and resettlement plan is not applicable.

8. PROJECT SCHEDULE AND COST ESTIMATES

- (i) Likely date of start of construction and likely date of completion (time schedule for the project to be given) The project will start only after obtaining Environmental Clearance and all other required clearances from the statutory authorities.

(ii) Estimated project cost along with analysis in term of economic viability of the project.

Total cost of the Project: 313.38 Cr.

Existing – 153.38 Cr.

Proposed Cost- Rs. 160 Cr.

Cost for Environment Protection Measures: Rs. 40 Cr.

9. ANALYSIS OF PROPOSAL

(i) Financial and social benefits with special emphasis on the benefit to the local people including tribal population, if any, in the area.

The project will result in growth of the surrounding areas by increasing ancillary development and supporting infrastructure. Special emphasis on financial and social benefits will be given to the local people including tribal population, if any, in the area. Development of social amenities will be in the form of medical facilities, education to underprivileged and creation of self-help groups. The state will get revenues in terms of taxes. Business opportunities for local community will be available like transport of raw material/product to market, fly ash transport o brick manufactures, maintenance & house-keeping contract work etc.

List of Annexure-

1. IEM Copy
2. Grampanchayat NoC
3. List of Director
4. CTO Copy
5. Certified Compliance of CTO
6. Water Permission
7. Master Layout

Ministry of Commerce & Industry
Department of Industrial Policy & Promotion
Secretariat of Industrial Assistance
(Industrial Entrepreneurs Memorandum Section)

New Delhi 27/08/2018

To,
PADMASHRI DR. VITTHALRAO VIKHE PATIL
SSK LTD
PRAVARANAGAR, RAHATA,
AHMEDNAGAR-413712
MAHARASHTRA

Subject : IEM application of PADMASHRI DR. VITTHALRAO VIKHE PATIL SSK LTD for the manufacture of ABSOLUTE ALCOHOL FROM MOLLASSES THROUGH FERMENTATION DISTILLATION ROUTE (UNDENATURED ETHYL ALCOHOL OF AN ALCOHOLIC STRENGTH BY VOLUME OF 80% & HIGHER).

Reference : This Ministry's IEM Acknowledgement no. 2338/SIA/IMO/2003 dated 26/08/2003

Dear Sir,

I am directed to refer to your letter(s) No. DIST/18-19/3227 dated 23/08/2018 on the above mentioned subject and to say that the following corrections / Modification / amendments are made in the Ministry's IEM Acknowledgement No. 2338/SIA/IMO/2003 dated 26/08/2003

EXISTING

AMENDED

a. Name of the Company PADMASHRI DR. VITTHALRAO VIKHE
PATIL SSK LTD
Registered Address PRAVARANAGAR, RAHATA,
AHMEDNAGAR-413712
MAHARASHTRA

b. NIC Codes / Items of Manufacture 1. 2200
ABSOLUTE ALCOHOL FROM
MOLLASSES THROUGH FERMENTATION
DISTILLATION ROUTE (UNDENATURED
ETHYL ALCOHOL OF AN ALCOHOLIC
STRENGTH BY VOLUME OF 80% &
HIGHER)

Falling under NIC broad description

DISTILLING RECTIFYING AND BLENDING
OF SPIRITS; ETHYL ALCOHOL
PRODUCTION FROM FERMENTED
MATERIALS

c. Proposed Capacity 15,000 KILO LTR 45,000 KILO LTR
Existing Capacity 15,000 KILO LTR 30,000 KILO LTR
Total capacity after expansion 30,000.00 KILO LTR 75,000.00 KILO LTR

d. Proposed Investment Rs. 26,600,000.00
Existing Investment Rs. 16,100,000.00
Total Investment Rs. 42,700,000.00

e. Location PRAVARANAGAR
RAHATA
AHMEDNAGAR
MAHARASHTRA

Minors

EXISTING

AMENDED

1. Miscellaneous (any other)

2. This may be kept attached with the original Acknowledgement no. 2338/SIA/IMO/2003 dated 26/08/2003

3. The receipt of this letter may please be acknowledged.

Handwritten signature
(BINOD KUMAR)

UNDER SECRETARY TO THE
GOVERNMENT OF INDIA



Grampanchayat office, Kolhar Bk

Tal Rahata Dist Ahmednagar Ph.No.250068/251651 Estab.Dt.24/04/1942

RefNo : 10 /2021

Date -30/04/2021

No Objection Certificate

Sarpanch / Gramvikas Officer
Grampanchayat Kolhar Bk,
Tal Rahata Dist Ahmednagar.

This is to Certify that,

Pad.Dr.Vitthalrao Vikhe Patil Sahakari Sakhar Karkhana Ltd
Pravaranagar Tal Rahata Dist Ahmednagar having there Sugar & Distillery Unit in the
premises of Kolhar Bk Gut No. 196/1, area 3 Hectre & 92 R

Now sugar factory has decided to increase the capacity of Distillery
plant and Install Incineration Boiler.

They are having existing distillery plant of 92 KLPD to capacity &
proposed-new distillery plant to increase total installation capacity to 240 KLPD and
also new 65 TPH inceriation boiler is to be installed for this purpose they require NOC
from our Office.

Therefore for installation of new distillery plant and Incineraation boiler
by following all Government Rules to install 240 KLPD Distillery and 65 TPH
incineration boiler our Grampanchayat has No Objection for the same.

This Certificate is given on the basis of their application No. Legal /550/2021-22
Dt.30/04/2021.


ग्रामविकास अधिकारी
ग्रामपंचायत, कोल्हार बु।।


सरपंच
ग्रामपंचायत कोल्हार बु।।
ता.राहाता, जि.अहमदनगर.

