

P-226-GMSL-EIA-DISTILLERY-52021

# SUMMARY ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REPORT

(IN ENGLISH AND MARATHI)

**FOR** 

EXPANSION OF SUGAR FACTORY FROM 4500 TCD TO 7500 TCD (INCREASE BY 3,000 TCD),CO-GEN PLANT FROM 14.85 MW TO 30 MW (INCREASE BY 15.15 MW) AND ESTABLISHMENT OF 110 KLPD MOLASSES/CANE JUICE BASED DISTILLERY

BY

# **GOKUL MAULI SUGARS LTD.**

Tadwal, Tal: Akkalkot,
District: Solapur, Maharashtra.

#### PREPARED BY



# **EQUINOX ENVIRONMENTS (I) PVT. LTD.,**

ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS & ANALYSTS, KOLHAPUR (MS)

E-mail: projects@equinoxenvi.com, eia@equinoxenvi.com

AN ISO 9001: 2015 & QCI - NABET ACCREDITED ORGANIZATION









**AUGUST 2021** 



# GOKUL MAULI SUGARS LIMITED

"Mauli Group" 4th floor, Fortune Plaza, Thube Park, Near Sancheti Hospital. Shivaii Nagar, PUNE - 411 005 (India)

Tel: 020-2553 9999, 2553 3336 Email: office@gokulmauli.com CIN NO.: U15422PN2015PLC154088

REF NO.: GMSL / 99/2021-22

To,
The Member Secretary,
Maharashtra Pollution Control Board (MPCB);
3<sup>rd</sup> & 4<sup>th</sup> Floor, Kalpataru Point,
Sion Circle, Sion (E),
Mumbai - 400 022

Sub.: Application for 'Public Hearing' to be conducted for expansion of Sugar Factory from 4500 TCD to 7500 TCD, Co-generation from 14.85 MW to 30 MW & establishment of 110 KLPD Molasses (B & C Heavy)/Cane Juice based Distillery Unit by — Gokul Mauli Sugars Ltd. (GMSL), located at Gat No. 69, 70, 71, 72, 73, 76/1/2, 488, 493, 494, Tadwal, Tal.: Akkalkot, Dist.: Solapur.

**Ref.**: 'Terms of Reference'(ToR) granted vide letter no. J-11011/234/2021-IA-II(I) dated 05.06.2021. Copy enclosed at **Enclosure – I**.

#### Dear Sir,

This has reference to an online Form- I application submitted for grant of ToRs to MoEFCC; New Delhi on 01.06.2021. The same was in respect of expansion of Sugar Factory from 4500 TCD to 7500 TCD, Co-generation from 14.85 MW to 30 MW & establishment of 110 KLPD Molasses (B & C Heavy)/Cane Juice based Distillery Unit by — **Gokul Mauli Sugars Ltd.**, **Solapur.** 

Subsequently, standard ToRs were recommended to industry. Refer Enclosure-I for copy of ToR letter. Therein, directions were given to conduct Public Hearing w.r.t. our project. Now, in order to conduct Public Hearing, we hereby are submitting all the relevant documents and information to your office.

Alongwith the Public Hearing application, a draft EIA Report as per the generic structure stipulated in MoEF Notification No. S.O.1533 (E) dated 14.09.2006 amendments thereto; and Executive Summary Report in two languages (English and Marathi) are enclosed separately. The same provide details of Pollution Control Facilities, Production Processes and Raw Materials as well as Finished Products and Environmental Management Plan (EMP) etc. regarding the existing and proposed expansion unit.

'Twenty Sets' of various documents, as mentioned above and equivalent number of soft copies of same have been submitted for your information and necessary further action. Also, a Demand Draft of Rs. 1,00,000/- (Rs. One Lakh only) bearing No.279758 drawn on Lokmangal Co. Op. Bank Ltd., Dated 19/07/2021 towards the Public Hearing charges, as decided by the govt., has been presented herewith.

Please do the needful and oblige.

Thanking you.

Yours faithfully

ri Ashish V. Pati (Director)

DATE: 23.07.2021

Encl.: 1. Executive Summary of Project

2. A Draft EIA Report

3. A D.D. bearing No. 279758 dated 19/07/2021 drawn on Lokmangal Co. Op. Bank Ltd.,

AXIS BANK LTD SOLAPUR [MH], SOLAPUR, 413001 IFS CODE - UTIB0000266	VALID FOR THREE MONTHS FROM THE DATE OF ISSUE Not over Rs
PAY _ THE SUB REGIONAL OFFICER MA	AHARASHTRA POLLUTION CONTORI BOARD OR ORDER / या उनके आदेश पर
A/C NQ. 266010200005494  CACOB 266460	SOLAPUR BRANCH FOR LOKMANGAL CO.OP. BANK LTD.
SEBHAAS	A/c Payee (July 198)
#* 27975B	Payable at par at all branches of Axis Bank Ltd in India.  Authorised Signatory(ies)  Please sign above

co

#### **CERTIFICATE**

Declaration by Expert contributing to the Draft EIA in respect of proposed expansion of Sugar Factory from 4500 TCD to 7500 TCD, Cogen Plant from 14.85 MW to 30 MW & establishment of 110 KLPD Molasses/Cane Juice based Distillery Unit. Project will be implemented by **Gokul mauli Sugars Ltd. (GMSL)**, located at Tadwal, Tal: Akkalkot, District: Solapur, Maharashtra.

We, hereby, certify that we were a part of the Draft EIA team in the following capacities that developed the above EIA.

EIA Outward No. P-226-GMSL-EIA-DISTILLERY-52021

**EIA Coordinators** 

Name : Dr. Sangram Ghugare

Period of Involvement : February 2019 to August 2021

Contact Information : eia@equinoxenvi.com

#### **Functional Area Expert:**

Sr. No.	Functional Area	Name of the expert/s	Involvement (Period & Task)	Signature
1	WP	Dr. Sangram Ghugare	<ul> <li>February 2019 to July 2021</li> <li>Study of process and operations</li> <li>Site visit and finalization of water sampling locations</li> <li>Preparation of water balance and identification of wastewater generation.</li> <li>Evaluation of water pollution &amp; control management</li> <li>Identification of impacts, suggestion and finalization of mitigation measures</li> <li>Study on Treatment of effluents through existing ETP and to be upgraded under proposed expansion was contemplated and designs were done accordingly.</li> </ul>	Flygur C.

Sr.	Functional	Name of the	Involvement	Signature
No.	Area	expert/s	(Period & Task)	~-8
2	ЕВ	Prof. (Dr.) Jay Samant	<ul> <li>March 2019- May 2019</li> <li>Selection of Site for conducting ecological &amp; wildlife surveys.</li> <li>Interaction with Govt. offices and agencies for certain secondary data and information pertaining to region specific issues</li> <li>Review of rules, legislation and criteria towards knowing and understanding inclusion in the study region of any eco-sensitive zones, wild life sanctuary.</li> <li>Collection, compilation and presentation of the data as well as incorporation of same in to the Draft EIA report</li> </ul>	Jamus
3	SE	Dr. Anuradha Samant	March 2019- May 2019  Collection of data on socio-economic aspects in study area through surveys.  Public opinions and recording of events for future industrialization in the study area.  Study of sociological aspects like human settlement, demographic and infrastructural facilities available in study area.	gramant
5	AP	Mr. Yuvraj Damugade Mr. Yuvraj Damugade	<ul> <li>March 2019- August 2019</li> <li>Involved in detailed study of mass balance w.r.t. raw materials &amp; products especially from view point of process emissions.</li> <li>Site visit and finalization sampling locations</li> <li>Identification of impact and suggesting the mitigation measures.</li> <li>March 2019- May 2019</li> <li>Designing of Ambient AQM network for use in prediction modeling and</li> </ul>	2 Pagele
6 7	HG GEO	Dr. J. B. Pishte	micro metrological data development  • Development and application of air quality models in prediction of pollutant dispersion,  • Plotting of isopleths of GLCs, Worst case scenarios prediction w.r.t. source and receptors.  March 2019- May 2019  • Hydro geological studies, data processing; analysis and evaluation, Ground water table measurement and monitoring network methodology	# filh

Sr.	Functional	Name of the	Involvement	<b>C</b> *
				Signature
No. 8	SHW	Dr. Sangram Ghugare	(Period & Task)  preparation.  Planning and scheduling of groundwater sampling stations in the region.  Study of geology & general geological configuration of the region as well as sub-surface geology.  Determination of impact and suggesting mitigation measures  March 2019- May 2019  Detailed study of manufacturing process and mass balance.  Solid wastes generation in different	Figure Figure
			steps of manufacturing was identified and their quantification done was checked.  • Identification of various hazardous wastes generated through manufacturing process.  • Practices of storage and disposal of HW its impact and mitigation measures.	
9	RH	Mr. Vinod Sahasrabuddhe	<ul> <li>March 2019- August 2019</li> <li>All the necessary literature for processes storage of hazardous chemicals was studied before visit.</li> <li>Site visit and Verification of adequacy of on-site emergency preparedness plan for proposed unit was done.</li> <li>Identification of probable emergencies and procedures for preparedness for handling the same was verified.</li> <li>Worst case analysis by using ALOHA, Ware house safety measures, suggestion of mitigation measures.</li> </ul>	Sahrahelke
10	NV	Mr. Vinay	March 2019- May 2019	Λ
11	LU	Kumar Kurakula	<ul> <li>Verification of noise levels Monitoring (both work zone and ambient) in the industrial premises and study region</li> <li>Finalization and verification of sampling locations, ambient noise monitoring stations and the data collected.</li> <li>Land use land cover mapping using NRSC Satellite image,</li> <li>Satellite image processing, Image classification, Technical analysis and study for setting up of facility, planning of storage facility.</li> </ul>	Linghumz

Sr. No.	Functional Area	Name of the expert/s	Involvement (Period & Task)	Signature
12	SC	Mr. B. S. Lole	<ul> <li>March 2019- May 2019</li> <li>Involvement physical analysis &amp; characterization of the soils.</li> <li>Identification of Impact and its mitigation measures</li> <li>Interpretation of soil analysis, results and data including comparison of same with standard soil classification.</li> <li>Collection, study and evaluation of soil information from data obtained from secondary sources &amp; its interpretation.</li> </ul>	= A.S.

Declaration by the Head of the Accredited Consultant Organization/authorized person:

I, M/s. Equinox Environments (I) Pvt. Ltd. (EEIPL); Kolhapur, Environmental & Civil Engineers, Consultants and Analysts, hereby confirm that the above mentioned experts were involved in preparation of Draft EIA and Executive Summary in respect of expansion of Sugar Factory from 4500 TCD to 7500 TCD, Cogen Plant from 14.85 MW to 30 MW & establishment of 110 KLPD Molasses/Cane Juice based Distillery Unit by Gokul Mauli Sugars Ltd. (GMSL), located at Tadwal, Tal: Akkalkot, District: Solapur, Maharashtra State.

I also confirm that the consultant organization shall be fully accountable for any mis-leading information mentioned in this statement.

Signature:

Name: Dr. Sangram Ghugare

**Designation:** Chairman & MD

Name of the EIA Consultant Organization: M/s. Equinox Environments (I) Pvt. Ltd. (EEIPL); Kolhapur.

NABET Certificate No. & Valid Till: NABET/EIA/1821/ RA 0135 valid up to 21.10.2021

# **INDEX**

SR. NO.	DESCRIPTION	PAGE NO.
1.	SUMMARY EIA IN ENGLISH	1-24
2.	SUMMARY EIA IN MARATHI	25-51

# **Summary of Draft EIA Report**

For

# Expansion Of Sugar Factory From 4500 TCD To 7500 TCD, Co-Generation Plant From 14.85 MW To 30 MW & Establishment of 110 KLPD Molasses/ Cane Juice Based Distillery

By

## Gokul Mauli Sugars Ltd. (GMSL),

A/p: Tadwal, Tal.: Akkalkot, Dist.: Solapur

#### 1) THE PROJECT

The industry - 'Gokul Mauli Sugars Ltd. (GMSL)' is located at Gat No.: 69, 70, 71, 72, 73, 76/1/2, 488, 493, 494, Tadwal, Tal.: Akkalkot, Dist.: Solapur. Under expansion the crushing capacity will be increased from 4,500 TCD to 7,500 TCD (increase by 3,000 TCD), co-generation plant from 14.85 MW to 30 MW (increase by 15.15 MW) and establishment of 110 KLPD Molasses/Sugarcane juice based distillery.

As per the provisions of "EIA Notification No. S.O. 1533 (E)" dated 14.09.2006; as amended vide Notification No. "S.O. 1960 (E)" dated 13.06.2019; the proposed expansion of Sugar Factory, Cogeneration Plant are listed at activity 5(j) and 1(d) under 'Category B' while Molasses & Cane Juice based distillery activity at 5(g- i & ii) under Category 'A'. As the Sugar, Cogen & Distillery projects are located in same premises as an integrated project complex, the entire proposal of expansion of Sugar, Cogen and establishment of Distillery is being submitted at 'Ministry of Environment, Forests and Climate Change (MoEFCC); New Delhi' for grant of ToRs on 01.06.2021 and Standard ToRs granted on 05.06.2021. A copy is enclosed separately.

Details of capital investment are given in table 1.

**Table 1 Project Investment Details** 

No.	Industrial Unit	Capital Investment (Rs. Cr)			
		Existing	Proposed	Total	
1	Sugar Factory & Co-gen plant	301.11	146.46	447.57	
2	Distillery Unit		80.0	80.0	
	Total	301.11	226.46	527.57	

Proposed expansion project will be formulated in such a fashion and manner so that the utmost care of Safety Norms and Environment Protection shall be taken.

**Table 2 Working Pattern** 

No.	Type of Activity	Days of Operation (No.)				
		Season	Off- Season	Total		
1.	Sugar Factory	180		180		
2.	Co-gen Plant	180	140	320		
3.	Distillery	180	150	330		

#### 2) THE PLACE

Proposed expansion of sugar factory, co-gen plant and establishment of distillery shall be carried out at existing premises of GMSL. Total land area acquired by the GMSL is 44.41 Ha. Out of this total built up area under sugar factory, co-gen plant & distillery is 9.33 Ha. A no objection certificate for the proposed expansion projects activities has been obtained from the Tadwal Grampanchayat. Same is presented at certificates and other documents of the EIA report. Detailed area break-up is presented at Table 3 & copy of plot layout is enclosed separately.

**Table 3 Area Statement of GMSL** 

No.	List of anna	Area (Sq. M.)				
110.	List of area	Existing	Expansion	Total		
1	Total Plot Area			4,44,100		
2	Built-up Area					
	i. Sugar Factory	15,627	16,580	32,207		
	ii. Cogen Plant	7,880	2,377	10,257		
	iii. Distillery Unit		4,600	4,600		
	iv. Area under Road	28,725		28,725		
	v. Residential Colony	9,180	8,400	17,580		
	Total Built-up Area	61,412	31,957	93,369		
3	Green Belt Area (33% of	15,000	1,31,553	1,46,553		
	total plot area)	13,000	1,51,555	1,40,333		
4	Total Open Area	3,67,688		2,04,178		

#### 3) THE PROMOTERS

The promoters of GMSL are well experienced in the field of Sugar, Co-gen & Distillery and have made a thorough study of entire project planning as well as implementation schedule. The names and designations of the promoters are as under-

**Table 4 List of Promoters** 

No.	Name	Designation
1	CA Vyankatrao P. Patil	Chairman
2	Mrs. Chandrakala V. Patil	Director
3	Shri Dhiraj G. Shinde	Managing Director
4	Shri Ashish V. Patil	Director

#### 4) THE PRODUCTS

Details of products that are being manufactured under existing & expansion of sugar factory and co-gen plant as well as those to be manufactured under proposed distillery are represented in following table.

**Table 5 List of Products** 

I J	Product& By-	Product& By-		Quantity			
Industrial unit	product	UOM	Existing	Expansion	Total		
	Sugar (11%)*	MT/D	495	330	825		
C E4 (4500	By-Product						
Sugar Factory (4500 TCD to 7500 TCD)	Bagasse (30%)*	MT/D	1350	900	2250		
1CD to 7500 1CD)	Press Mud (4%)*	MT/D	180	120	300		
	Molasses (4%)*	MT/D	180	120	300		
Co-gen Plant (14.85 MW to 30 MW)	Power Generation	MW	14.85	15.15	30		
Distillery Unit	Rectified Spirit/ ENA/ Ethanol/ Absolute Alcohol (AA)	KLPD		110	110		
(110 KLPD)	By-product						
	Fusel Oil	MT/D		7	7		
	$CO_2$	MT/D		91	91		

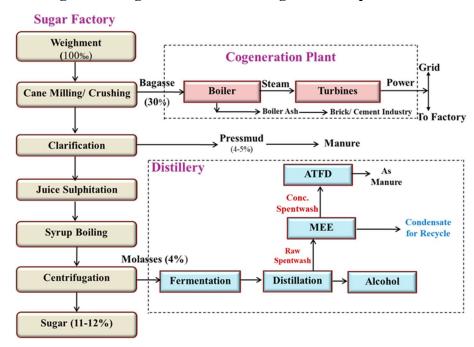
<sup>\* -</sup> Percent of Cane Crushed

**Table 6 List of Raw Materials** 

	Name of Day	Quantity			
Industrial Unit	Name of Raw Material	Unit	Existing	After Expansion	
Cugan Factory	Sugarcane	MT/ D	4500	7500	
Sugar Factory	Lime	MT/ D	10	17	
Co-generation	Bagasse	MT/ D	1056	2112	
	Molasses or	MT/ D		291	
Duamagad	Sugarcane for Juice	MT/ D		1100	
Proposed Distillery	Yeast	MT/ D		0.25	
	Urea	MT/ D		4	
	De-foaming Oil	MT/ D		13	

#### 5) MANUFACTURING PROCESS

**Figure 1 Integrated Manufacturing Process Operations** 



For more Details of manufacturing process and flow chart for sugar, Co-gen plant & Distillery are given in Chapter 2 of EIA Report.

#### 6) THE PURPOSE

Sugarcane potential, agro-climatic conditions, cost of conversion & overheads etc are the major deciding factors for fixing the crushing capacity of sugar factory. Today, sugar factories cannot survive in healthy condition on a single product i.e. sugar. Thus, it is essential to develop sugar factory into an affiliated complex so as to utilize the valuable by-products more profitably. Bagasse based cogeneration of steam and electricity has been practiced since long time in sugar mills. Molasses is also another important by-product of the sugar industry. Alcohol has assumed very important place in the Country's economy. It is a vital raw material for a number of chemicals and also a renewable source of energy. It has been a source of a large amount of revenue by way of excise duty levied by the Govt. on alcoholic liquors. It has a potential as fuel in the form of power alcohol for blending with petrol. Also, the fermentation alcohol has great demand in countries like Japan, U.S.A., Canada, Sri Lanka etc., as the synthetic alcohol produced by these countries, from naphtha of petroleum crude, is not useful for beverages. Considering the above facts as well as availability of raw material, management of GMSL decided to go for expansion.

#### 6) ENVIRONMENTAL ASPECTS

GMSL has implemented an effective 'Environmental Management Plan' and various aspects of the same are as follows:-

#### A) Water Use and Effluent Generation and its Treatment

#### a. Water Use

Details of water usage in existing, expansion as well as proposed activities are as follows-

Table 7 Details of Water Consumption in Sugar Factory & Co-gen Expansion Unit

NI.	Danishi	Quantity(M <sup>3</sup> /Day)		
No.	Description	Existing	After Expansion	
1	Domestic	$20 (5^{\#}+15^{\Omega})$	40 (10 <sup>#</sup> +30 <sup>Ω</sup> )	
2	Industrial			
a)	Manufacturing process	1347*	2200*	
b)	Cooling & Boiler feed	225*	450*	
c)	DM Plant	45 <sup>#</sup>	90#	
d)	Lab & Washing	5*	8*	
e)	Ash Quenching	2*	3*	
	Industrial Total	1624 (1579*+45 <sup>#</sup> )	2751 (2661*+90*)	
3	Green Belt & Gardening	90*	750*	
	Grand Total	1734	3541	
	Grand Total	$(1669*+15^{\Omega}+50^{\#})$	$(3411*+30^{\Omega}+100^{\#})$	
	Fresh Water Consumption (Norm:100 lit./ MT of cane)	13	12	

 $\textbf{Note}\text{: \#-Fresh water taken from ground water, *-Cane condensate, } \Omega\text{ -STP \& ETP treated water.}$ 

Table 8 Details of Water Consumption in Molasses Distillery Unit (During Sugarcane Crushing & Non- Crushing Season Days)

Nia	Dogovinsion	Water Consumption (M <sup>3</sup> /Day)		
No	Description	Cane Crushing Season	<b>Cane Non- Crushing Season</b>	
1	Domestic	3#	3#	
2	Industrial			
a)	Process	873 <b>*</b>	873 <b>*</b>	
b)	Cooling	100*	100#	
c)	Lab & Washing	6*	6#	
		979	979	
	Industrial Total	(106* + 873 <del>*</del> )	(106 <sup>#</sup> + 873 <sup>♣</sup> )	
		100% Recycle	99% Recycle	
	Grand Total	982	982	
	Grand Total	$(3^{\#} + 106^{*} + 873^{*})$	(109 <sup>#</sup> + 873 <sup>♣</sup> )	
	Fresh Water Consumption	0	1.0	
	(Norm: 10 KL/KL of Alcohol)	U	1.0	

**Note**: - # - Fresh water taken from Ground Water, ♣ - Recycled water from CPU, \* - Cane condensate.

Table 9 Details of Water Consumption for Proposed Cane Juice based Distillery

No.	Description	Water Consumption (CMD)
1	Domestic	3#
2	Industrial	
	a. Cooling Make up	100*
	b. Lab & Washing	6*
	Industrial Total	106*
	Grand Total	109 (3#+ 106*)
	Fresh Water Consumption	0
	(Norm: 10 KL/KL of Alcohol)	

Note: # - Fresh water from ground water, \* - Cane condensate

#### **Sugarcane Condensate Balance:**

**Table 10 Cane Condensate Balance** 

No.	Description	Quantity (CMD)
1.	Cane crushing capacity	7500 TCD
2.	Cane condensate- 52% (by considering losses)	3900 CMD
3.	Condensate used for sugar & cogen plant	3411 CMD
4.	Excess cane condensate	489 CMD

#### b. Effluent treatment:

Effluent generated from existing, expansion & proposed activities is given in following table-

Table 11 Effluent Generation from Sugar Factory & Cogen Plant

Description	Quanti	ity(M³/Day)	Disposal
Description	Existing	After Expansion	
Domestic	15	31	Existing - Septic tank followed by soak pit Expansion—Proposed STP
Industrial			
a) Process	245	410	
b) Cooling & Boiler	48	96	Treated in existing ETP having
c) DM Plant	45	90	primary, secondary & tertiary
d) Lab & Washing	5	8	treatment units; will be duly
e) Ash Quenching			upgraded
Industrial Total (a+b+c+d+e)	343	604	upgruded
Norm:100 lit./ MT of cane	76	81	

**Table 12 Effluent Generation from Distillery Unit** 

Description	Quantity(	(M³/Day)	Disposal	
Description	<b>Molasses Based</b>	Cane Juice Based	Disposai	
			<b>Existing</b> - Septic tank followed by	
Domestic	2	2	soak pit	
			Expansion— Proposed STP	
Industrial			Raw spentwash shall concentrated	
	Raw Sp. wash – 880	Raw Sp. wash - 440	in Multi Effect Evaporator (MEE).	
	Conc. Sp. wash –	Conc. Sp. wash -	Conc. Spentwash (1.7 KL/KL)	
	192	96	shall be dried for powder	
Process			formation (ATFD).	
110003	Condensate- 812	Condensate- 394	Other effluent from distillery will	
	(688  MEE + 124)	(344  MEE + 50)	be treated in proposed distillery	
	ATFD)	ATFD)	CPU. Treated effluent will be fully	
	Spent Lees – 154	Spent Lees - 72	recycled in process to achieve	
Cooling blow	10	10	ZLD.	
down	10	10		
Lab & Washing	6	6		
DM Plant				
Ind. Total	Conc. – 192	Conc. – 96		
ing. Total	Other – 982	Other – 482		

#### i) Domestic Effluent -

Domestic effluent from existing activities of GMSL sugar factory and co-gen plant is  $14M^3$ / Day same is being treated separately in septic tanks followed by soak pits provided in a decentralized manner. After implementation of expansion project, total domestic effluent from GMSL campus shall be  $34 \, M^3$ / Day (Domestic effluent from sugar factory & co-gen plant –  $32 \, M^3$ / Day and to that of distillery  $2 \, M^3$ / Day). Same shall be treated in proposed Sewage Treatment Plant (STP) of 40 CMD capacity and the treated effluent shall be reused for flushing and also used for gardening.

#### ii) Industrial Effluent -

From existing sugar factory & co-gen plant operations, trade effluent @ 343 CMD is generated. Subsequent to implementation of expansion, total effluent generated from sugar factory and co-gen plant activities @ 604 M³/Day shall be forwarded to the existing ETP in the GMSL premises. The existing ETP is having capacity of 1200 CMD & sufficient for treatment of effluent after expansion too. The treated water from ETP will be used to gardening & green belt development in own premises. ETP flow diagram is presented at figure 2. Further, industry is having CPU of 1200 M³/D capacity & flowchart is presented at figure 4.

