



P-539-MSML-DISTILLERY-22020

(Revision - 01)

**SUMMARY ENVIRONMENTAL IMPACT ASSESSMENT
(EIA) REPORT
(IN ENGLISH AND MARATHI)**

FOR

**ESTABLISHMENT OF 45 KLPD MOLASSES/CANE JUICE
BASED DISTILLERY**

BY

MUKTESHWAR SUGAR MILLS LTD.

**DHAMORI (BK), TAL.: GANGAPUR, DIST.: AURNAGABAD,
MAHARASHTRA**

PREPARED BY



EQUINOX ENVIRONMENTS (I) PVT. LTD.

Environmental; Civil & Chemical Engineers, Consultants and Analysts, Kolhapur (MS)

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An ISO 9001 : 2015 & QCI - NABET Accredited Organization



JUNE - 2020



MPCB/2020-21/123

Dtd 15/07/2020

To,

The Member Secretary

Maharashtra Pollution Control Board (MPCB),
3rd & 4th Floor, Kalpataru Point,
New Circle, Nkon (E.L.),
Mumbai - 400 022

Regd. Office: 210, The Pentagon,
Shahu College Road, Next to Satara Road,
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CIN No. U154240B2007PLC29478
GST No. 27AA1CM9672M177

Sub.: Application for 'Public Hearing' to be conducted for proposed 45 KLPD molasses/cane juice based distillery by - **Mukteshwar Sugar Mills Ltd. (MSML)**, located at Gat No 190, 191, 192, 194, 195, 196, 197, 198, A/p Dhamori (BK), Tal. Gangapur, Dist. Aurangabad, Maharashtra State.

Ref.: 'Terms of Reference' (ToR) granted vide letter no. IA-J-11011/24-2020-IA-II(I) dated 30.04.2020. Copy enclosed at **Enclosure - 1**.

Dear Sir,

We - "**Mukteshwar Sugar Mills Ltd.**" have planned to establish 45 KLPD molasses/cane juice based distillery at Gat No. 190, 191, 192, 194, 195, 196, 197, 198, A/p Dhamori (BK), Tal. Gangapur, Dist. Aurangabad, Maharashtra State.

Accordingly, an application in Form - 1 format was submitted to the 'Ministry of Environment, Forest and Climate Change (MoEFCC), New Delhi' for grant of ToR's on 24.01.2020. Subsequently, standard ToR's were granted on 30.04.2020. Refer **Enclosure - 1** for copy of ToR letter. In the ToR letter, directions were given to conduct Public Hearing w.r.t. our proposed distillery project. Now, in order to conduct Public Hearing, we hereby are submitting all the relevant documents and information to your office.

Along with 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 as amended vide Notification No. 3067 (E) dated December 01, 2009 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 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. 25,000/- (Rs. Twenty Five Thousand only) Hearing No. drawn on dated towards the Public Hearing charges, as decided by the govt., has been presented herewith.

Please do the needful and oblige.

Thanking you.

Your faithfully

for **Mukteshwar Sugar Mill Ltd.**


A.B. Patare

Chief Executive Officer




10/08/2020
MAHARASHTRA POLLUTION CONTROL BOARD
Kalpataru Point, 3rd Floor, New Circle,
Opp. Cine Planet Cinema, Nkon (E.L.),
Mumbai - 400 022
Tel: 24010437 / 24020781

Encl.: 1. Executive Summary of project
2. A Draft EIA Report
3. A D.D. bearing no. dated/drawn on



MUKTESHWAR SUGAR MILLS LTD.

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CIN No. U15424OB2007PLC29478
GST No. 27AAECM9672M1ZP

MFG/2020-21/123

Dtd- 15/07/2020

To,

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A.B. Patare

Chief Executive Officer



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2. A Draft EIA Report
3. A D.D. bearing no. dated drawn on

ACKNOWLEDGEMENT

I am extremely thankful to the management of **Mukteshwar Sugar Mills Ltd. (MSML)**, located at Gat No.190, 191,192, 194,195,196, 197, 198, Dhamori (BK), Tal.: Gangapur, Dist.: Aurangabad, in Maharashtra for entrusting assignments of the EIA study and Environmental Clearance procurement in respect of proposed establishment of 45 KLPD molasses/cane juice based distillery. It was indeed a great experience to have interactions, involvement and discussions with the management and technical experts of MSML. Their knowledge and co-operation as well as support given during the draft EIA Report preparation impressed me a lot. Sharing of thoughts and planning with Mr. Sachin Nikam Chairman of MSML was always an interesting thing during the course of assignment. Thank you very much sir!

Prompt response as well as help from Mr. Annasaheb B. Patare Chief Executive Officer of MSML during providing certain information, documentation and data related to the production, processes and details of manufacturing is duly appreciated. Also, the co-operation of staff of MSML is duly acknowledged here.

I must thank our Functional Area Experts Sulakshna Ayarekar, Yuvraj Damugade, Jaydeep Patil, Sandip Mangalekar & Anup Gargate, as well as our other Empanelled Functional Area Experts Dr. J. B. Pishte, Mr. Vinod Sahasrabuddhe, Mr. Vinaykumar Kurakula, Mr. Balkrishna Lole & Mr. Rahul Deshmukh for their able and timely contributions in the draft EIA studies and report preparation. Despite their busy schedules in the universities, colleges and own professions, they were always available, on time, for the necessary inputs; field visits and discussions.

My staff of the EIA Study Cell here must receive a commendation and credit for all the in-house management and inputs during the monitoring, report preparation and presentations. Our other In-house experts of various functional areas have also contributed their best.

Last but not the least, the contributions from my non-technical staff and laboratory team is also duly appreciated here.



DR. SANGRAM GHUGARE

Chartered Engineer
Chairman & MD

Equinox Environments (India) Pvt. Ltd. (EEIPL); Kolhapur

CAUTION

The information, data, figures, flow charts and drawings in respect of manufacturing processes, mass balance, chemical reactions, production layouts and instrumentation details included in this Environmental Impact Assessment (EIA) Report are the sole property of **Mukteshwar Sugar Mills Ltd. (MSML)**, located at Gat No.190, 191,192, 194,195,196, 197, 198, Dhamori (BK), Tal.: Gangapur, Dist.: Aurangabad, in Maharashtra State. Some of the products, reactions and process methodologies may be patented.

The style and format of this Draft EIA Report as well as the data, processing and presentations of various environmental features, environmental management planning; designs; drawings; plates; calculations, demonstrations on attributes towards pollution control and abatement aspects etc. are the intellectual property of **M/s. Equinox Environments (India) Pvt. Ltd. (EEIPL); Kolhapur.**

All maps (District, State, Country etc.) enclosed in this reports for referring information are purely indicative, graphical & not to scale.

Under no circumstances, any part of this report may be used; reproduced; translated; recorded or copied in any form and manner except by the Govt. authorities requiring this report for taking decisions, based on details and information provided in same, during the Environmental Clearance procedure carried out as per EIA Notification No. S.O. 1533 (E) dated 14.09.2006 as amended from time to time.

Equinox Environments (India) Pvt. Ltd. (EEIPL); Kolhapur
Environmental, Civil and Chemical Engineers, Consultants & Analysts
ISO 9001: 2015 & QCI-NABET accredited Organization



CERTIFICATE

Declaration by Expert contributing to the Draft EIA in respect of proposed establishment of 45 KLPD molasses/cane juice based distillery by **Mukteshwar Sugar Mills Ltd. (MSML)**, located at Gat No.190, 191,192, 194, 195, 196, 197, 198, Dhamori (BK), Tal.: Gangapur, Dist.: Aurangabad, in Maharashtra State.

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

Project No. P-539-MSML-DISTILLERY-22020

EIA Coordinators



Name : Dr. Sangram Ghugare





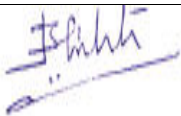


Period of Involvement : October 2019 – July 2020


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	October 2019 to July 2020 <ul style="list-style-type: none">• Study of process and operations• Site visit and finalization of water sampling locations• Preparation of water balance and identification of wastewater generation.• Evaluation of water pollution & control management• Identification of impacts, suggestion and finalization of mitigation measures• Study on Treatment of effluents through existing ETP and to be upgraded under proposed expansion was contemplated and designs were done accordingly.	
2	EB	Sulakshna Ayarekar & Mr. Anup Gargate	October 2019 to December 2019 <ul style="list-style-type: none">• Selection of Site for conducting ecological & biodiversity status of the study region.• Interaction with Govt. offices and agencies for certain secondary data and information pertaining to region specific issues• Study of terrestrial fauna by sighting, noting pug-marks, calls, sounds, droppings, nests and burrows etc.• Interaction with local residents for obtaining information about various	

Sr. No.	Functional Area	Name of the expert/s	Involvement (Period & Task)	Signature
			<p>species of animals and birds usually observed their existence and importance in the study region.</p> <ul style="list-style-type: none"> • Review of rules, legislation and criteria towards knowing and understanding inclusion in the study region of any eco-sensitive zones, wild life sanctuary. • Collection, compilation and presentation of the data as well as incorporation of same in to the EIA report. 	
3	SE	Mr. Rahul Deshmukh	<p>October 2019 to December 2019</p> <ul style="list-style-type: none"> • 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. • Compilation of primary and secondary data and its inclusion in EIA report. 	
4	AP	Mr. Yuvraj Damugade	<p>October 2019 to December 2019</p> <ul style="list-style-type: none"> • Involved in detailed study of mass balance w.r.t. raw materials & products especially from view point of process emissions. • Site visit and finalization sampling locations. • Planning & identifying the most appropriate air pollution control equipment from view points of efficiencies, capital as well as O & M cost & suitability. • Identification of impact and suggesting the mitigation measures. 	
5	AQ		<p>October 2019 to December 2019</p> <ul style="list-style-type: none"> • Designing of Ambient AQM network for use in prediction modeling and 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. 	


Sr. No.	Functional Area	Name of the expert/s	Involvement (Period & Task)	Signature
6	HG	Dr. J.B. Pishte	<p>October 2019 to December 2019</p> <ul style="list-style-type: none"> Hydro geological studies, data processing; analysis and evaluation, Ground water table measurement and monitoring network methodology preparation. 	
7	GEO		<ul style="list-style-type: none"> 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. 	
8	RH	Mr. Vinod Sahasrabudhe	<p>October 2019 to December 2019</p> <ul style="list-style-type: none"> All the necessary literature for processes storage of hazardous chemicals was studied before visit. Site visit and Verification of adequacy of on-site emergency preparedness plan for proposed unit was done. Identification of probable emergencies and procedures for preparedness for handling the same was verified. Worst case analysis by using ALOHA, Ware house safety measures, suggestion of mitigation measures. 	
9	NV	Mr. Vinay Kumar Kurakula	<p>October 2019 to December 2019</p> <ul style="list-style-type: none"> Verification of noise levels Monitoring (both work zone and ambient) in the industrial premises and study region Finalization and verification of sampling locations, ambient noise monitoring stations and the data collected. 	
10	LU		<ul style="list-style-type: none"> Land use land cover mapping using NRSC Satellite image. Satellite image processing, Image classification, Technical analysis and study for setting up of facility, planning of storage facility. 	
11	SHW		<ul style="list-style-type: none"> Detailed study of manufacturing process and mass balance. Solid wastes generation in different steps of manufacturing was identified and their quantification done was checked. Identification of various hazardous wastes generated through manufacturing process. 	

Sr. No.	Functional Area	Name of the expert/s	Involvement (Period & Task)	Signature
			<ul style="list-style-type: none"> Practices of storage and disposal of HW its impact and mitigation measures. 	
12	SC	Mr. B. S. Lole	<p>October 2019 to December 2019</p> <ul style="list-style-type: none"> Involvement physical analysis & characterization of the soils. Identification of Impact and its mitigation measures. Interpretation of soil analysis, results and data including comparison of same with standard soil classification. Collection, study and evaluation of soil information from data obtained from secondary sources & its interpretation. 	