Padmashri Dr. Vitthalrao Vikhe Patil Sahakari Sakhar Karkhana Limited



Post Office : Pravaranagar - 413712
Tal. Rahata, Dist. Ahmednagar.
Maharashtra State (India)

Phone : 252301 to 252304 - P'nagar
Fax : (02422) 253397 - P'nagar
E-mail : pravarasugar@rediffmail.com



Padmashri Dr. Vitthalrao Vikhe Patil Sahakari sakhar karkhana Ltd.
Pravaranagar, Tal. Rahata, Dist. Ahmednagar.

BOARD OF DIRECTORS

Sr.No.	Name of the Director	Designation
1.	Hon.Shri. Radhakrishna E.Vikhe Patil (M.L.A.)	Chairman
2.	Shri.Vishwasrao Kashevrao Kadu Patil	Vice Chairman
3.	Shri.Kailas Suryabhan Tambe Patil	Director
4.	Shri. Dinkar Ganpat Gaikawad Patil	Director
5.	Shri.Bhanudas Lahanu Tambe Patil	Director
6.	Shri.Devichand Bharat Tambe Patil	Director
7.	Shri.Uttamrao Rambhau Dighe Patil	Director
8.	Shri.Sanjay Sopanrao Aher Patil	Director
9.	Shri.Dadasaheb Chandrabhan Ghogare Patil	Director
10.	Shri.Dhananjay Babasaheb Dale Patil	Director
11.	Shri.Swapnil Suresh Nibe Patil	Director
12.	Shri.Dattatraya Sahebrao Kharde Patil	Director
13.	Shri.Sahebrao Jijaba Mhaske Patil	Director
14.	Shri.Satish Shivajirao Sasane Patil	Director
15.	Shri.Sampatrao Bhaurao Chitalkar Patil	Director
16.	Shri.Rambhau Shankarrao Bhusal Patil	Director
17.	Shri.Babu Fakira Palghadmal Patil	Director
18.	Shri.Shantaram Genu Jori Patil	Director
19.	Shri.Subhash Namdev Antre Patil	Director
20.	Sau.Ujwala Ashok Gholap	Director
21.	Sau.Sangeeta Bhaskar Kharde	Director
22.	Hon.Dr.Sujay Radhakrishna E.Vikhe Patil (M.P.)	Expert Director
23.	Shri Annasaheb Murlidhar Mhaska Patil	Expert Director
24.	Shri.Popatrao Aanadrao Wani Patil	Functional Director
25.	Shri.Dilip Gorakshnath Kadu Patil	Functional Director
26.	Shri.T. R. Dhone	Managing Director


(T.R. DHONE)
Managing Director

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

RED/L.S.I

No:- Format1.0//UAN No.MPCB-
CONSENT-0000076545/CR - 2001002024

Date: 30/01/2020

To,
Pad. Dr. Vitthalrao Vikhe Patil Sahakari Sakhar Karkhana Ltd.
26/1, 197/B, 198/A, Pravaranagar Loni
Rahata, Ahmednagar.

Sub: **Renewal of Consent for 92 KLPD Distillery unit (Molasses Base) with Ethanol plant and manufacturing country liquor & IMFL under RED category.**

Ref: 1. Renewal of Consent granted by the Board vide No. BO/CAC-CELL/UAN No. 0000032599/R/CAC-1809000203 dtd 05.09.2018.
2. Minutes of CAC Meeting dtd. 25.11.2019

Your application No.MPCB-CONSENT-0000076545 Dated 09.07.2019

For: Consent to Renewal for 92 KLPD Distillery unit (Molasses Base) with Ethanol plant and manufacturing country liquor & IMFL 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 (Management & Transboundary Movement) 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 to renewal is granted for a period up to 31/08/2022
2. The capital investment of the project is Rs.117.7584 Crs. (As per C.A Certificate submitted by industry CI of Existing sugar unit is 326.82 Cr.)
3. Consent is valid for the manufacture of:

Sr No	Product/Co-Product Name	Maximum Quantity	UOM
1	Rectified Spirit (RS)	2760.00	KL/M
2	Country Liquir	630.00	KL/M
3	IMFL	90.00	KL/M
4	Absolute Alcohol	7000.00	KL/M
5	Trichloro Ethanol	30.00	KL/M

(Distillery capacity shall not exceed 92 KLPD)



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

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	720	As per Schedule - I	Bio-digester Followed by RO followed by MEE and Bio-composting.
2.	Domestic effluent	13	As per Schedule - I	On land for irrigation.

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

Sr No.	Stack No.	Description of stack/ source	Number of Stack	Standards to be achieved
1	NA	Steam is taken from co-gen boiler	1	As per Schedule -II

6. Non-Hazardous Wastes:

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Yeast sludge	200	MT/A	Compost Making	As an organic manure to farmers
2	Enriched bio-compost	25000	MT/A	Mixing with spent wash	As an organic manure to farmers

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

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1		0	--NA--	NA	NA

- 8 The Board reserves the right to review, amend, suspend, revoke 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 This consent is issued pursuant to the decision of the 17th Consent Committee Meeting held on 25.11.2019.
- 11 Industry shall install online continuous monitoring system as per CPCB guidelines & data to be transmitted directly from Data Logger to Board server .
- 12 The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent. (Operate/Renewal)



For and on behalf of the
Maharashtra Pollution Control Board.

(E. Ravendiran IAS),
Member Secretary

SCHEDULE-III
Details of Bank Guarantees:

Sr. No.	Consent(C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	500000	15 days/ To be extended	Towards compliance of Consent conditions & O & M of pollution control system.	31.08.2022	31.12.2022

** The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent.
Existing BG obtained for above purpose if any may be extended for period of validity as above.

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				



SCHEDULE-IV
General Conditions:

1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. 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 MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
5. 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.
6. 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.
7. 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.
8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.



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	Between
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.