From proposed molasses distillery unit, raw spentwash about 880 M³/D will be generated. Here, raw spentwash will be concentrated in Multi Effect Evaporator (MEE). Concentrated spentwash @ 192 M³/D will be dried for powder formation (ATFD). Other effluents viz. spent lees @ 154 M³/D, condensate @ 812 M³/D (688 MEE+124 ATFD), cooling blow down @ 10 M³/D and lab-wash @ 6 M³/D will be treated in proposed CPU. Treated water from CPU will be reused for industrial operations, thereby achieving Zero Liquid Discharge (ZLD) for process effluent.

Raw spentwash generated from cane juice distillery unit @ 440 CMD will be concentrated in Multi Effect Evaporator (MEE). Conc. Spentwash @ 96 CMD (0.8 KL/KL) will be dried for powder formation (ATFD). Other effluents viz. spent lees @72M³/D, Condensate- 394 M³/D (344 MEE + 50 ATFD), cooling blow down @10M³/D and lab-wash 6M³/D will be treated in distillery CPU having capacity 1000 M³/D. Treated water from CPU will be then reused for industrial operations.

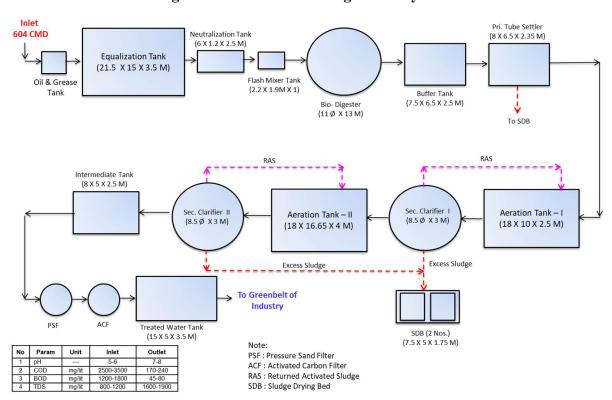


Figure 2 Flow Chart for Sugar factory ETP

**Figure 3 Existing Sugar Factory ETP Units** 



Figure 4 Flow Chart of Sugar Factory CPU

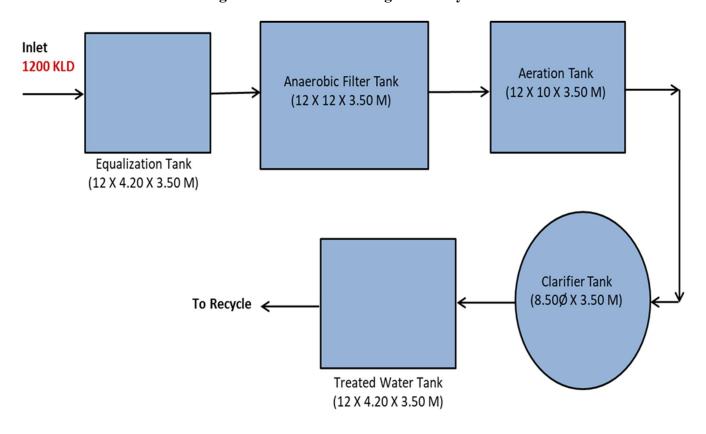
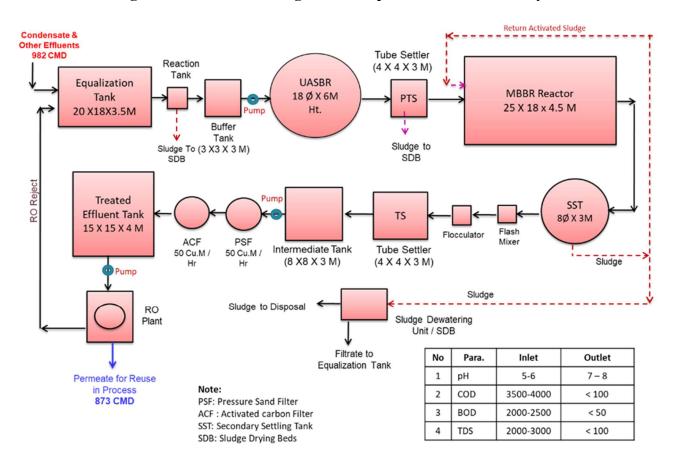


Figure 5 Process Flow Diagram of Proposed CPU for Distillery



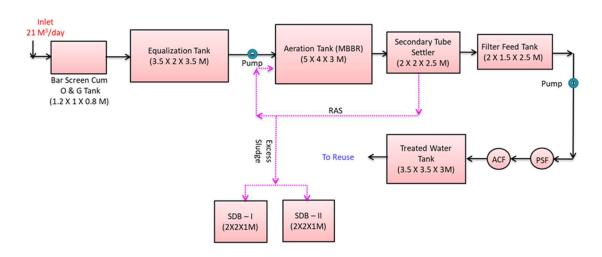
**Figure 6 Existing Sugar Factory CP Units** 



Figure 7 Flow Meters & Online Continuous Monitoring System



Figure 8 Process Flow Diagram of STP (Proposed)



No	Parameters	Unit	Inlet	Outlet
1.	pH		6.5 – 7.5	7.2 – 7.5
2.	COD	mg/lit	500 - 600	< 30
3.	BOD	mg/lit	250 - 300	< 10
4.	TSS	mg/lit	250 - 400	< 5
5.	O & G	mg/lit	25 - 30	< 10

Note:

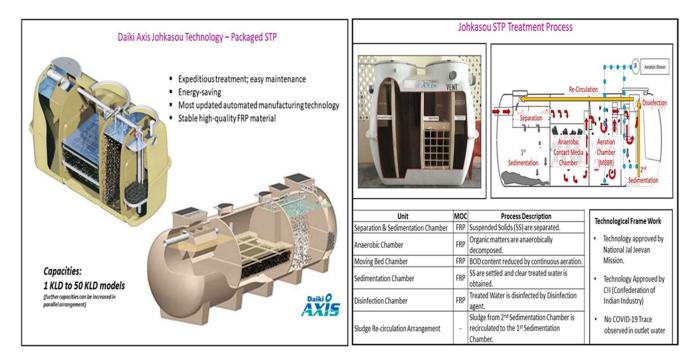
PSF: Pressure Sand Filter

ACF: Activated Carbon Filter

RAS: Return Activated Sludge

SDB: Sludge Drying Bed

Figure 9 Process Technology of STP



#### **B)** Air Emissions:

Under existing activity of sugar and co-gen factory operations, 1 boiler of 100 TPH capacity and 3 nos. of 600 KVA DG sets are installed on site. Boiler is provided with ESP as Air Pollution Control (APC) equipment followed by stack of 85 M. height AGL. Further, under expansion activity of sugar and Co-gen boiler of 100TPH with stack of 85M height AGL will be installed. ESP shall be provided as APC equipment for the same. Steam required for proposed distillery unit will be taken from proposed 100 TPH boiler of sugar & cogeneration plant.

Following table gives details of existing and proposed boilers and D.G. Sets.

Table 13 Details of Boiler and Stack in GMSL

No.	Description	Exi	Existing	
1	Attached to-	Boiler 1	D.G. Set	Boiler 2
2	Capacity	100 TPH	600 KVA (3	100 TPH
			Nos.)	
3	Fuel type	Bagasse	HSD	Bagasse
4	Quantity	1056 MT/D	180 Lit/Hr.	1056 MT/D
5	Material of construction	R.C.C	MS	R.C.C
6	Shape	Round	Round	Round
7	Height, AGL	85 M	5 M (ARL)	85 M
8	Diameter	4.5 M	0.2 M	4.5 M
9	Pollution Control	ESP	Silencer &	ESP
	equipment		Acoustic	
			Enclosure	

Figure 10 Existing Boiler & APC Equipments







## C) Noise Pollution Aspect:

#### 1. Sources of Noise

- i. The existing sugar factory and co-gen; noise generating sources are the boiler house, turbine rooms, cane crushing section and mill house, etc.
- ii. In the distillery, very high noise generating sources will not exist. D.G. set will be one of the sources of noise pollution. Operation of same will be only in case of power failure. Expected noise levels in the section will be about 70 dB(A) or so. Adequate noise abatement measures like silencer & maintenance of pumps, motors, and compressors will be carried out and enclosures will be provided to abate noise levels at source. Moreover, enclosures to the machinery will be provided wherever possible.
- iii. Fermentation section & distillation section will be the other minor noise generating sources. The expected noise levels in these sections will be in the range of 70 to 80dB(A).
- iv. Adequate green will be developed in phase wise manner in and around the industry. So that it will further attenuate the noise levels.

#### 2. Control Measures

Isolation, separation and insulation techniques to be followed, PPEs in the form of earmuffs, earplugs etc. will be provided to workers. D.G. Sets are enclosed in a separate canopy to reduce the noise levels.

#### D) Hazardous Wastes

**Table 14 Hazardous Waste Details** 

No	Industrial Unit	Catagory	Quantity (MT/Yr.)		Dianagal
No.		Category	Existing	After Expansion	Disposal
	Sugar, Co-gen & Distillery	Spent Oil – Cat.5.1	0.7	1	Eamyyandad ta
1		Contaminated Cotton Waste- Cat. 33.3	0.2	0.5	Forwarded to authorized reprocessor
		Empty Containers-Cat. 33.1	30	45	Forwarded to authorized re-seller

#### E) Solid Wastes

**Table 15 Solid Waste Generation & Disposal Details** 

No.	Unit	Tymo	Quant	ity (MT/D)	Disposal
110.		Type	Existing	After Expansion	Disposai
	Sugar Factory &	ETP Sludge	0.5	0.8	Used as manure
1	Sugar Factory & Co-gen Plant	Boiler Ash	21	42	Brick/cement
	Co-gen i iant	(Bagasse)	21	42	manufacturing / as manure
	Distillery	istillery Yeast Sludge	20	Hand on manyer	
2		CPU Sludge		2	Used as manure

#### F) Odour Pollution

There are number of odour sources in existing as well as proposed units, which include molasses handling and storage, fermentation and distillation, secondary effluent treatment, and storage of effluents, stale cane, bad mill sanitation, bacterial growth in interconnecting pipes & unattended drains. Measures adopted under existing unit for controlling same are proper housekeeping, sludge management in biological ETP units, steaming of major pipe lines, regular use of bleaching powder in the drains, efficient handling, prompt & proper disposal of press mud. Under proposed project of distillery, spentwash shall be carried through closed pipeline for spentwash storage and handling activity shall be entirely eliminated.

#### **G)** Compliance with the Norms

All the relevant acts, rules and guidelines with respect to effluent treatment and disposal, solid & hazardous wastes handling and disposal as well as in respect of emission handling and disposal, wherever applicable, as specified by the CPCB/ MPCB or any other concerned authority are strictly followed in the existing set up. Same practice shall be continued after implementation of proposed projects.

#### H. Environmental Management Cell:

GMSL is already having an Environmental Management Cell (EMC) functioning under its existing sugar & co-gen unit. Members of the EMC are well qualified and experienced in their concerned fields. This cell shall be further augmented suitably after establishment of distillery unit. EMC members are as under-

**Table 16 Environmental Management Cell** 

No.	Designation	No. of Working Person(s)
1	Director	1
2	Environmental Officer	1
3	Safety Officer	1
4	Chief Chemist	1
5	Environmental Chemist	1
6	Lab Chemist	3
7	ETP & CPU Operators & Supporting Staff	4

Capital as well as O & M cost towards environmental aspects under existing, expansion & proposed project in GMSL complex is as follows –

Table 17 Capital as well as O & M Cost (Existing & Proposed)

No.	Description	Cost Component (In Lakhs)		
110.	_	Capital	Annual O & M	
A	Existing Project			
1	Air Pollution Control (APC) equipment – ESP for Boiler	350.0	50.0	
	- 1 No. with 85 M stack			
2	Water Pollution Control- ETP	200.0	30.0	
3	Noise Pollution Control	25.0	5.0	
4	Solid & Hazardous Waste Management	20.0	2.0	
5	Environmental Monitoring & Management	30.0	5.0	
6	Occupational Health & Safety	25.0	5.0	
7	Green Belt Development	20.0	3.0	
	Total	670.0	100.0	
	(2% of Existing Investment of Rs. 301.11 Cr.)	070.0	100.0	
В	Expansion & Proposed Project			
1	APC - Stack of 60 M along with ESP, OCMS	400.0	50.0	
2	Installation of MEE, ATFD, CPU & STP	500.0	60.0	
3	Noise Pollution Control	35.0	10.0	
4	Solid & Hazardous Waste Management	30.0	5.0	
5	Occupational Health & Safety	35.0	5.0	
6	Environmental Monitoring & Management	40.0	10.0	
7	Green Belt Augmentation & Rain water harvesting	235.0	50.0	
	Total (6% of Expansion Investment of Rs. 226.46 Cr.)	1275.0	190.0	

#### I) Rainwater Harvesting Aspect

- Total area of Plot 4,44,100 Sq. M.
- Total Open Space 2,04,178 Sq. M.
- Average annual rainfall in the area= 600 mm

#### ➤ Rooftop Harvesting

- Roof Top harvesting area of 29, 492 M<sup>2</sup>
- Roof Top harvesting yield 14,156.1 M<sup>3</sup>

#### Surface Harvesting

• Surface Harvesting of – 3,79,456 Sq. M. Surface Harvesting yields is – 71,750 M<sup>3</sup>

Hence, the total water becoming available after rooftop and land harvesting will be  $14,156.1 + 71,750 = 85,906 \text{ M}^3 \text{ i.e. } 85 \text{ ML}$ 

#### J) The Green Belt

**Table 18 Area Details** 

No	List of area		Area (Sq. M.)	
No.	List of area	Existing	Expansion	Total
1	Total Plot Area			4,44,100
2	Built-up Area			
	i. Sugar Factory	15,627	16,580	32,207
	ii. Cogen Plant	7,880	2,377	10,257
	iii. Distillery Unit		4,600	4,600
	iv. Area under Road	28,725		28,725
	v. Residential Colony	9,180	8,400	17,580
	Total Built-up Area	61,412	31,957	93,369
3	Green Belt Area (33% of	15,000	1,31,553	1,46,553
	total plot area)	15,000	1,51,555	1,40,333
4	Total Open Area	3,67,688		2,04,178

#### The criteria for proposed green belt development plan

Emission of SPM, SO<sub>2</sub> is the main criteria for consideration of green belt development. Plantation under green belt is provided to abate effects of the above emissions. Moreover, there will also be control on noise from the industry to surrounding localities as considerable attenuation will occur due to the barrier of trees provided in the green belt.

#### K) Socio-Economic Development

The socio-economic study was carried out in twelve villages within 10 Km radius of the study area was carried out with the help of an interview schedule.31 questions in Marathi, which was drafted prior to and employed during the survey. Refer Socio-economic profile in Chapter 3 of EIA report for detailed information of socio-economic aspect. The observations and conclusions after the socio-economic study are as follows-

- Water shortage in nearly all villages, especially villages near factory site and away from river Bhima, was prominently observed during field visit. Hence, Massive water conservation measure by involving government, locals as well as NGOs need to be undertaken by the industry
- Most villages lacked drainage system, sewage treatment and solid waste management. Grampanchayat should make provision for infrastructure like roads, toilets in public places.
- People have to purchase water (a can of 20 litres) for drinking purpose daily from local supplier. Lack of rainfall and increasing human pressure on groundwater may be the reasons for water scarcity in the region.
- It was interesting to observe that the facility of drinking water through RO treatment was available in villages of Karnataka state.

#### 7) ENVIRONMENTAL MONITORING PROGRAM

Reconnaissance of the study area was undertaken in the month of February 2019. Field monitoring for measuring meteorological conditions, ambient air quality, water quality, soil quality and noise levels was initiated in March 2019. The report incorporates the data monitored during the period from March 2019 to May 2019 and secondary data collected from various sources which include Government Departments related to ground water, soil, agriculture, forest etc.

**Figure 11 Existing Green Belt** 



#### A. Land Use

Land use study requires data regarding topography, zoning, settlement, industry, forest, roads and traffic etc. The collection of this data was done from various secondary sources viz., Census books, Revenue records, State and Central Government Offices, Survey of India toposheets as well as high resolution satellite image and through primary field surveys.

#### B. Land Use/ Land Cover Categories of Study Area

Table 19 Land Use/ Land Cover

No.	Land Use Land Cover	Area (Ha)	Percentage (%)
1	Built Up Area	450.00	1.43
2	Crop Land	16370.00	52.11
3	Fallow Land	13475.00	42.89
4	Water Bodies	20.00	0.06
5	River	380.00	1.21
6	Barren Land	720.00	2.29
	Total	31415.00	100.00

#### C. Meteorology

The methodology adopted for monitoring surface observations is as per the standard norms laid down by Bureau of Indian Standards (BIS) and the Indian Meteorology Department (IMD). On-site monitoring was undertaken for various meteorological variables in order to generate the data, which is then compared with the meteorological data generated by IMD from the nearest station at Solapur. The meteorological parameters were monitored during the period March 2019 to May 2019. The details of parameters monitored, equipments used and the frequency of monitoring have been given in Chapter 3 of the EIA report.

#### D. Air Quality

The ambient air quality with respect to study zone of 10 Km radius around the GMSL site forms the baseline information. The study area represents some urban environment although there is dominance of rural habitation. The major air pollutants released into atmosphere from the different sources are  $PM_{10}$ ,  $PM_{2.5}$ ,  $SO_2$ ,  $NO_x$  and to small extent CO. However, these again vary with type and nature of the sources.

This section describes selection of sampling locations, includes the methodology of sampling and analytical techniques with frequency of sampling. Presentation of results for the March 2019 – April 2019 – May 2019 survey is followed by observations.

Table 20 Ambient Air Quality Monitoring (AAQM) Locations

AAQM Station Code	Name of the Station	Station Location	Distance from the Site (Km)	Direction w.r.t. the Site
A1	Industrial Site	-		
A2	Tadval	Nearest Habitation	1.3	WSW
A3	Kegaon Kh.	Up-Wind	5.0	NW
A4	Mundhewadi		4.6	W
A5	Mhaisalge	Downwind	5.7	SSE
A6	Karajgi		6.6	SW
A7	Devikavathe	Crosswind	7.0`	SE
A8	Mangrul		2.75	WSW

Table 21 Summary of the AAQM Levels for Monitoring Season [March – April – May 2019]

					Locati	on			
		A1	A2	A3	A4	A5	A6	A7	A8
		Site	Tadval	Mhaisalge	Karajgi	Kegaon Kh.	Mundewadi	Devikavathe	Mangrul
$PM_{10}$	Max	65.90	55.10	55.90	55.70	55.90	55.80	55.90	55.40
$\mu g/M^3$	Min	45.30	46.80	46.40	43.40	45.80	47.40	46.80	47.20
	Avg	57.43	52.51	51.93	52.27	50.73	51.14	51.42	50.88
	98% Percentile	64.15	55.01	55.76	55.65	55.85	55.75	55.62	55.35
PM <sub>2.5</sub>	Max	20.50	16.90	17.40	17.60	18.10	16.80	17.70	17.30
$\mu g/M^3$	Min	14.50	11.20	10.40	10.80	11.40	11.40	11.30	10.20
	Avg	18.03	13.40	13.33	13.98	14.02	14.05	14.91	13.63
	98% Percentile	20.50	16.85	16.80	17.51	18.01	16.75	17.56	16.93
$SO_2$	Max	24.00	13.80	13.70	17.60	13.90	13.60	18.40	15.60
$\mu g/M^3$	Min	18.90	10.00	9.10	10.20	8.30	8.40	8.90	9.40
	Avg	21.77	11.77	11.38	12.22	10.50	11.05	12.02	12.28
	98% Percentile	23.95	13.66	13.65	16.45	13.90	13.28	16.88	15.37
NOx	Max	28.70	28.60	18.90	20.90	19.90	22.80	20.70	19.60
$\mu g/M^3$	Min	24.60	14.70	15.70	14.40	15.40	15.80	16.40	15.40
	Avg	27.12	17.90	17.36	17.73	18.03	18.22	18.28	17.85
	98% Percentile	28.56	24.28	18.85	20.81	19.90	21.83	20.19	19.51
	Max	0.90	0.080	0.090	0.090	0.090	0.080	0.090	0.090
CO	Min	0.10	0.030	0.020	0.020	0.010	0.020	0.020	0.010
mg/M <sup>3</sup>	Avg	0.53	0.050	0.050	0.050	0.050	0.060	0.050	0.050
	98% Percentile	0.90	0.080	0.090	0.090	0.090	0.080	0.090	0.090

Note: PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> are computed based on 24 hourly values. CO is computed based on 8 hourly values.

**Table 22 National Ambient Air Quality Standards (NAAQS) by CPCB** (Notification No. S.O.B-29016/20/90/PCI-L by MOEFCC; New Delhi dated 18.11.2009)

Zone Station	PM <sub>10</sub> μ	ıg/M³	ΡΜ <sub>2.5</sub> με	$g/M^3$	SO <sub>2</sub> μ	g/M <sup>3</sup>	NOx μ	ıg/M³	CO n	ng/M <sup>3</sup>
Zone Station	24 Hr	A.A.	24 Hr	A.A	24 Hr	A.A.	24 Hr	A.A.	8 Hr	1 Hr
Industrial, Rural & Residential Area	100	60	60	40	80	50	80	40	4	4
Eco-sensitive Area Notified by Govt.	100	60	60	40	80	20	80	30	4	4

#### E. Water Quality

Sampling and analysis of ground water and surface water for physical, chemical and heavy metals were undertaken through the laboratory of M/s. Green Envirosafe Engineers & Consultant Private Limited, Pune.

As per standard ToRs 3 locations for surface water and 8 locations for ground water were selected. The locations are mentioned below-

**Table 23 Monitoring Locations for Surface Water** 

Station Code	Name of the Station	Distance from the Site (Km)	Direction w.r.t. the Site
SW1	Guddewadi	8.53	SE
SW2	Padnur	9.97	SSW
SW3	Mhaisalage	5.70	SSE

**Table 24 Monitoring Locations for Ground Water** 

Station	Name of the	Geographical Location	Distance (M)	Direction
Code	Station			
GW1	Open well	17°24'16.59"N 75°59'21.41"E	0.34	SW
GW2	Open well	17°24'18.92"N 75°59'09.90"E	0.61	WSW
GW3	Bore well	17°23'59.96"N 75°58'56.31"E	1.24	SW
GW4	Open well	17°24'01.78" N 75°59'27.80"E	0.67	S
GW5	Open well	17°24'31.14"N 75°59'52.91"E	0.72	ENE
GW6	Open well	17°24'35.14"N 75°59'27.07"E	0.36	NNE
GW7	Open well	17°24'44.39"N 75°59'31.52"E	0.64	N
GW8	Open well	17°24'41.44"N 75°59'22.90"E	0.59	NNW

The results observed after monitoring ground water locations and surface water locations are mentioned in Chapter 3 of the EIA report.

#### F. Noise Level Survey

The study area of 10 Km radius with reference to the proposed project site has been covered for noise environment. The four zones viz. Residential, Commercial, Industrial and Silence Zones have been considered for noise monitoring. Some of the major arterial roads were covered to assess the noise due to traffic. Noise monitoring was undertaken for 24 hours at each location. The details of noise monitoring stations are given in following table.

**Table 25 Noise Sampling Locations** 

Station	Station Location	Direction	Distance (Km)
N1	Project Site	-	-
N2	Tadwal	WSW	1.3
N3	Khanapur	SSW	5.0
N4	Kalkarjal	WSW	7.5
N5	Mangrul	WSW	2.7
N6	Karajgi	SW	6.6
N7	Kegaon	NW	5.0
N8	Sujervalge	NW	6.6

**Table 26 Ambient Noise Levels** 

No	Location		rage Nois	se Level in dB(A)			
No.	Location	$L_{10}$	L <sub>50</sub>	L <sub>90</sub>	Leq(day)	$L_{eq(night)}$	L <sub>dn</sub>
1	N1	51.9	58.7	62.8	68.5	54.2	67.3
2	N2	41.6	46.1	49.9	53.1	41.7	52.6
3	N3	40.9	45.7	47.6	53.1	40.7	52.3
4	N4	42.3	46.4	49.9	52.7	42.8	52.8
5	N5	42.9	46.2	48.4	52.0	41.7	51.9
6	N6	41.4	47.6	48.8	55.6	42.2	54.6
7	N7	39.4	45.9	47.9	54.6	40.8	53.6
8	N8	41.2	47.0	48.6	54.5	42.0	53.8

#### G. Socio-Economic Profile

Socio-economic status of the population is an indicator for the development of the region. Any developmental project of any magnitude will have a bearing on the living conditions and on the economic base of population in particular and the region as a whole. Chapter 3 may be referred for details of this aspect.

#### H. Ecology

Field survey was carried out according to random sampling method for flora, and opportunistic sighting method, and standard point count method for fauna were followed. In general visual observation and estimation method was used for qualitative study of the biota. Birds and fish were studied being good indicators of local environmental change. Flora, mainly major tree species, was focused on identification and species abundance.