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 establishment of 45 KLPD molasses/cane juice based distillery by **Mukteshwar Sugar Mills Ltd. (MSML)**, located at Gat No.190, 191,192, 194, 195, 196, 197, 198, Dhamori (BK), Tal.: Gangapur, Dist.: Aurangabad, in 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. & Issue Date: NABET/EIA/1821/ RA 0135 dated 02.06.2019

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**Summary of EIA Report For
Establishment of 45 KLPD Molasses/Cane Juice Based Distillery
By
Mukteshwar Sugar Mills Ltd. (MSML)**

Gat No.190, 191,192, 194,195,196, 197, 198, Dhamori (BK), Tal. Gangapur, Dist.
Aurangabad, in Maharashtra State.

1) The Project

Mukteshwar Sugar Mills Ltd. (MSML) is located at Gat No.190, 191,192, 194,195,196, 197, 198, Dhamori (BK), Tal. Gangapur, Dist. Aurangabad, in Maharashtra State. They have planned to establish 45 KLPD molasses/Cane Juice based Distillery unit in the existing 2,500 TCD Sugar Factory.

As per the provisions of “EIA Notification No. S.O. 1533 (E)” dated 14.09.2006; and amended EIA Notification dated 13.06.2019 (Notification No. S.O. 1960 (E)) thereto issued by the MoEFCC; New Delhi. Accordingly, proposed distillery project is listed as activity **5(g)-Distillery; Category ‘B’**. But, in absence of SEAC/ SEIAA committee, an application in Form I format was submitted to MoEFCC; New Delhi & granted standard ToRs on 30.04.2020.

Proposed distillery project will be formulated in such a fashion and manner so that the utmost care of Safety Norms and Environment Protection shall be taken. Details of capital investment are given in table 1.

Table 1 Project Investment Details

No.	Industrial unit	Capital Investment (Rs. Cr.)	
		Existing	Proposed
1	Sugar Factory	Rs. 61.08 Cr.	--
2	Distillery Unit	--	Rs. 41.77 Cr.
	Total	Rs. 102.85 Cr.	

2) The Place

Proposed project will be implemented in the existing premises of MSML. Total land acquired by the industry is 2,40,000 Sq. M. (24.0 Ha). Total built up area under existing sugar factory & proposed distillery unit is 61,269.05 Sq. M. Detailed area break-up is presented at Table 2.

Table 2 Area Break up

No.	Description	Area (Sq. M.)
A	Built-up Area	
	i. Existing Sugar Factory	15,608.03
	ii. Area under colony, Parking & other amenities	29,003.23
	iii. Proposed Distillery Unit	5477.78
	Total	50,089.04
B	Area Under Roads	
	i. Existing	27,566.2
	ii. Proposed	1593.55
	Total	29159.75
C	Green belt area (Norm: 33% of Total Plot)	
	i. Existing Green Belt (23.5% of Total Plot)	56,297.55
	ii. Proposed Green Belt (9.5% of Total Plot)	22,785.39

No.	Description	Area (Sq. M.)
	Total	79,082.94
D	Open Area	81,668.27
E	Total Plot Area(A+B+C+D)	2,40,000.0

3) The Promoters

MSML promoters are well experienced in the field of sugar factory & distillery unit & have made thorough study of entire project planning as well as implementation schedule. Name and designation of the promoters are as under-

Table 3 List of Promoters

No.	Name	Designation
1.	Mrs. Asha B. Nikam	Chairman
2.	Mrs. Maithilli S. Nikam	Director
3.	Mrs. Shriya D. Nikam	Director
4.	Mrs. Lata M. Sharma	Director

4) The Products

The details of products as well as by-products in existing sugar & proposed molasses/cane juice based distillery activities has been presented in table below.

Table 4 Product & By-product for Integrated Complex

Industrial Unit	Product & By-product	Unit	Quantity
^sExisting Sugar Factory (2500 TCD)	Sugar(11%)*	MT/D	275
	By-Product		
	Bagasse (29%)*	MT/D	725
	Press Mud (4%)*	MT/D	100
	Molasses (4%)*	MT/D	100
Proposed Distillery Unit (45 KLPD)	Products		
	Rectified Spirit (RS)/Extra Neutral Alcohol (ENA)/Ethanol	KLPD	45
	By-Product		
	Fusel Oil	MT/D	0.09
	CO ₂	MT/D	34
	Compost	MT/D	36

NOTE- \$: Values as per valid CTO, *: Percent of Cane Crushed.

5) THE PURPOSE

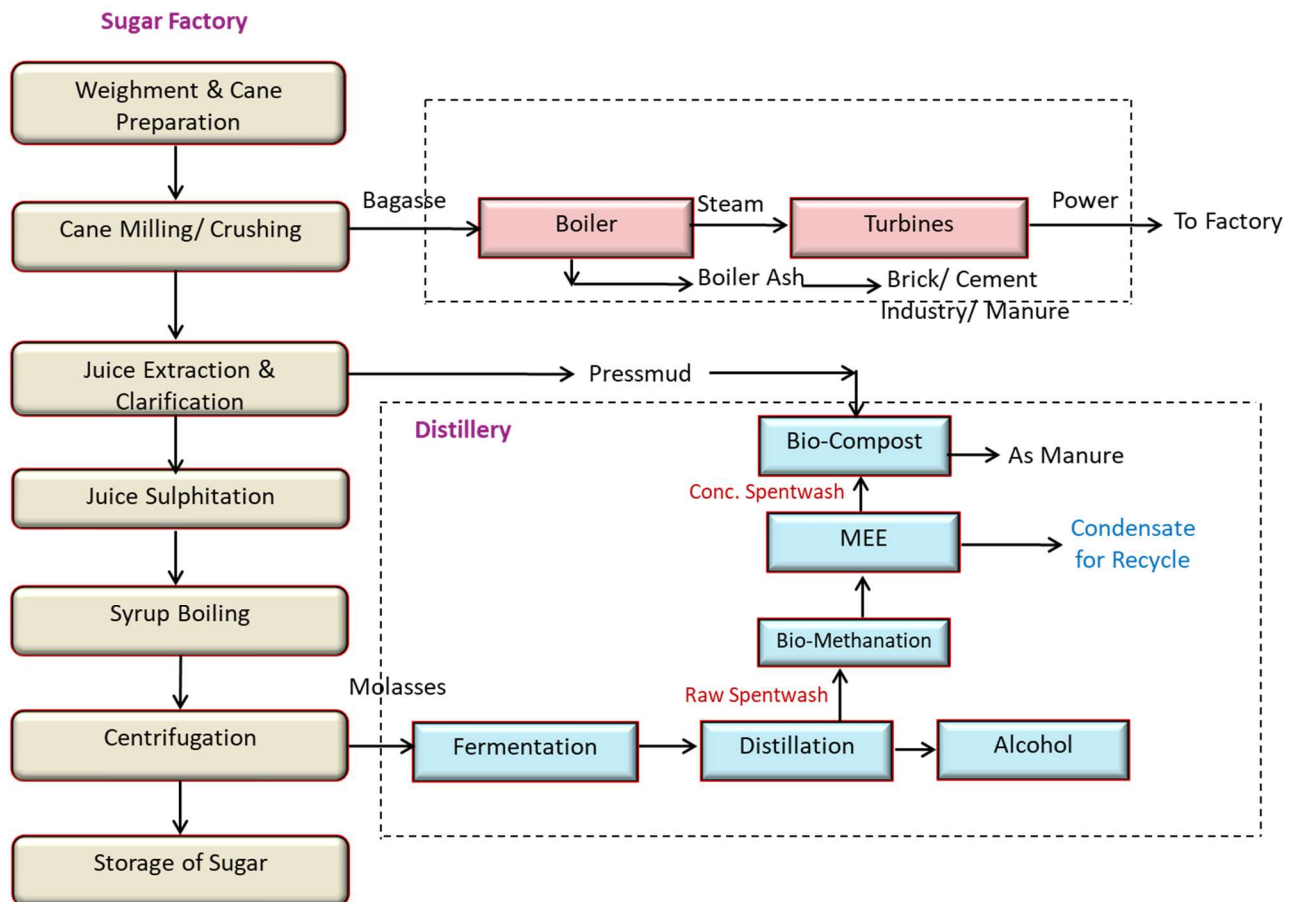
Sugarcane potential, agro-climatic conditions, cost of conversion & overheads etc are the major deciding factors for fixing the crushing capacity of sugar factory. Today, sugar factories cannot survive in healthy condition on a single product i.e. sugar. Thus, it is essential to develop sugar factory 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 MSML decided for establishment of distillery.

6) MANUFACTURING PROCESS

Detailed manufacturing process and flow diagram for sugar factory & distillery unit are given in Chapter 2 of EIA report. Manufacturing process of integrated project complex is presented at Figure 1.

Figure 1 Integrated Manufacturing Process Operations



7) ENVIRONMENTAL ASPECTS

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

A) Water Use and Effluent Generation

a. Water Use

Total water requirement for existing sugar factory will be 955 M³/D (As per consent 390 M³/D- fresh water). Out of total water requirement, 866 M³/Day will be Cane Condensate, 51 M³/Day will be treated water from ETP & 38 M³/Day will be fresh water taken from Jayakwadi dam.

Total water required for proposed distillery unit during crushing season will be 514 M³/Day. Out of total water requirement, 366 M³/Day will be treated water from CPU, 116 M³/Day will be Cane Condensate, 20 M³/Day will be treated water from ETP & 12 M³/Day will be the fresh water taken from Jayakwadi dam.

Total water required for proposed distillery unit during non-crushing season will be 514 M³/Day. Out of total water requirement, 366 M³/Day will be treated water from CPU & 148 M³/Day will be the fresh water taken from Jayakwadi dam.

Details of water usage in sugar factory & distillery unit is presented in Table 5 & 6.

Table 5 Details of Water Consumption in Existing Sugar Factory

No.	Description	Water Consumption (M ³ /Day)	
		Existing Sugar	Existing Sugar – As per consent
1	Domestic	#12	#20
2	Industrial		
a)	Process	*660	#350
b)	Cooling Make up	*82	#20
c)	Boiler Make up	*120	
d)	Lab & Washing	*3	--
e)	DM Plant	#26	--
f)	Ash quenching	*1	--
	Industrial Total	892 (*866+#26)	#370
	Recycle	97%	--
3	Green Belt	Ω51	--
	Grand Total	955 (*866+#38+Ω51)	#390
	Fresh Water Consumption (Norm: 100 Lit / MT of Cane Crushed)	10.4 Lit.	148 Lit.

Note : # Fresh water from Jayakwadi dam * Sugarcane condensate
Ω Treated water from ETP

Table 6 Details of Water Consumption in Proposed Molasses Distillery Unit (During Sugarcane Crushing & Non- Crushing Season Days)

No.	Description	Water Consumption (M ³ /Day)	
		Crushing Season (150 Days)	Non-Crushing Season (120 Days)
1	Domestic	#2	#2
2	Industrial		
a)	Process	*357	*357
b)	Cooling Make up	78 (*69+*9)	78(#69+*9)
c)	Boiler Make up	*43	#43
d)	Lab & Washing	*3	#3
e)	DM Plant	#10	#10
f)	Ash quenching	*1	#1
	Industrial Total	492(*366+*116+#10)	492(*366+#126)
	Recycle	98% Recycle	74% Recycle
3	Greenbelt	Ω20	#20
	Grand Total	514 (*366+*116+#12+Ω20)	514 (*366+#148)
	Fresh Water Consumption (Norm: 10 KL/KL of Alcohol)	0.2 KL	2.8 KL

Note : # Fresh water from Jayakwadi dam * Sugarcane condensate
Ω Treated water from ETP ♣ Treated Water from Distillery CPU

**Table 7 Details of Water Consumption in Proposed Cane Juice Distillery Unit
(During Sugarcane Crushing Season – 150 Days)**

No.	Description	Water Consumption (M ³ /Day)
1	Domestic	#2
2	Industrial	
a)	Cooling Make up	*78
b)	Boiler Make up	*43
c)	Lab & Washing	*3
d)	DM Plant	#10
e)	Ash quenching	*1
	Industrial Total	135(*125+#10)
	Recycle	98% Recycle
3	Greenbelt	Ω20
	Grand Total	157 (*125+#12+ Ω20)
	Fresh Water Consumption (Norm: 10 KL/KL of Alcohol)	0.2 KL

Note : # Fresh water from Jayakwadi dam * Sugarcane condensate
 Ω Treated water from ETP

b. Effluent Treatment-

i) Domestic Effluent

Domestic effluent from existing sugar factory is 10M³/D, same is being treated separately in proposed STP. After implementation of distillery unit, total domestic effluent from MSML campus will be 11.5 M³/D (Domestic effluent from sugar factory – 10 M³/D & distillery 1.5 M³/D). Same will be treated in proposed Sewage Treatment Plant (STP) of capacity 20M³/D and treated effluent will be reused for flushing and also used for gardening.

ii) Industrial effluent

Total trade effluent generated from existing sugar activities is 142 M³/D (As per consent 240 M³/D). Same is treated in existing Effluent Treatment Plant (ETP) provided in own factory premises having capacity 300 M³/D comprising of primary & secondary unit operations.