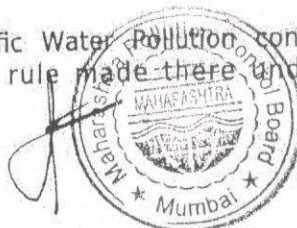
xi. The operation of distillery should be restricted to 270 days in a year and that it will not operate during rainy season.

4. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	316.00
2.	Domestic purpose	16.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	740.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	00

5. Industry shall install online monitoring system as per the guidelines of CPCB and data to be transmitted to Board's server.

6. 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.



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 erected following stack (s) to observe the following fuel pattern:

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM
1	Steam is taken from co-gen boiler	ESP	91.5	Bagasse	1478 MT/Day

2. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
3. 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.
4. 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).
5. 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
--------------------	---------------	------------------------

6. Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
7. The industry shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules, 1986 and connected to MPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
8. The industry shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office MPCB.
9. 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).



Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	706550.00	5452491	18/07/2019	NEFT
2	100000.00	5457714	07/12/2019	RTGS

Copy to:

1. Regional Officer, MPCB, Nashik and Sub-Regional Officer, MPCB, Ahmednagar
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CC/CAC desk - For record and website updation purpose.



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. Conditions for Trade effluent:

- A] You have provided comprehensive treatment i.e Effluent treatment plant with the design capacity of 800 CMD for trade effluent 720 CMD including Bio-Digester followed by RO followed by MEE for volume reduction and Bio-composting on 11 acers land for achieving zero discharge. In no any spent wash shall discharge outside the factory premises/ on land / into stream directly or indirectly.
- B] Zero liquid discharge shall be ensured and no waste/treated water shall be discharged outside the premises. The non-process effluents, RO permeate, MEE condensate etc. shall be suitably treated and reused in the process.

2. Conditions for Sewage/ Domestic effluent:

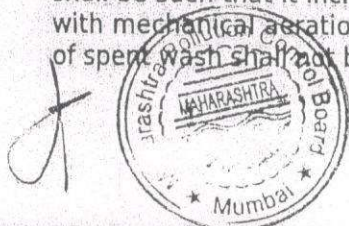
- i. You have provided septic tank and soak pit (for sewage below 20 CMD).
- ii. The industry shall operate sewage treatment system to treat the sewage/ domestic effluent so as to achieve the standards as prescribed by the board/under EP Act, 1986 and rules made thereunder from time to time whichever is stringent.

Sr.No	Parameter	Concentration not to exceed(in mg/l except for pH)
1.	pH	6.5-9.0
2.	BOD	30
3.	TSS	100

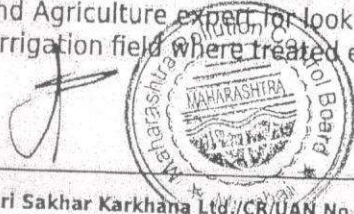
- iii. The sewage shall be treated by using septic tank and soak pit and overflow if any shall be used on-land for gardening/irrigation.

3. Conditions for Aerobic composting:

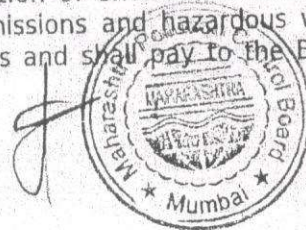
- i. The spent wash should be stored in impervious tanks. The spent wash tanks should have proper lining with HDPE and should be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation and undertaking given by the company, storage should not exceed 30 days capacity.
- 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.



11. 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.
12. 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.
13. The PP shall provide personal protection equipment as per norms of Factory Act
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. 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.
16. 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.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) 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.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. 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).
20. 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.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.
23. 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.
24. The Industry shall create the 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.



25. 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.
26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. 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.
28. 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.
29. 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.
30. The firm shall submit to this office, the 30th day of September every year, the Environment 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.
31. 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.
32. 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).
33. 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.



MAHARASHTRA POLLUTION CONTROL BOARD

Ph. No - 0241 - 2470852

E mail - sroahmednagar@mpcb.gov.in



Sub - Regional Office,
Savitribai Fule Vyapari Sankul,
1st floor, Hall No - 2 & 3, Near
TV Center, Savedi,
Ahmednagar - 414 003

VISIT REPORT

Dtd- 20/05/2021

Name of Industry :- M/s Pad. De. Nitthaldeo Vikhe Patil
Ssk Uel. (Distillery unit)
Pavananagar Loni, Rahata
Dist - Ahmednagar

Industry Representative :- Mr. Pabhakar Vikhe (Biogas Incharge)

Email & Ph No. :- 9420494962

Product :- Molasses Based Distillery - 92 KLPD

Consent Status :- 31/08/2022


Observations :-


Industry visited for verification for of compliance of consent conditions, during the visit following observation noticed -

- ① During the visit Distillery is in operation.
- ② Trade effluent is @ 720 CMD for the treatment of spent wash they have provided 4 nos of Biodigestor of capacity 9200 m³ 2 nos and 6800 m³ 2 nos, RO of capacity - 700 m³/day, MEE - 650 m³/day and composting on 12 Acre as per guideline. They have provided two

pucca lagoon of capacity 18000m^3 and 3600m^3 . During the visit Biodigester, RO plant and MEE plant are in operation.

- (3) for MEE condensate ^(400 CMD) they have provided CPU unit of capacity 900 CMD. outlet of CPU unit utilized for cooling tower make up & dilution in Molasses process.
- (4) RO permit - 750 CMD used for gardening
① 05 acre, irrigation in own farm
② 30 acre.
- (5) steam for distillery unit is taken from co-gen plant.
- (6) online flow meter alongwith camera provided at inlet and outlet of Distillery Biogas plant. Also camera provided at compost yard.
- (7) submitted BG of Rs. 5.0 lacs which is valid upto - 31/12/2022 (0632221 BG-0000002, dtd - 31/01/20)


(P.S. Dake)
f.o.


(Ms. Prabhakar Vikhe)
Biogas Incharge

जा क्र. सिंचन/सन २०१५.