#### 9) ENVIRONMENTAL IMPACT AND MITIGATION MEASURES

#### A. Impact on Topography

No major topographical changes are envisaged in the area except some levelling and landscaping. In acquired area, the changes will be due to the manmade structures, like distillery structure and ancillary units. The industrial activity will invite positive benefits in the form of land levelling and tree plantation in the plant vicinity and other premises

#### **B.** Impact on Climate

Impact on the climate conditions due to the proposed activity is not envisaged, as emissions to the atmosphere, of flue gases with very high temperatures are not expected

#### C. Impact on Air Quality

A study area of 10 km radius is considered for determination of impacts.

#### i. Baseline Ambient Air Concentrations

The 24 hourly 98 percentile concentrations of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NOx in Ambient Air, recorded during the field study conducted for the season March 2018 –May 2018 are considered as baseline values. They represent impact due to operations of existing nearby industries on this region. Average concentrations of above mentioned parameters, at this location, are considered to be the 'Baseline Concentrations' to determine the impact of proposed industrial operation on ambient air quality. The existing baseline concentrations are summarized in following table-

Parameter  $PM_{10}$  $PM_{2.5}$  $SO_2$  $NO_X$ CO  $0.9 \text{mg/m}^3$ 98 percentile  $64.15 \mu g/m^3$  $20.5 \mu g/m^3$  $23.95 \mu g/m^3$  $28.56 \mu g/m^3$ **NAAQS**  $80 \mu g/m^3$  $4 \text{ mg/m}^3$  $100 \, \mu g/m^3$  $60 \,\mu g/m^3$  $80 \mu g/m^3$ 

**Table 27 Baseline Concentrations (98 Percentile)** 

#### ii. Air Polluting Sources

As discussed above Under existing activity of sugar and co-gen factory operations, 1 boiler of 100 TPH capacity and 3 nos. of 600 KVA DG sets are installed on site. Further, under expansion activity; a boiler of 100 TPH with stack of 85 M height will be installed. ESP shall be provided as APC equipment for the same.

#### D. IMPACT ON WATER RESOURCES

#### i. Impact on Surface Water Resouces & Quality

Total water requirement for existing & proposed activities will be 4042 M<sup>3</sup>/D. Fresh water taken from Ground water. More details about water budget are presented at Chapter 2 under Section 2.7.1

Total effluent generated from sugar factory and co-gen plant activities after expansion @ 604 M³/Day shall be forwarded to the existing ETP in the GMSL premises.

From proposed molasses distillery unit, raw spentwash about 880 M³/D will be generated. Here, raw spentwash will be concentrated in Multi Effect Evaporator (MEE). Concentrated spentwash @ 192 M³/D will be dried for powder formation (ATFD). Other effluents viz. spent lees @ 154 M³/D, condensate @ 812 M³/D (688 MEE+124 ATFD), cooling blow down @ 10 M³/D and lab-wash @ 6 M³/D will be treated in proposed CPU. Treated water from CPU will be reused for industrial operations, thereby achieving Zero Liquid Discharge (ZLD) for process effluent.

Domestic effluent generated will be 33 M<sup>3</sup>/D, treated in proposed STP.

No process effluent will be discharged in nearby river or nalla. Hence, there will not be any impact on surface water quality.

#### ii. Impact on Ground Water Resources & Quality

Requirement for fresh water will be met from ground water. NOC is procured from CGWA for extraction of ground water. As far as water consumption is concerned Maximum use of condensate and ETP treated water is done. For details w.r.t water consumption refer Chapter 2, from EIA report. Spentwash generated from proposed distillery will be stored in HDPE lined storage tanks thereby avoiding contamination of ground water due to seepage. Hence there will not be any significant impacts on ground water quality due to proposed project

#### E. Impact On Soil

Impact on the soil characteristics is usually attributed to air emissions, wastewater discharges and solid waste disposal. Under existing sugar factory & co-gen plant, as mentioned above, there will not be discharge of any untreated effluent on land. ESP is installed to existing boiler. Solid waste generated will be in the form of boiler ash and ETP sludge. Boiler ash is sold to farmers/brick manufacturers whereas ETP sludge is used for plantation as manure. The same disposal method will be followed after sugar factory expansion. Domestic effluent will be treated in proposed STP. Hence, there will not be any major increase in chemical constituents of soil through deposition of air pollutants/ discharge of waste water. Moreover, there will not be any process emissions worth mentioning, the impact on the soil characteristics will be nil.

#### F. IMPACT ON NOISE LEVELS

Probable sources of noise are mill, compressors, boiler, distillation assembly, turbine & D.G. Sets etc. Workers could get annoyance and can lose concentration during operation. Workers working near the source need risk criteria for hearing damage while people residing near industry lead annoyance and psychological damage. It is obvious that the acceptable noise level for the latter case is less than the former case. Noise can affect health of workers, can cause loss of hearing and can disturb during working which may lead to accidents.

#### G. IMPACT ON LAND USE

Present use of the project land is for industrial wherein the sugar factory, distillery unit and cogeneration plant have already been established. Expansion project will be implemented in existing premises, an area was kept vacant for expansion of sugar factory & distillery unit. Hence, no change in the land use pattern is expected. Therefore, impact on land use is insignificant.

#### H. IMPACT ON FLORA AND FAUNA

Discharge of the untreated wastewater from the industry in surrounding area can also cause significant environmental impact on the aquatic habitats and affect dependent biodiversity. In case of air pollution, the industry is going to contribute in SPM pollution load in the nearby area. This may have negative impact particularly on avifauna, surrounding crop yields and local

population. The details in respect of impacts on ecology and biodiversity are described in Chapter 3.

#### I. IMPACT ON HISTORICAL PLACES

No historical place is within the study area and the impact is nil.

#### 9) ADDITIONAL STUDIES & INFORMATION

#### Risks Assessment -

Risk to human health is inherent. It is safe only when the installation is dismantled at the end of its useful life. The following principles should be used as guidelines for the selection of risk criteria -

- 1. The increase in risk, caused by the presence of the plant to local community (i.e. neighboring public) should be negligible in comparison to the risk they already have in their daily life.
- 2. The work force on the plant should be expected to accept a potentially greater risk than the members of the local community since the work force have been trained to protect themselves from the possible hazards and thus reducing the actual risk to themselves.

The risk criteria considered by Green A.G. (1982) are given as below:

- 1. Risk to Plant: This risk is to be given priority only when it is proved beyond doubt that the risk to life is so low that reducing this risk may not be justified. Under this consideration, the risk to economic damage may be considered.
- 2. Risk to Public and Employees: The scale used for risk to employee and public is Fatal Accident Rate (F.A.R.) or more commonly Fatal Accident Frequency Rate. (F.A.F.R.). The F.A.R. and F.A.F.R. is defined as number of deaths from industrial injury expected in a group of 1000 men during their working period.

For more details w.r.t. this aspect, Chapter 7 may be referred.

#### 10) SALIENT FEATURES OF EMP

Following routine monitoring programme as detailed in Table 28 shall be implemented at site. Besides to this monitoring, the compliances to all Environmental Clearance (EC) conditions and regular permissions from CPCB /MoEFCC shall be monitored and reported periodically.

**Table 28 Plan for Monitoring of Environmental Attributes within Industrial Premises** 

No.	Description	Location	Parameters	Frequency	Conducted by
1	Ambient Air	Upwind-1, Downwind-2 (Near Cane	PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NOx, CO	Monthly	
	Quality	Yard, Near Main ETP, Near			
		Colony.)			
		Study area - (Villages namely –		Quarterly	
		Tadwal, Mangrul, Kegaon, BK.			
		Mundhewadi and Mhaisalage)			MoEFCC and
2	Stack Emissions	Boiler – 2 Nos., D.G Sets – 3 Nos.	SPM, SO <sub>2</sub> , NOx	Monthly	NABL
3	Noise	Workzone 5 Locations - (Near Main	Spot Noise Level recording;	Monthly	Approved
		Gate, Near Fermentation Section	Leq(n), Leq(d), Leq(dn)		External Lab
		Distillation section, Boiler, DG set,			
		Turbine)			
		Ambient Noise location - 8		Monthly	
4	Drinking water	Canteen	Parameters as per drinking	Monthly	
			water Std IS:10500		

No.	Description	Location	Parameters	Frequency	Conducted by
5	Soil	4 locations within 5 Km (Villages -	pH, Salinity, Organic	Quarterly	
		Mangrul, Tadwal, Kegaon, BK. and	Carbon, N, P, K		
		Mhaisalage)			
6	Water Quality	Locations in study area - Ground	Parameters as per CPCB	Quarterly	
	(Ground Water &	Water and Surface Water	guideline for water quality		
	Surface Water)		monitoring –		
			MINARS/27/2007-08		
7	Effluent	Treated, Untreated	pH, SS, TDS, COD, BOD,	Monthly	
	***		Cl, Sulphates, Oil & Grease.	<b>.</b>	D 0) (0)
8	Waste	Implement waste management plan	Records of Solid Waste	Twice in a	By GMSL
	management	that Identifies and characterizes every	Generation, Treatment and	year	
		waste associated with proposed and expansion activities and which	Disposal shall be maintained		
		expansion activities and which identifies the procedures for			
		collection, handling & disposal of			
		each waste arising.			
9	Emergency	Fire protection and safety measures	On site Emergency Plan,	Twice a year	By GMSL
	Preparedness	to take care of fire and explosion	Evacuation Plan, fire	1 wice a year	by GMSE
	such as fire	hazards, to be assessed and steps	fighting mock drills		
	fighting	taken for their prevention.			
10	Health Check up	Employees and migrant labour health	All relevant health check-up	Once in a	By GMSL
	•	check ups	parameters as per factories	Year	·
			act.		
11	Green Belt	Within Industry premises as well as	Survival rate of planted		By GMSL
		nearby villages	sapling	with DFO.	
12	CER	As per activities		Six Monthly	By GMSL

# गोकुळ माऊली शुगर्भ लिमिटेड (गो.मा.शू.लि.)

मु.पो. ताङ्यळ, ता. अक्कलकोट, जि. भोलापूर, महाशष्ट्र शज्य यांच्या

अध्याच्या आखार काव्यान्याची गाळप क्षमता ४५०० टन प्रतिहिन पासून ७५०० टन प्रतिहिन पर्यंत तभेच अहपीज निर्मिती प्रकल्पाचे १४.८५ मे.वॅट पासुन ३० मे.वॅट पर्यंत विक्तावीकवण आणि ११० के.एल.पी.डी. मोलॅक्निअ/ केन ज्युभ आधावित आभवनी प्रकल्पाची विद्यमान जानेमध्ये स्थापना या प्रकल्पाणाष्ट्रतच्या अहवालाचा आवांश

## १) प्रकल्पाविषयी थोडक्यात

गोकुळ माऊली शुगर्भ लिमिटेड (गो.मा.शु.लि.), हा प्रकल्प मु.पो. ताडवळ, ता. अक्कलकोट, जि. भोलापूर. महाराष्ट्र राज्य येथे गट क. ६९, ७०, ७१, ७२, ७३, ७६/१/२, ४८८, ४९३, ४९४ मध्ये थियत आहे. प्रभ्तावित विभ्तारीकरणांतर्गत भाखर कार्यखान्याची भथ्याची ऊस गाळप क्षमता ४५०० टन.प्रतिदिन पासुन ७५०० टन.प्रतिदिन पर्यंत (३००० टन.प्रतिदिन ची वाडीव क्षमता) तर, सहवीज निर्मिती प्रकल्पाची क्षमता १४.८५ मे.वॅट पासुन ३० मे.वॅट पर्यंत (१५.१५ मे.वॅट ची वाडीव क्षमता), तभेच ११० के.एल.पी.डी. मोलॅभिभ/केन ज्युभ आधारित प्रभ्तावित आभवनी प्रकल्पाची भ्यापना प्रकल्पाच्या आवशत उभारण्यात येणार आहे.

पर्ने, पर्याणक्या व हवामान ख़ब्ल मंत्रालय, नवी ढ़िल्ली यांच्या ढ़ि.१४.०९.२००६ बोजीच्या इन्व्हायक्षमेंटल इंपॅक्ट अक्षेक्षमेंट (EIA) नोटीफिकेशन नं.S.O.1533 (E) व त्यानंत्रील ख़ब्ल [ढ़ि.१३.०६.२०१९ बोजीच्या नोटीफिकेशन नं.S.O.1960(E)] यानुक्षाक भाख्वक काक्खाना व सहवीज प्रकल्प ५ (j), 1(d) व श्रेणी 'ख' मध्ये येतो व आक्षवनी प्रकल्प (g) (i) व श्रेणी 'भ्र' मध्ये येतो. पर्वतु क्षव्कील प्रकल्प एकाच आवाबात प्रक्थापित कक्ष्यात येणाव अक्षेत्रने या एकित्रत प्रकल्प क्थापनेचा प्रक्ताव वने, पर्यावक्ष्ण व हवामान ख़ब्ल मंत्रालय, नवी ढ़िल्ली यांच्याकडे फॉर्म १ ॲप्टिकेशन जमा केला आहे व क्टॅडर्ड ToR's मंजुक झाले आहेत (०५.०६.२०२१). हा प्रक्तावित प्रकल्प बाखिताना क्षुक्षिततेचे नियम व पर्यावक्षणाचे क्षंक्षण कक्षण्याच्या क्षवी गोष्टींची ख़्ष्णक्षाक्षी घेतली जाईल.

खालील तक्त्यामध्ये गुंतवणुकीचे तपशील दिलेले आहेत.

# तक्ता १ गुंतवणुक

75	विभाग	आंडवली र	गुंतवाणुक (२१० कशेडमध्ये)		
<b>D</b>	IG AII O	अध्याची	प्रभ्तावित	एकुण	
१	भाख्यय कायखाना 'व 'सहवीज पकल्प	3 <b>0</b> 8 • 86	१४६ • ४६	४४७.५७	
२	आभवनी प्रकल्प		۷۵.0	۷0.0	
	एकुण	३ <b>०</b> १ <b>.</b> १०	२२६.४६	५२७ . ५७	

तक्ता २ कामकाजाचा कार्यकाळ

क्र	विभाग	ऑपरेशनचे दिवस (नं.)		
		हंगाम	खंद हंगाम	एकुण
१	সাত্ত্বয় কাৰ্য্যালা	१८०		१८०
२	अहवीज प्रकल्प	१८०	<b>6</b> 8 <b>0</b>	<b>३२0</b>
3	आभवनी प्रकल्प	१८०	१५०	<b>330</b>

## २) प्रकल्पाची जागा

गो.मा.शु.लि. झाबे मु. पो. ताडवळ, ता. अक्कलकोट, जि. भोलापूर महाराष्ट्र राज्य येथे ४४.४१ हे. एवडया विद्यमान जागेमध्ये विश्तारले आहे. विद्यमान जागेमध्येच भाख्यर कारखाना व भहवीज प्रकल्पाचे विश्तारीकरण तभेच आसवनी प्रकल्पाची भ्यापना प्रश्तावित आहे.

प्रभ्ताणित एकात्मिक प्रकल्पातील आख्यं काञ्चांना, जीजिंगिंती प्रकल्प आणि आञ्चांनां प्रकल्पाञ्चांने मिळवलेली एकूण जमीन भुमाने ४४.४१ हेक्ट्र आहे. यापैकी आख्यं काञ्चांना, अहंगीज प्रकल्प, आञ्चांनी प्रकल्प यांचे एकुण खांधकाम क्षेत्र ९.३३ हे. इतके आहे. प्रभ्ताणित विभ्तानीकरण प्रकल्पाञ्चांने आवश्यक अञ्चलांने ना हञ्कत प्रमाणपत्र ग्रामपंचायत ताडवळ यांच्याकडून प्रप्त झालेले आहे ज ते ई.आय.ए निपोर्टमध्ये जोडले आहे. जागेभंदर्भातील माहिती खालीलप्रमाणे आहे. जागेचा ले-आऊट प्लॅन जोडला आहे. जागेभंदर्भातील माहिती खालीलप्रमाणे आहे.

तक्ता ३ विविध विभागांच्या क्षेत्राचा तपशील (वर्ग.मी)

<u>क</u> .	तपशील	क्षेत्र (पर्ग.मी)		
		अध्याची	प्रश्तावित	एकूण
8	एकुण क्षेत्र	٧,٧٧,٤٥٥		
२	खांधकाम क्षेत्र			
	i. সাত্ত্বর কারত্ত্বালা	१५,६२७ . 0	१६,५८०.०	३२,२०७.0
	ii. अहवीज प्रकल्प	<b>७,८८0 . 0</b>	२,३७७ <b>. ०</b>	१०,२५७ . ०
	iii. आञ्चवनी प्रकल्प		४,६ <b>०० . ०</b>	४,६ <b>०० . ०</b>
	iv. यञ्ता क्षेत्र	२८,७२५ . 0		२८,७२५ . 0
	v. कॉलनी क्षेत्र	९,१८ <b>०.०</b>	۷,800.0	१७,५८०.०
	एकूण	६१,४१२ . 0	<b>३१,९५७ . 0</b>	९३,३६९.0
3	हिवत पट्टा	१५, <b>००० . ०</b>	१,३१,५५३ <b>. ०</b>	१,४६,५५३.0
8	एकुण खुले क्षेत्र	३,६७,६८८ . 0	-	२, <b>०</b> ४,१७८ . <b>०</b>

# ३) प्रकल्प प्रवर्तकांची ओळख

गो.मा.शु.लि. च्या प्रवर्तकांना भाखाय कायखाना - भहवीज प्रकल्प त्येच आभवनी प्रकल्प क्षेत्रामधील चांगला अनुभव आहे. प्रकल्प प्रवर्तकांनी भंपूर्ण प्रकल्प नियोजन त्येच अंमलबजावणी योजनेचा भखोल अभ्याभ केला आहे. प्रकल्प प्रवर्तकांचे नाव आणि हुद्दा खालीलप्रमाणे -

# तक्ता ४ प्रवर्तकांचे नाव व हुइ।

अनु. क्र.	प्रवर्तकाचे नाव	हुद्धा
₹•	भी.ए. व्यंकट्राव. पी. पाटील	अध्यक्ष
₹.	भौ. चंढ़कला. एही. पाटील	<i>बिग्दर्श</i> क
₹•	न्त्री. धिवज. जी. शिंदे	ण्यवश्थापकीय अंचालक
٧.	न्थ्री. आशिष. <i>प</i> ही. पाटील	<i>ভি ব ভ</i> র্থাক

# ४) उत्पाढ्नां विषयी माहिती

गो. मा. शु. लि. यांच्या अध्याच्या प्रकल्पामधून आणि प्रश्तावित प्रकल्पामधून तयार होणारी उत्पादने व त्यांचे परिमाण खालीलप्रमाणे आहे.

तक्ता ५ भाव्यव कावव्याना, भहवीन आणि आभवनी प्रकल्पांची उत्पादने

		क्षमता			
प्रकल्प	उत्पादने व	अध्याची	प्रभ्तावित	एकूण	
Janea	उपउत्पादनांची नावे	गाळप क्षमता	गाळप क्षमता	गाळप क्षमता	
		(४५०० ਟਿ. ਜੀ. ਤੀ)	(३००० टਿ. ਜੀ. ਤੀ)	(७५00 ਟਿ. ਜੀ. ਤੀ)	
	সাত্ত্বর (ংং%)*	४९५ मे.टन/दिन	३३० मे.टन/दिन	८२५ मे.टन/दिन	
	<b>उपउत्पा</b> ढ्ने				
<u> </u>	<b>অ</b> गॅभ (३०%)*	₹३५० ਸੇ.ਟਗ∕ਫ਼ਗਿ	९०० मे.टन/दिन	२२५० मे.टन/दिन	
काञ्खाना	<u>ਪ੍ਰ</u> ੇਕਸ਼ਣ (४%)*	१८० मे.टन/दिन	१२० मे.टन/दिन	३०० मे.टन/दिन	
	मोलॅभिभ (४%)*	१८० मे.टन/दिन	१२० मे.टन/दिन	३०० मे.टन/दिन	
अहवीज	<i>पी</i> ज	१४.८५ मे. ऍंट / ताञ्च	१५.१५ मे. ऍट / ताञ्ज	३० मे. ऍट ∕ ताञ	
	वेक्टीफाइड विपविट		११० कि.ली./ढ्नि	११० कि.ली./ढ़िन	
	(आर्र. एस्र. ) / एक्स्ट्रा				
	न्युट्रल अल्कोहोल				
आभवनी	(ਙ.एਗ.ए.)				
	<b>उप</b> उत्पाढ्ने				
	प्युजल ऑईल		७ मे.टन/दिन	७ मे.टन/दिन	
	कार्षन डायऑक्साईड		९१ मे.टन/दिन	९१ मे.टन/दिन	

टिप : \* उभ गाळपाच्या टक्केपाशीत

भाख्य कार्यखाना, भहणीज प्रकल्प त्रभेच आभणनी भंदर्भातील उत्पादन प्रक्रिया आणि प्रणाहतक्ता (फ्लो चार्ट) ई.आय. ए. रिपोर्ट मध्ये प्रकर्ण -२ येथे जोडलेला आहे.

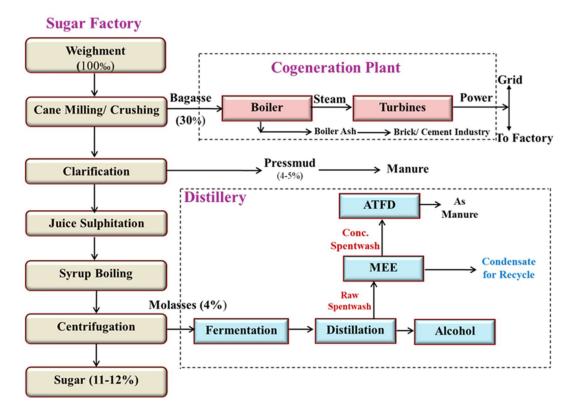
# ६) प्रकल्पाचे उद्दिष्ट

- भाख्य उद्योग हा देशातील दुभया भर्णात मोठा शोती आधायित उद्योग आहे.
- आख्वय उद्योग हा योजगाय निर्मिती, उत्पन्न निर्मिती आणि कार्यक्षेत्रामध्ये पायाभुत घटक तयाय कवण्याभाठी महत्यपूर्ण आहे.
- अल्कोहोलयुक्त पेयांच्या उत्पादनां भाठी ऊभ्रवस, मोलॅभिस, कडधान्ये व इतव कृषी उत्पादने आभवनी उदयोग वापवतो. जगभव वापवल्या जाणा-या फर्ममेंटेड व डिक्टीलंड पेयांचे उत्पादन स्थानिक उत्पादित व उत्तम वाताववणीय पिविस्थितीत वाढलेल्या कच्या मालांवव आधावित आहे. इथिल अल्कोहोल हे फर्ममेंटींग मोलॅभिस पासून तयाव केले जाते. मोलॅभिस हे साखव कावखान्यामधुन मिळते.

- अल्कोहोल उद्योगाची देशाच्या अर्थज्यवन्थेमधे महत्वाची जागा आहे. अल्कोहोल हे खुप यभायनांमध्ये कच्चा माल म्हणुन वापयले जाते. त्याषयोषयच या व्यवभायामुळे अयकायला मोठया प्रमाणात अषकायी कय व्युल होतो.
- पेट्रोलखरोखर अल्कोहोलचे ख्लेंडींग केलेस पॉयर अल्कोहोल यास्यक्षपात अल्कोहोल मध्ये इंधन म्हणून क्षमता आहे.
- तक्षेच जपान, यु.एक.ए., कॅनडा, श्रीलंका, इ. देशांमध्ये पेट्रोलियम कुड पासुनच्या नॅप्थापासुनचे िक्षंथेटिक अल्कोहोल ख्रिण्हवेजीक्स्वाठी उपयुक्त नक्षलेने या देशांमधे फव्मेंटेड अल्कोहोलला खुप मोठ्या प्रमाणामध्ये मागणी आहे.

## ५) उत्पाढ्न प्रक्रिया

आकृती १ उत्पाद्न प्रक्रिया



# ६) पर्यापरणपिषयक दृष्टिकोन

गो.मा.शु.लि. यांनी अत्यंत प्रभावी व पिर्वणामकारक अशी पर्यावरण व्यवस्थापन योजना (EMP) राषविणेचे नियोजन केले आहे.त्यातील विविध घटक खालीलप्रमाणे आहेत.