From proposed molasses distillery unit, raw spentwash about 360 M³/D will be generated. Here, spentwash will be primarily treated in bio-methanation plant followed by concentration in MEE. Concentrated spentwash @ 75 M³/D will be forwarded for composting. Refer **Appendix- F** for mass balance for composting. Other effluents viz. spent lees @ 63 M³/D, MEE condensate @ 281 M³/D, cooling & boiler blow down @ 17 M³/D and lab-wash & DM backwash @ 13 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.

Table 8 Effluent Generation from Existing Sugar Factory

Description	Effluent Generation		Disposal
	Sugar Factory (M ³ /Day)	Sugar Factory (M ³ /Day) – As per consent	
1. Domestic	10	16	Treated in proposed STP
2. Industrial			
a)Process	80	240	Treated in existing ETP having primary & secondary treatment units; used for green belt & gardening
b)Cooling	8		
c)Boiler	25		
d)DM Plant	26		
e)Lab & Washing	3		
Industrial Total (a+b+c+d+e)	142	240	

Table 9 Effluent Generation from Distillery Unit

Description	Quantity (M ³ /D)		Disposal
	Molasses Distillery	Cane Juice Distillery	
1. Domestic	1.5	1.5	Treated in proposed STP
2. Industrial			
a)Process	Raw Spent wash – 360	Raw Spent wash – 180	Raw spentwash shall be primarily treated in Bio-methanation plant followed by concentration in Multi Effect Evaporator (MEE). Conc. Spentwash shall be forwarded for bio-composting alongwith pressmud.
	Conc. Spentwash – 75	Conc. Spentwash – 30	
	MEE Condensate -281	MEE Condensate - 146	
	Spent lees – 63	Spent lees – 37	
b)Cooling Blow down	8	8	Other effluents viz. MEE condensate, spent lees, cooling b/d, boiler b/d, lab & washing effluent shall be forwarded to Distillery CPU. Treated effluent shall be fully recycled in process to achieve Zero Liquid Discharge (ZLD) for process effluent.
c)Boiler Blow down	9	9	
d)Lab; Washing	3	3	
e)DM back wash	10	10	
Total	Conc. Spent wash–75	Conc. Spent wash-30	
	Other effluent – 374	Other effluent – 213	