२१००

अहमदनगर पाटबंधारे विभाग

अहमदनगर दि. १०/०३/२०१५

प्रति,

कार्यकारी संचालक,
प्रवरा केमीकल प्लॉट
प्रवरानगर, ता. राहाता,
जि. अहमदनगर

विषय : प्रवरा केमीकल प्लॉट प्रवरानगर या संस्थेचा बिगरसिंचन पाणीवापराचा करारनामा
मंजूरीबाबत

संदर्भ : उपविभागीय अभियंता, प्रवरा डावा कालवा उपविभाग, लोणी यांचे पत्र जा.क्र/
प्रडाकाउपवि/सिंचन/११८/सन २०१५ दि. ६/०२/२०१५

उपरोक्त संदर्भिय पत्रान्वये प्राप्त झालेला प्रवरा केमीकल प्लॉट प्रवरानगर ता. राहाता यांचा करारनामा
सोबत स्वाक्षरी करुन पाठवित आहोत.

सोबत- करारनामा

स्थळप्रत मान्य

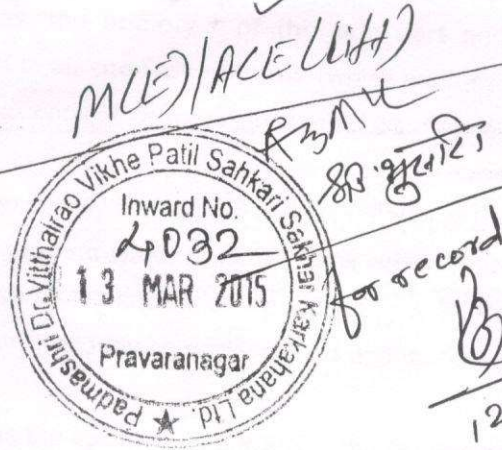
उपकार्यकारी अभियंता

अहमदनगर पाटबंधारे विभाग

अहमदनगर

प्रत- उपविभागीय अभियंता, प्रवरा डावा कालवा उपविभाग, लोणी यांना माहितीसाठी व जरूर त्या कार्यवाहीसाठी
रवाना

सोबत- करारनामा



12/3



महाराष्ट्र MAHARASHTRA

S 116594

28 AUG 2015
[Signature]

- AGREEMENT -
(For non-irrigation water supply) 02/03/2015 to 01/03/2021

An agreement made on the Two day of March to thousand--2015
-----between The Padmashri Dr. Vitthalrao Vikhe Patil Sahakari Sakhar kakhana Ltd. Pravaranagar (Sugar Factory) the user such a society (Which expression herein-after referred to as the society shall, unless excluded by or it be repugnant to the context or meaning thereof be deemed to include is successors and assigns) registered under the Maharashtra co-op society Act 1960 and having its registered office at Pravaranagar herein-after referred to as 'the society ' of the one part and the Governor of Maharashtra hereinafter referred to as 'the Government' (which expression shall unless excluded by or it be repugnant to the context or meaning thereof be deemed to include his successors and assigns) of the other Part.

Whereas the society is desirous chari No. 21(B) at Pravaranagar Tal. Rahata from the source Pravara of drawing water from left bank canal (hereinafter referred to as "the said source") for the use by the society's Sugar Factory & By Product plant (hereinafter referred to as " the said plant") and laying underground and surface pipe and drains for discharge of the factory effluent.

And whereas the society has applied to the Government for permission to draw 12.35 MCFT water per year from the said source.

AND Whereas the society has paid Rs.4.43 Lac (Rupees Four lac forty three thousand) to Government towards the proportional cost of capital outlay of the project.

AND Whereas the Government has agreed to grant the aforesaid permission to the society on the terms and conditions hereinafter appearing.

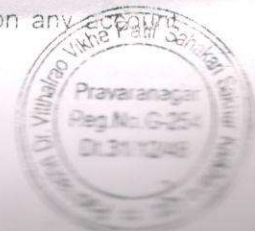
AND WHEREAS UNDER the said terms and conditions the society has to deposit with the Executive Engineer Ahmednagar Division to the Government a sum of Rs. 4.43 lac as Security 'equivalent to 2 months society's probable annual water charges based on yearly sanctioned and as communicated in the form of a Bank Guarantee issued by the Maharashtra co-op bank ltd Mumbai having its main office at Mumbai and branch office at Nasik for the due observance and performance by the society of the terms and conditions of this Agreement AND WHEREAS the society has accordingly promised to the executive of these presents deposited with the government Rs 4.43 lac (Four lac forty three thousand only) as security for the due observance and performance by the society of the terms and conditions herein contained; AND WHEREAS it has been agreed that the said amount will not carry any interest if deposited in cash.

NOW THIS AGREEMENT WITNESSTH AS FOLLOWS:

- 1) (A) In consideration of the society making payment to the Government as hereinafter specified and observing and performing the convenience and conditions herein contained Government it do hereby grants to the society permission to draw following quota of water for the specified purpose.

Sr.No.	Description / Use	Quantity in MCFT per year
1.	Total sanctioned quota (condenser)	12.35

- (b) The quota assigned for domestic use and for agricultural use shall not exceed 10% each of the individual water demand. In the cases where the water used 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 society 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 hereby granted shall be subject to the provisions of the Maharashtra irrigation Act 1976 and the Bombay canal Rules 1934 and subsequent revisions , if any, in force and any executive order 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 shall be deemed to imply any guarantee on the part of the Government as to 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 whatsoever.



beyond the control of the Department, bill shall be charged as per actual quantity of water used/supplied during such period.