# • पाण्याचा वापन्न, भांडपाण्याची निर्मिती व त्याची प्रक्रिया

#### अ) पाण्याचा वापञ

गो.मा.शु.लि. यांच्या अध्याच्या व प्रभ्तावित प्रकल्पामध्ये होणा-या पाण्याच्या वापनाविषयी भविभ्तन्न तपशील खालीलप्रमाणे -

तक्ता ६ भार्ख्य काय्रेखांना व भहवीज प्रकल्पांभाठी पाण्याचा वापय

		पाण्याचा पाप्य (घन मी./ਫ਼ਿਰ)			
	_	সাজ্জম ব	<u> </u>		
<u>o</u> .	तपशील	भध्याचा प्रकल्प	एकूण		
		(४८०० मे.टन/दिन)	विश्ताशिकश्णानंतर		
			(७५ <b>०</b> 0 ਜੇ.ਟਰ/ਫ਼ਿਗ)		
٤.	घञ्गुती	<b>૨૦(</b> ५ <sup>#</sup> +१५ <sup>Ω</sup> )	<b>λ0</b> (δ0 <sub>#</sub> +30 <sub>0</sub> )		
₹.	औद्योगिक				
a.	प्रोक्षेक	१३४७ <b>*</b>	२२ <b>००</b> *		
b.	कुलिंग व खॉयल२ मेकञ्जप	२२५*	<b>४५</b> 0 <sup>*</sup>		
C.	ടി.एम.ख്നശ്ജ	<u></u> 8५#	९0 <sup>#</sup>		
d.	लॅख व वॉशिंग	<b>4</b> *	۲*		
e.	ञ्जॅथा क्लेंचिंग	۶*	<b>3</b> *		
	औद्योगिकवापञ	<b>१६२४ (</b> १५७९*+४५ <sup>#</sup> )	<b>२७५१ (</b> २६६१*+९0 <sup>#</sup> )		
	(a+b+c+d+e+f)	<b>? ६ २ 8</b> ( १ ५ ७ ९ + 8 ५ ")	<b>१७५१ (</b> २६६१ <b>+</b> ९0°)		
₹•	षाग + हिवतपद्या	९ <b>0</b> *	હ <b>५</b> 0*		
	एकूण(१+२+३)	<b>१७३४ (</b> १६६९*+१५ <sup>Ω</sup> +५0 <sup>#</sup> )	<b>३५४१ (</b> ३४११*+३0 <sup>0</sup> +१00#)		
	ताज्या पाण्याचा वापञ्				
(	प्रमाण १०० लि.∕मे.टन	≀੩ ਕਿ./ਸੇ.ਟਗ	१२ लि.∕ਸੇ.ਟਗ		
	ऊञ्गगाळप)				

**टीप**ः  $^\#$ ன்ஜு  $_{\alpha}$   $_{\alpha$ 

## तक्ता ७ मोलॅभिभ आभवनी प्रकल्पाभाठी पाण्याचा वापभ

		पाण्याची ग	<b>ਕ੍ਯ (ਬ</b> ਗਸੀਟਕ/ਫ਼ਿਗ)
<u> </u>	तपशील	ऊभ गळित हंगाम	विना ऊभ गळित
		<i>ब्</i> यम्यान	हंगाम
۶.	ਬਕਗੁਰੀ	<b>3</b> #	₹#
२.	<u> </u>		
	l. प्रोक्षेक	८७३⁴	∠৬३ <sup>♣</sup>
	II. कुलिंग	<b>₹00</b> *	₹ <b>00</b> #
	III. लॅख व वॉिक्शंग	<b>Ę</b> *	<b>ξ</b> #
	The state of the s	९७९	९७९
	एकूण श्रोद्योगिक जापञ्	(१ <b>०</b> ६*+ ८७३ <sup>+</sup> )	(१0६ <sup>#</sup> + ८७३ <sup>♠</sup> )
		९८२	९८२
	एकूण	(३ <sup>#</sup> +१0६*+ ८७३ <sup>♠</sup> )	(१०९ <sup>#</sup> +८७३ <sup>♠</sup> )
	पुनर्वापञ् (%)	<b>₹00</b>	९९
	ताज्या पाण्याचा वापञ		
	(प्रमाण १० कि. लि.∕ कि.	o कि. लि.	१ कि. लि.
	लि. अल्कोहोल)		

**टीप**ः  $^{\#}$ षोञ्जर्वेलमधुन,  $^{*}$ ङभामधील कंडेनभेट,  $^{rac{1}{2}}$ भी.पी.यु मधील प्रक्रियीत केलेले पाणी

तक्ता ८ केन ज्यूभ आभवनी प्रकल्पाभाठी पाण्याचा वापभ

页.	तपशील	पाण्याची गञ्ज (घनमीट्य/व्नि)
۶.	ਬਕਗੁਰੀ	<b>π</b> #
२.	औद्योगिक	
	l. कुलिंग	<b>₹00</b> *
	II. लॅख व वॉशिंग	ξ <b>*</b>
	एकूण औद्योगिक जापञ	१ <b>०</b> ६*
	एकूण	१०९ (३ #+१०६*)
	ताज्या पाण्याचा खापन (प्रमाण १० कि. लि./ कि. लि. अल्कोहोल)	0 कि. लि.

**टीपः** <sup>#</sup>षोञ्जयवेलमधुन, \*ऊभामधील कंडेनभेट

#### **ख.** भांडपाणी प्रकिया

### १. घरमूती आंडपाणी

गो.मा.शु.लि. प्रकल्पामधील आख्वय कायखाना आणि सहणीज प्रकल्पामधुन १५ घन मीट्य प्रति दिन आंडपाणी तयाय होईल जे अंप्टीक टॅक नंतय ओकपीट मध्ये प्रक्रियीत केले जाईल. विश्वायीकयणानंतय प्रकल्पामधुन एकुण ३३ घन मीट्य प्रति दिन (आख्य कायखाना व सहणीज प्रकल्पामधून ३१ घन मीट्य प्रति दिन आणि आभवनी प्रकल्पामधुन २ घन मीट्य प्रति दिन) इतके आंडपाणी तयाय होईल. हे आंडपाणी ४० घनमीट्य/दिन घयगुती आंडपाणी प्रक्रिया प्रकल्पामध्ये (एभ.टी.पी.) मध्ये पाठवले जाईल. प्रक्रिया केलेले आंडपाणी श्वायतःच्या प्रविभावति खानेआठी व हियतपहा विकाभाभाठी वापयले जाईल.

#### २. श्रोद्योगिक आंडपाणी

भाखन कान्नखाना व भहवीज प्रकल्प विभ्तानीकन्गातुन ६०४ घन मी. प्रतिदिन इतके भांडपाणी तयान होईल. हे भांडपाणी भाखन कान्नखान्याच्या भध्याच्या भ्रोद्योगिक भांडपाणी प्रक्रिया प्रकल्पामध्ये (ई.टी.पी.) मध्ये पाठवले जाईल. प्रक्रिया केलेले भांडपाणी भ्यतःच्या पिन्नभातील खानेभाठी व हिन्तपद्या विकाभाभाठी वापनले जाईल.

प्रक्ताणित मोलॅभिभणिय आधावित आभणिनी प्रकल्पांतर्गत एकुण ८८० घन.मी.प्रतिदिन इतका वॉ न्येंटवॉश तयाव होईल. न्येंटवॉश एम.ई.ई. मध्ये इक्हॅपोवेट व कॉन्भनट्रेट केला जाईल. कॉन्भनट्रेटेड न्येंटवॉश १९२ घन.मी.प्रतिदिन ड्राय कन्न पावड्य केला जाईल. ही पावड्य खत म्हणून वापवली जाते. केन ज्युभवय आधावित आभणनी प्रकल्पाभाठी देखील हीच प्रक्रिया वापवली जाईल. (वॉ न्येंटवॉश - ४४० घन.मी.प्रतिदिन व कॉन्भनट्रेटेड न्येंटवॉश - ९६ घन.मी.प्रतिदिन)

प्रक्तायित आस्यानी प्रकल्पांतर्गत तयात्र होणात्रे सांडपाणी हे क्येंटलीक्स, एम.ई.ई. मधील कंडेनकेट, खाँयलव ख्लो डाऊन, कुलिंग ख्लो डाऊन आणि लॅख, याँथिंग / एफ.ओ.बी.लीक्स, पी.आव.बी.लीक्स, सी.लीक्स- ९८२ घन.मी.प्रतिबिन (मोलॅक्सिक्यव आधावित), ४८२ घन.मी.प्रतिबिन (केन ज्युक्यव आधावित) मधील सांडपाणी अकेल.

भर्व भांडपाणी प्रभ्तावित कंडेनभेट पॉलिशिंग युनिटमध्ये प्रक्रियीत केले जाईल. प्रक्रियीत भांडपाणी हे डायल्युशन व कुलिंग टॉवर मेकअपभाठी वापरले जाईल.

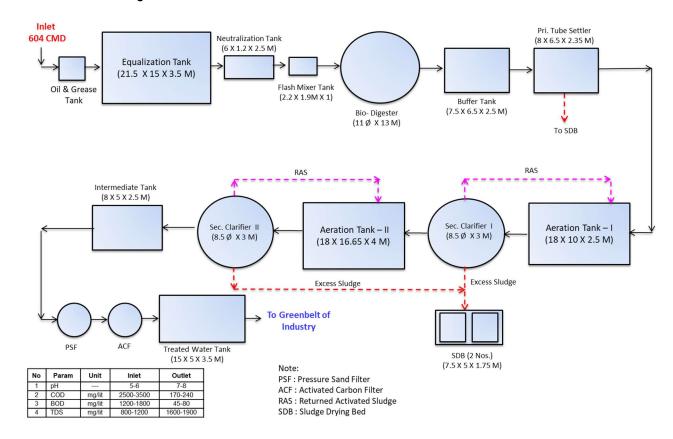
तक्ता ९ भाख्वय कायखाना व भहवीज प्रकल्पामधुन तयाय होणाये आंडपाणी

		आंडपाणी (घ	ान. मी./हिन)	
<b>5</b> 5.	तपशील	अध्याचा प्रकल्प	एकूण	प्रक्रिया
		(४५ <b>००</b>	विभ्तारीकर्यानंतर	<i></i>
		मे.टन/दिन)	(७५०० मे.टन/दिन)	
				प्रभ्तावित
१.	घवगुती	१५	38	एभ. टी. पी. मध्ये
				प्रक्रिया
₹.	औद्योगिक			
a.	प्रोक्षेक्ष	२४५	860	
b.	कुलिंग य षॉयलञ	४८	९६	काञ्चान्याच्या 'अध्याच्या
C.	डी.एम.खॅकवॉश	४५	۹0	इं.टी.पी. मध्ये
d.	लॅख / गॉिशंग	ч	۷	प्रकिया
e.	थ्रॅश क्लेंचिंग	-		yı yı
	औदयोगिक एकूण	३४३	₹0४	
	आंडपाणी प्रमाण: १००	७६	८१	
	लि./मे.टन गाळप	ુ <del>વ</del>	υ (	

तक्ता १० आभवनी प्रकल्पाचे आंडपाणी

क्र.	तपशील	आंडपाणी घन	मी. प्रतिदिन	प्रक्रिया
		मोलॅभिभ आभवनी	केन ज्युभ आभवनी	
۶.	ਬਕਗੁਰੀ	7	7	प्रभ्तायित घञ्गुती आंडपाणी प्रक्रिया प्रकल्पामध्ये (एञ्.टी.पी.) प्रक्रियीत केले जाईल
₹.	औद्योगिक			
	प्रोक्षेक्ष	कॉ क्पेंटॉब्स- ८८० कॉन्का. क्पेंटॉब्स- १९२ कंडेनिकेट - ८१२ (६८८ MEE + १२४ ATFD) क्पेंट लीका - १५४	ਕਾੱ ਕਾਰੇਂਟਗੱജा- ४४० कॉन्स. ਕਾਰੇਂਟਗੱജा- ९६ कंडेनिसेट - ३९४ (३४४ MEE+५० ATFD) ਕਾਰੇਂਟ लीस - ७२	बॉ क्येंटवॉश एम.ई.ई.मध्ये इफ्हॅपोवेट व कॉन्सनट्रेट केला जाईल. कॉन्सनट्रेटेड क्येंटवॉश ड्राय कक्नन पायड्य केला जाईल केला जाईल. क्यें भांडपाणी कंडेन्नेट पॉलिशिंग युनिटमध्ये प्रक्रियीत केले जाईल.
	कुलिंग ख्लोडाऊन	<b>\{0</b>	<b>\{0</b>	
	लॅख गॉिशंग	Ę	Ę	
	डि.एम.खॅकवॉश			
	एकुण	कॉन्भ.	कॉन्भ. २पेंटवॉश -	
		क्वेंटवॉश - १९२	९६	
		इतव आंडपाणी-९८२	इतव आंडपाणी- ४८२	

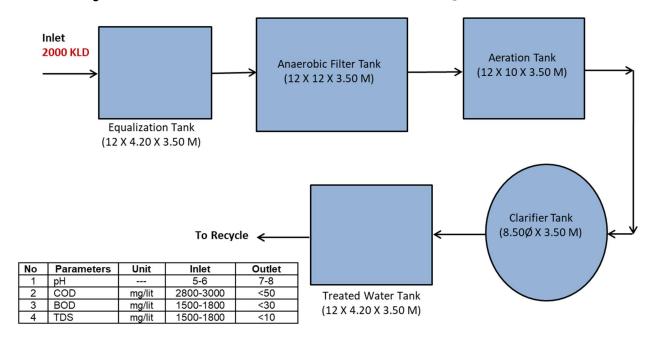
# आकृती २ भाव्यय कावव्यातील ई.टी.पी. चा फ्लो चार्ट



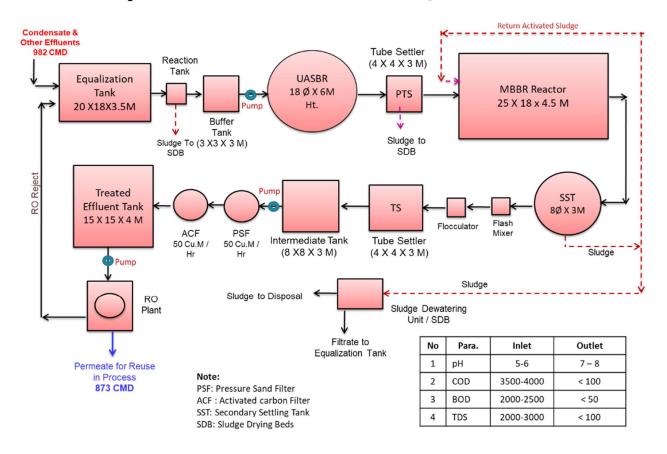
आकृती क. ३ भाखव कावखान्यातील ई.टी.पी.



# आकृती ४ भाव्यय कायव्यातील प्रक्तावित भी. पी.यु. चा फ्लो चार्ट



## आकृती ५ आञ्चानी मधील प्रश्तावित भी.पी.यु. चा प्रलो चार्ट



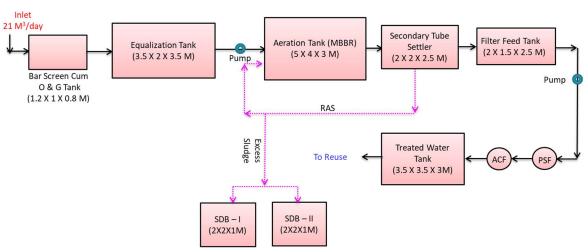
आकृती ६ भाखव कावखान्यातील भी.पी.यु.



# आकृती ७ फ्लो मीट२ व ऑनलाईन मॉनिटर्शेंग भिश्टीम



आकृती ८ प्रक्तावित एक्.टी.पी. चा क्लो चार्ट

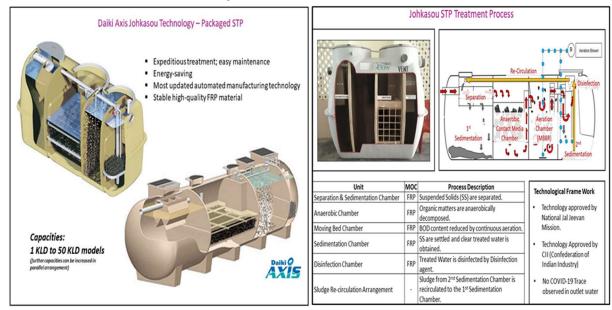


No	Parameters	Unit	Inlet	Outlet
1.	рН		6.5 – 7.5	7.2 – 7.5
2.	COD	mg/lit	500 - 600	< 30
3.	BOD	mg/lit	250 - 300	< 10
4.	TSS	mg/lit	250 - 400	< 5
5.	O & G	mg/lit	25 - 30	< 10

Note:

•PSF : Pressure Sand Filter
•ACF : Activated Carbon Filter
•RAS : Return Activated Sludge
•SDB : Sludge Drying Bed

## आकृती ९ एभ्.टी.पी. प्रक्रिया



## वायु उत्र्भजने

गो.मा.शु.लि मध्ये अध्या १०० टन प्रति ताभ क्षमतेचा एक खाँयलव आणि ६०० के.एही.ए. क्षमतेचे ३ डी.जी. भेट कार्यवत आहेत. या खाँयलवला ई.एभ.पी. हे प्रदूषण नियंत्रक उपकवण खभयले आहे. प्रदूषण नियंत्रण कवण्याभाठी १०० टन प्रति ताभ क्षमतेच्या खाँयलवला ८५ मी. उंचीची चिमणी खभयली आहे. विभ्तावीकवणांतर्गत १०० टन प्रति ताभ क्षमतेचा नवीन खाँयलव खभविला जाईल व या खाँयलवला ई.एभ.पी. हे प्रदूषण नियंत्रक उपकवण खभवले जाईल. डी.जी. भेट चा वापव फक्त वीज पुववठा खंडीत झाल्यानंतव केला जाईल.

आभवनी प्रकल्पाभाठी लागणाशि वाफ ही भहवीज प्रकल्पातील प्रभ्तावित १०० टन बॉयलञ्मधून घेतली जाईल.

हवा प्रदूषण व त्या अंखंधीच्या इतव षाषींची माहीती खालील तक्त्यात दिली आहे.

तक्ता ११ खाँयलञ्चा तपशील

₫n.	तपशील	<b>শ</b>	ध्याचे	विक्ताशिकवणानंतव
8	जोडले आहे-	ष्रॉयलञ् १	<b>ਡੀ.</b> ਗੀ. <b>ਐ</b> ਟ	षायलव २
२	क्षमता	१०० टन/ताभ	६०० के. एही.	₹00 ਟਗ∕ਗ≆
			ਦ.	
			- ३ স্বাৰ্ক্তযা	
3	इंधनाचा प्रकाव	স্থানা	HSD	खगॅञ
8	इंधन (मे.टन/दिन)	१0५६	१८० लि. प्रतिताञ्च	१0५६
ч	षांधणी भाठी वापवलेले	आव. भी. भी	ਦੁਸ. ਦੁ੨ਮ.	थ्राव. भी. भी
	मटेवीयल			
६	आकार (गोल/चौरस)	गोल	गोल	गोल
9	उंची, मी (जमीनीच्या	८५ मी	५ मी	८५ मी
	অহ)			
۷	चिमणीला अभलेले	ੜਿੰ. ਦੁਆ. ਧੀ.	'भायलें नभव 'प	ई. एभ. पी.
	प्रदूषण नियंत्रणाचे		अकॉिक्टक	
	उपकरण		इनक्लोजव	

## आकृती १० अध्याचे प्रदूषण नियंत्रक उपकवण







## ड. ध्वानी प्रदुषण

## १. ध्वानी निर्माण कवणावे क्त्रोत

- अध्याच्या व प्रक्तावित प्रकल्पांमध्ये खुप जाक्त आवाज निर्माण कर्यादे क्त्रोत असणाद नाहीत. डी.जी.केट हा ध्वनी प्रढुषणाचा एक क्त्रोत ठक् शकतो पण सद्दील डी.जी.केट फक्त नेहमीचा वीजपुरवठा खंडित असताना कार्यदत राहील. डी. जी. केट असणा-या विभागातील ध्वनीची पातळी ७२ डी खी (ए) इतकी अपेक्षीत आहे. या विभागात जक्त्री ध्वनी नियंत्रण साधने जसे कि सायलेंन्स्र खस्विण्यात येतील. तसेच
- षॉयल्य, फर्मन्टेशन भेक्शन व डिस्टीलेशन भेक्शन हे इत्य थोड्या प्रमाणात आवाज निर्माण क्यणाये भ्योत अभतील येथील ध्वनीची पातळी ७० ते ८० डी खी (ए) द्यम्यान अपेक्षीत आहे.
- पंट्स, कॉप्रेसर्स, खॉयल्य हाऊस, टर्खाइन, ट्रक पाहतूक इत्यादी.
- काञ्चान्या भभोवती टप्प्याटप्याने विकिभित केला जाणाञ्च पुरेभा वाहीव हिवत
   पष्टा यामुळे आवाज पातळीत घट होईल.

#### २. नियंत्रण उपाय

ध्वनी नियंत्रणाभाठी आयभोलेशन, भेपमेशन आणि इन्भ्युलेशन तंत्रे वापमली जातील. इअम्मप्स, ई. भ्यम्पात कामगामांना पी. पी. ई (PPE) पुम्वण्यात येतील. तभेच ध्वनीची पातळी कमी कमण्याभाठी डी. जी. भेट भ्यतंत्र कॅनॉपी मध्ये खंढ़ीक्त कमण्यात येईल.

#### इ. घातक क्यक्पाचा कचरा

तक्ता १२ घातक भ्यम्भपाचा कच्या तपशील

<b>*</b>	प्रकल्प	<b>*</b> 700 740	प्रकार (मे.टन /वर्ष)		विल्हेवाट पद्धत
<u>क</u> .		कच-याचा प्रकाञ	अध्याचा	विश्ताबीकवणानंतव	ାରଙ୍କରାତ ଦୱର
۶.	সাত্ত্বস কাৰ্যত্ত্বালা,	५.१ व्येंट ऑईल	0.9	8	आधिकृत पुनर्विकेता
	आभवनी व भहवीज	३३.३ कंटामिनेटेड	0.7	0.4	आधिकृत पुनर्विकेता
		ਗॉਟਗ ਯੇ੨ਟ			-
		३३.१ एम्टी कंटेनब	<b>30</b>	४५	आधिकृत पुनर्विकेता

#### फ. घन क्यक्पाचा कचरा

#### तक्ता १३ घन भ्याभूषपाच्या कच-याचा तपशील

<u></u> क्र.	प्रकल्प	कच-याचा	पविमाप	ग (मे.टन /दिन)	विल्हेवाट पद्धत	
		प्रकाब	अध्याचा	विश्तारीकश्णानंतर	1912,9110 4441	
۶.	সাত্ত্বয	ई.टी.पी. क्लज	0.4	٥.۷	खत म्हणून वापवले जाईल	
	काञ्खाना व				• •	
	अहवीज प्रकल्प	खाँयलञ्ची ञाळा	२१	४२	'पीट निर्मिती <u>भा</u> ठी / खत म्हणून	
		(অঠান)			वापव	
₹.	आभवनी प्रकल्प	यीक्ट क्लज	-	₹0	जन जनसम्बद्धाः सार्वाचे नाहित	
		भी.पी.यु. क्लज	1	R	खत म्हणून वापवले जाईल	

#### ख. वाभाचा उपद्रव

अध्याच्या प्रकल्पांतर्गत पाईप लाईन्भ, भांडपाणी भाठवणूक, खन्नाम मील भॅनिटेशन आणि दुर्लिक्षत ड्रेन्भ इ. वाभाच्या उपद्ववाचे भ्रोत अभतील. भध्याची पद्धत जभे की नीटनेटके हाऊभ किपींग, ई.टी.पी. युनिट मधील मैला व्यवभ्यापन, ड्रेन्भभाठी छिलचींग पावडन्चा वापन हे विभ्तानिकन्नणांतर्गत पाळली जाईल.

#### भ्र. नियम व अटींचे पालन

अध्याच्या प्रकल्पाञ्चंतर्गत महाबाष्ट्र प्रढुषण नियंत्रण मंडळ (MPCB) किंवा तत्थ्रम अंश्थेमार्फत आंडपाणी प्रक्रिया व विल्हेवाट, घातक श्वाश्वपाचा कच्या व घन कच्या हाताळणी व विल्हेवाट तथेच वायु उत्भवंने इ. अंखंधित घालुन देण्यात आलेल्या अर्व कायद्यांचे व नियमांचे काटेकोश्वपणे पालन केले जाते. अद्य कार्यपद्धती प्रश्तावित विश्ताशिकश्ण प्रकल्पांतर्गतही पाळली जाईल.