Figure 2 - Flow Chart of Existing Sugar Factory ETP

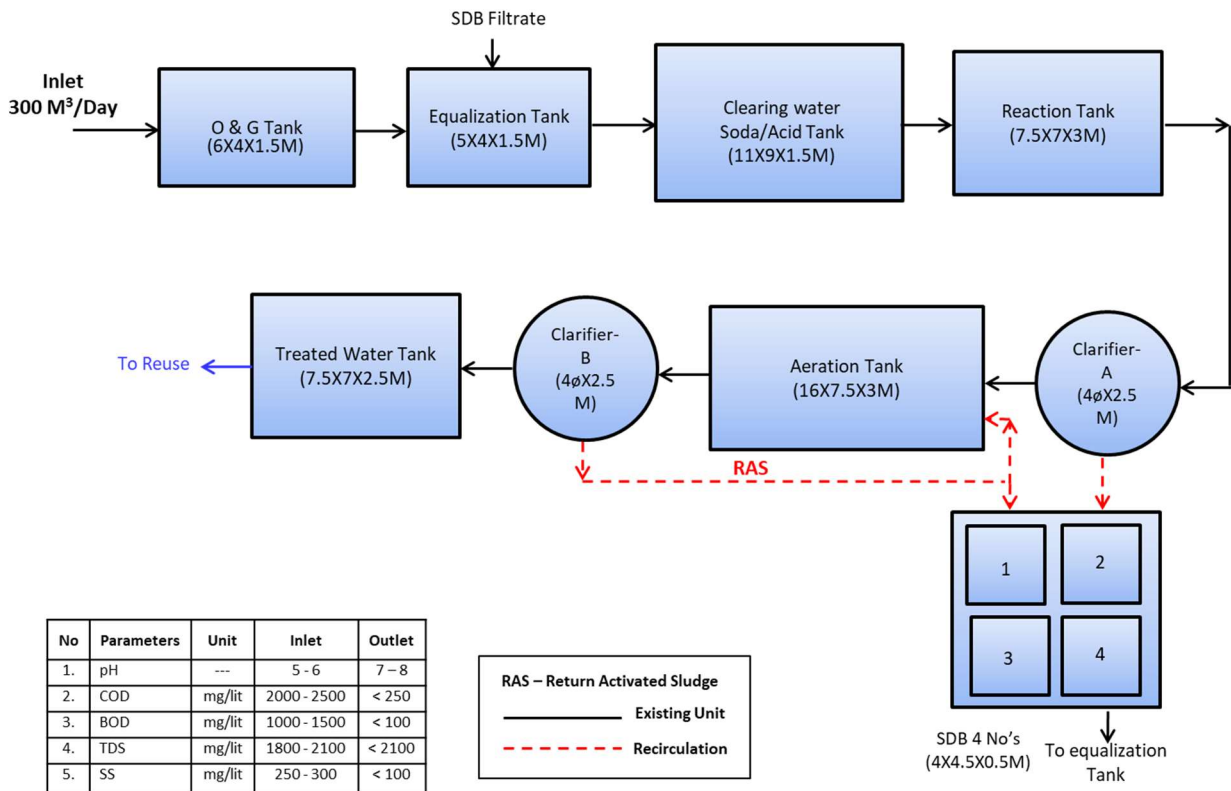


Figure 3 Process Flow Diagram of Proposed CPU

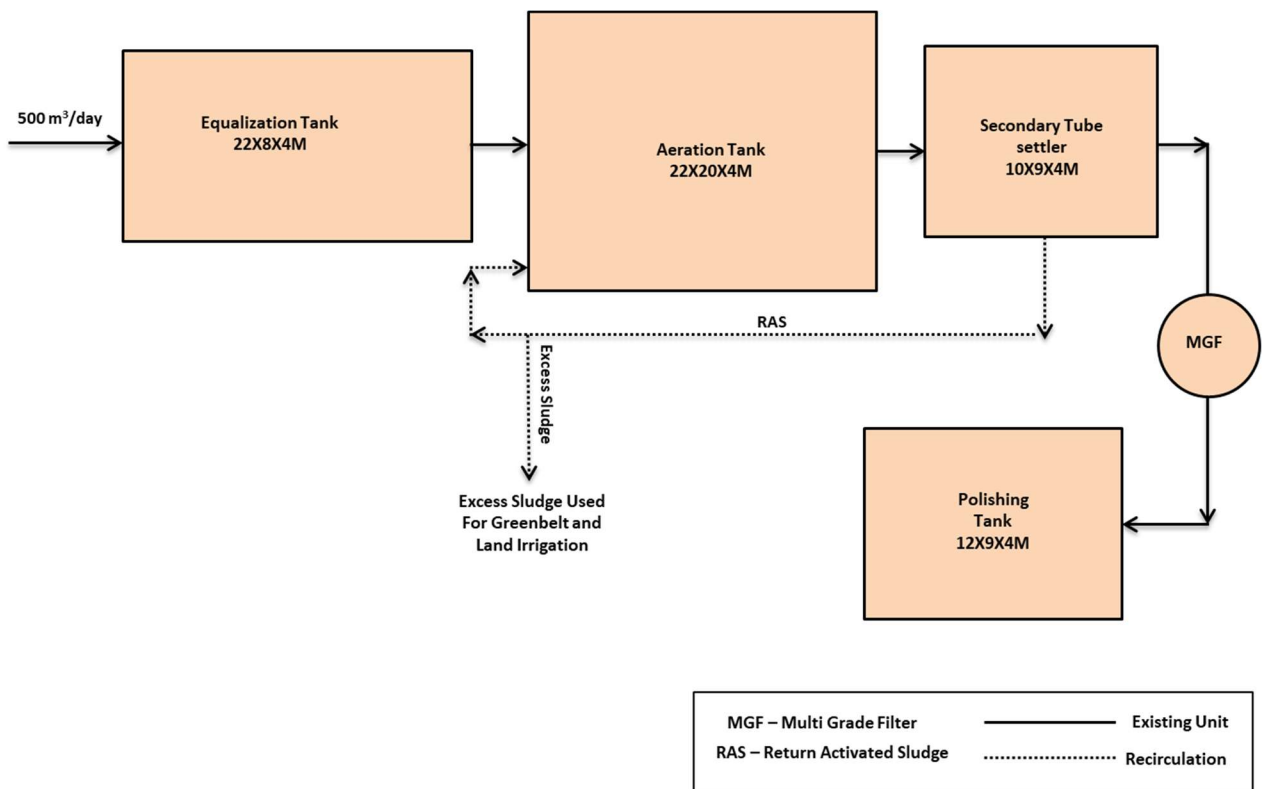


Figure 4 Process Flow Diagram of Proposed CPU for Distillery

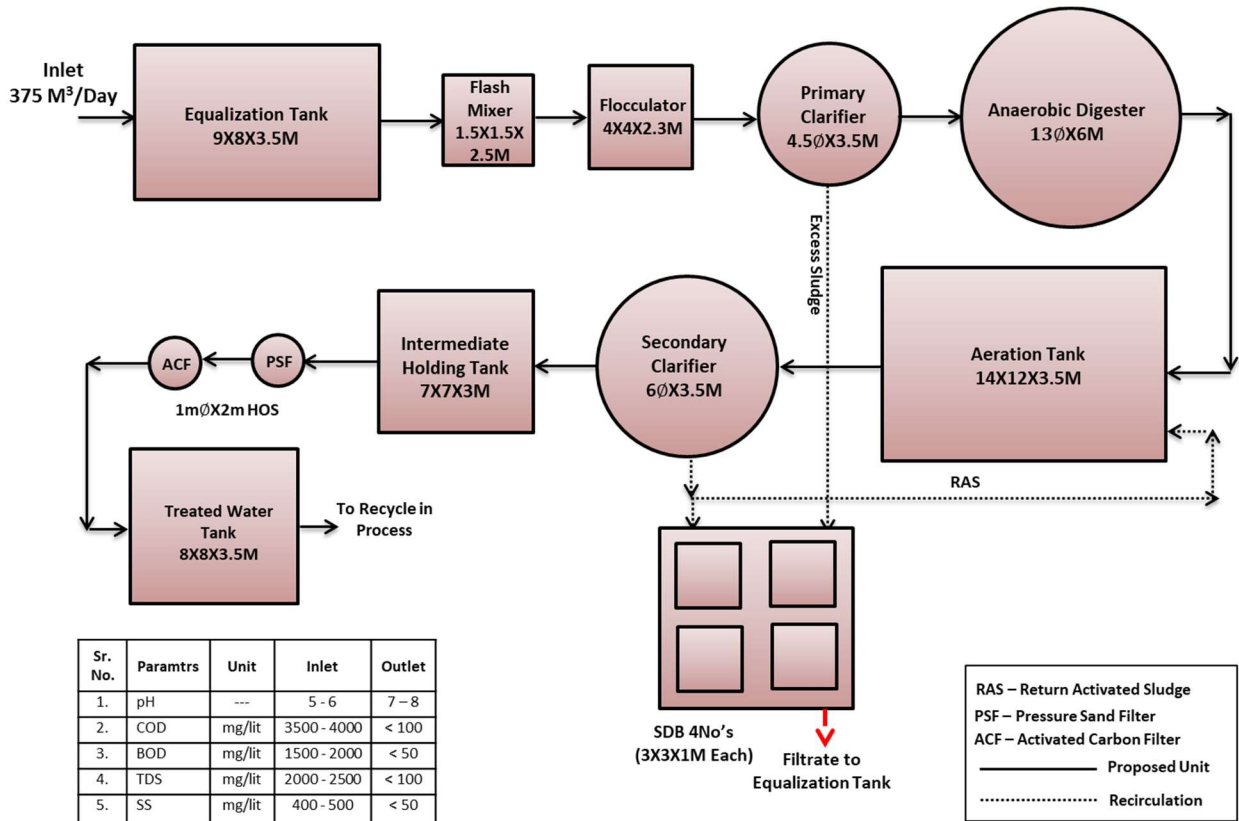
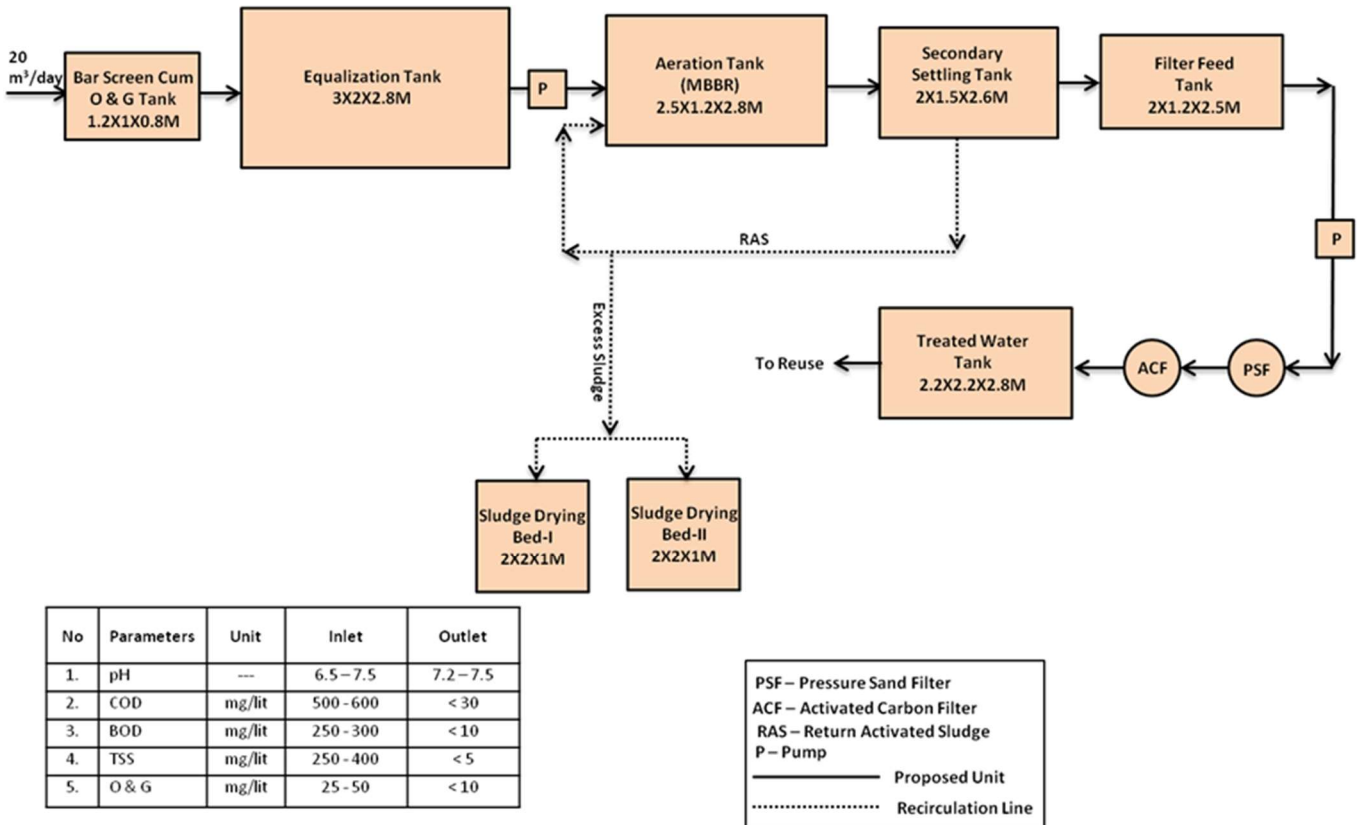


Figure 5 Flow Chart of Proposed STP



B) Air Emissions

Presently, steam required for existing sugar activities is taken from boiler of 48 TPH capacity. Bagasse to the tune of 478 MT/D alongwith Biogas 825 Nm³/Hr is used as fuel. Wet Scrubber is provided as APC.

A 10 TPH boiler will be installed under proposed 45 KLPD distillery unit. Bagasse to the tune of 105 MT/D will be used as fuel. Wet Scrubber will be provided as APC.

Steam required for the proposed distillery activities will be taken from existing 48 TPH boiler of sugar factory as well as from new 10 TPH boiler. A common stack of 65 M height will be provided for existing & proposed boiler.

There will be process emissions in the form CO₂ from Fermenters in distillery unit to the tune of 34 MT/D. Same will be collected, purified, compressed and filled in cylinders and sold for production of beverages. Details of Boilers are presented at table 10.

Table 10 Details of Boiler and Stack in MSML

No.	Description	Boilers		DG Set
		Existing (Sugar Factory)	Proposed (Distillery)	Existing
1	Capacity	48 TPH	10 TPH	500 KVA
2	Fuel type	Bagasse & Biogas	Bagasse	Diesel
3	Fuel Qty.	478 MT/D & 825 M ³ /Hr	105 MT/D	90 Lit./Hr.
4	MOC	R.C.C	R.C.C	MS
5	Shape	Round	Round	Round
6	Height	65 M		5 M (ARL)
7	Diameter	2.5 M	2.5 M	150 mm
8	APC Equipment	Wet Scrubber	Wet Scrubber	--

A) Noise Pollution Aspect

i. Sources of Noise

1. In the distillery, very high noise generating sources would not exist. Expected noise levels in the section would be about 70 dB (A) or so. Adequate noise abatement measures like silencer & maintenance of pumps, motors, and compressors would be carried out and enclosures would be provided to abate noise levels at source. Moreover, enclosures to the machinery would be provided wherever possible.
2. Fermentation section & distillation section would be the other minor noise generating sources. The expected noise levels in these sections would be in range of 70 to 80 dB(A).
3. Existing sugar factory and co-gen; noise-generating sources are the boiler house, turbine rooms, cane crushing section and mill house, etc.
4. Adequate green would be developed in phase wise manner in and around the industry. So that it would further attenuate the noise levels.

ii. Control Measures

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

B) Hazardous Wastes

Different types of hazardous wastes being generated from proposed unit alongwith disposal methods are presented in Table 11.

Table 11 Hazardous Solid Waste Generation & Disposal

No.	Industrial Unit	Category	Quantity	Disposal
1	Sugar Factory & Distillery Unit	Spent Oil – Cat.5.1	1.6 MT/Yr.	Reuse in own boiler as fuel
		Empty Containers –33.1	20 Nos. /Yr.	Authorized re-seller

C) Solid Wastes**Table 12 Details of Solid Waste**

No.	Unit	Type	Quantity (MT/D)	Disposal
1	Sugar Factory (Existing)	ETP Sludge	0.3	Used as Manure
		Boiler Ash (Bagasse)	14	Bricks / cement manufacturers / manure
2	Distillery Unit (Proposed)	Boiler Ash (Bagasse)	3	Bricks / cement manufacturers / manure
		Yeast Sludge	8	Used as filler material for composting/ manure
		CPU Sludge	0.6	

Agreement with brick manufacturers will be done after commissioning of distillery unit.

C) Odour Pollution

There are number of odour sources such as 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.

D) 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 Maharashtra Pollution Control Board (MPCB) or any other concerned authority are strictly followed in the existing set up. Same practice shall be continued after proposed establishment.

E) Environmental Management Cell

EMC will be proposed by MSML, functioning under its sugar & distillery unit. Members of EMC will be well qualified and experienced in their concerned fields. EMC is as under-

Table 13 Environmental Management Cell of MSML

No.	Designation	Number (s)
1.	Managing director	1
2.	Chief Executive Officer	1
3.	Production Manager	1
4.	Environmental Officer	1
5.	Safety Officer	1
6.	Chief Chemist	1
	Total	06

Details of capital as well as O & M costs towards environmental aspects under the existing sugar setup & proposed distillery are as follows –

Table 14 Capital as well as O & M Cost under Existing & Proposed Unit

No.	Description	Cost Component (Rs. Lakhs)	
		Capital	O & M / Year
A	Existing		
1	APC Equipments – Wet Scrubber, Stack (65 M) for boiler of 48 TPH & Ash Collection System	200.0	50.0
2	Water Pollution Control - ETP & CPU (Prop.)	250.0	30.0
3	Noise Pollution Control	10.0	2.0
4	Solid Waste Management	10.0	2.0
5	Occupational Health and Safety	20.0	2.0
6	Green Belt Development	40.0	5.0
7	Environmental Monitoring & Management	15.0	2.0
	Total (9% of Capital Investment of Rs. 61.08 Cr.)	545.0	93.0
B	Proposed		
1	APC Equipment – Wet Scrubber	100.0	30.0
2	Water Pollution Control – CPU & Bio-methanation plant, MEE	250.0	50.0
3	Noise Pollution Control	10.0	2.0
4	Occupational Health & Safety	30.0	5.0
5	Green Belt Augmentation Plan & Rain Water Harvesting implementation	70.0	12.0
6	Environmental Monitoring & Management	20.0	5.0
	Total (11.4% of Capital Investment of Rs. 41.77 Cr.)	480.0	104.0

F) Rainwater Harvesting Aspect

- Total area of Plot - 2,40,000 Sq. M.
- Total Open Space – 81,668.27 Sq. M.
- Average annual rainfall in the area= 741 mm

A Roof Top Harvesting-

$$\begin{aligned} \text{RWH Quantity} &= 10,364.88 \text{ M}^2 \times 0.74 \text{ M} \times 0.8 \\ &= \mathbf{6136.0 \text{ M}^3} \end{aligned}$$

B Surface Water Harvesting –

$$\begin{aligned} \text{1. RWH Quantity from Green Belt} &= 79,082.94 \text{ M}^2 \times 0.74 \text{ M} \times 0.3 \\ &= 17,556.41 \text{ M}^3 \end{aligned}$$

$$\begin{aligned} \text{2. RWH Quantity from Roads} &= 29,159.75 \text{ M}^2 \times 0.74 \text{ M} \times 0.5 \\ &= 11,436.45 \text{ M}^3 \end{aligned}$$

$$\begin{aligned} \text{3. RWH Quantity from Open Space} &= 81,668.27 \text{ M}^2 \times 0.74 \text{ M} \times 0.3 \\ &= 18,130.35 \text{ M}^3 \end{aligned}$$

$$\begin{aligned} \text{Total RWH from Surface Area} &= 17,556.41 \text{ M}^3 + 11,436.45 \text{ M}^3 + 18,130.35 \text{ M}^3 \\ &= \mathbf{47,123.31 \text{ M}^3} \end{aligned}$$

Hence, the total water becoming available after rooftop and land harvesting will be

Rooftop Harvesting	+	Surface Harvesting	=	Total RWH
6,136.0	+	47,123.31	=	53,259.21 M³
			=	53.2 ML

J) The Green Belt

Table 15 Area Details

No.	Description	Area (Sq. M.)
A	Built-up Area	
	iv. Existing Sugar Factory	15,608.03
	v. Area under colony, Parking & other amenities	29,003.23
	vi. Proposed Distillery Unit	5477.78
	Total	50,089.04
B	Area Under Roads	
	iii. Existing	27,566.2
	iv. Proposed	1593.55
	Total	29159.75
C	Green belt area (Norm: 33% of Total Plot)	
	iii. Existing Green Belt (23.5% of Total Plot)	56,297.55
	iv. Proposed Green Belt (9.5% of Total Plot)	22,785.39
	Total	79,082.94
D	Open Area	81,668.27
E	Total Plot Area(A+B+C+D)	2,40,000.0

The Criteria for Proposed Greenbelt Development Plan

Emission of SPM, SO₂ 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 would also be control on noise from the industry to surrounding localities, as considerable attenuation would occur due to the barrier of trees provided in the green belt.