- 4) The society shall use the water drawn from the said source for purposes of the society's said plant and for supply to the residential colonies constructed by the society within the areas of the said Plant for providing housing to its employees and workers (hereinafter referred to as " the said residential Colonies"). The society shall not sell the water from the said source to any other person, firm or society, corporation or other body. In the event of the society selling water drawn from the said source, then the Government without prejudice to its forthwith revoke the license Government shall be entitled to recover from the society the proceeds of any such sale made by the society.
- 5) Government shall be entitled to utilize the said water available after meeting the reasonable requirements of the society as to which matter the decision of the Government shall be final and binding on the society 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, or in connection with the present source of channel of water supply available to the society, subject however to the safeguarding of its reasonable demand referred to in clause (5) above
- 7) The society shall not construct the pick-up weir in the Pravara left bank canal bed unless the proposals, plans, drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an office authorized in that behalf by the Government and while granting its approval to the constructing of the pick-up weir, Government may impose such conditions as it may in its discretion think fit.
- 8) (a) For ascertaining the quantity of water drawn by the society, the society shall forthwith at its own cost and after obtaining prior approval in writing thereto of the Executive Engineer, install independent pipelines fitted with separate electronic water measuring device for use of water for the said independent intention (hereinafter referred to as " the said electronic measuring devices") at such places as is indicated by the Executive Engineer. All the pipeline layout showing locations of the metering equipments from the said source for different purposes shall be got jointly verified and got approved from 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 society 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 society shall be liable to pay for the full sanctioned water quota as mentioned in clause 8 (d) and II. In such period 125% of the proportionate sanctioned quantity will be charged at



lock shall at all times remain with the Executive Engineer. The society shall at all times, during the substance of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

- (b) Reading of the water so drawn by the society will be taken on the said electronic measuring devices, on the first day of each month/at agreed times, jointly by the authorized representative of the Executive Engineer and of the society.
- (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 such testing shall be borne and paid by the society. If on such testing the said electronic measuring devices are found to be defective the society shall forth with get the same repaired and set right at its own cost and in the event of society failing to do so within 30(Thirty) days the Executive Engineer may proceed to do so on account and at the cost of the society.
- (d) In the event of the said electronic measuring devices going out of order and becoming defective the quantity of water drawn, by the society 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 day then the quantity of water deemed to be drawn by the during the said period shall be taken to be 90% of the yearly sanctioned demand a communicated in clause No. 11 or average for the last six months whichever is higher.
- (ii) If the electronic measuring devices remain out of order for a period exceeding 30 day then 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 or average or 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 society cannot be measured on account of removal of the said electronic measuring devices for 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 levied as per the rates specified for the industrial use for the total quota as referred to in clause I (a) of this agreement.
- 9) Billing should be done on monthly basis. The bill for the water drawn by the society during the previous calendar month shall be sent in duplicate/triplicate by the Executive Engineer to the office of the society within 15 days after the end of the water consumption month. The society shall thereafter duly pay the same by a demand draft drawn in the name of the Executive Engineer Ahmednagar Division for and 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 society fails to pay the amount within the stipulated times (15 days from the date of receipt of the bill i.e. before the end of the current month) extra charge not exceeding 10% per annum of the amount due will be charged. If the delay in payment of water charge exceeds six months, the



15 day in advance.

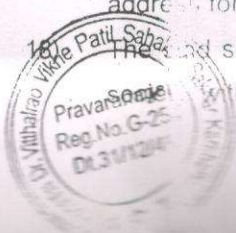
- 10) The cost of all works in connection with the arrangements for water supply including the cost of measuring devices and its installation and maintenance, shall be borne by the society.
- 11) Subject to the provisions of clause(8) hereof, the society shall pay to the Government at the time and in the manner specified in clause (12) hereof water charges for the quantity of water drawn by the society from the said river as measured by the said electronic measuring devices at the following rates, namely:-
- Here rates which are going to be applied to the society with the society mention of purpose of use of water, sanctioned quota and present rate(subject to its revision) may be specified. The water lifted by the user during rainy season from the river where irrigation department has not released the water conversional rate as decided by irrigation department shall be charged.
- i. Provided however that after the expiry of two years from the date the society starts drawing water from the said river if in any month the quantity of water drawn by the society is less than 90 per cent of the quantity of water specified in clause (i) hereof then the society shall pay to the Government water charges calculated for 90 per cent of the quantity of water specified in clause (1) here of for average of the quantity of water drawn by the society during the period of previous three months including the month in question whichever is greater.
 - ii. For any unforeseen reason, if the society would like to reduce/increase 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 November. On acceptance of such revised demand the society will be charged as per changed demand for period specified, other conditions remaining same. A supplementary agreement on hundred rupees stamp paper for this changed quantity which will form part of main 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 this 10% in excess of the sanctioned one. For quantity used in excess of this 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 (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.
In addition to the payment of water charges referred to above the society shall also pay to the Government local fund cess at the rate of 20 paise per every rupees 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 at the prevailing rate. The bill for the months of September & October (11th & 12th month) shall be prepared by taking review of annual sanctioned demand and the terms and conditions of the agreement and then 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) will be charged at per unit rate of 1.25 times of the normal rate, as mentioned in the relevant clause. However the local cess shall be charged on single rate only.

12. (a) The society shall pay to the Executive Engineer, water rates and local fund cess either alternate month on the basis of anticipated quantum of water to be drawn by it from the said source during the next two month or on monthly basis within fifteen (15) days 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 of 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 No.9(a). In the case of disputes regarding quantity of water billed or rate at which the bill is prepared the Society shall first pay the complete amount of the bill charged giving the Reasons/ justification of wrong billing. However the decision of Superintending Engineer Nasik in this regards shall be final and binding on the society.
- 13) Government hereby reserves to itself the right to revise from time to time the water rates and local fund cess and society 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 nalla or river and shall not pollute directly or indirectly any portion of the said nalla/river even by septic tank effluents. If any water source are polluted by any industry as identified by irrigation /pollution control Board/MIDC/MJP the society shall be charged with a penalty of rupees 5,000/- 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 society. The society 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 society/industry shall be got approved by the society from the Maharashtra Pollution Control Board/Environmental Department of the Government prior to commencing the operation of pumping/drawing water from the source.
- 16) The society 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 record maintained by the society.
- 17) Any notice or other documents to be given to or served upon the society may be given or served on behalf of the Government by the Executive Engineer Ahmednagar and any such notice or document shall be deemed to have been duly given to or served upon or sent by registered post to the registered society if it is delivered at the registered office of the society or sent by registered post to the registered address for the time being of the society.