#### म. पर्यावञ्चा व्यवश्यापन विभाग

गो.मा.शु.लि मध्ये पर्याववण व्यवस्थापन विभाग कार्यवत आहे. या विभागातील अर्ज अरूक्य उच्चिशिक्षित आणि संखंधीत क्षेत्रातील योग्य तो अनुभव असलेले आहेत. अध्याच्या व प्रक्तावित पर्याववण व्यवस्थापन विभागामधील सक्थ्य खालीलप्रमाणे —

तक्ता १४ पर्यावरूण व्यवस्थापन विभाग

gn.	पढ्	एकूण अंब्ब्या
8	`अंचालक	8
२	पर्यापञ्जीय अधिकारी	8
3	'सुबक्षा अधिकाबी	8
8	मुख्य च्यायनतज्ञ	8
ч	पर्यापञ्जीय यभायनतज्ञ	8
Ę	प्रयोगशाळा यभायनतज्ञ	3
10	ई.टी.पी व भी.पी.यु. ऑपवेटव व	٧
9	`अहाय्यक	

अध्याच्या व प्रभ्तावित विभ्ताशिकश्ण प्रकल्पांमधील पर्यावश्ण घटकांभाठी व त्यांच्या देखभालीभाठी लागणा-या खर्चाचा तपशील खालील प्रमाणे:-

तक्ता १५ देखभाली भाठीच्या खर्चाचा तपशील

	तपशील	ন্তার্च (মৃত্	कशेडमध्ये)
<u>क</u> .		आंडवली	वार्षिक देखभाल
		गूंतवणूक	य ढुक्वन्ती
	भध्याच्या प्रकल्पाभाठी		
₹•	हवा प्रदुषण नियंत्रणाञ्चाठी खाँयलवला ई.एञ्च.पी. ञाठी लागणावा खर्च व ८५मी. उंचीची चिमणी	३५ <b>०.</b> 0	٧٥.0
२.	भांडपाणी प्रक्रिया भुविधा भध्याच्या भाखव कावखाना व भहवीन प्रकल्पाभाठी	300.0	30.0
₹.	ध्यनी प्रदुषण नियंत्रणाञ्चाठी लागणाञ्चा खर्च	२५.0	٧.0
٧.	घनकचर्या प्यवश्यापनाभाठी	70.0	₹.0
ч.	एन्फ्हायञ्मेंटल मॉनिट्शेंग व मॅनेजमेंट	30.0	٧.0
٤.	ट्यवनायविषयक आयोग्य व सुयक्षीतता.	२५.0	٧.0
٥.	हिवत पद्टा विकाभाभाठी	₹0.0	₹.0
	एकुण	६७0.0	<b>00.0</b>
	विश्ताशिकरण व प्रश्तावित प्रकल्पाञाठी		
۶.	हवा प्रदुषण नियंत्रणाभाठी १ खॉयलवना ई.एभ.पी. भाठी लागणावा खर्च व ८५मी. उंचीची चिमणी, OCMS	¥ <b>00.0</b>	40.0
२.	आंडपाणी प्रकिया भुविधा - MEE, ATFD, CPU, STP इ.	400.0	ξ <b>0.0</b>
₹.	ध्यनी प्रद्रुषण नियंत्रणाञ्चाठी लागणाञ्चा खर्च	રૂપ . 0	₹ <b>0.</b> 0
٧.	घनकचरा ज्यवश्यापनाभाठी	30.0	٧.0
ч.	ट्यवभायविषयक आयोग्य व भुयक्षीतता.	<b>રૂ</b> પ . 0	٧.0
٤.	एनःहाय्यमेंटल मॉनिटर्शिंग ७ मॅनेजमेंट	80.0	₹0.0
٥.	हिबत पद्टा विकासासाठी व बेन वॉटब हार्वे बिटंगसाठी लागणाबा खर्च	२३५ . 0	٧٥.0
	एकुण	१२७५ <b>. 0</b>	१९0.0

## य) बेनवॉटब हार्वेबिटंग शंकल्पना

- प्रकल्पाचे एकुण क्षेत्र ४,४४,१०० पार्ग मी.
- एकुण विकामे क्षेत्र २,०४,१७८ पार्ग मी.
- अवाअवी पार्षिक पाऊअ ६०० मिमी.

## कफटॉप हार्वेकिटंग

- क्यटॉप हार्वेक्टिंग क्षेत्र २९,४९२ वर्ग मी.
- कपटॉप हार्येक्टिंग मधून मिळणावे पाणी १४,१५६.१ घन मी.

#### अविकेश हार्विविटंग

- अञ्चलेश हार्वेविन्टंग क्षेत्र ३,७९,४५६ पार्ग मी.
- अञ्चे हार्वेक्टिंग मधून मिळणावे पाणी ७१,७५० घन मी.

क्यटॉप हार्वेक्टिंग आणी अवफेस हार्वेक्टिंग मधून उपल्खिध होणावे पाणी - १४,१५६.१ + ७१,७५0 = ८५,९0६ घन मी. म्हणजेच ८५ दृशालक्ष लिटर्स (ML)

## य) हिवत पट्टा माहिती

तक्ता १६ क्षेत्रफळाची माहिती

	तपशील	क्षेत्र (पर्गःमी)			
<u>क</u> .		अध्याची	प्रश्तावित	एकूण	
8	एकुण क्षेत्र			४,४४,१ <b>००</b>	
२	खांधकाम क्षेत्र				
	i. সাৰ্ম্ম কাৰ্ম্বালা	१५,६२७ . 0	१६,५८०.०	३२,२०७ . ०	
	ii. अहवीज प्रकल्प	७ <b>,८८<b>0</b> . 0</b>	२,३७७ <b>. ०</b>	१०,२५७ . ०	
	iii. आञ्चायानी प्रकल्प		४,६ <b>०० . ०</b>	٧,६ <b>00 . 0</b>	
	iv. चञ्ता क्षेत्र	२८,७२५ . 0		२८,७२५ . 0	
	v. कॉलनी क्षेत्र	९,१८ <b>०.</b> 0	۷,800.0	१७,५८०.०	
	एकूण	६१,४१२ . 0	३१,९५७ . 0	९३,३६९.0	
३	हबित पट्टा	શ્પ <b>,૦૦૦</b> . ૦	१ <b>,३१,</b> ५५३ <b>.</b> 0	१,४६,५५३.0	
8	एकुण खुले क्षेत्र	३,६७,६८८ . ०		२, <b>०</b> ४,१७८ <b>. ०</b>	

हिन्नत पहा विकिन्नित कन्नण्याभाठी  $SPM,\ SO_2$  चे उत्भर्जन या षाषी प्रामुख्याने विचान्नात घेतल्या जातील.  $SPM,\ SO_2$  यांच्या उत्भर्जनांमुळे होणाने पिन्नणाम कमी कन्नण्याभ उपयुक्त थ्राभा हिन्नित पहा विकाभ कार्यक्रम न्नाष्ठिला जाईल. तभेच नियोजित हिन्नित पह्यातील झाडांमुळे इंडभ्ट्रीमध्ये तयान होणा-या ध्वानीची तीव्रता कमी होऊन पिन्नम्नत होणाने ध्वानी प्रदुषण कमी होणेभ मद्दत होईल. यानुभान  $SO_2$  थ्राणि ध्वानी प्रदुषण नियंत्रण इ. षाषी लक्षात घेऊन प्रभ्तावित हिन्नित पहा विकाभ कार्यक्रमाञ्चंतर्गत विविध जातीच्या झाडांची लागवड केली जाईल.

आकृती ११ अध्याचा हिवत पट्टा



## ल) भामाजिक व आर्थिक विकास

भामाजिक य आर्थिक विकास अंतर्गत प्रकल्पास केंद्रस्थानी मानुन १० कि. मी. पर्रीघ क्षेत्रामधील गावांचे सर्वेक्षण केले गेले. या अंतर्गत वैयक्तिकिरया लोकांच्या मुलाब्बती मराठी प्रश्नावलीद्वारे घेण्यात आल्या. अधिक माहीतीसाठी EIA रिपोर्ट मधील प्रकर्ण — ३ भामाजिक य आर्थिक विकास मुद्दा पहा. भामाजिक य आर्थिक विकास अभ्यासामधील निर्शिक्षण आणि निष्कर्ष पुढील प्रमाणे

- अभ्याभ क्षेत्रातील खहुतांथा गाणांमध्ये मुलभूत सुविधा जभे की; पिण्याचे पाणी, प्राथमिक थ्रिक्षण सुविधा, श्रीचालये, जीज, चांगली जाहतुक सुविधा ज समाधानकायक श्रेक्षणिक सुविधा उपलब्ध आहेत.
- अभ्याभ क्षेत्रातील खहुतांश लोकभंख्या चांगली कमाई अभलेली आहे याचे मुख्य काञ्ण ऊभ शेती आहे.
- काञ्चान्याङ्गाञ्चे न्थानिक लोकांना प्रत्यक्ष आणि अप्रत्यक्षपणे न्नोजगाञ्च पुत्रियला जातो.
- षहुतांशा गावांमध्ये जलिन्निः भायण सुविधेचा अभाव, खुली गटावे तसेच विखुयलेला घन कच्या व आयोग्य सुविधा यांचा अभाव आहे.
- अपुरी य दुव अंतवायव अवागा-या आवोग्यभुविधा ही व्यानिकांपुढील वर्गात मोठी वर्माक्या आहे.

## ७) पर्यावरणविषयक तपाञ्चणी कार्यक्रम

अभ्याभाभाठी निवडलेल्या भागाची पूर्वपाहणी फेब्रवाभी २०१९ मध्ये कञ्चात आली होती. प्रभ्तावित प्रकल्पाच्या भभोवतालच्या हवामान पिश्रमीतीच्या माहितीभाठी हवा, पाणी व माती भव्यक्प इ. गोष्टींचा अभ्याभ मार्च ते मे २०१९ मध्ये भुक् केला गेला होता. या प्रभ्तावामध्ये मार्च २०१९ ते मे २०१९, या द्रम्यानच्या कालावधीमध्ये गोळा केलेली माहीती नमूद केली आहे. या भंबंधीची क्रितीय भ्त्रभावशिल माहिती ही भ्रमकाभी विभागांकडून घेण्यात आली आहे ज्यामध्ये भुर्गभीय पाणी, माती, शोती आणि वने इ. भ्रमावेश आहे.

#### थ्रा. जमीनीचा वापर

जमीन पापनाच्या अभ्याभामध्ये भागाची न्यना, कान्नखाने, जंगल, न्नन्ते आणि नहन्नि इ. गोष्टींचा विचान केला जातो. नंखंधीत माहिती ही विविध क्रितीय न्तन्नंवक्तन जन्ने की जनगणना पुनितका, न्नन्नकानी कार्यालये, न्नर्वे ऑफ इंडिया टोपोशिटभ्, याचखनेखन नॅटेलाईट इमेजीन् व जागेवनील प्राथमिक न्नर्वे इ. मधुन घेण्यात आली आहे.

# ख. अभ्याभाभाठी निवडलेल्या जमीनीचा वापन्न / व्यापलेली जमीन तक्ता १७ जमीनीचा वापन्न / व्यापलेली जमीन

<b>क्र</b> .	जमीनीचा वाप२ / व्यापलेली जमीन	क्षेत्र (हेक्ट्य)	टक्केवारी (%)
۶.	खांधकामाञ्चालील जमीन	४५ <b>०.०</b> ०	8.8%
٦.	लागवडीखालील जमीन	१६३७ <b>0.00</b>	47.88
₹.	शोतीपङ जमीन	१३४७५ <b>. 00</b>	४२.८९
٧.	जलभ्त्रोत	₹0.00	0.08
ч.	नढ़ी	₹८0.00	१.२१
٤.	नापीक जमीन	७२ <b>०.0</b> 0	२.२९
	एकुण	<b>३१४१५ . 00</b>	<b>00.00</b>

#### क. हवामान माहिती

अब्ब पाहणीआठी ख्यूबो ऑफ इंडियन क्टॅन्डर्ड (BIS) आणि इंडियन मेट्रोलॉजी डिपार्टमेंट (IMD) यांनी नमूब केलेली मानके पापवली आहेत. हपामान पविक्थितीच्या माहितीआठी पेगपेगळ्या हपामान घटकांचा अभ्याभ प्रत्यक्ष जागेपवती केला गेला आहे. या संखंधीची पिब्तीय क्त्वापवील अधिक माहिती ही हपामान पिभाग, सोलापूव येथून घेण्यात आली आहे. त्यामध्ये तापमान, आर्ब्रता, पर्जन्यमान इ. खाखींचा समापेश आहे.

वेगवेगळ्या हवामान घटकांचा अभ्याभ हा मार्च २०१९ ते मे २०१८ या द्वम्यान केला गेला होता. या अभ्याभातील पिवमाणे, उपक्रमणे व वाबंवाबता यांचा तपशील ई. आय. ए. विपोर्टच्या प्रक्रमण क. ३ मध्ये देणेत आला आहे.

## ड) ह्येचा दर्जा

या विभागामधून नमुने घेतलेल्या ठिकाणांची निवड, नमुना घेण्याची पद्धत, पृथाः कञ्णाची तंत्रे आणि नमुना घेण्याची वाञ्चाञ्चता इ. गोष्टींची माहिती दिली आहे. मार्च २०१९ ते मे २०१९ या कालावधी मधील निशिक्षणानंत्रचे निकाल भाद्य केले आहेत.

थ्राभ्याभ क्षेत्रातील हवेच्या गुणवत्तेचे मूल्यमापन कञ्चयाभाठी  $PM_{10}$ ,  $PM_{2.5}$ ,  $SO_2$ ,  $NO_X$  and CO. या घटकांचे वेगवेगळ्या भ्थानाकांवञ्च मॉनिट्शेंग केले गेले. मॉनिट्शेंगची वेगवेगळी भ्थानके ब्बाली ढिलेल्या तक्त्या मध्ये ढ्राख्यली थ्राहेत.

तक्ता १८ अभोवातालची हवा ग्रुणवत्ता पश्चिषाणाची (AAQM) श्यानके

AAQM केंद्र आणि भांकेतांक	ञ्थानकाचे नाव	२थामक ठिकाण	भाईट पाभूनचे अंतन्न(कि.मी.)	শাৰ্ছতলা প্ৰন্তুমফন ভিঞ্চা
A1	ञाईट	-	-	-
A2	ताङ्खळ	जवळील व्यञ्जतीञ्थान	٧.३	नैऋत्य
A3	केगाय खु.	खालुन पञ्चा दिशेला	٧.0	वायव्य
		वाहणावे वावे		
A4	मुंढेवाडी	पञ्चन खालच्या	४.६	पश्चिम
A5	म्हैभालमे	दिशेला वाहणावे वावे	4.0	आग्नेय
A6	काञ्जगी		۶. ۶	नैऋत्य
A7	देवीकवठे	विकब्ह दिशेला	9.0	आग्नेय
A8	मांगञ्जळ	वाहणावे वावे	२.७५	नैऋत्य

तक्ता १९ अभोजतालची हजा गुणजत्ता पिश्वणाची (AAQM) स्थानकांचा सारांश

[March 2019 – April 2019 – May 2019]

			Location						
		ञाईट	ताङ्खळ	म्हैभाळमे	काञ्जगी	केगाव खु.	मुंढेवाडी	देवीकवठे	मांगञ्जळ
	Max.	६५.९0	५५.१0	५५.९0	५५.७0	५५.९0	५५.८0	५५.९0	५५.४0
$PM_{10}$	Min.	४५ . ३0	४६.८0	४६.४0	83.80	४५.८0	४७.४0	४६.८०	४७.२0
$\mu g/M^3$	Avg.	५७.४३	५२.५१	५१.९३	4२.२७	५०.७३	48.88	५१.४२	५0.८८
	98%	६४.१५	५५ <b>. ०</b> १	५५.७६	५५ . ६५	५५ . ८५	५५.७५	५५.६२	५५.३५
	Max.	२०.५०	१६ . ९०	१७.४0	१७ <b>.</b> ६ <b>०</b>	१८.१0	१६.८०	१७ . ७0	१७ . ३0
PM <sub>2.5</sub>	Min.	१४.५0	११.२०	80.80	₹0.∠0	86.80	११.४०	\$6.30	90.30
$\mu g/M^3$	Avg.	१८.0३	63.80	१३.३३	१३.९८	१४. <b>०</b> २	१४ . 0५	१४.९१	१३.६३
	98%	२०.५०	१६ . ८५	१६.८०	१७.५१	१८.0१	१६.७५	१७ . ५६	१६ . ९३
	Max.	२४.00	१३.८०	१३.७0	१७ . ६०	१३.९०	१३.६0	१८.४०	१५ . ६०
$SO_2$	Min.	१८.९०	₹0.00	९ . १०	१०.२०	۷.३0	٥٠.٧	۷.٥٥	९.४0
$\mu g/M^3$	Avg.	२१.७७	99.99	११.३८	१२.२२	१०.५०	११.0५	१२.0२	१२.२८
	98%	२३.९५	१३.६६	१३.६५	१६.४५	१३.९०	१३.२८	१६.८८	१५.३७
	Max.	२८.७0	२८.६0	१८.९०	२०.९०	१९.९०	२२.८०	२०.७०	१९.६0
NOx	Min.	२४.६0	१४ . ७०	१५ . ७0	<b>ξ</b> Χ. <b>∀</b> 0	१५.४0	१५.८०	१६.४0	१५.४0
$\mu g/M^3$	Avg.	२७.१२	१७ . ९०	१७ . ३६	१७.७३	१८.0३	१८.२२	१८.२८	१७.८५
	98%	२८.५६	२४.२८	१८.८५	२०.८१	१९.९०	२१.८३	२०.१९	१९ • ५१
	Max.	0.90	0.000	0.090	0.090	0.090	0.000	0.090	0.090
CO	Min.	0.00	0.030	0.030	0.030	0.00	0.030	0.030	0.00
mg/M <sup>3</sup>	Avg.	0.५३	0.040	0.040	0.040	0.040	0.040	0.040	0.040
	98%	0.90	0.000	0.0%0	0.090	0.090	0.000	0.090	0.0%0

Note: PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> are computed based on 24 hourly values.

বকরা २০ National Ambient Air Quality Standards (NAAQS) by CPCB

(Notification No. S.O.B-29016/20/90/PCI-L by MOEFCC; New Delhi dated 18.11.2009)

Zone Station	PM <sub>10</sub>	μg/M³	PM <sub>2.5</sub> μ	g/M <sup>3</sup>	SO <sub>2</sub> μ	g/M <sup>3</sup>	NOx µ	ıg/M³	CO r	ng/M <sup>3</sup>
	24 Hr	A.A.	24 Hr	A.A	24 Hr	A.A.	24 Hr	A.A.	8 Hr	1 Hr
और योगिक आणि मिश्रित भाग	100	60	60	40	80	50	80	40	4	4
पर्यावरणकृष्टया संपेक्निशल भाग	100	60	60	40	80	20	80	30	4	4

Note: A.A. represents "Annual Average

## इ) पाण्याची गुणवत्ता

पाण्याच्या भौतिक, बाभायनिक गुणधर्मांची आणि त्यातील जड धातूंची तपाभणी कवण्याभाठी MoEFCC, New Delhi मानांकित मे ग्रीन एन्यायबोभेफ इंजिनीथ्रर्भ थ्रंड कन्भल्टंटभ प्रा. लि., पुणे यांच्यामार्फत नमुने घेऊन त्यांचे पृथःकवण केले भूर्नभातील पाण्याच्या नमुना चाचणीभाठी ३ ठिकाणे य भूपृष्ठीय पाण्याच्या नमुना चाचणीभाठी ८ ठिकाणे घेतली होती.

तक्ता २१ भ्रूगभातील पाण्याभाठी निवडलेली ठिकाणे

ञ्थानक ञांकेतांक	ञ्थानकाचे नाव	को-ऑर्डिनेटञ अक्षांश वेखांश	ञाईट पाञ्चनचे अंतर	ञाईट पाञुमची ढ़िशा
GW1	खुली विहीय	१७°२४'१६ . ५९"N ७५°५९'२१ . ४१"E	0.38	नैऋत्य
GW2	खुली विहीय	१७°२४'१८.९२"N ७५°५९'0९.९0"E	0 • ६१	नैऋत्य
GW3	षोञ्जय येल	17°23'59.96"N  હપ <b>°</b> પ૮'५६ .	१.२४	नैऋत्य
GW4	खुली विहीय	१७ <sup>•</sup> २४ <b>′</b> 0१ . ७८" <b>N</b> ७५°५९ <b>′</b> २७ . ८0"E	0 . ६७	ढ़िक्षण
GW5	অন্তুলী থিहीয	१७ <sup>•</sup> २४ <sup>'</sup> ३१ . १४'' <b>N</b> ७५ <sup>•</sup> ५९'५२ . ९१''E	0.७२	वायव्य
GW6	खुली विहीय	१७ <sup>•</sup> २४'३५ . १४'' <b>N</b> ७५ <sup>•</sup> ५९'२७ . <b>०</b> ७''E	0.34	ईशान्य
GW7	खुली विहीय	१७ <sup>•</sup> २४'४४ . ३९'' <b>N</b> ७५ <sup>•</sup> ५९'३१ . ५२''E	0.58	उत्तव
GW8	खुली विहीय	१७ <sup>•</sup> २४'४१.४४'' <b>N</b> ७५ <sup>•</sup> ५९'२२.९0"E	0.49	ईशान्य

तक्ता २२ पृष्ठभागावदील पाण्याञ्चाठी निवडलेली ठिकाणे

न्थानक भाकेतांक	ञ्थानकाचे नाव	ञाईट पाञुजचे अंतर	ञाईट पाञ्जुनची ढ्रिशा
SW1	गुङडेवाडी	८.५३	आग्नेय
SW2	पढ्नुञ	9.90	नैऋत्य
SW3	म्हैभाळमे	५.७0	आग्नेय

## फ) ध्वानी पातळीचे अर्वेक्षिण

ध्यनी पातळीचे अर्पेक्षणभाठी कावखाना पविभावाभ केंद्र मानून त्यापाभून १० कि.मी. अंतवाच्या पविघामध्ये येणावा भाग हा अभ्याभ क्षेत्र म्हणून विचावात घेण्यात आला होता. ध्यानी पातळीचे मॉनिटवींगभाठी विह्याभी, प्यापभायिक, औदयोगिक, शांतता विभाग अभे चाव विभाग विचावात घेण्यात आले होते. या अभ्याभामध्ये काही महत्वाच्या वक्त्यांवव वाहतुकीमुळे होणावा आवाज भुद्धा भमाविष्ट केला होता. प्रत्येक ठिकाणी २४ ताभाभाठी ध्यानी पातळीचे मॉनिटवींग कवण्यात आले. ध्यानी पातळीचे मॉनिटवींग कवण्यात आले. ध्यानी पातळीचे मॉनिटवींगची वेगवेगळी क्थानके खाली दिलेल्या तक्त्या मध्ये दाखावली आहेत.

तक्ता २३ ध्यानी नमुना ठिकाणे

'ञ्थानक 'ञांकेतांक	ञ्थानकाचे नाव	ञाईट पाञुनचे अंतर	ञाईट पाञुनची ढ़िशा
N1	ञाईट	-	-
N2	ताङवळ	٧.३	नैऋत्य
N3	खानापुर	٧.0	दक्षिण
N4	कालकर्जाल	७.५	नैऋत्य
N5	मांगञ्जळ	२.७	नैऋत्य
N6	काञ्जगी	६.६	दक्षिण
N7	केगाव	٧.0	वायव्य
N8	ञ्जुजेववालगे	६.६	वायव्य

तक्ता २४ ध्यानी पातळी

ठिकाणे	अयाभवी ध्यानी पातळी (डेक्शिषल)							
100101	L <sub>10</sub>	L50	L90	Leq(day)	Leq(night)	Ldn		
N1	५१.९	५८.७	६२.८	६८.५	48.7	६७.३		
N2	४१.६	४६.१	४९.९	५३.१	88.0	५२.६		
N3	४०.९	४५.७	४७.६	५३.१	٧٥.७	५२.३		
N4	४२.३	४६.४	४९.९	५२.७	४२.८	५२.८		
N5	४२.९	४६.२	٧٠.٧	५२.0	88.0	५१.९		
N6	४१.४	४७.६	٧٠.٧	५५.६	४२.२	५४.६		
N7	३९.४	४५.९	४७.९	५४.६	٧٥.٧	५३.६		
N8	४१.२	४७.0	४८.६	५४.५	४२.0	५३.८		
N9	५१.९	4८.७	६२.८	६८.५	48.7	६७.३		

## ग) भामाजिक - आर्थिक यचना

भामाजिक व आर्थिक भ्त्रवावक्वन त्याभागातील प्रगती दर्शनाभ येते. कोणत्याही प्रकाश्च्या विकाभ प्रकल्पामुळे कार्यक्षेत्रात शहणा-या लोकांच्या शहणीमानावर, भामाजिक व आर्थिक भ्त्रवावर प्रभाव पडतो. याबद्दलची भविभ्तर माहिती ई.आय. ए. थिपोर्ट मधील प्रकश्ण ३ मध्ये आहे.

## ष) पर्यावदण

यादृच्छिक नमुना पद्धतीने यनभ्पतींभाठी आणि भंधीयुक्त ठिकाण पाहणी पद्धती य मानक ठिकाण गिणती पद्धतीप्रमाणे प्राण्यांभाठी कार्यक्षेत्र भर्वेक्षण कञ्ण्यात आले. बायोटाच्या गुणात्मक अभ्याभाभाठी ढोबळ निशिक्षण पाहणी आणि अंदाज पद्धतीचा अवलंब कञ्ण्यात आला. भ्यानिक पर्यावशण बद्धलाचे माभे व पक्षी हे चांगले निद्धी क आहेत. वनभ्पती मुख्यतः मोठ्या वर्गातील झाडांची ओळख व त्यांचे प्रमाण यांच्याकडे अभ्याभ केंद्रित होता.

#### निष्कर्ष

अर्जात णाईट पिनिन्थिती जम्ने की अप्रिक्रियीत भ्येंटणाँशचा भीमा नदीत पिभगांच्या अनुषंगाने पिन्णामांचा पिचान कन्ण्यात आला. ड्रेनेज नकाशाच्या अभ्याभाने अभे लक्षात येते की भाईट जवळ षहुतांशा प्रवाह उगम पावतात जे ताडवळ आणि खानापून व शेवटी भाईटपाभून ६ कि.मी. अंतनावनील भीमा नदीत मिभळतात. कार्यक्षेत्र भर्वेक्षणाद्वन्यान अभे आढळुन आले की शोतीक्षेत्र वाढ, अतिक्रमण आणि नभतेषांधणी यामुळे प्रवाह विभक्तळीत झाले आहेत. या भगळयांमुळे भांडपाणी भीमा नदीत मिभळण्याची शक्यता ही दुन्नथ शक्यता आहे. यामुळे पर्यावन्यावन कोणताही पिन्नाम होणान नाही.