K) Socio-Economic Development

Socio economic study was carried out in 38 villages within 10 Km radius of the study area was carried out with the help of a structured close-ended interview schedule, comprising of 30 questions in Marathi. The schedule was administered by using Simple Random Disproportionate Sampling Technique. Refer Socio – economic profile in Chapter 3, Section 3.12 of EIA report for detailed information of socio economic aspect. Observations and conclusions after the socio-economic study are as follows-

- Most of the villages have basic facilities like drinking water, preliminary educational infrastructure, toilets and electricity. Good transportation & satisfactory educational facilities are present.
- A majority of the population within the sample size had a good income which is mostly due to sugarcane cultivation.
- Indirect & direct Job opportunities provided to locals by industry.
- Most villages lacked drainage system, open drainages; scattered solid waste as well as poor sanitation was visible.
- Improper, inadequate and not within close vicinity health facilities is the major problem faced by locals.

8) ENVIRONMENTAL MONITORING PROGRAMME

Reconnaissance survey of the study area was undertaken in the month of December 2018. Field monitoring for measuring meteorological conditions, ambient air quality, water quality, soil quality and noise levels was initiated in October 2019. Report incorporates data monitored during the period from October 2019 to December 2019 and secondary data collected from various sources, which include Government Departments, related to ground water, soil, agriculture, forest etc.

a. Land Use

Land use study requires data regarding topography, zoning, settlement, industry, forest, roads & 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 16 Land Use/ Land Cover

No.	Class	Area (Ha)	Percentage (%)
1	Built Up Area	743	2.37
2	Crop Land	54	0.17
3	Fallow Land	16712	53.20
4	Water Bodies	7627	24.28
5	Nadi/ Canal	2314	7.37
6	Forest Area	1023	3.26
7	Open Scurb Land	2942	9.36
	Total	31415	100

c. Meteorology

Methodology adopted for monitoring surface observations is as per the norms laid down by Bureau of Indian Standards (BIS) and the India Meteorology Department (IMD). On-site monitoring was undertaken for various meteorological variables in order to generate the data. Further, certain secondary meteorological data like temperatures, relative humidity, rainfall intensity etc. have been taken from IMD, Satara.

Meteorological parameters were monitored during the period October 2019 to December 2019. Details of parameters monitored, equipments used and the frequency of monitoring have been given in Chapter 3 of the Draft EIA report.

d. Air Quality

This section describes selection of sampling locations, includes methodology of sampling and analytical techniques with frequency of sampling. Presentation of results for October 2019 to December 2019 survey is followed by observations. All the requisite monitoring assignments, sampling and analysis was conducted through the laboratory - M/s. Green Envirosafe Engineers & Consultant Private Limited, Pune. Lab has received NABL accreditation and has been approved by MoEFCC; New Delhi. Further, it has also received ISO 9001:2008, ISO 14001:2004OHSAS 18001–2007 certifications by DNV. Ambient air monitoring was conducted in the study area to assess the quality of air for PM₁₀, PM_{2.5}, SO₂, NO_x and CO. The various monitoring stations selected are shown in following table.

Table 17 Ambient Air Quality Monitoring (AAQM) Locations

AAQM Station Code	Name of the Station	Distance from Site (km)	Direction w.r.t. Site
A1	Industrial Site	--	--
A2	Dhamori Bk.	1.68	E
A3	Ranjangaon Khuri	5.40	E
A4	Kodapur Jhanjadi	3.45	SW
A5	Malwadi	2.13	NW
A6	Antapur	3.49	N
A7	Harsuli	3.63	S
A8	Bhagatwadi	1.34	SW

**Table 18 Summary of the AAQ Levels for Monitoring Season
[October 2019 to December 2019]**

Parameter		Location							
		Industrial Site	Dhamori Bk.	Ranjangaon Khuri	Kodapur Jhanjadi	Malwadi	Antapur	Harsuli	Bhagatwadi
PM ₁₀ (µg/M ³)	Max.	62.50	57.40	57.80	57.60	57.80	56.80	57.30	57.90
	Min.	55.30	49.70	48.50	47.60	48.90	49.10	49.10	48.90
	Avg.	59.19	54.08	53.36	53.48	54.54	54.17	54.09	54.25
	98%	62.09	57.22	57.76	57.42	57.62	56.62	57.11	57.72
PM _{2.5} (µg/M ³)	Max.	22.30	20.10	18.90	19.70	19.70	19.50	19.70	23.90
	Min.	17.40	14.80	15.40	14.30	14.20	14.10	14.10	13.00
	Avg.	19.77	17.73	17.25	17.43	17.29	17.65	17.59	17.43
	98%	21.93	19.96	18.68	19.65	19.65	19.45	19.59	23.81
SO ₂ (µg/M ³)	Max.	22.50	20.20	18.60	19.20	18.60	18.50	18.60	20.30
	Min.	18.10	14.60	15.30	14.40	14.40	14.40	14.70	14.50
	Avg.	20.50	17.40	16.83	16.63	16.61	16.53	16.57	16.96
	98%	22.36	20.06	18.56	18.98	18.55	18.50	18.60	20.12
NO _x (µg/M ³)	Max.	31.80	24.40	22.80	23.80	22.50	24.70	23.10	24.80
	Min.	26.30	19.20	18.70	18.20	18.50	18.20	18.50	16.80
	Avg.	28.95	21.45	21.02	20.94	20.52	21.77	21.20	21.63
	98%	31.66	23.85	22.76	23.66	22.45	24.65	23.02	24.57
CO (mg/m ³)	Max.	0.90	0.06	0.07	0.07	0.08	0.07	0.07	0.06
	Min.	0.20	0.01	0.02	0.01	0.01	0.01	0.02	0.02
	Avg.	0.46	0.03	0.04	0.04	0.04	0.04	0.04	0.04
	98%	0.81	0.06	0.07	0.07	0.07	0.07	0.07	0.06

Note: 1. PM₁₀, PM_{2.5}, SO₂ and NO_x are computed based on 24 hourly values. 2.CO is computed based on 8 hourly values.

**Table 19 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 ₁₀ µg/M ³		PM _{2.5} µg/M ³		SO ₂ µg/M ³		NO _x µg/M ³		CO mg/M ³	
	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

Note: A.A. represents Annual Average

e. Water Quality

Sampling and analysis of water samples for physical, chemical and heavy metals were also undertaken through the laboratory of Green Enviro Safe Engineers & Consultant Pvt. Ltd, Pune. Eight locations for surface water and Eight locations for ground water were selected. Same are listed below

Table 20 Monitoring Locations for Ground Water

Station	Geographical Locations	Distance from Site (Km)	Direction from Site
GW1	19°41'49.02"N 75°10'41.60"E	0.38	SSW
GW2	19°41'52.17"N 75°10'48.58"E	0.30	SSE
GW3	19°41'30.99"N 75°11'32.44"E	1.72	SE
GW4	19°42'17.63"N 75°11'38.24"E	1.65	NE
GW5	19°42'38.04"N 75°11'5.25"E	1.25	NE
GW6	19°42'40.49"N 75°9'50.22"E	1.94	NW
GW7	19°41'44.89"N 75°10'6.75"E	1.22	SW
GW8	19°41'8.63"N, 75°10'37.68"E	1.71	SSW

Table 21 Monitoring Locations for Surface Water

Station	Station Location	Distance (Km)	Direction	Justification
SW1	Tembhapuri	4.64	NNE	West of south west side tank near the project site
SW2	Pimparkheda	5.73	NE	North west side stream of the project site
SW 3	Dhamori BK	2.87	NE	North of the north west side stream near the project site
SW 4	Ranjangaon	6.65	E	Downhill stream of the project site
SW5	Aurangpur	9.56	SE	Downhill stream of the project site
SW6	Kodapur	6.48	SW	Nathsagar tank to the east of south east side of the project site
SW7	Nandrabad	3.95	W	South of south east side stream of the project site
SW8	Pimpalwadi	9.54	NW	South of south east side stream of the project site

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

f. Noise Level Survey

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 22 Noise Sampling Locations

Station	Station Location	Distance (Km)	Direction
N1	Project Site	-	-
N2	Bhagatwadi	1.20	SW
N3	Janjardi	3.30	SW
N4	Harsul	3.16	S
N5	Shendurwada	3.45	SE
N6	Dhamori Buzurg	2.34	NE
N7	Antapur	3.60	NE
N8	Sultanpur	2.44	NW

Table 23 Ambient Noise Levels

No.	Location	Average Noise Level in dB(A)					
		L ₁₀	L ₅₀	L ₉₀	L _{eq(day)}	L _{eq(night)}	L _{dn}
1	Project Site	60.2	65.4	68.4	73.2	60.3	72.3
2	Bhagatwadi	46.0	47.6	48.9	53.0	42.5	52.8
3	Janjardi	44.4	46.4	48.3	52.3	41.0	51.9
4	Harsul	45.0	46.6	48.0	52.4	41.1	51.9
5	Shendurwada	45.4	47.0	48.3	52.8	41.5	52.3
6	Dhamori Buzurg	43.9	46.9	48.9	52.6	42.4	52.5
7	Antapur	45.1	46.9	47.9	52.3	41.8	52.1
8	Sultanpur	44.5	48.1	49.4	53.3	43.8	53.5

g. Socio-Economic Profile

Survey of 38 villages within 10 Km study area of MSML, taking the reference of census 2011. Survey was carried out with the help of a Simple Random Disproportionate Sampling and Snowball Technique, comprising of 30 questions in Marathi. 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) 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. 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. 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: 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.). 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) ENVIRONMENTAL IMPACT AND MITIGATION MEASURES

A. Impact on Topography

No major topographical changes are envisaged in the acquired area due to MSML project. Industrial activity would invite positive benefits in the form of land leveling and tree plantation in the plant vicinity and other premises.

B. Impact on Climate

Impact on the climate conditions due to the establishment 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

24 hourly 98 percentile concentrations of PM₁₀, PM_{2.5}, SO₂ and NO_x in Ambient Air, recorded during the field study conducted for the season October-November-December 2019 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-

Table 24 Basline Concentrations at site

Parameter	PM₁₀	PM_{2.5}	SO₂	NO_x	CO
98 percentile	62.09 µg/m ³	21.93 µg/m ³	22.36 µg/m ³	31.66 µg/m ³	0.81 mg/m ³
NAAQS	100 µg/m ³	60 µg/m ³	80 µg/m ³	80 µg/m ³	4 mg/m ³

ii. Air Polluting Sources

Existing boiler of 48 TPH capacity is provided under sugar factory & proposed 10 TPH boiler will be provided under distillery unit.

DG set of capacity 500 KVA is provided under existing project.

D. IMPACT ON WATER RESOURCES

i. Impact on Surface Water Resources & Quality

Surface water along with recycled water will be used to meet water requirement of proposed project. Total trade effluent generated from existing sugar activities is 142 M³/D (As per consent 240 M³/D); treated in existing ETP. Effluent from proposed distillery in the form of spentlees, MEE condensate and other effluents will be treated in proposed CPU & used back in process operations. Hence, there will not be any impact on surface water resource. More details about water budget are presented at Chapter 2 under Section 2.7.1

ii. Impact on Ground Water Resources & Quality

Water required for the industry will be obtained from Jayakwadi Dam. Permissions will be obtained for lifting required amount of water from the Dam. Ground water will not be a source of raw water for the proposed establishment project. Moreover, there will not be any discharge of untreated effluent so there will not be any impact on ground water level and quality.

E. Impact on Soil

Impact on the soil characteristics is usually attributed to air emissions, wastewater discharges and solid waste disposal. Under proposed distillery as well as existing sugar factory, as mentioned above, there will not be discharge of any untreated effluent on land. For proposed boiler ESP will be installed. Boiler ash from proposed distillery boiler is given to cement /brick manufacturers/used as manure whereas ETP sludge is used as manure. CPU sludge and yeast sludge from distillery will be used as filler material for composting/ manure. 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 wastewater.

F. Impact on Noise Levels

Workers could get annoyance and can lose concentration during operation. It can cause disturbance during working. People working near the source need risk criteria for hearing damage while the people who stay near the industry need annoyance and psychological damage as the criteria for noise level impact analysis. Major noise emanating sources in MSML complex shall be Fermentation section, distillation section plant, boiler house, turbine rooms, cane crushing section and mill house and DG set etc. MSML is not a major noise producing industry. There shall be no any prominent effect due to Vibration at the project site.