The sum of Rs3,73,024/- deposited in the form of Bank guarantee/cash by the society with the Executive Engineer Ahmednagar Division to the Government as

2

aforesaid shall be held by the Government as security for the due observance and performance by the society of the covenants, terms and conditions herein contained. In case of default on the part of the society 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 to any right and remedies which the Government may have against the society under these presents for such breach and the society shall forthwith pay up the amount so forfeited and shall always maintain the original amount of deposit throughout the period of this agreement. On the expiry of the term of this agreement, the said security deposit of Rs. 3,73,024/- or such part there of as shall not have been appropriated as aforesaid shall be refunded to the society.

- 19) All amounts due to the Government by the society under this agreement shall be deemed to be arrears of land revenue and may without prejudice to any other right and remedies of the government, be recovered from the society as 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 deem fit.
- 21) The costs incurred in the execution and the incidental charges for this agreement stamp duty shall be borne and paid by society.
- 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 society from the Industry Department.
- 23) The agreement super cedes all the previous agreements entered into by the user with the Government in connection with the supply of water from Pravara left bank canal.
- 24) The society should submit their water indent for every rotation to the Executive Engineer Ahmednagar Division on or before starting of the rotation where the source is located on canal. The society should also furnish the exact quantity of water actually drawn in each rotation after of the rotation.
- 25) The society 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 month requirement in case of water source from seasonal river/nalla and one month water requirement in case of perennial water source of river/nalla so as to take care of the closure period but if unexpectedly the closure period is increased by more than the specified period stipulated herein the society will have to make an alternative arrangement for its water requirement at its own cost.
- 26) IF THE SOCIETY COMMITS A BREACH OF ANY OF THE TERMS AND CONDITIONS THEREOF GOVERNEMENT SHALL BE ENTITLED TO CANCEL THIS PERMISSION AND DISCONTINUE THE SUPPLY OF WATER WITHOUT PAYMENT OF ANY COMPENSATION WHATSOEVER TO THE SOCIETY.



दि महाराष्ट्र स्टेट को-ऑपरेटिव्ह
(दि विदर्भ को-ऑपरेटिव्ह बँक लि. समिती)
अधिकृत सहीकर्ता



Rs 0000100/- 285321

INDIA

STAMP DUTY MAHARASHTRA



THE MAHARASHTRA STATE CO-OPERATIVE BANK LTD.
(Incorporating The Vidarbha Co-operative Bank Ltd.)

Head office : Cash Credit Deptt., 9, Maharashtra Chamber of Commerce Lane, Fort, Mumbai - 400 001.
Phone : 2284 5077, 2287 6020 (Extn. 303, 305), Gram : "FARMER BANK" P. O. Box No. 472

The Government of Maharashtra,
acting through The Executive Engineer,
Irrigation Department,
Aurangabad Road,
Ahmednagar, Maharashtra.

NOW KNOW MEN THESE PRESENT that we, The Maharashtra State Cooperative Bank Ltd, having Head Office at 9, Maharashtra Chamber Of Commerce Lane , Fort, Mumbai 400 001, hereinafter referred to as "M.S.C.BANK" send greetings : WHEREAS Padmashri Dr. Vitthalrao Vikhe Patil Sahakari Sakhar Karkhana Ltd. registered under Maharashtra co-op. societies Act. 1960 having its Registered office at Pravaranagar, Tal. Rahata, Dist. Ahmednagar, hereinafter referred to as 'THE SOCIETY' have applied to the Government of Maharashtra, for permission to draw 85.35 MCFT. Water per year from the Pravara Left Bank Canal at outlet chari No. 21 (B), and Near Hasanapur village by Industrial lift scheme for Sugar Factory condenser & chemical plant.

AND WHEREAS The Government of Maharashtra acting through Executive Engineer, Irrigation Department, Aurangabad Road, Ahmednagar, Maharashtra, has agreed to grant the permission to THE SOCIETY on the terms and conditions contained in their agreement being executed for the purpose which inter alia provides that THE SOCIETY shall deposit a sum of Rs.31.43 Lac equivalent to two months water bill of the said society either in cash or in the form of Bank Guarantee, for the due observance of performance of the terms and conditions of the Agreement by THE SOCIETY AND WHEREAS THE SOCIETY has requested the bank to provide a Bank Guarantee in favour of the Executive Engineer, Ahmednagar for the amount of Rs.31,43,000.00



Bank Guarantee form at 43

(Rs. Thirty one lac forty three thousand only) Which the bank has agreed to do in manner hereafter appearing.

NOW THESE PRESENTS WITNESSETH, that the said Bank doth hereby stand surety in pursuance of the agreement between THE SOCIETY and Executive Engineer, Ahmednagar to the extent of Rs.31.43 Lakh (Rs. Thirty one lac forty three thousand only), and doth hereby guarantee and covenant with the Executive Engineer, Ahmednagar that the bank hereby agrees and undertakes to pay the said sum of Rs.31.43 Lakh (Rs Thirty one lac forty three thousand only) for and on behalf of THE SOCIETY for the non observance of terms and conditions of the said agreement by THE SOCIETY, on demand by the Executive Engineer, Ahmednagar, and doth hereby declare that the guarantee herein shall remain in full force from 13.03.2008 to till closing hours 28.02.2009.