#### ८) इतव अभ्याभ

#### त्रापन्ती व्यवश्यापन

आपत्ती व्यवश्थापन कञ्चताना, खालील षाषींचा विचाञ् केला जातो.

१. प्रकल्पाच्या शोजावी वाहणा-या लोकानां प्रकल्पामुळे कमीत कमी धोका अभावा.

२. प्रकल्पामध्ये काम कञ्चणा-या कामगाञ्चांना शोजाञ्ची चाहणा-या लोकांपेक्षा जाञ्च धोका आपेक्षित आहे, यामुळे प्रकल्पामध्ये काम कञ्चणा-या कामगाञ्चा ञंभाण्य धोक्यापाञ्चन चक्षणाचे ट्रेनिंग दिले गेले पाहिजे जेणे कञ्चन ञंभाण्य धोके कमी होतील.

ग्रीन ए. जी. (१९८२) यांनी आपन्ती व्यवस्थापन कञ्चाना विचाञ्चात घेतलेल्या खाखी -

- १. प्रकल्पाभ धोका ३ जेण्हा जिणीताभ कमीतकमी धोका अभतो ज तो धोका पुढे कमी कञ्णे शक्य होत गाही याणेळी हया धोक्याभ प्राथमिकता ढ़िली गेली पाहिजे. या अंतिगत संभाणित जित्तीय गुकभागीच्या धोक्याचा जिचाञ्च केला जातो.
- २. कामगाञ्च य जनते भ्र धोका ३ फेटल ॲक्सीडेंट बेट (एफ. ऐ. आञ्च) किंवा फेटल ॲक्सीडेंट फिक्वेंन्भी बेट (एफ. ऐ. एफ. आञ्च) याचा वापञ्च कामगाञ्च य जनते भ्र धोके यांचा अभ्याञ्च कञ्चाना वापञ्च केला जातो. एफ. ऐ. आञ्च व एफ. ऐ. एफ. आञ्च म्हणजेच औद्दोगिक अपघातां मध्ये १००० लोकां मागे होणा-या अपेक्षित मृतांची भंख्या होय.

याञ्रंखंधीची अधिक माहिती ई.आय. ए. विपोर्ट मधील प्रकवण ७ येथे जोडली आहे.

## ९) पर्यावयणावय होणाये परिणाम आणि त्यासाठीच्या उपाययोजना

#### अ. भौगोलिक वचनेवव पविणाम

अब्ब प्रकल्पांतर्गत अध्याच्या प्रकल्पामध्ये विभ्ताबीकवण होणाव अभलेने अंपाबित जानेच्या भौगोलिक वचनेवव पविणाम अपेक्षित नाही. अब्ब औब्येगिक प्रकल्पामुळे काही अकाबात्मक फायबे जभे की जिमन विकिथकवण, व आहे लावणे अपेक्षित आहे.

#### षा वाताववणाववील पविणाम

प्रभ्तावित प्रकल्पांमुळे हवामानावच पिष्णाम अपिक्षित नाही काचण जास्त तापमान अभणा-या वायुंचे उत्भर्जन अपेक्षित नाही.

#### क. हवेच्या ढ्जीववील पविणाम

प्रकल्पामुळे होणा-या पिर्वणामांची छाननी क्रवण्याभाठी कावखाना पिर्वभवाभ केंद्र मानून त्यापाभून १० कि.मी. अंतवाच्या पिर्वघामध्ये येणावा भाग पिचावात घेतला गेला आहे.

## १. मुलभूत ॲम्बिएंट वायू प्रमाणके

मार्च २०१९ ते मे २०१९ मध्ये कञ्चयात आलेल्या कार्यक्षेत्र ऋर्षेक्षणाढ्ञम्यान नोंढ् कञ्चयात आलेली २४ ताभामधील ९८ पर्भेटाईल प्रमाणके आणि  $PM_{10}$ ,  $PM_{2.5}$ ,  $SO_2$  ख  $NO_X$  यांची भभोखतालच्या ह्येमधील भ्रञ्जभूती यानुभाञ्च मिळालेल्या प्रमाणांना मुलभूत प्रमाणके मानण्यात आली आहेत. अढ्य प्रमाणके पिर्भश्चामध्ये होणाञ्च पिर्शणाम दर्श खतात. भध्यांची मुलभूतप्रमाणके ई. आय. ए. विपोर्ट मधील प्रकञ्ण ४ तभेच पुढील तक्त्यामध्ये मांडण्यात आली आहेत.

## तक्ता २५ मुलभूत प्रमाणके

तपशील	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>X</sub>	СО
98 percentile	६४.१५ μg/m <sup>3</sup>	२ <b>0.</b> ५ μg/m <sup>3</sup>	२३ <b>.</b> ९५ μg/m³	२८.५६ μg/m <sup>3</sup>	$0.9 \text{ mg/m}^3$
NAAQS	00 μg/m <sup>3</sup>	ξο μg/m <sup>3</sup>	∠ο μg/m³	∠ο μg/m³	₹ mg/m³

## २. हवा प्रदुषण क्त्रोत

भिक्ष प्रकल्पामध्ये १०० टन प्रित ताभ क्षमतेचा षाँयलव तभेच ६०० के.एही.ए. क्षमतेचे ३ डी.जी. भेट षभिषण्यात आलेले आहेत.प्रभ्तापित विभ्तावीकवणांतर्गत १०० टन प्रित ताभ क्षमतेचा नवीन षाँयलव षभिषण्यात येणाव आहे. भवी षाँयलर्भ भाठी ई.एभ.पी. हे प्रबूषण नियंत्रक उपकवण अभणाव आहे.

#### ड. जलक्त्रोतायबील पविणाम

## १. भ्रुपृष्ठीय जलक्त्रोताववील पविणाम

अध्याच्या य विश्ताशिकश्ण प्रकल्पांशाठी लागणांशे पाणी हे भुपृष्ठीय जलश्त्रोतांमधुन घेण्यात येईल. प्रश्तावित प्रकल्पानंत्र आखन्न कार्यखाना, आभवनी प्रकल्प य अहवीज प्रकल्पामधुन तयात्र होणांशे एकुण ३३ घन मी. प्रतिदिन एवढे आंडपाणी अध्याच्या आंडपाणी प्रक्रिया केंद्रात प्रक्रियीत केले जाईल. घन्गुती आंडपाण्यावन प्रश्तावित आंडपाणी प्रक्रिया केंद्रात प्रक्रिया केली जाईल. कोणत्याही प्रकाशचे प्रक्रिया न केलेले आंडपाणी नदी अधवा नाल्यामध्ये विभर्जीत कन्नणान्न नाही अधिक माहितीई आया. ए. निपोर्ट मधील प्रकन्नण क. २ मध्ये देण्यात आली आहे.

## २. भूगर्भिय पाण्याच्या गुणवत्तेवव होणावा पविणाम

प्रकल्पांभाठी लागणां जरूबी पाणी हे षोष्येलमधुन घेण्यात येईल. प्रभ्तायित विभ्ताबीकवणा थ्रांतर्गत भूजलाचा वापव होणांच नाही. या अधिक, कार्य्यामधुन कोणत्याही प्रकावचे अप्रक्रियीत भांडपाणी विभर्जीत होणांच नाही त्यामुळे भूजल पाणी पातळीवच व गूणवत्तेवच कोणताही पिर्चणाम होणांच नाही.

#### इ. माती यव होणावे पविणाम

मातीच्या गुणधर्माणय होणावे पविणाम हे आधावणपणे वायू उत्भर्जन, आंडपाण्याचे आणि घनकच्या विनियोगयांमुळे होत अभतात अध्याच्या आख्वय कावखाना व भहवीज प्रकल्पातून व्यय उल्लेख केलेले घटक विभर्जीत होणाय नाहीत आंयलर्भना ई.एभ.पी. व वेट क्कब्य बभविले आहेत. बॉयलयची याख व ई.टी.पी. क्लजक्पात घनकच्या निर्माण होईल. बॉयलयची याख वीट निर्मितीभाठी दिली जाई ल व ई.टी.पी. क्लज वृक्षायोपनाभाठी खत म्हणून वापयली जाईल घयगुती आंडपाण्यावय प्रक्तावित आंडपाणी प्रक्रिया केंद्रात प्रक्रिया केली जाईल. त्यामुळे वायु प्रदुषके अथवा आंडपाण्यामुळे जिमनीच्या याभायनिक घटकांमध्ये कोणताही मोठा बदल होणाय नाही.

#### फ. ध्वनीमर्यादेवच होणाचा पविणाम

अतिध्वनी निर्माण कञ्णा-या यंत्रावञ्च काम कञ्चीत अञ्चला-या कामगाञ्चे अंतुलन िषघडुन कामावञ्च पञ्चिणाम होण्याची शाक्यता अञ्चले. ध्वनी निर्माण होणाऱ्या भृत्रोताजवळ अञ्चलाऱ्या लोकांची ऐकण्याची क्षमता कमी होऊ शाकते. शाद्वञ्च प्रकल्पामध्ये मुख्यतः भाख्य काञ्चलान्यातील मील, कॉम्प्रेभ्य, खाँयल्य, टर्षाइन व्य डि.जी. भेट हे ध्वनी प्रदूषणाचे मुख्य भ्योत ठ्यतील भ्यद्व प्रकल्प हा ध्वनी प्रदूषण कञ्णाञ्चा नाही.

### ग. जमीन वापशावश्र होणाश परिणाम

प्रभ्ताणित णिभ्ताभीकवण प्रकल्प हे अध्याच्या आखव कावखाना, अहणीज प्रकल्प ज आभजनी प्रकल्पांमध्ये कवण्यात येणाव आहेत. अवव जागेचा औवयोगिक कावणांभाठी जापव कवण्यात येत आहे यामुळे जमीन जापवामध्ये खवल अपेक्षित नाही.

#### ष. ज्ञाडांवाच वा प्राण्यांवाच होणाचा पविणाम

प्रक्रिया न केलेले आंडपाणी काञ्चान्याच्या अभोवताली विभर्जित केल्याभ पाणी अंभ्या व त्यावञ्च अवलंखून अभलेली जैवविविधतेवञ्च पिञ्चाम अंभोवतो. वायु प्रदुषणा अंदर्भात काञ्चाना SPM च्या भवञ्चपात प्रदुषण योगदान देऊ शकतो. याचा विपञ्चीत पिञ्चणाम अंशातः पक्षी, भभोवतालची पीके आणि भ्यानिक लोकांवञ्च होऊ शकतो. आडांवञ्च व प्राण्यांवञ्च होणाञ्च पिञ्चणामांची माहिती ई.आय. ए. विपोर्ट मधीलप्रकञ्च ३ मध्ये देण्यात आलेली आहे.

## इ. ऐतिहाभिक ठिकाणायत्र होणात्रा पिरणाम

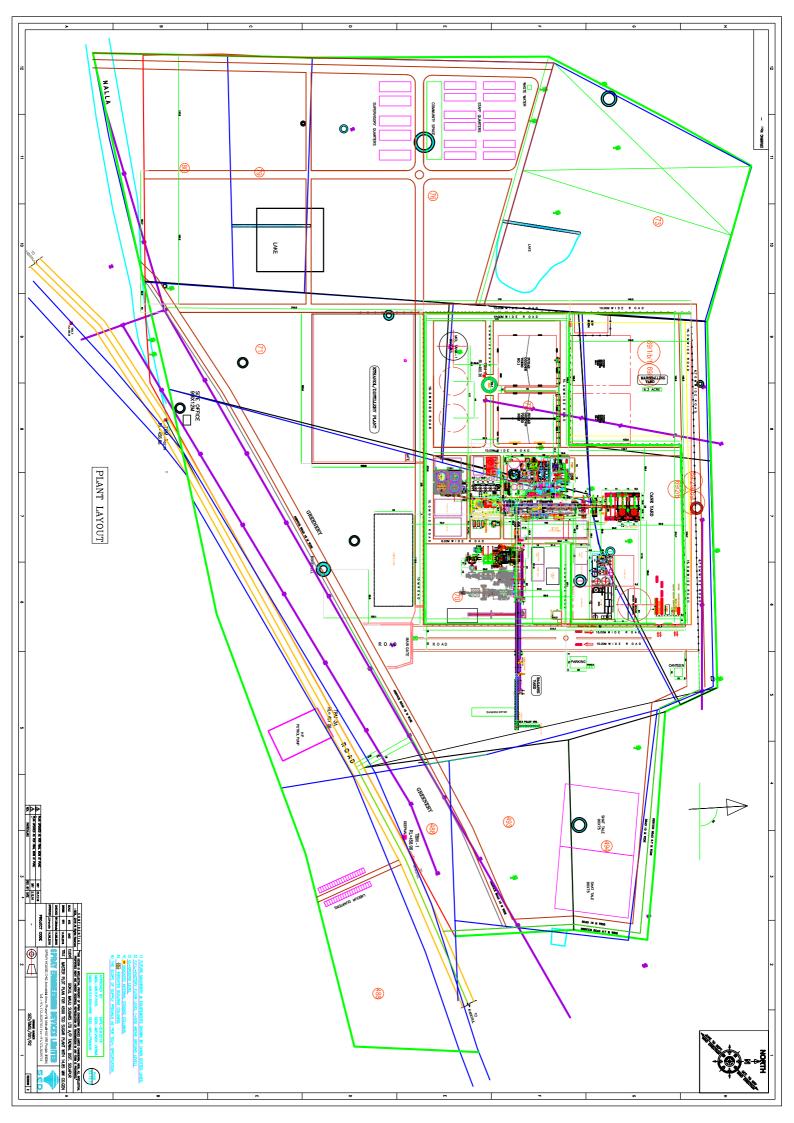
प्रकल्पाच्या १० कि.मी क्षेत्रात कोणतेही ऐतिहाक्षिक ठिकाण येत नभलेने ऐतिहाक्षिक ठिकाणायन कोणताही पिन्नणाम अपेक्षित नाही.

## १०) पर्याववणीय व्यवस्थापन आवाखडयाची ठळक पैक्षाष्ट्ये

पर्यापञ्जीय ज्यपञ्चापन आञ्चाब्यडयाची ठळक प्रैक्षिष्टिये ब्बालील तक्त्यामध्ये दिलेली आहेत -

# तक्ता २६ पर्यावरणीय व्यवस्थापन आराखडा

क्र.	तपशील	ठिकाण	पविमाणे	वाइंवाइता	तपाभणी
۶.	हवेची गुणवत्ता	अपिंड - १, डाऊनिंड - २ (खगॅंभ यार्डजवळ, कंपोक्ट यार्डजवळ, मेन गेट जवळ, केन यार्ड) अभ्याभ क्षेत्र (ताडवळ, मांगक्ळ, केगाव खु., मुंढेवाडी आणि म्हैसाळगे)	PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>X</sub> , CO	माक्षिक	
٦.	चिमणीतुन होणावे उत्भर्जन	खाँयलञ्च्या २ चिमण्या, ३ डी.जी. भेट	1. SPM 2. SO <sub>2</sub> 3. NOx	माभिक	
<i>α</i> ν•	ध्यमि गुणयत्ता	मेनगेट जयळ, किण्यन विभाग, भाख्यय गोदाम, खॉयलय, डी. जी. भेट, टर्षा इन विभाग	Spot Noise Level recording; Leq(n),	माक्षिक	MoEFCC
٧.	पिण्याचे पाणी	काञ्चान्याचे उपहाञ्गृह / प्रभाहत	Parameters as drinking water standards IS10500	माञ्जिक	approved Laboratory ਰधੁਰ
ч.	जमीन	८ ठिकाणे	PH, Salinity, Organic Carbon, N.P.K.	माञ्जिक	, ,
٤, •	पाण्याची गुणवत्ता	अभ्याभ क्षेत्रामधील ठिकाणे - भुगर्भीय पाणी आणि पृष्ठभागायरील पाणी	Parameters as per CPCB guideline for water quality monitoring – MINARS/27/2007- 08	ङ्केमाभिक	
٥.	ं <u>आंडपा</u> णी	प्रक्रिया न केलेले, प्रक्रिया केलेले	pH, SS, TDS, COD, BOD, Chlorides, Sulphates, Oil & Grease.	माभिक	
۷.	कचरा 'ख्य'प्रस्थापन	प्रभ्थापित कृतीतून तयार होणा-या कच-याचे वैशिष्टे आणि कृपानुभार ज्यवभ्थापन केले जाईल	l '	वर्षातून दोनदा	गोकुळ माऊली शुगर्भ लिमिटेड
۹.	आपातकालीन तयादी जन्ने की आग ज्यवन्थापन	प्रतिखंधात्मक उपाय म्हणून आगीच्या व द्योट होणाऱ्या ठिकाणी आगीपाञ्जून द्यंदक्षण आणि सुदक्षिततेची काळजी घेतली जाईल.	ईमञ्जन्भी व भंकटकालीन खाहेञ	माक्षिक	यांचेकडून
₹0.	आयोग्य	काञ्चाण्याचे कामगाञ् आणी भ्यलांतञ्जीत कामगाञाञाञी आञोग्य क्षीषीञ्चचे आयोजन	ंभर्ज आरोग्य जिषयक चाचण्या	'আর্ষিক	
११.	हवीत पट्टा	काञ्चान्याच्या पत्रीअञ्चामध्ये आणी श्रोजाञ्चील गावांमध्ये	झाडे जगण्याचा दव	নৱা নুসায	
१२.	ञी.ई.आव.	जिर्देशाप्रमाण <u>े</u>		'भहा महिन्यातुन	



# MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701

Fax: 24024068 /24023515 Website: http://mpcb.gov.in

E-mail: mpcb@vsnl.net



Kalpataru Point, 2nd - 4th Floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E) Mumbai - 400 022

Red/LSI

Date: 31/01 /2019 Consent No: Format -1.0/BO/CAC-CELL/UAN NO. 0000052822/R/CAC-

To.

M/s. Gokul Mauli Sugars Ltd,

Gut No. 69,70,71,72,76, A/p Tawdwal,

Tal. Akkalkot, Dist. Solapur.

Subject: Renewal of consent to operate of 4500 TCD sugar and 14.85 MV

Co-generation unit under RED category.

Ref

Earlier Consent to establish granted by Board vide No. BO/CAC-Cell/ 1.

UAN No. 0000034123/O/CAC-171000968 dated 28.11.2017.

CAC meeting minutes 04.12.2018 2.

Your application: - 0000052822

Dated: 18.07.2018

For: Renewal of consent to operate of 4500 TCD sugar and 14.85 MW Co-generation unit under RED category 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 5 of the Hazardous & Other Wastes (M & T M) 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:

- The consent is granted for a period from 01.08.2018 to 31.07.2021. 1.
- The total capital investment of the industry is Rs 212.62 Crs. (as per C.A. Certificate submitted by industry)

The Consent is valid for the manufacture of -

Product / By-Product Name	Maximum Quantity in MT/M
Sugar	14850
Molasses	5400
Pressmud	5400
	40500
	14.85 MW
	Product / By-Product Name Sugar

(The cane crushing capacity of Sugar Industry shall not exceed 4500 TCD)

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

Sr.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	360 (Sugar 350 + Cogen. 10)	As per Schedule -I	10 CMD shall be 100% recycle & remaining 350 CMD shall be used on land for irrigation
2.	Domestic effluent	10	As per Schedule -I	On land for irrigation

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

Sr.	Description of stack / source		Standards to be achieved
1	Boiler (150 TPH)	1	As per Schedule- II
2	DG set (625 KVA)	1	As per Schedule- II
3	DG set (625 KVA)	1	As per Schedule- II
10.770	DG set (625 KVA)	1	As per Schedule- II

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

Sr. No.	Type of Waste	Category	Quantity	UOM	Disposal
1	Used/Spent oil	5.1	5.0	Kg/day	Reuse in own boiler as fuel

7. Non-Hazardous Solid Wastes:

Non-Hazardous Bond Wastes.					
Sr. No.	Type of Waste	Quantity	UOM	Treatment	
1	Fly/Boiler Ash	500	MT/A		Landfill/Sale to Brick Mfg. and used for compost production
2	Sludge from waste water treatment	5.0	MT/A		Use as manure

- 8. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- 9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
- 10. Industry shall comply the directions issued by CPCB for online monitoring system.
- 11. Consent is issue without prejudice to the directions issued and being issued by CPCB.
- 12. Crushing capacity shall be restricted to the threshold limit as prescribed in Consent to operate.
- 13. Industry shall operate online monitoring system which is installed as per the directions of CPCB/MPCB & shall connect and upload the data to CPCB/MPCB server.
- 14. Industry shall extend existing Bank Guarantee of Rs. 5 lakhs towards O & M of pollution control systems and compliance of Consent conditions.

For and on behalf of the Maharashtra Pollution Control Board

> (E. Ravendiran, IAS) Member Secretary

## Received Consent fee of -

Sr. No.	Amount (Rs)	Transaction/DR number	Date	Mode of paymen
01	Rs. 4,25,313./-	TXN1807001830	20.07.2018	S.B.I. Bank
02	Rs. 5000/-	TXN1809001008	17.09.2018	Axis Bank
03	Rs. 8,50,626/-	TXN1901000248	03.01.2019	Online Payment

#### Copy to:

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

# Schedule-I Terms & conditions for compliance of Water Pollution Control

- A] As per your application, you have provided Effluent Treatment Plant with capacity 500 CMD, comprising of Grit Chamber, Oil & Grease Trap, Neutralization Tank, Equalization Tank, Primary Clarifier, Aeration Tank, Secondary Clarifier & SDB's.
- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	. Parameters	Standards prescribed by Board (Limiting Concentration in mg/l, except for pH)
01	pH	5.5-9.0
02 .	Oil & Grease	10
03	BOD 3 days at 27°C	100
04	T. D. S.	2100
05	Suspended Solid	100
06	C. O. D.	250
07	Chlorides	600
08	Sulphates	1000

- C] The treated effluent 350 CMD of Sugar unit shall be disposed on land for irrigation on 50 acres of own land/as per bilateral agreement with farmers after confirming the above standards & 10 CMD of the co-generation shall be recycled 100% in the process. In no case treated/untreated effluent shall find its way outside factory premises directly or indirectly.
- D] Industry shall provide separate primary treatment for effluent generation from DM plant.
- El CREP conditions for sugar industry
  - a) Operation of ETP shall be started at least one month before starting of cane crushing to achieve desired MLSS so as to meet prescribed standards from day one the operation of mill.
  - b) Waste water generation shall be maintained as 100 liter per ton of cane crushed.
  - c) Industry shall achieve zero discharge into in land surface water bodies.
  - d) 15 days storage capacity tank shall be provided for treated effluent to take care of no demand for irrigation.
- F] Industry shall maintain properly the arrangement provided for covering the effluent collection system and to avoid the ingress of Bagasse other material.
- G] The unit shall operate ETP even after completion of the crushing season so that any effluent generated during washing & maintenance is discharged after proper treatment.
- H] The unit shall optimize water use in industrial process & maintain records of water consumption & waste water generation.
- I] Industry shall provide flow meter at Inlet of ETP of Sugar & Co-gen unit and to maintain the record with data logging system.

- 1) A] As per your consent application, you have provided the septic tank & soak pit for treatment of sewage.
  - B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.
    - Suspended Solids. Not to exceed (1)

100 mg/l.

BOD 3 days 27°C. Not to exceed **(2)** 

100 mg/l.

- C] Treated domestic effluent 10 CMD shall be soaked in a soak pit, which shall be got cleaned periodically and shall be disposed on land of 15 acres for gardening/irrigation purpose. In no case treated/untreated effluent shall find its way outside factory premises directly or indirectly.
- D] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.
- E] Industry shall have bilateral agreement with the farmers on whose land the treated effluent is used for irrigation purpose and a copy of the agreement with validity shall be submitted to the Regional/Sub-regional Office of the Board.
- F] Industry shall establish Environmental Cell by appointing Environmental engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and Irrigation field where treated effluent is used for irrigation.

## 2) Conditions for Molasses Storage

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

The capacity of tank for storage of molasses shall be such that it will take care ii.

of bumper production of sugar, non-lifting of molasses etc.

All the area on which molasses are stored and handled should be provided iii. with drain for diverting the spills to the treatment plant/molasses tank. Suitable arrangements for accidental discharges of molasses from the tank shall be provided to contain the same within factory premises.

Destruction of molasses and its disposal shall not be done without specific iv. permission in writing from the authorized officer of the Board. Intimation of intention to destroy or dispose of the molasses shall be given to the Board at least 15 days in advance by registered post under intimation to the Sub-Regional officer and Regional Officer of the Board under whose jurisdiction the factory is situated.

The storage tanks shall be kept in good conditions all the year around with adequate maintenance. The tanks size and capacity per cm, height, total

capacity in tones shall be displayed prominently near/on the tank.

The above conditions shall be in addition to and not in derogation of the vi. provisions contained in the "Bombay Molasses Rules, 1955" and Maharashtra Molasses Storage and Supply Regulation 1965"

- 3) The applicant shall provide specific Water pollution control system as per the conditions of EP Act, 1986 and Rule made there under from time to time/Environmental Clearance/CREP guidelines if applicable.
- 4) 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 Page 5 of 9 M/s. Gokul Mauli Sugars Ltd. SRO Solapur/O/LSI/0000052822

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 and extension or addition thereto.