G. Impact on Land Use

Present use of the project land is Industrial wherein the proposed establishment of distillery unit will be implemented in existing project land premises MSML. Hence, no change in the land use pattern is expected. Therefore, the impact on land use is non-significant.

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.

11) SALIENT FEATURES OF EMP

Following routine monitoring programme as detailed in Table 25 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 25 Plan For Monitoring of Environmental Attributes within Industrial Premises

No.	Description	Location	Parameters	Frequency	Conducted by
1.	Air Emissions	Upwind – 1, Downwind - 2 (Near main gate, Fermentation section, Distillation section)	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO	Monthly	MoEFCC & NABL Approved External Lab
		Study area – (Industrial Site, Dhamori Bk., Ranjangaon Khuri, Kodapur Jhanjadi, Malwadi, Antapur, Harsuli, Bhagatwadi)		Quarterly	
2.	Stack Emissions	Boiler – 2 No., D.G Set – 1 Nos.	SO ₂ , SPM, NO _x	Monthly	
3.	Noise	Workzone 5 Locations - (Near Main Gate, Near Fermentation Section Distillation section, Boiler, DG set, Turbine)	Spot Noise Level recording; Leq(n), Leq(d), Leq (dn)	Monthly	
		Ambient Noise location - 8		Quarterly	
4.	Drinking water	Canteen	Parameters as per drinking water Std IS10500	Monthly	
5.	Soil	8 locations - (Project site, Shendurwada, Wajhar, Bhagatwadi, Sarangpur, Imampurwadi, Tandulwadi, Nandrabad)	pH, Salinity, Organic Carbon, Nitrogen, Phosphorous and Potash	Quarterly	
6.	Water Quality (Ground Water & Surface Water)	Locations in study area - Ground Water & Surface Water	Parameters as per CPCB guideline for water quality monitoring – MINARS/27/2007-08	Quarterly	
7.	Effluent	Treated, Untreated	pH, SS, TDS, COD, BOD, Cl, Sulphates, Oil & Grease.	Monthly	
8.	Waste management	Implement waste management plan that Identifies and characterizes every waste associated with proposed and existing activities and which identifies the procedures for collection, handling & disposal of	Records of Solid Waste Generation, Treatment and Disposal shall be maintained	Twice in a year	By MSML

No.	Description	Location	Parameters	Frequency	Conducted by
		each waste arising.			
9.	Emergency Preparedness such as fire fighting	Fire protection & safety measures to take care of fire & explosion hazards, to be assessed & steps taken for their prevention.	On site Emergency Plan, Evacuation Plan, firefighting mock drills	Twice a year	By MSML
10.	Health Check up	Employees and migrant Labour health check ups	All relevant health check-up parameters as per factories act.	Twice a Year	By MSML
11.	Green Belt	Within Industry premises as well as nearby villages	Survival rate of planted sapling	In consultation with DFO.	By MSML
12.	CER	As per activities	--	Six Monthly	By MSML



ROAD AREA STATEMENT

SR NO.	AREA IN SQ.M.
01	1670.36
02	25895.84
03	1593.55
04	13930.00
TOTAL ROAD AREA	43089.75 SQ. M.

PARKING AREA STATEMENT

REVENUE LOCATION OF SITE	SR NO.	POCKET NO.	AREA IN SQ.M.
VILLAGE - DHAMORI(BK)	01	G	35.55
TALUKA - GANGAPUR	02	H	37.30
	03	I	427.20
DISTRICT - AURANGABAD	04	J	714.90
	05	K	17833.80
TOTAL AREA			19045.75 SQ.M.

PROPOSED DISTILLERY BUILT UP AREA

SR NO.	DESCRIPTION	BUILT UP AREA IN SQ.M.
01	FERMENTATION SECTION	780.44
02	DISTILLATION AND DEWATERATION	281.46
03	ALCOHOL STORAGE & RECEIVERS	841.52
04	BICOMINATION	808.32
05	EVAPORATION	281.18
06	COOLING TOWER FOR FERMENTATION	27.22
07	COOLING TOWER FOR DISTILLATION	48.72
08	COOLING TOWER FOR EVAPORATOR	31.22
09	SPENT WASH LAGOON	1684.65
10	CPU	485.00
11	SCALER	150.00
TOTAL		6477.78 SQ.M.

LEGENDS

- EXISTING BUILDING
- PROPOSED BUILDING
- EXISTING GREEN BELT
- PROPOSED GREEN BELT
- EXISTING PARKING
- PROPOSED PARKING
- EXISTING ROAD
- PROPOSED ROAD
- ASSEMBLY POINT
- OPEN SPACE
- STORM WATER DRAIN
- FIRE HYDRANT PIPE LINE

LAND AREA STATEMENT

REVENUE LOCATION OF SITE	SR NO.	GUT NO.	AREA AS PER 7/12 EXTRACT	AREA AS PI H - R
VILLAGE - DHAMORI(BK)	01	190(P)	02.92	---
	02	191	02.50	---
TALUKA - GANGAPUR	03	192(P)	01.10	---
	04	194	03.55	---
	05	195	02.10	---
DISTRICT - AURANGABAD	06	196	02.12	---
	07	197	05.42	---
	08	198	05.31	---
	09	199	05.02	24.55.80
TOTAL				

MUKTESHWAR SUGAR MILLS CAMPUS

BUILT UP AREA CALCULATION FOR RESIDENTIAL AREA BUILDINGS

SR. NO.	BUILDING / SHED BLOCK NO.	BUILDING NAME / USE	BUILDING BLOCK BUILTUP AREA IN SQ.M.	NO. OF FLOORS	TOTAL BUILT AREA IN SQ.M.
01	01	PARKING SHED	24.55 SQ.M.	---	24.55 SQ.M.
02	02	APARTMENT G + 2	243.73 SQ.M.	03	731.19 SQ.M.
03	03	SHRI DATA TEMPLE	190.45 SQ.M.	---	190.45 SQ.M.
04	04	CANTEN	28.17 SQ.M.	---	28.17 SQ.M.
05	05	QUARTER TYPE - E8	223.17 SQ.M.	---	223.17 SQ.M.
06	06	QUARTER TYPE - E6	227.44 SQ.M.	---	227.44 SQ.M.
07	07	QUARTER TYPE - E4	228.81 SQ.M.	---	228.81 SQ.M.
08	08	QUARTER TYPE - E3	225.74 SQ.M.	---	225.74 SQ.M.
09	09	QUARTER TYPE - E2	226.50 SQ.M.	---	226.50 SQ.M.
10	10	QUARTER TYPE - E1	226.95 SQ.M.	---	226.95 SQ.M.
11	11	PUMP HOUSE	12.72 SQ.M.	---	12.72 SQ.M.
12	12	QUARTER TYPE - F2	164.40 SQ.M.	---	164.40 SQ.M.
13	13	QUARTER TYPE - F1	163.40 SQ.M.	---	163.40 SQ.M.
14	14	QUARTER (G+1) TYPE - D3	243.17 SQ.M.	02	486.34 SQ.M.
15	15	QUARTER (G+1) TYPE - D2	243.17 SQ.M.	02	486.34 SQ.M.
16	16	QUARTER (G+1) TYPE - D1	243.17 SQ.M.	02	486.34 SQ.M.
TOTAL BUILT UP AREA					4196.28 SQ.M.

MUKTESHWAR SUGAR MILLS CAMPUS

AREA CALCULATION FOR DIESEL PUMP

SR. NO.	TOTAL PLOT AREA	BUILDING NAME / USE	BUILDING BLOCK BUILTUP AREA IN SQ.M.	NO. OF FLOORS	TOTAL BUILT AREA IN SQ.M.
01	7055.00 SQ.M.	DIESEL PUMP CABIN	16.25 SQ.M.	---	16.25 SQ.M.
TOTAL BUILT UP AREA					16.25 SQ.M.

MUKTESHWAR SUGAR MILLS CAMPUS

BUILT UP AREA CALCULATION FOR INDUSTRIAL AREA BUILDINGS


SR. NO.	BUILDING / SHED BLOCK NO.	BUILDING NAME / USE	BUILDING BLOCK BUILTUP AREA IN SQ.M.	NO. OF FLOORS	TOTAL BUILT AREA IN SQ.M.
01	28	TWO & FOUR WHEELER PARKING	234.50 SQ.M.	---	234.50 SQ.M.
02	27	H.R. & SECURITY OFFICE	82.17 SQ.M.	---	82.17 SQ.M.
03	29	ADMIN BUILDING	129.31 SQ.M.	---	129.31 SQ.M.
04	30	TOILET	14.96 SQ.M.	---	14.96 SQ.M.
05	33	CIVIL & CANE OFFICE	103.89 SQ.M.	---	103.89 SQ.M.
06	36	WEIGH BRIDGE CABIN	58.00 SQ.M.	---	58.00 SQ.M.
07	37	WEIGH BRIDGE CABIN	22.36 SQ.M.	---	22.36 SQ.M.
08	41	STORE	262.83 SQ.M.	---	262.83 SQ.M.
09	42	GODOWN KEEPER OFFICE	140.43 SQ.M.	---	140.43 SQ.M.
10	43	MAIN FACTORY BUILDING	5972.76 SQ.M.	---	5972.76 SQ.M.
11	44	GODOWN NO.01	1862.85 SQ.M.	---	1862.85 SQ.M.
12	45	GODOWN NO.02	1848.96 SQ.M.	---	1848.96 SQ.M.
13	51	SULPHUR LIME	91.75 SQ.M.	---	91.75 SQ.M.
14	52	LABOUR TOILET	74.14 SQ.M.	---	74.14 SQ.M.
15	55	K.O. PLANT	97.84 SQ.M.	---	97.84 SQ.M.
16	57	SHED	263.22 SQ.M.	---	263.22 SQ.M.
TOTAL BUILT UP AREA					11371.82 SQ.M.

GREEN BELT AREA STATEMENT

REVENUE LOCATION OF SITE	SR NO.	POCKET NO.	AREA IN SQ.M.
VILLAGE - DHAMORI(BK)	01	A	21918.88
	02	B	3343.00
TALUKA - GANGAPUR	03	C	2371.00
	04	D	6278.00
DISTRICT - AURANGABAD	05	E	5878.00
	06	F	2308.14
	07	G	7495.70
	08	H	9258.76
	09	I	531.36
	10	J	1033.44
	11	K	775.81
	12	L	4092.75
	13	M	846.65
	14	N	426.22
	15	O	1087.91
	16	P	1971.08
	17	Q	618.51
	18	R	1216.08
	19	S	916.62
ADMIN & FACTORY ROAD & GARDEN	20	-	639.87
SIDE TREE PLANTATION	21	-	6064.86
TOTAL AREA			79,082.94 SQ.M.

NOTE: ALL DIMENSIONS ARE IN METER.

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701		Kalpataru Point, 2 nd - 4 th Floor,
Fax: 24024068 /24023515		Opp. Cine Planet Cinema,
Website: http://mpcb.gov.in		Near Sion Circle, Sion (E)
E-mail: jdwater@mpcb.gov.in		Mumbai - 400 022

Red/LSI

Date: 12/11/2018.

Consent No: Format 1.0/BO/JD(WPC)/UAN No. 50852/CC-1811000480

To,
M/s. Mukteshwar Sugar Mills Ltd,
Gut No. 194-198, Dahegaon - Paithan Road,
Dhamori (BK), Tal. Gangapur, Dist.- Aurangabad.

Sub : Renewal of Consent of Sugar unit under RED category.

Ref : 1. Earlier Consent to operate for sugar unit granted vide No. Format 1.0 /BO/JD(WPC)/UAN No.8699 /CC-1802001131 dated 16/02/2018.
2. Your Application vide UAN No. 50852 dt.18.06.2018
3. Minutes of C.C meeting held on 16.10.2018

For: Renewal of Consent for 2500 TCD Sugar unit 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 and 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 **01.08.2017 to 31.07.2019**
- The actual capital investment of the industry is Rs. 60.57 Crs.
(As per C. A. Certificate submitted by industry)

- The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity in MT/Day
1	Sugar	275
2	Bagasse	725
3	Press mud	100
4	Molasses	100

(The cane crushing Capacity of Sugar Industry shall not exceed 2500 TCD)

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

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	240	As per Schedule -I	On land for irrigation
2.	Domestic effluent	16	As per Schedule -I	On land for irrigation

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

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler	1	As per Schedule - II
2.	D.G Set (625 KVA)	1	As per Schedule - II
3.	D.G Set (30 KVA)		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	110	MT/M	Reuse in own boiler as fuel

7. Non-Hazardous Solid Wastes:

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	Boiler Ash	40	MT/M	-	Sale to Bricks manufacturers or compost filler material
2	Sludge from Waste Water Treatment	50.0	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.