Notwithstanding anything contain herein above our liability under this guarantee is restricted to Rs.31,43,000.00 (Rupees Thirty one lac forty three thousand only). This guarantee will remain in force from 13.03.2008 to 28.02.2009. We are liable to pay the guaranteed amount or part thereof only & only if you serve upon us a claim or demand in writing along with original Bank Guarantee on or before the expiry date i.e. 28.02.2009, all your rights under this guarantee shall be forfeited and we shall be relieved and discharged from all liabilities under this guarantee thereafter.

For THE MAHARASHTRA STATE COOP. BANK LTD.
(Incorporating the Vidarbha Coop. Bank Ltd.)



V. V. Burghate
(V. V. BURGHATE-139)
DY. CHIEF OFFICER

S. B. Randave
(S. B. RANDAVE-164)
CHIEF OFFICER

BANK GUARANTEE NO. : 97/G/31
DATE OF ISSUE : 13.03.2008
VALID UPTO & CLAIM UPTO : 28.02.2009

27) The Govt. hereby reserves its right to change/amend/modify/cancell/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 of the society has been affixed here to AND the Executive Engineer, Ahmednagar Division, 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.

Was pursuant to a resolution
Of the Board Director of
The society dated the-----
Hereto affixed in the presence of -----

1. P. R. Kharde

2. R. V. Hanoojare

two Directors of the society who in token thereof have to set their respective hand in the presence of -

1. -----

2. -----

W
MANAGING DIRECTOR
Patil Dr. Vithalrao Vikhe Patil
S.S.K. Ltd., Pravaranagar
W
Sub-Divisional Officer
Pravara Left Canal Sub-Division
Loni, Tal. Rahata, Dist. A'Nagar

SIGNED, SEALED AND DELIVERED by the Executive Engineer, Ahmednagar Irrigation
Division for and on behalf of the Governor of Maharashtra in the presence of -

1. अहमदनगर (कोट डा. ई. द. का)

2. एस (एस. एस. पोर्ट हद का)

W
कार्यकारी अभियंता
अहमदनगर पाटबंधारे विभाग
अ अहमदनगर



Head Office :
9, Maharashtra Chamber
of Commerce Lane, Fort,
Mumbai - 400 001.
Tel.: 2287 6020 Fax : 2283 0182 / 2204 2484
Grams : "FARMERBANK" P.O. Box No. 472
Website : www.msrbank.com e-mail : info@msrbank.com

**The Maharashtra
State Co-operative
Bank Limited**

(Incorporating The Vidarbha Co-op. Bank Ltd.)



No.104/BKG/CCI/BG/ 65 /2014 - 2015

Date : 20-02-2015

To,
The Executive Engineer,
Irrigation Deptt.,
Aurangabad Road,
Ahmednagar, (Maharashtra)

Dear Sir,

Reg :- Extension to validity period of Bank Guarantee.

Please find enclosed herewith original extension of Bank Guarantee bearing No.97/G/31 dtd.13-03-2008 issued on behalf of **Pad. Dr. Vitthalrao Vikhe Patil Sahakari Sakhar Karkhana Ltd., Pravaranagar, Tal. Rahata, Dist. Ahmednagar-413 712**, in your favour for Rs.31,43,000/- (Rs. Thirty one Lakhs Forty three Thousand only).

The said Bank Guarantee is renewed upto **28-02-2016** & your claim (if any) should be made on us in writing on or before expiry date of the said Bank Guarantee i.e. **28-02-2016**

All correspondence in this regard should be made on the following address:-

The Manager,
The Maharashtra State Co-op. Bank Ltd.,
9, Maharashtra Chamber of Commerce Lane,
Fort, Mumbai 400 001.
FAX : 022 - 2283 0182, 2204 2484.
PHONE : 022 - 2284 5077 , 2280 0512.

Thanking You,

Yours faithfully

**Dy Manager
(Cash Credit)**

Encl.: As Above

--1 Extension to Validity V.V.Patil SSK 15



The Maharashtra State Co-operative Bank Limited
 (Incorporating The Vidarbha Co-op. Bank Ltd.)
 Scheduled Bank

Head Office : Cash credit Deptt., 9, Maharashtra Chamber of Commerce Lane, Fort, Mumbai 400 001
 P. O. Box No. 472 Tel.: 022-2284 5077, 2280 0512 / 553 / 554
 Fax : 022-2283 0182 / 2204 2484 Grams : " FARMERBANK"

GUARANTEE NO. 97/G/31 Extn. No. 07

The Executive Engineer,
 Irrigation Department,
 Aurangabad Road,
Ahmednagar. (Maharashtra)

Sub: Extension to the validity period of Bank Guarantee No.97/G/31 dated 13/03/2008 for Rs.31,43,000.00 in your favour - A/c Pad. Dr. V.V.Patil Sahakari Sakhar Karkhana Ltd., Pravaranagar, Tal. Rahata, Dist. Ahmednagar

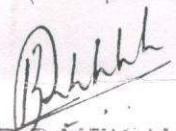
At the request of our constituent. Pad. Dr. Vitthalrao Vikhe Patil Sahakari Sakhar Karkhana Ltd., Pravaranagar, Tal. Rahata, Dist. Ahmednagar-413 712 we hereby extend the validity period of captioned guarantee for further period of one year i.e. from 01.03.2015 to 28.02.2016.

All other terms and conditions of aforesaid Bank Guarantee will remain unchanged.