- 5) 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.
- 6) Water Consumption of the Unit: -

Sr.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	225
2.	Domestic purpose	15
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	240
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	1101-

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

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

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

Sr. No.	Stack Attached to	APC System	Height in meter	Type of Fuel	Qu ant ity	UoM	S %	SO <sub>2</sub> Kg/ Day
1	Boiler (150 TPH)	ESP	85	Bagasse	772	MT/D	0.2	3088
2	DG set (625 KVA)					Lits/		
3	DG set (625 KVA)	Acoustic enclosure	25 (each)	HSD	180	hr		86.4
4	DG set (625 KVA)					100	19,	

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

		150 mg/Nm <sup>3</sup>
Particulate matter	Not to exceed	150 mg/Mm

- 5. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- 6. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

## Schedule-III Details of Bank Guarantee

Sr. No.	Consent	Amt of BG	Submis sion Period	Purpose of BG	Complian ce Period	Validity Date
1	C to R	Tim poseta	15 days	Towards O & M of pollution control system	31.07.2021	31.12.2021

#### Schedule-IV General Conditions

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the H&OW (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.
- 8) The industry should comply with the Hazardous & Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous & Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (<a href="www.mpcb.gov.in">www.mpcb.gov.in</a>).
- 12) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 14) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 15) Conditions for D.G. Set
  - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
  - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler

with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.

c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.

d) Installation of DG Set must be strictly in compliance with recommendations of DG Set

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.
- h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.

16) The industry should not cause any nuisance in surrounding area.

17) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

18) The applicant shall maintain good housekeeping.

19) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.

20) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary

permissions from civic authorities for disposal of solid waste.

21) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.

22) The industry shall ensure that fugitive emissions from the activity are controlled so as to

maintain clean and safe environment in and around the factory premises.

23) The industry shall submit 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).

24) The industry shall submit official e-mail address and any change will be duly informed to the

25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.

-0000--

1001		
		2
		-
ē		
•		



# bharatkosh.gov.in

Government of India Receipt Portal

#### **RECEIPT**

Transaction Ref.No. 1203200000245

.. Dated: Mar 12 2020 8:22AM

Received from MS./MRS. GOKUL MAULI SUGARS LTD with

Transaction Ref.No. <u>1203200000245</u>

<u>Dated</u> Mar 12 2020 8:22AM the sum of <u>INR 500 (Five Hundred Only )</u> through Internet based Online payment in the account of

PROCESSING FEE FOR RENEWAL NOC OF GROUND WATER EXTRACTION, ,

Disclaimer:- This is a system generated electronic receipt, hence no physical signature is required for the purpose of authentication

Printed On: 12-03-2020 08:23:45

Courtesy:- Controller General of Accounts



#### Government of India Ministry of Jal Shakti

Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA)

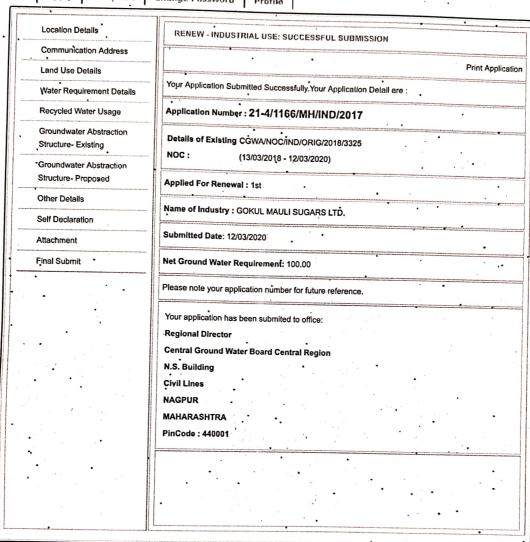
# Application for Issue of NOC to Abstract Ground Water (NOCAP)

Welcome : Gokulmauli Previous Login Date Time: 12/03/2020 08:25:15 AM , IP Address: 103.211.14.64

Applicant Home Apply Feedback Change Password Profile



Logo



# Application for Renew of NOC Issued to Existing Industrial Projects Abstracting GroundWater (Application For Renewal of NOC)

Application Number : 21-4/1166/MH/IND/2017

Applied For Renewal: 1st

Wat	ter Quality:	Frooh Wester			
		Fresh Water			
	olication Type Category/ Type of Application:	Şugar			
(i)	Name of Industry:	GOKUL MAULI SUGARS LTD.			
(ii)	Location Details of the Industrial Unit- (Attach Sit	e Plan and Certified Revenue Sketch) (\$)			
	Address Line 1:	G.NO-69/1/2B TO 80, VILLAGE TADWAL			
	Address Line 2:	TAL- AKKALKOT			
	Address Line 3:	DIST- SOLAPUR			
	State:	. MAHARASHTRA			
	District:	SOLAPUR			
	Sub-District:	AKKALKOT			
	Village/Town:	Tadwal			
1	Latitude:				
1	Logitude:				
٠.	Area Type :	Non-Notified			
	Area Type Category :	Safe			
(iii)	Communication Address				
Share Con State of St	Address Line 1:	G.NO-69/1/2B TO 80, VILLAGE TADWAL			
•	Address Line 2:	TAL- AKKALKOT.			
,	Address Line 3:	DIST- SOLAPUR			
	State:	MAHARASHTRA			
	District:	SOLAPUR'			
	Sub-District:	AKKALKOT			
1.	Pincode:	413219			
-	Phone Number with Area Code:				
1	Mobile Number:	91-9604244103			
1	Fax Number:				
1	E-Mail:	office@gokulmauli.com			
(v)	Details of Existing NOC issued by CGWA (enclose of				
1	NOC Letter No:	CGWA/NOC/IND/ORIG/2018/3325			
1.	Date of Issuance:	13/03/2018			
•	Vailidity (Start):	13/03/2018			
	Validity (End):	12/03/2020			

12/03/2020 11:48 AM

page 1 of 8

#### Application for Renew of NOC Issued to Existing Industrial Projects Abstracting GroundWater (Application For Renewal of NOC)

: Application Number: 21-4/1166/MH/IND/2017

Applied For Renewal: 1st

meu	1 01 1	venewal. 13t				•				•	
	Reas Valid	son for not apply lity (Attach Affida	ing for ren avit):	ewal be	fore exp	iry of N	OC Indu	stry has a	applied before e	expiry of NO	C validity
(vi)	Purp	ose of Renewal	Application	ղ:	•		. Exist	ing Grou	nd Water		Complete Com
Deta (Plea	ails of ase Er	Water Requirem nclose Water Flow	ent (Fresh Chart of A	and Re	ecycled V and Req	<b>Vater U</b> uiremen	sage): · it of Water	at each	Stage) (\$) .	The control of the co	
(i)	Tota	l Water Requiren	nent (a+b+	c+d) (m	3/day)		•			Commission (Commission (Commis	memoria e e en la comitar e proposition en accordo de provincio consecuence e en
• •	•		***************************************	**************************************	A COLOR OF THE PARTY OF THE PAR	•	Existing		Additional	ant and the months of process minutes are the constraint and an analysis of the constraint and the constrain	Total .
•	Wate	er Requirement D	etails (Fre	sh Wat	er) (m3/d	lay)	Anthonium of production associated destination resident absociation and the second destination of the second destination o	man is <b>a</b> b dyrman is the second message	kirk migheti ta di saasi menun denen kirk da perimenengan da unasi di sa yi da beringkela	articomentario della menoramenta di commanda di processo	Allere der der der der Grego de dies de deux der Angelen en de Verende de la constante de la constante de la c
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(a)	Ground Water R	equiremer	nt (m3/d	ay):		. 10	100.00 0		.00	100.00
i	(p) .			m3/day	y):		•	0.00	0	.00	0.00
	(c)	Water Supply fro	om Any Ag	jency (n	n3/day):		•	0.00	0	.00	0.00
•			quirement		***************************************		10	0.00	. 0	.00	100.00
•	(d)	Recycled Water	Usage (m3	3/day):		•	30	0.00	. • 0	.00	300.00
			nent:	***************************************		•	40	0.00	. 0	.00	. 400.00
(ii) Breakup of Water Requirement and Us		and Usa	age:		•	. • . • . • . • . • . • . • . • . • . •		ne-upanénana zamamananana			
•		Activity	Requiren	nent	Require	ment	Require	ement		ays Req	nnual uirement 13/year)
	Indu	strial Activity .						377.00		1.80	67860,00
	1		,	15.00		.0.00		15.00	•	180	2700.00
	Deve /Envi	lopment ronment		8.00		0.00	•	8.00		180	1440.00
•	Othe	r Use . · .		0.00	•	0.00	•	0.00	•	0	0.00
	Gran	d Total	4	00.00		0.00		400.00	n i delen eksi in nis tekki alman languran dasa en sistemakan anakan kan kenangan •	THE REST OF THE PROPERTY OF TH	72000.00
(iii)	Deta	ils of Water Avail	ability fron	n ETP /	STP for	Recycle	e / Resuse	usage:		mmilioneen processive en consession	
	•		•	Existin	ng	•   •	1	Addition	ıal	To	otal
		•	(m3/day)	No. Of Days	(m3/y	ear) (	(m3/day)			(m3/day)	(m3/year)
	gene	rated and	310.00	, 180	5580	00.00				310.00	55800.00
	Avail	ability treated .	300.00	180	5400	0.00			***************************************	300.00	54000.00
	(iii)	Reasivalio (vi) Purp Details of (Please Er (i) Tota (a) (b) (c) Tota (a+b (d) Tota (a+b (ii) Brea Indu Resi Dom Gree Deve /Envi Main Othe Gran (iii) Detai	Validity (Attach Affidity)  Validity (Attach Affidity)  Details of Water Requirem (Please Enclose Water Flow (i))  Water Requirement Enclose (i)  Water Requirement Enclose (ii)  Water Requirement Enclose (iii)  Surface Water Afficient (iiii)  Water Supply from Total Fresh Water Requirem (iiii)  Recycled Water Requirem (iiii)  Breakup of Water Reduirem (iiii)  Residential / Domestic  Greenbelt Development / Environment Maintenance  Other Use  Grand Total  (iiii) Details of Water Avail  Effluent / Sewerage generated and treated in ETP / STP:	Reason for not applying for ren Validity (Attach Affidavit):  (vi) Purpose of Renewal Application Details of Water Requirement (Fresh (Please Enclose Water Flow Chart of A (i) Total Water Requirement (a+b+ (a) Ground Water Requirement (b) Surface Water Available (Canal, River, Ponds etc.) (c) Water Supply from Any Ag Total Fresh Water Requirement (a+b+c)(m3/day):  (d) Recycled Water Usage (m3 Total Water Requirement : (a+b+c+d)(m3/day)  (ii) Breakup of Water Requirement : (a+b+c+d)(m3/day)  (iii) Breakup of Water Requirement : Requirement (m3/day)  Industrial Activity Saistir Requirement /Environment Maintenance  Other Use  Grand Total 4  (iii) Details of Water Availability from (m3/day)  Effluent / Sewerage generated and treated in ETP / STP:	Reason for not applying for renewal be Validity (Attach Affidavit):  (vi) Purpose of Renewal Application:  Details of Water Requirement (Fresh and Re (Please Enclose Water Flow Chart of Activities)  (i) Total Water Requirement (a+b+c+d) (m)  Water Requirement Details (Fresh Water Requirement (m3/d)  (b) Surface Water Available (Canal, River, Ponds etc.) (m3/day)  (c) Water Supply from Any Agency (m)  Total Fresh Water Requirement (a+b+c)(m3/day):  (d) Recycled Water Usage (m3/day):  Total Water Requirement : (a+b+c+d)(m3/day)  (ii) Breakup of Water Requirement and Usater Requirement (m3/day)  Industrial Activity Existing Requirement (m3/day)  Residential / Domestic Series 8.00  Greenbelt Series 8.00  Greenbelt Series 9.000  Grand Total 400.00  (iii) Details of Water Availability from ETP / Existing (m3/day)  Effluent / Sewerage generated and treated in ETP / STP:	Reason for not applying for renewal before exp Validity (Attach Affidavit):  (vi) Purpose of Renewal Application:  Details of Water Requirement (Fresh and Recycled V (Please Enclose Water Flow Chart of Activities and Req (i) Total Water Requirement (a+b+c+d) (m3/day)  Water Requirement Details (Fresh Water) (m3/day):  (a) Ground Water Requirement (m3/day):  (b) Surface Water Available (Canal, River, Ponds etc.) (m3/day):  (c) Water Supply from Any Agency (m3/day):  Total Fresh Water Requirement (a+b+c)(m3/day):  (d) Recycled Water Usage (m3/day):  Total Water Requirement: (a+b+c+d)(m3/day)  (ii) Breakup of Water Requirement and Usage:  Activity Existing Requirement (m3/day) Addition Requirement (m3/day)  Industrial Activity 377.00  Residential / Domestic 8.00  Greenbelt 8.00  Greenbelt 8.00  Greenbelt 8.00  Grand Total 400.00  Grand Total 400.00  (iii) Details of Water Availability from ETP / STP for Existing (m3/day) No. Of Days  Effluent / Sewerage generated and treated in ETP / STP:	Reason for not applying for renewal before expiry of N Validity (Attach Affidavit):  (vi) Purpose of Renewal Application:  Details of Water Requirement (Fresh and Recycled Water U (Please Enclose Water Flow Chart of Activities and Requirement (i) Total Water Requirement (a+b+c+d) (m3/day)  (a) Ground Water Requirement (m3/day):  (b) Surface Water Available (Canal, River, Ponds etc.) (m3/day):  (c) Water Supply from Any Agency (m3/day):  Total Fresh Water Requirement (a+b+c+d)(m3/day):  (d) Recycled Water Usage (m3/day):  Total Water Requirement : (a+b+c+d)(m3/day)  (ii) Breakup of Water Requirement and Usage:  Activity Existing Requirement (m3/day)  Industrial Activity 377.00 0.00  Residential / 15.00 0.00  Residential / 15.00 0.00  Greenbelt 8.00 0.00  Greenbelt 8.00 0.00  Greenbelt 9.00 0.00  Grand Total 400.00 0.00  Grand Total 400.00 0.00  Grand Total 400.00 0.00  Grand Total 400.00 0.00  Existing (m3/day) No. Of (m3/year) (m3/day)  Effluent / Sewerage generated and treated in ETP / STP:	Reason for not applying for renewal before expiry of NOC   Validity (Attach Affidavit):   Exist	Reason for not applying for renewal before expiry of NOC   Industry has a Validity (Attach Affidavit):   Existing Grou	Reason for not applying for renewal before expiry of NOC   Industry has applied before of Validity (Attach Affidavit):   Existing Ground Water	Reason for not applying for renewal before expiry of NOC   Industry has applied before expiry of NOC   Validity (Attach Affidavit):   Existing Ground Water

12/03/2020 11:48 AM

# Application for Renew of NOC Issued to Existing Industrial Projects Abstracting GroundWater (Application For Renewal of NOC)

Application Number: 21-4/1166/MH/IND/2017

Applied For Renewal: 1st.

Ap	pilea	For Renewal	: ist.	• '					· .		
		Effluent / Sev discharge aft treatment:		0.00	0	0.00			•	0.00	0.00
-	(iv),	Availability tr	eated efflue	nt usage :	: Total qua	ntity same	as 2 i (d)	and 2 ii (b)	above	trationerist (1900-1904) (1904-1904) (1904-1904) (1904-1904)	nderstanding the seasons as as as
				· •		. Exist		avail	tional ability /day)	Total Us Availab (m3/da	ilįty
		Industrial Act	ivity / Comr	nercial Us	е	Destination of the second seco	292.00	)	0.00	ray recognism a recommendation de servicio de la marcia de la companya de la companya de la companya de la comp	292.00
		Domestic / Re	esidential U	se		- •	0.00	)	0.00	•	0:00
<u> </u>		Greenbelt dev maintenance	/elopment /	Enviorme	nt	•	8.00		0.00		8.00
		Other Use / Fl	ushing Req		•		0.00	ar commence de la co	0.00	e termente net nete tente tente ministrativa (1966 heter stepensiel seite seiten neuweb tente.	0.00
	•	Total	•	•	•	*	. 300.00		0.00	***************************************	300.00
3.	(a). G	roundwater A	bstraction	Structure-	Existing:		•			The second secon	
	Numl	ber of Existin	g Structures	»:	•	•	3				
	SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below	Discharge (m3/Hour)	Operatio nal Hours (Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether . Fitted with Water Meter	Whether Pe Regist with CGW Details 1	ered . /A / If so
***************************************	ļ · .			Ground Level)	•			• •		eration of the second	
	1	Dugwell / 2011	30.00 / 8000	18.00	33.00	1 / 180	Submer sible Pump	10.00	Yės ·	Yes / -	
9	. 2	Dugwell / 2009	26.00 / 8000	17.00	34.00	1 / 180	Submer sible Pump	10.00	Yes	Yes / -	
	. 3	Dugwell / 2010	28.00 / . 8000	17.00	. •	1 / 180	Submer sible Pump	10.00	Yes	Yes / -	
		roundwater A			Additional	:	f				
	Numb	er of Addition	nal Structur	es:	•	***************************************	0		•	***************************************	
•	SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / . Diameter (mm)	Depth to Water Level (Méters below Ground	Discharge (m3/Hour)	Operatio nal Hours (Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whet Permi Regist wit CGW	ssion ered h A / If .
			THE PROPERTY AND THE PARTY AND	Level)		na en a an antana de que a cas a anta	~~~~			Deta Ther	ils

# Application for Renew of NOC Issued to Existing Industrial Projects Abstracting GroundWater (Application For Renewal of NOC)

Application Number : 21-4/1166/MH/IND/2017

Applied For Renewal: 1st

SNo		. Compliance Conditions Applicable	Status of Compliance .
1	Area Specific Plantation	Yes	Industry has planted 500 trees in industrial premises.
. 2	Domestic Water School Sanitation	Yes	Industry provided water filter for nearest school.
3	Groundwater quality monitoring - Pre monsoon and Post monsoon	Yes	Ground water sample are collected and analyze by NABL approved lab, a parameters are within permissible limits
5	Maintenance of recharge structures	Yes	The industry has been practicing rooftop rain-water harvesting in industrial sheds, Godowns and residential colony through recharge pits. All recharge structure maintain b Industry.
6	Number of Pizometers as per NOC and Water Level Record	Yes .	As per NOC One piezometer is installed.
	Number of Tubewells Borewales as per NOC	Yes	3 Dugwell
• 7 .	Pizometer fitted with AWLRs with telemetrry as per NOC	Yes	As NOC conditions Piezometer fited with AWLR system
8	Quantum of Groundwater as per NOC	Yes	Industry use 87.00 (m3/day) ground water.
9	Recharge through ponds	Not Applicable	
.10	Recycle and reuse of water	Yes .	Industry use treated water from ETP for gardening.
.11	RWH and AR structures implemented  Submission of Compliance report to the	Yes	Industry has implemented rainwater harvesting and artificial recharge through 5 recharge pits and treanches for 138500 (m3/year) recharge quantum
	Region .	Yes	Industry has submitting report to online on NOCAP site in 26 July 2019 and hardcopy to Nagpur offic
[	Water conservation measures	Yes	Water conservation purpose industry
-	Water Security Plan of villages	Not Applicable	water in washing and irrigation
· . F	inclinaca .	Not Applicable	Not applicable  Not applicable
16 N	Vells fitted with water meter and its Record	Yes	In ground water sources water flow meters are fitted and log book : maintaining for daily water

12/03/2020 11:48 AM

Page 4 of 8

# Application for Renew of NOC Issued to Existing Industrial Projects Abstracting GroundWater (Application For Renewal of NOC)

Application Number: 21-4/1166/MH/IND/2017

Applied For Renewal: 1st .

P P					•
	(b). Compliance t	to the Condition prescr	ibed in the NOC - Other		•
	SNo.	Conditions	ș given in NOC	S1	atus of Compliance
	Groundwater Qua	ailability (Please Enclos ality in and Around the Area of Greater Than 2	se a Comprehensive Repor Area) Applicable to Indust 2 Ha (\$)	t / Note on Groundwa ries Consuming Grea	ater Condition / ater Than 500 m3/day and
. [	Not applicable				O PER AN PERSONAL PROPERTY AND AND AND AN ADDRESS AND
	Firm has Propose provide NOC fron	ed to take up Rainwate n the Concern Authorit tails may be furnished.	ificial Recharge Measures or r Harvesting and Recharge ty / Agency where the Harve (Attach Report on Compre	outside the Industria esting Measures are	al Unit Premises, then Proposed, if Already
	Implemented rainv	vater harvesting details is	s attached.		
INDU	STRIAL USE- Sell	f Declaration	Administration in the high production of the state of the	Andrew An	en de la la companya de la la companya de la
aw	ereby certify that the vare that if any part rejected outright.	he data and information f t of the data / information	furnished above are true to the submitted is found to be fals	ne best of my knowled se or misleading at any	ge and belief and I am  / stage, the application will
/irr lea It i	relevant documents ad to rejection of m s to certify that no date. Any such ca	s have been uploaded. In a specification without any case related to ground we see filed against the comp	nents prescribed in the applic am also aware that any false y notice. yater withdrawal/ contamination pany/ project/ unit in respect of ediately brought to the notice	<ul> <li>wrong submission /u</li> <li>on is pending against to a ground water withdream</li> </ul>	ploading of document will the industry/ project/ unit as
I h	ereby undertake th all comply with the	nat in case any environmo decision of such authorit	ental compensation/ penalty ty.	is imposed on the firm	by any statutory authority,
1. App	olication proforma i	is subject to modification	from time to time.	***************************************	
<b>∌</b> /bt	olication is submitte	ed online on website http	://cgwa-noc.gov.in to followin	ng office.	
Regio	onal Director,Cent 01	ral Ground Water Board	d Central Region, N.S. Bui	lding, Civil Lines, N	AGPUR, MAHARASHTRA
3. Inco	omplete application	n will be summarily reject	ted.		
maus	ission of applicat	ion.	signature and seal should	i.	•
IIIIps./		Fee of Rs. 500.00/- (Rupe ) should be attached along	ees Five Hundred Only) submit g with hard copy of application.	tted through NON TAX	RECEIPT PORTAL
roce	ssing Fee:-	•	•		. Мерено, ч. н. с.
3hara Ref. N	t Kosh Transaction o:	1203200000245	•		
Date:-			•	***************************************	•
lote:- nd Re	The Processing Fequired Document	ee is Non-Refundable. A s before Submitting Onl	Applicant should ensure and line Application.	Check Eligibility of S	ubmission of Application
Цог	d conv of application	on required:	. No		

12/03/2020 11:48 AM

Page 5 of 8

#### Government of India Ministry of Jal Shakti Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA)

Applications for Issue of NOC to Abstract Ground Water (NOCAP)

### Application for Renew of NOC Issued to Existing Industrial Projects Abstracting GroundWater (Application For Renewal of NOC)

Application Number : 21-4/1166/MH/IND/2017

Applied For Renewal: 1st

#### **Attached Files:**

1). Site Plan : (Refer: 1 (ii)) No Attachment Found!

2). Certified Revenue Sketch : (Refer: 1 (ii))

No Attachment Found!

3). Reason for Not Applying for Renewal before Expiring NOC : (Refer: 1 (v))

No Attachment Found!

4). Existing NOC : (Refer: 1 (vii))

S.No	· Attachment Name	•	File Name	•	
· · 1	Existing CGWA·NOC	Exisiting CGWA NOC.pdf	The state of the s	• •	

5). Enclose Flow Chart of Activity and Requirement of Water: (Refer: 2)

No Attachment Found!

6). Groundwater Availability Report: (Refer: 4)

No Attachment Found!

7). Details of Rainwater Harvesting / Artificial Recharge Measures : (Refer: 5)

No Attachment Found!

8). Authorization:

S	.No	Attachment Name	• .		File Name	- ;	
• .	1	Authorization letter		Authorization latter:pdf			•

#### 9). Extra Attachment:

No Attachment Found!