For and on behalf of the
Maharashtra Pollution Control Board

(E . Ravendiran, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD. No./RTGS/NEFT	Date	Drawn On
1.	*2,00,000/-	MAGGN18171163603	20.06.2018	Maharashtra Gramin Bank

(*Rs.1,00,000 is balance consent fees with board which shall be utilized during next renewal of consent.)

Copy to:

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

- 3) The industry shall have bilateral agreement with the farmers on whose land the treated effluent is used for irrigation purposes and a copy of the agreements with validity shall be submitted to the Regional/Sub- Regional Office of the Board.
- 4) The industry shall create Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
- 5) **CONDITIONS FOR MOLASSES STORAGE:**
- (i) The molasses shall be properly collected and stored in steel tanks which shall be leak proof. At no stage of handling of molasses, there shall be leakage or spillage.
 - (ii) The capacity of tanks for storage of molasses shall be such that it will take care of bumper production of sugar, non-lifting of molasses etc.
 - (iii) All the area on which molasses are stored and handled should be provided with drain for diverting the spills to the treatment plant/ molasses tank. Suitable arrangements for accidental discharges of molasses from the tanks shall be provided to contain the same within factory premises.
 - (iv) Destruction of molasses and its disposal shall not be done without specific permission in writing from the authorized officer of the Board. Intimation of intention to destroy or dispose of the molasses shall be given to the Board atleast 15 (fifteen) days in advance by registered post under intimation to the Sub-Regional officer and Regional officer of the Board under whose jurisdiction the factory is situated.
 - (v) The storage tanks shall be kept in good conditions all the year round with adequate maintenance. The tanks size and capacity per cm, height, total capacity in tones shall be displayed prominently near /on the tank.
 - (vi) The above conditions shall be in addition to and not in derogation of the provisions contained in the "Bombay Molasses Rules, 1955" and "Maharashtra Molasses Storage and Supply Regulation, 1965".
- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines if applicable.

II) **The water budget of 2500 TCD sugar unit is as :**

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, boiler feed etc.,	20.00
2.	Domestic purpose	20.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	350.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	—

Schedule-I

I) Terms & Conditions for compliance of Water Pollution Control

- 1) A] As per your application, you have provided Effluent Treatment Plant (ETP) with the design capacity **300 CMD**
- 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 27°C)	100
04	Sulphate	1000
05	Suspended Solids	100
06	COD	250
07	Chloride	600
08	Total Dissolved Solids	2100

- C] The treated trade effluent 240 CMD shall be disposed on land (30 Acres) for irrigation/ gardening. (Own land /as per the bilateral agreement with farmers).
- D] CREP conditions for Sugar Factory
- i. 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.
 - ii. Waste water generation shall be reduced to 100 litres per tone of cane crushed.
 - iii. Industry shall achieve zero discharge into in land surface water bodies.
 - iv. 15 days storage capacity tank shall be provided for treated effluent to take care of no demand for irrigation.
- E] Industry to make necessary arrangement to cover the effluent collection system and to avoid the ingress of Bagasse other material
- 2) A] As per your consent application, for the 16 CMD sewage generation you have provided the Septic tank and Soak Pit.
- B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.
- | | | | | |
|-----|------------------|---------------|-----|-------|
| (1) | Suspended Solids | Not to exceed | 100 | mg/l. |
| (2) | BOD 3 days 27°C | Not to exceed | 10 | mg/l. |
- C] The treated sewage shall be disposed on land for gardening/irrigation.

Schedule-II

Terms & conditions for compliance of Air Pollution Control

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

Sr. No.	Stack Attached to	APC System	Height in meter	Type of Fuel	Quantity	S %	SO ₂ Kg/ Day
1.	Boiler	Wet Scrubber	29	Bagasse	650 MT/D	0.2%	260
2	D.G Set x 2 (500 KVA & 30 KVA)	Stack	5.0	HSD	100 Lit./D	1.0%	1.2

2. The Applicant shall provide ESP/ Bag filter/ Wet scrubber to the Bagasse fired boiler and Dust Collector to Sugar bagging section as an Air Pollution control equipments OR as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.
3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³
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4. 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.
5. 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 Guarantees

Proposed Bank Guarantee:

Sr. No	Code	BG Guarantee Amount	Submission Period	Consent conditions	Compliance period	Validity
1	S 7	Rs. 5.0 Lakhs	Extended after expiry	O & M for achieving consented standards of Effluent and compliance of Consent conditions	Continuous	30/09/2019
2	S 8			O & M for achieving consented standards of Stack emission and compliance of Consent conditions	Continuous	

*Above Bank Guarantees shall be submitted within 15 days in favor of Regional Officer Aurangabad.



Maharashtra Pollution Control Board

Schedule-IV

General Conditions

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly.
- 3) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the H and other Wastes (M&TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 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 and Other wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) **The applicant shall make an application for renewal of the consent 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 (www.mpcb.gov.in).
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) 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.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) 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.
- 16) Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.

- b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
- f) D.G. Set shall be operated only in case of power failure.
- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 17) The industry should not cause any nuisance in surrounding area.
- 18) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 19) The applicant shall maintain good housekeeping.
- 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a 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.
- 21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 22) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 24) The industry shall submit 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).
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 27) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
- 28) 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.

-----0000-----





Application for Consent/ Authorisation

Sir,
I/We hereby apply for*

1. Consent to Establish/Operate/Renewal of consent under section 25 and 26 of the Water (Prevention & Control of Pollution) Act, 1974 as amended.
2. Consent to Establish/Operate/Renewal of consent under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended.
3. Authorization/renewal of authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 in connection with my/our/existing/proposed/altered/ additional manufacturing/processing activity from the premises as per the details given below.

Consent Information

UAN No: MPCB-CONSENT-0000092661
Application submitted on: 30-05-2020

Industry Information

Consent To: Renewal (Normal)
IIN No.: 1912000430
Submit to: SRO - Aurangabad I

Type of institution: Industry
Industry Type: R12 Sugar (excluding Khandsari)
Category: Red
Scale: L.S.I

EC Reqd. No
EC Obtained No
EC Ref. No. NA

Whether construction-buildup area is more than 20,000 sq.mtr.(Existing Expansion Unit) No

General Information

1. Name, designation, office address with Telephone/Fax numbers, e-mail of the Applicant Occupier/Industry/Institution / Local Body.

Name Patare A. B.	Address Dhamori Gut no 194-198, Dahegaon Paithan Road
Designation CEO	Taluka Gangapur
Area Dhamori Gut no 194-198, Dahegaon Paithan Road	District Aurangabad
Telephone 7507771400	Fax 0
Email mukteshwar.sugarmill@gmail.com	Pan Number AAECM9672M

2. (a) Name and location of the industrial unit/premises for which the application is made (Give revenue Survey Number/Plot number name of Taluka and District, also telephone and fax number)

Industry name
MUKTESHWAR SUGAR MILLS LTD

Location of Unit

Survey number/Plot Number



MUKTESHWAR SUGAR MILLS LTD.

Regd. Office : 210, The Pentagon,
Shahu College Road, Next to Satara Road,
Tel. Exchange, Parvati, Pune - 411 009.
Maharashtra.
Ph. : 020-24227358, 24218307, 7507771400
Fax : 020-66016576
Email : mukteshwar.sugarmill@gmail.com
CIN No. U154240B2007PLC29478
GST No. 27AAECM9672M12P

Admin/2018-19/404
Date- 05/10/2018

प्रति,

मा. मुख्य अधिकक अभियंता व मुख्य प्रशासकसाहेब,
लाभक्षेत्र विकास व जलसंपदा विभाग,
(कडाभवन) औरंगाबाद

विषय :- औद्योगिक व पिण्यासाठी पाणी वापर परवाना मिळणे बाबत.

संदर्भ :- आपले पत्र क्रमांक जापावि/बि.सिं/964/सह दि. 10/09/2018



महोदय,

आमच्या साखर कारखान्यास औद्योगिक वापराकरिता तसेच कर्मचारी वसाहतीमध्ये राहणा-या कामगारांना, ऊस तोडणी मजूरकरिता व त्यांचे जनावरांचे पिण्यासाठी जायकवाडी जलाशय फुगवठा शिवार-महालक्ष्मीखेडा येथून पाण्याची आवश्यकता आहे.

आमचा साखर कारखाना हा हंगामी चालणारा कृषि - औद्योगिक प्रकल्प असून येथे कार्यक्षेत्रातील शेतक-यांचे उसावर प्रक्रिया करून साखर उत्पादन केले जाते. कारखान्याची मंजूर गाळप क्षमता 2500 मे.टन प्रतिदिन असून स्थापित गाळप क्षमता 1250 मे.टन प्रतिदिनी आहे.

साखर उत्पादना व्यतिरिक्त आमचेकडे अन्य उपपदार्थ उत्पादन उदा. अल्कोहोल, विज निर्माती इत्यादी कोणतेही नाहीत.

साखर कारखान्याचा गाळप हंगाम दरवर्षी माहे नोव्हेंबर ते मार्च या कालावधीचा असतो. व एप्रिल ते ऑक्टोबर या कालावधीत कारखाना बंद असतो. साहजिकच हंगाम कालावधीमध्ये पाण्याची आवश्यकता अधिक असते व कारखाना (ऑफ सिझन) बंद कालावधी मध्ये पाण्याचा वापर अत्यल्प असतो.

औद्योगिक व पिण्यासाठी पाणी वापर परवानगीकरिता विहित नमुण्यात प्रस्ताव सोबत सादर करित आहोत.

तरी आमचे कारखान्यास जायकवाडी जलाशय फुगवठा शिवार-महालक्ष्मीखेडा येथून औद्योगिक व पिण्यासाठी पाणी वापर परवानगी मिळावी

हि नम्र विनंती.

प्रत

मा. शाखा अभियंता साहेब,
जायकवाडी जलाशय पाणी फुगवठा विभाग गंगापूर
ता. गंगापूर, जि. औरंगाबाद
याचे मार्फत सात प्रतित प्रस्ताव सादर

प्रस्ताव मिळाला
गंगापूर
8/10/2018

नायक

गंगापूर कारी फुगवठा शाखा
गंगापूर

आपला विश्वासू

(ए. बी. पटारे)

मुख्य कार्यकारी अधिकारी



सहाय्यक कार्यकारी अभियंता
जायकवाडी पाटबंधारे उप विभाग क्रमांक - 5 औरंगाबाद

दूरध्वनी क्र. कार्यालय - (0240) 2331095

E-mail : ccrjisd5@gmail.com

जा.क्र./बि.सि/ २१२/१९९

दि. २२/०३/२०१९

प्रति,

मा.कार्यकारी अभियंता
जायकवाडी पाटबंधारे विभाग ना.न(उ)
पैठण.

विषय :- मुक्तेश्वर शुगर मील लि.धामोरी बु. ता.गंगापूर जि. औरंगाबाद.
या योजनेचा औद्योगिक पाणी वापरसाठी आरक्षण प्रस्ताव सादर करणे बाबत.

- संदर्भ :-**
1. प्राधिकरण कार्यालयाचे पत्र क्र.लाक्षेविप्राऔ/तांशा-२/५२६७ ,
दिनांक:०६/१२/२०१८.
 2. विभागीय कार्यालयाचे पत्र क्र.जा.पा.वि./प्रशा-२/५४०० ,
दिनांक:१५/१२/२०१८.
 3. या कार्यालयाचे पत्र क्र.बि.सि./१३२/सह, दि.०८/०१/२०१९.
 4. प्राधिकरण कार्यालयाचे पत्र क्र.लाक्षेविप्राऔ/तांशा-२/८५० ,
दिनांक:२०/०२/२०१९.
 5. विभागीय कार्यालयाचे पत्र क्र.जा.पा.वि./प्रशा-४/१२३८/सो. ,
दिनांक:११/०३/२०१९.