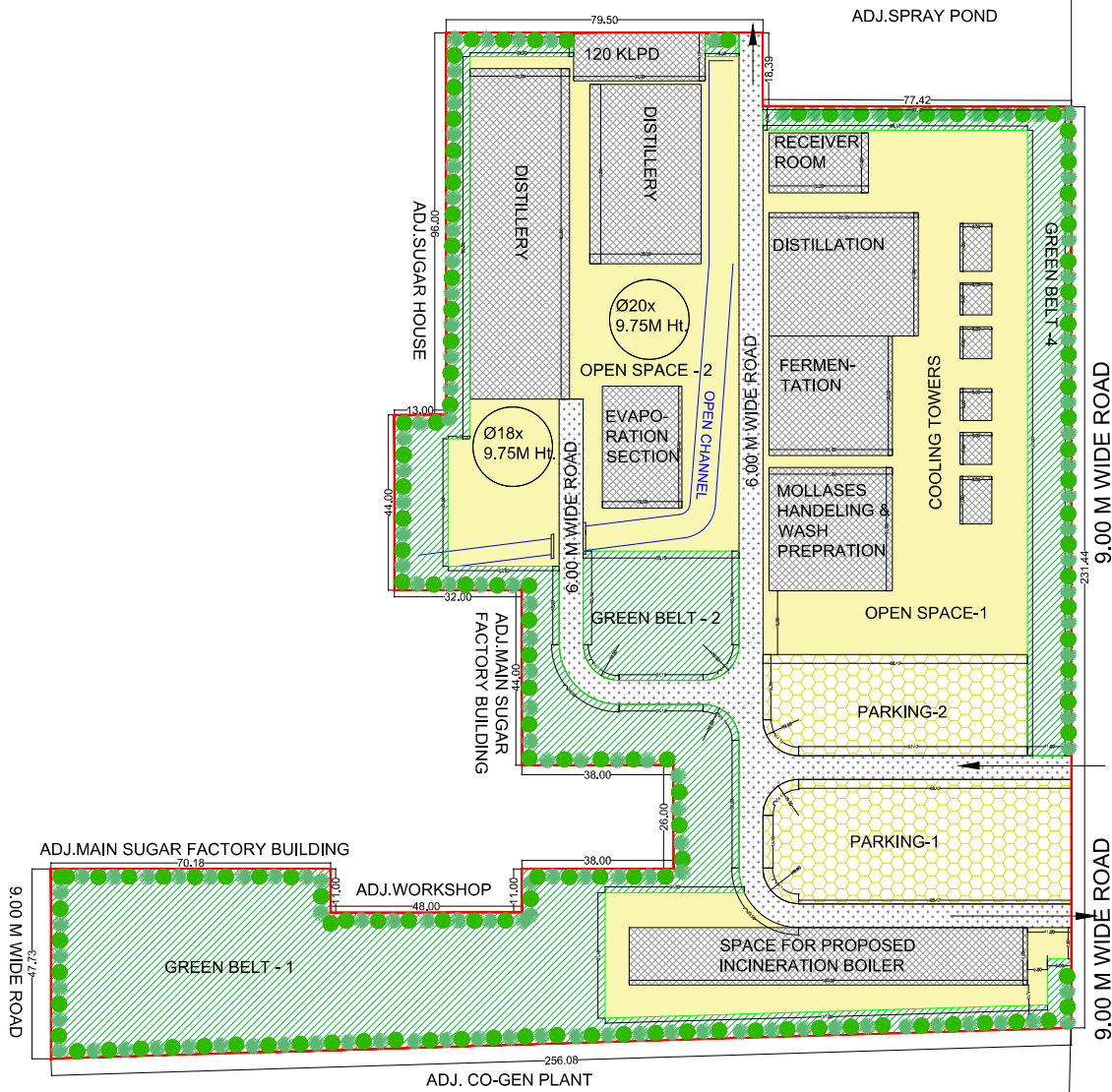
Please keep this extension letter attached to the original Bank Guarantee No. 97/G/31 dated 13/03/2008 for Rs.31,43,000.00 (Rupees:- Thirty One Lakh, Forty Three Thousand only) as it forms the integral part of the same.



THE MAHARASHTRA STATE CO-OP. BANK LTD., MUMBAI
 (Incorporating the Vidarbha Coop. Bank Ltd.)


 B.P. MEKHALE-196
 Asst. Manager


 SUDHIR C. KEDAR -260
 Manager



LAYOUT

LEGENDS :-

TOTAL PLOT AREA	- 40468.60 SQM.
A) TOTAL BUILT UP	- 9664.21 SQ.M - 23.88%
B) TOTAL GREEN BELT AREA	-13356.09 SQ.M - 33.00%
C) TOTAL PARKING AREA	- 4047.65 SQ.M - 10.00 %
D) TOTAL OPEN SPACE AREA	- 10420.46 SQ.M - 25.75 %
E) TOTAL ROAD AREA	- 2980.19 SQ.M - 7.36%

SR NO.	PARTICULARS	AREA (SQ.M.)
1	DISTILLERY -1	2075.00
2	DISTILLERY -2	1260.00
3	120 KLPD	400.21
4	EVAPORATION SECTION	613.05
5	RECEIVER ROOM	375.00
6	DISTILLATION	1162.50
7	FERMENTATION	930.00
8	MOLLASES HANDLING & WASH PREPARATION	961.00
9	COOLING TOWERS	448.00
10	SPACE FOR PROPOSED INCINERATION BOILER	1439.45
	TOTAL	9664.21

SR NO.	SIGN	PARTICULARS
1		GREEN BELT
2		PARKING
3		OPEN SPACE
4		BUILDINGS
5		6.00M WIDE ROAD
6		PLOT BOUNDARY

SR NO.	GREEN BELT	AREA (SQ.M.)
1	GREEN BELT - 1	9878.47
2	GREEN BELT - 2	1234.45
3	GREEN BELT - 3	51.00
4	GREEN BELT - 4	2192.17
	TOTAL	13356.09

SR NO.	PARKING	AREA (SQ.M.)
1	PARKING- 1	2378.67
2	PARKING - 2	1668.98
	TOTAL	4047.65

PROJECT

PADMASHRI Dr. VITTHALRAO VIKHE PATIL SAHAKARI SAKHAR KARKHANA Ltd., PRAVARANAGAR. TAL.-RAHATA DIST.-AHMEDNAGAR

LAY OUT PLAN