	SNo.	Conditions given in NOC	Attachments				
,		• •	S.No.	Attachment Name	File Name		
,	1	Area Specific Plantation	1.	Tree Plantation	Tree Plantation.pdf		
	2.	Domestic Water School Sanitation	No Attac	hment Found!			
	3	Groundwater quality monitoring - Pre monsoon and Post monsoon	.1	Premonsoon lab result	Pre monsoon lab result.pdf		
			2	Post monsoon result	Post monsoon lab report.pdf		
	4 .	Maintenance of recharge structures	1	184-1-1-	Maintenenace of RWH.pdf		

·12/03/2020 11:48 AM

Page 6 of 8

#### Government of India Ministry of Jal Shakti

Ministry of Jai Snakti
Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)
Applications for Issue of NOC to Abstract Ground Water (NOCAP)

## Application for Renew of NOC Issued to Existing Industrial Projects Abstracting GroundWater (Application For Renewal of NOC)

Application Number : 21-4/1166/MH/IND/2017

Applied For Renewal: 1st

	The later of the l	•	S.No.	Attachment Name	File Name
	SNo.	Conditions given in NOC	•	. Atta	chments ·
1). (	Compli	ance to the Condition prescribed in t	he NOC	- Other	
•	16	Wells fitted with water meter and its Record	1	Flow meter	Flow meter.pdf
	15'	Well monitored around the plant premises	No Attac	hment Found!	
	14	Water Security Plan of villages	No Attac	hment Found!	
	13	Water conservation measures	No Attac	hment Found	·
•		the Region	2	Compliance report	Compliance report.pdf
	. 12	Submission of Compliance report to	1	Self Compliance	Self Compliance Receipt.pdf
	· 11	RWH and AR structures implemented	.1	Implemented RWH	Implemented RWH.pdf
	. 10	Recycle and reuse of water	• 1	Recycle and Reuse	Recycle and Reuse.pdf
- Andrewson decay	. 9	Recharge through ponds .	No Attac	chment Found!	
•	8	Quantum of Groundwater as per NOC	1	ground water quantum	Ground water quantum.pdf
	7	Pizometer fitted with AWLRs with telemetrry as per NOC	1	Piezometer	Piezometer.pdf
•	6	Númber of Tubewells Borewales as per NOC	1	Water sources	Water sources.pdf
•	-	Number of Pizometers as per NOC and Water Level Record	1	Piezometer	Piezometer.pdf

#### 12). Bharat Kosh Reciept (Porcessing Fee):

	S.No	- Attachment Name	File Name	•
	, 1 .	Transaction Receipt	Transaction Receipt.pdf	
٠.	Annlication	on with Signations and S. I		

### 13). Application with Signature and Seal:

•	S.No	Attachment Name	File Name	
•	1	Signed application copy	Signed application copy.pdf	
	•			

12/03/2020 11:48 AM

Application for Renew of NOC Issued to Existing Industrial Projects Abstracting GroundWater (Application For Renewal of NOC)

Application Number: 21-4/1166/MH/IND/2017

Applied For Renewal: 1st

Date:

Name & Signature of the applicant

Place:

(With official seal)

Associated User: Gokulmauli Submitted By User: Gokulmauli Submission Date: 12/03/2020

\* In case signed by any authorized signatory, the details of the signatory with the authorization shall be enclosed.

12/03/2020 11:48 AM



#### **GOVERNMENT OF INDIA**

#### MINISTRY OF CORPORATE AFFAIRS

Registrar of Companies, Pune
Pune PMT Building, 3rd Floor, Deccan Gymkhana

#### Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 of the Companies Act, 2013 and rule 8 of the Companies (Incorporation) Rules, 2014]

I hereby certify that GOKUL MAULI SUGARS LIMITED is incorporated on this Nineteenth day of February Two Thousand Fifteen under the Companies Act, 2013 and that the company is limited by shares

The CIN of the company is U15422PN2015PLC154088.

Given under my hand at Pune this Nineteenth day of February Two Thousand Fifteen.



SHINDE AMOL BHAGWAN Assistant Registrar of Companies

Maharashtra

Mailing Address as per record available in Registrar of Companies office:

GOKUL MAULI SUGARS LIMITED 167/17 VIDYA VIHAR APARTMENTS,, PANKHA VIHIR, RAILWAY LINE,, SOLAPUR - 413001, Maharashtra, INDIA



Sub Divisonal Officer Solapur No.2 Solapur

Talathi / Mahasul Karmachari patsansta, 3<sup>rd</sup> floor, Collector Office Compound, Solapur Email ID-sdosolapur2@gmail.com Phone No. 0217-2320385

No.LND/SR/23/2016

Dt:- 06/01/2017

#### SCHEDULE VI-B

(See rule 11C)

#### Form the Sanad to be granted to the holder of land

Whereas, the holder of Gat No. 69,70,71,72 land measuring 297900.00 Sq.M. of the village Tadwal of Taluka Akkalkot Dist. Solapur has intimated commencement of use of the land for sugar industrial purpose, information, under the provisions of section 44A of the Maharashtra Land Revenue Code, 1966;

And whereas, it has been stated by him that he has satisfied himself in a bonafide manner, about applicability and the fulfillment of the conditions specified in sub-section (1) of the said section 44A;

And whereas, the above mentioned intimation and information are true to the best of his knowledge and belief.

And whereas, on verification it is found that the holder of the land aforesaid fulfills all the conditions specified in sub-section (1) of the said Section 44A.

Now, this Sanad is granted to the holder of the land aforesaid subject to the provisions of the said. Code and the rules made there under and the following conditions, namely:

- 1) Assessment. –The holder of the said land in lieu of the assessment here to fore liable in respect of the said land shall pay to Government on the day of 1/8/2016 in each year an annual assessment of Per Sq.mt. Rs.0.15 Paise during the granted period expiring on July as may, from time to time, be fixed by the Collector under the said Code.
- 2) The holder of the said land shall pay to Government, the amount of conversion tax, if any, liable under section 47A of the said Code.
- 3) The holder of the said land shall pay/ all taxes, rates and cases liable on the said land.
- 4) If the holder of the said land contravenes any of the foregoing conditions the Collector may without prejudice to any other penalty to which the user may be liable under the provisions of the Code and rules made there under, continue the said land in the occupation of the holder on payment of such assessment and subject to sub-section (2) of section 329, such fine as he may consider appropriate.

In witness where of the Sub Divisional Officer Solapur No.2 Has hereunto set his hand and the seal of his office on behalf of the Governor of Maharashtra and the applicant has also hereunto set his hand this the day of /12/2016.

Before me

(Signature of Applicant)

Sub Divisional Officer Solapur No.2, Solapur

We declare that the Gokul Mauli sugaras ltd.Gokul Dattatraya Shinde. At Tadwal, Taluka Akkalkot, District Solapur who has signed this Sanad, is to our personal knowledge, the person he represents himself to be, and that he has affixed his signature hereto in our presence.

Witnesesses1) K. R. Bochave

2) A.P. Nimase.

Sub Divisional Officer Solapur No.2, Solapur

Copy to Gokul Mauli sugaras Itd.Gokul Dattatraya Shinde Manging Director At Tadwal Tal Akkalkot, District Solapur.

Copy to The Collector Solapur (RB) for information.

Copy to Tahsildar Akkalkot for information and necessary action.

Copy to Village Officer Tadwal Tal. Akkalkot for information and necessary action.

## उपविभागीय अधिकारी सोलापूर क्रं.२, सोलापूर यांचे कार्यालय

तलाठी व महसुल कर्मचारी पतसंस्था, जिल्हा मध्यवर्ती सहक्ष्मी ब्रेक, धरा मजला जिल्हाधिकारी आवार सोलापूर ई मेल - sdosolapur २@ gmail.com फोन नं. ०२१७-२३२०३८५ क्रं.अ/जमा/बिनशेती/एसआर/२३/२०१६.

दिनांक:- ०६/०१/२०१७.

वाचले

- गोकुळ माऊली शुगर्स लि तर्फे संचालक व्यंकटराव पांडुरंग पाटील,गोकुळ दत्तात्रय शिंदे,अशिष व्यंकटराव 8. पाटील व धिरज गोकुळ शिंदे राहणार तडवळ ता. अक्कलकोट, जि. सोलापूर यांचा अर्ज.
- तहसिलदार अक्कलकोट यांचेकडील पत्र क्रं.जमा/१/कावि/११२७/२०१६, दिनांक ३०.११.२०१६. ₹.
- ख-याखु-या औद्योगिक प्रयोजनार्थ बिनशेती आकारणी बाबत महाराष्ट्र शासन राजपत्र दिनांक १७ नोव्हेंबर १९९४ ₹.
- महाराष्ट्र शासन परिपत्रक क्रं.एनएपी/१०९३/सीआर-५६/एल.२-१९९४ चा महाराष्ट्र अधिनियम क्रमांक २६ व्दारे सुधारणा करण्यात आल्याप्रमाणे म ज म अ संहिता १९६६ कलम ३३८ चे पोटकलम २ खंड १६अ, २४, ३८, ६३ तसेच कलमे ४४अ, ४७अ, ६७, ६९, ११३, ११४, ११५, ११६ अन्वये अकृषिक वापर करुन म ज म अ (जिमनीच्या वापरात बदल व अकृषिक आकारणी) नियम १९६९ मधील तरतुदी.
- शासन परिपत्रक क्रं.एनएपी/१००२/प्रक्र.२१६/ल-९, दि.५ डिसेंबर २००५. 4.
- महाराष्ट्र जमीन महसूल अधिनियम १९६६ चे कलम ४४(अ). ξ.
- सहाय्यक संचालक नगर रचना सोलापूर यांचेकडील रेखाकंन/शेतीपुरक उदयोग (साखर कारखाना) मौजे 6. तडवळ/ता.अक्कलकोट/गट नंबर ६९ पै,७०,७१ व ७२/संसनरसो-३९४८ दि ११.११.२०१६ तात्पुरती मंजूरी
  - सहाय्यक संचालक नगर रचना सोलापूर यांचेकडील रेखाकंन/शेतीपुरक उदयोग (साखर कारखाना) मौजे तडवळ/ता.अक्कलकोट/गट नंबर ६९ पै,७०,७१ व ७२/संसनरसो-४३०३ दि १९.१२.२०१६ अंतीम मंजूरी.

विषय: - मौजे तडवळ ता अक्कलकोट येथील गट नं. ६९ पै, ७०, ७१ व ७२ क्षेत्र २,९७,९००.०० चौ मि या जिमनीस शेतीपुरक उदयोग (साखर कारखाना,डिस्टलरी, को.जन.)या ख-याखु-या औद्योगिक वापरार्थ असलेल्या जिमनीस अकृषिक आकारणी लागू करणेबाबत.



आदेश.

ज्या अर्थी, गोकुळ माऊली शुगर्स तर्फे गोकुळ दत्तात्रय शिंदे राहणार तडवळ ता. अक्कलकोट, जि. सोलापूर यांनी या कार्यालयाकडे अर्ज सादर करून मौजे तडवळ ता.अक्कलकोट जिल्हा सोलापूर येथील गट नं. ६९ पै, ७० पै, ७१ व ७२ क्षेत्र २,९७,९००.०० चौ मि या जिमनीस (साखर कारखाना,डिस्टलरी, को.जन.) या ख-याखु-या औद्योगिक वापराकरिता बिनशेती आकारणी करुन सनद मागणी केली आहे.

ज्याअर्थी तहसिलदार अक्कलकोट यांनी त्यांचेकडील पत्र क्रं.जमा/१/कावि/११२७/२०१६, दिनांक ३०.११.२०१६ अन्वये सविस्तर चौकशी करुन विषयांकित जिमनीमध्ये औद्योगिक प्रयोजनार्थ बिनशेती परवानगी देणेबाबत अहवाल सादर केलेला आहे.

ज्या अर्थी, अर्जदार यांनी सदर जिमनीवर (साखर कारखाना,डिस्टलरी, को.जन.) प्रकल्प हा ख-याखु-या औद्योगिक प्रयोजनार्थ वापर सुरु करणेसाठी खालीलप्रमाणे कार्यालयाकडून प्राप्त परवानग्या/नाहरकत दाखल्यामध्ये नमूद अटी व शर्ती पाळणे व त्याची अंमलबजावणी करणे बंधनकारक राहील.

१.सहाय्यक संचालक नगर रचना सोलापूर यांचेकडील दिनांक ११.११.२०१६ (तात्पुरती मंजूरी) व दिनांक १९.१२.२०१६ (अंतीम मंजूरी) मध्ये दिलेल्या अटी शर्तीचे काटेकोरपणे अंमलबजावणी करणे बंधनकारक आहे.

२. महाराष्ट्र प्रदुषण नियंत्रण मंडळ यांचेकडील दिनांक १६.०७.२०१६ रोजीचे पत्र.

- ३. कार्यकारी अभियंता महावितरण, ग्रामीण विभाग सोलापूर यांचेकडील दिनांक २९.११.२०१६ रोजीचे नाहरकत.
- र्४.कीयकारी अभियंता, सार्वजनिक बांधकाम विभाग सोलापूर यांचेकडील दिनांक ३०.०९.२०१६ रोजीचे पत्र
- ५. जिल्हा आरोग्य अधिकारी, जिल्हा परिषद सोलापूर यांचेकडील दिनांक ३०.०८.२०१६ नाहरकत.

दि.ग्रामपंचायत तडवळ यांचेकडील दिनांक ३०.०६.२०१५ रोजीचे ना-हरकत दाखला.

्रज्याअर्थी सदर जिमनीत ख-याखु-या औद्योगिक प्रयोजनार्थ अकृषिक आकारणी लागू करुन सनद देण्यास हरकत नाही असे वरीलप्रमाणे कळविले आहे.

क्षात्र किसानगर रत्याअर्थी मी उपविभागीय अधिकारी सोलापूर क्रं.२, सोलापूर, मौजे तडवळ ता अक्कलकोट येथील गट नं. ६९ पै, ७०, ७१ व ७२ मधील उप गटाचे खाली नमुद केले प्रमाणे क्षेत्र, ज्याचा उल्लेख यापुढे उपरोक्त जिमन असा केला आहे.

	अनं⊹	गट नंबर	🏃 क्षेत्र चौमीध्ये	-
eşik e serile ili ili ili ili ili ili ili ili ili	<b>१.</b> 🏋	.१. ग.नं.६९/१/२/ब	8700.00	٠,
		२. ग.नं.६९/२/अ	१६५००.०० हिं	्राङ्
८ स्वये व्हरण क्रमण शास्त्रीस	F1.000.00		₹8400.00 € 12:	भोदक
क हैर इ.स. १ पीया एवं का स्वास्थ्या	भू विकास	एकूण :	४५२००.००	7.5 7
र मानक विस्तापत सुधित हो।			१५०४००.०० ः	. ग्र
इ ाज्यम कामा हामधी महोल.	l .		१२५००.00	क्रलई १
प्रमृहे हैं इस्ताहर है देश हैं के वि	1	16.	१६२९००.००	\$ p
विकास देवा कि सारवास्त्र			,,,	7757
र अया उपरोक्त जमीर पापत		, , , , , ,	70700.00	re f
ात्या ने प्रकारचा इतर बाभ आतेच	, জিলা দেক	िं <b>र</b> ्ग.मं.७१/३ <sup>००६</sup> ५००	88500,00	म्हला।
ाजनाय है र अथवा भारताय	11. 17. 18	एकूण हैं हैं । एक एक	44800.00	, ভক্ষ
Mark Contract	8.	१. ग.नं.७२/२	१४२००.००	i 13 15
न सर्वार्थेष्ट अधृहमास्ट्रांस अर्थमाते			११९००.00	dizb
.A74.1.37R.	4 7 Tr	३. ग.नं.७२/१/ब	८१००.००	SP F
		एकूण	38200.00	
	एकूण ए	कंदर	२९७९००.०० चौमी	



275715

ns from

1 SUPPLIES (2-) েছ ুিল্ল ি उपरोक्तः जिमनीत (साखर कारखाना,डिस्टलरी, को.जन.) प्रकल्प या ख-याखु-या औद्योगिक प्रयोजनार्थ बिनशेती वापर करणकामी महाराष्ट्र शासन परिपत्रक क्रं.एनएपी/१०९३/सीआर-५६/एल.२-१९९४ चा महाराष्ट्र अधिनियम क्रमांक २६ व्दारे सुधारणा करण्यात आल्याप्रमाणे महाराष्ट्र जमीन महसूल अधिनियम १९६६ कलम ३३८ चे पोटकलम २ खंड १६अ, २४, ३८, ६३ तसेच कलमे ४४अ, ४७अ, ६७, ६९, ११३, ११४, ११५, ११६ अन्वये अकृषिक वापर करुने महाराष्ट्र जमीन महसूल नियम १९६६ः(जप्तिनीच्याःवापरातःबदलःवाअकृषिकःआकारणी)ः मधीलः तरतुदीः व महाराष्ट्रः जमीन महसूल अधिनियम १९६६ चे कलम ४४(अ) मधील तरत्दीनुसार वरील जिमनीस प्रति चौ.मी. रु.०.१५ पै. प्रमाणे औद्योगिक अकृषिक आकारणी लाग् केल्याचे ्ञआदेश, खालील शर्ती व अटीस अधीन राहन पारित करीत आहे.

tyngu, sijs upste

in his offin like

7: 125

#### शर्ती व अटी.

- अर्जदार यांनी प्रतिवर्षी उपरोक्त जिमनीचा औद्योगिक प्रयोजनार्थ होणारा बिनशेती आकार रक्कम रु.४४६८५/- व त्यावरील उपकर शासनाकडे भरणा करावा.
- अर्जदार यांनी सर्व संबंधित प्राधिकरणाकडील सर्व अटी व शर्तीचे पालन करणे बंधनकारक राहील.
- ३. सहायक संचालक नगर रचना यांनी दि ११.११.२०१६ (तात्पुरती मंजूरी) व दिनांक १९.१२.२०१६ (अंतीम मंजूरी) मध्ये दिलेल्या अटी शर्तीचे काटेकोरपणे अंमलबजावणी करणे बंधनकारक आहे.
- ४. अर्जदार यांनी, अकृषिक कर व त्यावरील स्थानिक उपकर व इतर तद्अनुषंगिक करात वेळोवेळी होणारे बदल प्रमाणे जिमनीच्या वापराच्या प्रयोजनामध्ये होणारे बदलास अनुसरुन करण्यात येणारी आकारणी अर्जदारावर बंधनकारक राहील. अशी आकारणी दरवर्षी ३१ जुलै पूर्वी शासनास अदा करणे बंधनकारक राहील.
- ५. उपरोक्त जमीन ही ज्या प्रयोजनार्थ बिनशेती वापरार्थ अकृषिक आकारणी करण्यात आलेली आहे त्याच प्रयोजनासाठी त्याचा वापर करण्यात यावा सदर जमीनीचा वापर अन्य कारणाकरीता करता येणार नाही.
- अर्जदार यांनी संबंधित अग्नीशामक विभागाकडून आवश्यक ते नाहरकत दाखला प्राप्त करुन घेवून त्यांची प्रत इकडे सादर करावी तसेच/नियमानुसार आवश्यक अग्नि प्रतिबंधक व्यवस्था स्वखर्चाने करणे आवश्यक आहे.
- ७. अर्जदार यांनी मा संचालक आदयोगिक सुरक्षा आणि आरोग्य यांचेकडून आवश्यक असल्यास परवानगी प्राप्त करुन घेवून त्याची प्रत इकडे सादर करावी. 25.00.00 7 TITES/17 F
- ८. कलम ४४ अ पोटकलम ३ खंड च्या उपखंड १ व्दारे विहित करणेत आलेल्या दहाहजार रुपये एवढया कमाल शास्तीस अधिन राहून ज्या तारखेस जमीनीच्या वापरातील बदलास प्रारंभ झाला त्या तारखेची सुचना देण्यात आणि त्य कलमाच्या पोटकलम २ व्यारे आवश्यक असलेली इतर माहिती सादर करण्यात कसूर केल्याबददल कसुर करण्यात आलेल्या कालावधीकरिता देण्यात यावयाची शास्तीची रक्कम ही अकृषिक आकारणीच्या २० पट इतक रक्कम भरणा करावी लागेल.
- ९. अर्जदारानी दिनांक २.१२.२०१६ रोजी केलेल्या क्षतीपूर्ती बंधपत्रास अनुसरुन उपरोक्त जमीनीच्या मालकी हक्काबाबत, इतर हक्कातील नमूद व्यक्ती/संस्था यांचे हक्क/येणे देणेबाबत अथवा उपरोक्त जमीनीच्या धारणाप्रकाराबाबत कोणत्याही दिवाणी अथवा फौजदारी न्यायालयामध्ये किंवा महसूल न्यायालयामध्ये केस/प्रकरण दाखल झालेस अथवा उपरोक्त जमीनीबाबत कोणत्याही न्यायालयामध्ये कसल्याही प्रकारचा वाद/तंटा अथवा केस दाखल झालेस व कोणत्याही प्रकारचा इतर वाद झालेस त्याची संपूर्ण जबाबदारी अर्जदाराची राहील व त्याची क्षती उप विभागीय अधिकारी कार्यालय क्रं २ अथवा शासनास पोहोचणार नाही व होणा-या दिवाणी व फौजदारी व आर्थिक नुकसानीस अर्जदार सर्वस्वी जबाबदार राहतील
- १०. केंद्र शासनाच्या पर्यावरण व वन मंत्रालुय यांचेकडील दिनांक १४ सप्टेंबर २००६ रोजीच्या नोटीफीकेशननुसार अभिप्रेत असलेल्या परवानग्याची आवश्यकता असलेस बांधकाम सुरु करणेपूर्वी अर्जदारांनी घेणे आवश्यक आहे.

प्रत:-गोकुळ माऊली शुगर्स लि तर्फ संचालक, व्यंकटराव पांडुरंग पाटील,गोकुळ दत्तात्रय शिंदे,अशिष व्यंकटराव पाटील, धिरज गोकुळ शिंदे अध्य

तहसिलदार अक्कलकोट यांचेकडे माहितीसाठी व पुढील कार्यवाहीसाठी. प्रत:-

गाव कामगार तलाठी तडवळ ता अक्कलकोट यांना महितीसाठी व पुढील कार्यवाहीसाठी २/- प्रस्तुत आदेशाची नोंद गावदप्तरी घेऊन दरवर्षी अकृषिके सारा व त्यावरील उपकर वसुलात आणावार ११

मा जिल्हाधिकारी सोलापूर यांना माहितीसाठी सविनय सादर..

ि (संजीव जाधव) उपेविभागीय अधिकारी सोलापुर क्रं.२, सोलापुर

8 6 W. Oak.

अधिकारी अधिकारी



## **Quality Council of India**



National Accreditation Board for Education & Training

## CERTIFICATE OF ACCREDITATION

### **Equinox Environments (India) Pvt. Ltd.**

F-11, Namdev Nest, 1160-B, 'E' Ward, Sykes Extension, Opp. Kamala College, Kolhapur – 416001, Maharashtra

Accredited as **Category - A** organization under the QCI-NABET Scheme for Accreditation of EIA Consultant Organizations: Version 3 for preparing EIA-EMP reports in the following Sectors:

Sl. No.	Sector Description	Sector (as per)		
		NABET	MoEFCC	Cat.
1	Mining of minerals including opencast / underground mining	1	1 (a) (i)	Α
2	Offshore and onshore oil and gas exploration, development & production	2	1 (b)	Α
3	Thermal power plants	4	1 (d)	В
4	Metallurgical industries (ferrous & non-ferrous) - secondary only	8	·3 (a)	В
5	Asbestos milling and asbestos based products	12	4 (c )	Α
6	Pesticides industry and pesticide specific intermediates (excluding formulations)	17	5 (b)	Α
7	Petro-chemical complexes (industries based on processing of petroleum fractions & natural gas and/or reforming to aromatics)	18	5 (c )	Α
8	Petrochemical based processing (processes other than cracking &reformation and not covered under the complexes)	20	5 (e)	А
9	Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)	21	5 (f)	Α
10	Distilleries	22	5 (g)	Α.
11	Sugar Industry	- 25	5 (j)	В
12	Common hazardous waste treatment, storage and disposal facilities (TSDFs)	32	7 (d)	A
13	Bio-medical waste treatment facilities	32 A	7 (da)	В
14	Common municipal solid waste management facility (CMSWMF)	37	7 (i)	В
15	Townships and Area development projects	39	8 (b)	В

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RA AC minutes dated May 31, 2019 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/19/1021 dated August 02, 2019. The accreditation needs to be renewed before the expiry date by Equinox Environments (India) Pvt. Ltd., Kolhapur, following due process of assessment.

Sr. Director, NABET Dated: August 02, 2019

Certificate No.
NABET/ EIA/1821/ RA 0135

Valid till 21.10.2021

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.





### GOKUL MAULI SUGARS LIMITED

"Mauli Group" 4th floor, Fortune Plaza, Thube Park, Near Sancheti Hospital. Shivaji Nagar, PUNE - 411 005 (India)

Tel: 020-2553 9999, 2553 3336 Email: office@gokulmauli.com CIN NO.: U15422PN2015PLC154088

REF NO.: GMSL / 100 /2021-22

DATE: 23.07.2021

#### **DECLARATION**

This is to state that the 'Executive Summary & Draft EIA Report' submitted herewith has been prepared in respect of expansion of Sugar Factory from 4500 TCD to 7500 TCD, Cogen Plant from 14.85 MW to 30 MW & establishment of 110 KLPD Molasses (B & C Heavy)/Cane Juice based Distillery Unit by **Gokul Mauli Sugars Ltd. (GMSL)**, located at Gat No. 69, 70, 71, 72, 73, 76/1/2, 488, 493, 494, Tadwal, Tal.: Akkalkot, Dist.: Solapur, Maharashtra State.

Information, data and details presented in this report are true to the best of our knowledge. Primary and secondary data have been generated through actual exercise conducted from time to time as well as procured from the concerned Govt. offices/ departments has been incorporated here subsequent to necessary processing, formulation and compilation.

Shri Ashish V. Patil

(Director)

Gokul Mauli Sugars Ltd. (GMSL)

Tadwal, Tal.: Akkalkot, Dist.: Solapur,

Maharashtra

**Project Proponent** 

Dr. Sangram P. Ghugare

(Chairman & Managing Director)

M/s. Equinox Environments (I) Pvt. Ltd.,

(EEIPL)

F-11, Namdev Nest 1160–B, 'E' Ward Sykes Extension opp. of Kamala College,

Kolhapur 416 001

**Environmental Consultant**