उपरोक्त संदर्भिय पत्र क्र.(३) व(४) च्या अनुषंगाने सुचवण्यात आलेल्या त्रुटी ची पुर्तता करून,
मुक्तेश्वर शुगर मील लि.धामोरी बु.ता.गंगापूर. जि. औरंगाबाद.या योजनेचा जायकवाडी प्रकल्प
जलाशयातून औद्योगिक पाणी वापरसाठी चा ०.०६१५ द.ल.घ.मी पाणी आरक्षणाचा प्रस्ताव पुढील
कार्यवाहीस्तव सादर करण्यात येत आहे.

करिता माहितीस्तव व पुढील कार्यवाहीस्तव सविनय सादर.

सोबत - पाणी आरक्षण प्रस्ताव ४ प्रतीत

सहाय्यक कार्यकारी अभियंता
जायकवाडी पाटबंधारे उप विभाग क्र ५
औरंगाबाद

प्रत-१.शाखाधिकारी, जायकवाडी पाटबंधारे फुगवटा शाखा, गंगापूर. यांना माहितीस्तव रवाना.

२.मुख्य कार्यकारी अधिकारी, मुक्तेश्वर शुगर मील लि.धामोरी बु., ता.गंगापूर. जि. औरंगाबाद.
यांना माहितीस्तव.



व्यापार प्रारंभ करने का प्रमाण-पत्र
कम्पनी अधिनियम 1956 की धारा 149(3) के अनुसरण में

कार्पोरेट पहचान संख्या : U15424PN2007PLC129478

मैं एतद्वारा सत्यापित करता हूँ कि मैसर्स
MUKTESHWAR SUGAR MILLS LIMITED

जिसका निगमन, कम्पनी अधिनियम, 1956(1956 का 1) के अंतर्गत दिनांक पंद्रह जनवरी दो हजार सात को किया गया था और जिसने निर्धारित प्रपत्र में घोषणा प्रस्तुत की है या विधिवत सत्यापित किया है कि उक्त कम्पनी ने, अधिनियम की धारा 149(2) (क) से (ग) तक की शर्तों का अनुपालन कर लिया है और व्यापार करने के लिए हकदार है।

यह प्रमाण-पत्र आज दिनांक तीस अप्रैल दो हजार सात को मेरे हस्ताक्षर से पूरे में जारी किया जाता है।

Certificate for Commencement of Business

Pursuant of Section 149(3) of the Companies Act, 1956

Corporate Identity Number : U15424PN2007PLC129478

I hereby certify that the MUKTESHWAR SUGAR MILLS LIMITED which was incorporated under the Companies Act, 1956(No. 1 of 1956) on the Fifteenth day of January Two Thousand Seven, and which has this day filed or duly verified declaration in the prescribed form that the conditions of the Section 149(2)(a) to (c) of the said act, have been complied with and is entitled to commence business.

Given under my hand at Pune this Thirtieth day of April Two Thousand Seven.



(KATKAR VISHNU PANDURANG)

कम्पनी रजिस्ट्रार / Registrar of Companies
महाराष्ट्र, पुणे
Maharashtra, Pune



सत्यमेव जयते

Form 1

Certificate of Incorporation

Corporate Identity Number : U15424PN2007PLC129478

2006 - 2007

I hereby certify that MUKTESHWAR SUGAR MILLS LIMITED is this day incorporated under the Companies Act, 1956 (No. 1 of 1956) and that the company is limited.

Given under my hand at Pune this FIFTEENTH day of JANUARY
TWO THOUSAND SEVEN.



(KATRIKAR VISHNU PANDURANG)

Registrar of Companies
Maharashtra, Pune



दिनांक: 13/08/2007

जा.क्र.

मा.व्यवस्थापक,

मुक्तेश्वर शुगर मिल्स लि.

धामोरी, ता. गंगापूर जि. औरंगाबाद

विषय: नाहरकत प्रमाणपत्र व ठराव

महोदय,

वरील विषयास अनुसरून विनंती की, मौजे धामोरी शिवरातील गट नंबर 194/195/196/197/198/190/191/192 मध्ये आपण राबवित असलेल्या साखर कारखाना, आसवानी प्रकल्प, विज निर्माती प्रकल्प व तद्अनुषंगिक प्रकल्प राबविण्यास आमच्या ग्रामपंचायतीच्या ठराव क्रमांक 6 दि. 13/8/2007 नुसार नाहरकत देण्यात येत आहे. तरी ठरावातील उल्लेखाप्रमाणे शैक्षणिक अर्हता व योग्यतेनुसार प्रकल्पाच्या कामास सुरु होतांना मौजे धामोरी शिवरातील व परिसरातील रोजगारांना रोजगारास प्राधान्य देण्यात यावे. करीता प्रमाणपत्र देण्यात येत आहे.

सोबत : ठराव 2 प्रतीत

ग्रामपंचायत
धामोरी ग्राम पंचायत धामोरी बु.
गंगापूर जि. औरंगाबाद
ता. गंगापूर जि. औरंगाबाद

ठराव



विषय क 6 मुक्तेश्वर शुगर मिल्स लि.धामोरी यांचे आलेले पत्र मुक्तेश्वर विकास 2007-08 दि.01/08/2007 नुसार ना हरकत प्रमाणपत्र व ठराव दणे बाबत विचार विनीमय करणे.

ठराव क 6 दि.13/08/2007 रोजी झालेल्या ग्रामपंचायत सदस्य समितीच्या सभेसमोर मुक्तेश्वर शुगर मिल्स लि.धामोरी यांच्या पत्राचा वाचून प्रकल्प राबविणे बाबतची माहिती सभेसमोर घेण्यात आली व झालेल्या चर्चेनुसार मौजेधामोरी शिवरातील गट नं.194/195/196/197 व 198 मधील 45 एकर 24 गुंठे क्षेत्रात साखर कारखान्यास आमच्या ग्रामपंचायतीचे ना हरकत प्रमाणपत्र व ठराव देण्याबाबत चर्चा झाली व चर्चेनुसार सदरील साखर कारखान्यास संपूर्ण सहकार्य करण्यात यावे असे सर्वानुमते ठरले.

स्थानिक बेरोजगारांना प्राधान्याने रोजगार/नोकरी देण्यात यावी.

सुचक : नारायण शंकर शेळके
अनुमोदक : प्रभाकर गणपत वाघ
ठराव सर्वानुमते मंजूर

ग्रामसेवक
धामोरी ग्राम पंचायत धामोरी बु.
ता. गंगापूर जि. औरंगाबाद



MUKTESHWAR SUGAR MILLS LTD.

Regd. Office : 210, The Pentagon,
Shahu College Road, Next to Satara Road,
Tel. Exchange, Parvati, Pune - 411 009,
Maharashtra.
Ph. : 020-24227358, 24218307, 7507771400
Fax : 020-66016576
Email : mukteshwar.sugarmill@gmail.com
CIN No. U15424OR2007PLC29478
GST No. 27AAECM9672M12P

DECLARATION

This is to state that the 'Executive Summary & Draft EIA Report' submitted herewith has been prepared in respect of our proposed 45KLPD molasses/ cane juice based distillery by – **Mukteshwar Sugar Mills Ltd. (MSML)**, located at Gat No. 190, 191, 192, 194, 195, 196, 197, 198, A/p: Dhamori (BK), Tal.: Gangapur, Dist.: Aurangabad, 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.

Annasaheb B. Patare
(Chief Executive Officer)

Mukteshwar Sugar Mills Ltd., (MSML)
A/p: Dhamori, Tal.: Gangapur, Dist:
Aurangabad, 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





MUKTESHWAR SUGAR MILLS LTD.

Regd. Office : 210, The Pentagon,
Shahu College Road, Next to Satara Road,
Tel. Exchange, Parvati, Pune - 411 009.
Maharashtra.
Ph. : 020-24227358, 24218307, 7507771400
Fax : 020-66016576
Email : mukteshwar.sugarmill@gmail.com
CIN No. U15424OB2007PLC29478
GST No. 27AAECM9672M1ZP

MFG/2020-21/124
Dtd- 15/07/2020

**Declaration about Environmental Status, Management and Compliance
donew.r.t.Existing as well as Proposed Projects of
Mukteshwar Sugar Mills Ltd. (MSML)
A/p: Dhamori (BK), Tal.: Gangapur, Dist.: Aurangabad, (MS)**

This is to state that 'Mukteshwar Sugar Mills Ltd.(MSML)' located at Gat No. 190, 191, 192, 194, 195, 196, 197, 198, A/p: Dhamori (BK), Tal.: Gangapur, Dist.: Aurangabad, Maharashtra is going to establish a 45 KLPD Molasses/ Cane Juice based distillery unit. In this connection, a declaration is being made as follows -

1. Presently the Industry is having manufacturing setup for Sugar Factory of 2500 TCD.
2. The existing 2500TCD Sugar Factory is having 'Consent to Operate (CTO)' issued by Maharashtra Pollution Control Board (MPCB) vide Order No. CC-1912000430 dated 09.12.2019 valid upto 31.07.2020.
3. Now, the management of Mukteshwar Sugar Mills Ltd. has decided to establish a 45 KLPD Molasses/Cane juice based Distillery unit at Gat No. 190, 191, 192, 194, 195, 196, 197, 198, A/p: Dhamori (BK), Tal.: Gangapur, Dist.: Aurangabad, Maharashtra State.
4. The industry has cautiously & meticulously followed directions, from time to time, issued by CPCB; MPCB; DoE etc. and have complied with all consent conditions of the Sugar Factory.
5. The industry has, so far, never violated any conditions from the MPCB Consent Orders issued from time to time neither have done violation of the stipulations in EIA notification of 14.09.2006 with amendments thereto.
6. Now, in the premises of existing Sugar Factory, the 45 KLPD Molasses/ Cane juice based Distillery unit shall be established so as to have an "Integrated Project Complex" under title of MSML.
7. All appropriate and adequate infrastructure under Environmental Management Plan has been installed in the MSML industry which is duly operated & maintained through experienced and qualified manpower & staff of the EMC (Environmental Management Cell). The Industry also has a SHE Policy; provisions under which are duly followed.
8. All requisite compliances under the EPA 1986, CREP and Consents conditions are timely observed by the industry.
9. There are no any SCN, PD, ID & Closure Directions against the industry issued by MPCB, CPCB, MoEFCC and DoE as on the date of submission of application for grant of Environmental Clearance / draft EIA Report submission to the MPCB for conducting Public Hearing.
10. There is no any "Court Case" against the MSML industry while operating existing 2500 TCD Sugar Factory.
11. Under proposed 45 KLPD Molasses/ Cane juice based Distillery Unit, the industry has not taken any steps towards establishment of the project or activities thereunder which could result in to and/or stated as "Violation" as per MoEFCC Notification No. S.O. (E) 804 dated 14.03.2017 and amendment to same vide Notification No. S.O. 1030 (E) dated 08.03.2018 as well as in light of provisions of Environment Protection Act 1986 and rules thereunder.

The above declaration is being made in addition to as well as in support of facts, figures, information and data presented in the EIA Report being submitted by Mukteshwar Sugar Mills Ltd. (MSML) located at Gat No. 190-192 & 194-198, A/p: Dhamori (BK), Tal.: Gangapur, Dist.: Aurangabad, Maharashtra for grant of 'Environmental Clearance' towards establishment 45 KLPD molasses/cane juice based Distillery.

Date: July 15, 2020
Place: Dhamori, Aurangabad



Annasaheb B. Patare
(Chief Executive Officer)

Mukteshwar Sugar Mills Ltd.
A/p: Dhamori, Tal.: Gangapur, Dist.: Aurangabad

C.C. :

1. Member Secretary; EAC (Ind.-2), MoEFCC, New Delhi.
2. Regional Officer, MoEFCC, Nagpur.
3. CPCB, Parivesh Bhawan, East Arjun Nagar, New Delhi.
4. Member Secretary; MPCB, Mumbai.
5. Director; Department of Environment; Govt. of Maharashtra, Mumbai.
6. Equinox Environments India Pvt. Ltd., Kolhapur (ACO).