P-558-SMSMPSSK-E-DISTILLERY-52022

SUMMARY ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REPORT

(IN ENGLISH AND MARATHI)

FOR

EXPANSION OF MOLASSES BASED DISTILLERY FROM 60 TO 120 KLPD USING C / B HEAVY MOLASSES/ SUGARCANE JUICE / SYRUP IN THE EXISTING PREMISES OF 10,000 TCD SUGAR FACTORY, 33 MW CO - GENERATION PLANT & 20 MT/DAY ACETIC ACID PLANT.

BY

M/S. SAHAKAR MAHARSHI SHANKARRAO MOHITE-PATIL SAHAKARI SAKHAR KARKHANA LTD.

AT: SHANKARNAGAR - AKLUJ, TAL.: MALSHIRAS,
DIST.: SOLAPUR, MAHARASHTRA

PREPARED BY

EQUINOX
Equinox Environments (India) Pvt. Ltd.

EQUINOX ENVIRONMENTS (I) PVT. LTD.,

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AN ISO 9001 : 2015 & QCI - NABET ACCREDITED ORGANIZATION

MARCH - 2023

"An ISO 9001:2015 Certified Factory"
Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd; Shankarnagar-Akluj
Post. Yashwantnagar, Tal. Malshiras, Dist. Solapur (Maharashtra). Pin - 413118

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Fax No. - (02185) 222249
Resi. Chairman - (02185) 222755, 225599
Resi. Managing Director - (02185) 222248

Ref no./Environment/ 7515/2022-23 **DATE: 15 MAR 2023**

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

Sub.: Application for grant of Environmental Clearance (EC) in respect of Expansion of molasses based Distillery from 60 to 120 KLPD using C / B heavy Molasses/ Sugarcane Juice/ Syrup in the existing premises of 10,000 TCD Sugar Factory, 33 MW Co- generation plant& 20 MT/Day Acetic Acid Plant by – **Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd. (SMSMPSSKL)**, located at At: - Shankarnagar-Akaluj, Tal- Malshiras, Dist. - Solapur, Maharashtra.

Ref.: 'Terms of Reference'(ToR) granted vide letter No.IA-J-11011/516/2022-IA-II(I) dated 06.12.2022. Copy is enclosed at **Enclosure – 1.**

Dear Sir,

We – **"Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd. (SMSMPSSKL)"** have planned forExpansion of molasses based Distillery from 60 to 120 KLPD using C / B heavy Molasses/ Sugarcane Juice/ Syrup in the existing premises of 10,000 TCD Sugar Factory, 33 MW Co- generation plant & 20 MT/Day Acetic Acid Plant , located at At: - Shankarnagar-Akaluj, Tal- Malshiras, Dist. - Solapur, Maharashtra.

Accordingly, an application in Form – 1 format was submitted to the 'Ministry of Environment and Forests (MoEF); New Delhi' for grant of ToR's on 30.11.2022. Subsequently, standard ToR's were granted. Refer **Enclosure – 1** for copy ofToR letter. In the ToR letter, directions were given to conduct Public Hearing w.r.t. our proposed 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 and 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 unit.

"An ISO 9001:2015 Certified Factory"
Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd; Shankarnagar-Akluj
Post. Yeshwantnagar, Tal. Malshiras, Dist. Solapur (Maharashtra), Pin - 413118

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Resi. Managing Director - (02185) 222248

'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) bearing no.036410 drawn on BANK OF INDIA dated 16/03/2023 towards the Public Hearing charges, as decided by the govt., has been presented herewith.

Please do the needful and oblige.

Thanking you.

Yours faithfully,

Mr. Rajendra Kerba Chaugule
Managing Director.
SMSMPSSKLtd,Shankarnagar-Akluj

Encl: 1. Executive Summary of project
2. A Draft EIA Report
3. A D.D. bearing No. 036410 dated 16/03/2023 drawn on BANK OF INDIA

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Summary of Draft EIA Report

By

Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd. (SMSMPSSKL);At: - Shankarnagar-Akaluj, Tal- Malshiras, Dist. - Solapur, Maharashtra.

Expansion of molasses based Distillery from 60 to 120 KLPD using C / B heavy Molasses/ Sugarcane Juice/ Syrup in the existing premises of 10,000 TCD Sugar Factory, 33 MW Co- generation plant & 20 MT/Day Acetic Acid Plant.

1) THE PROJECT & PURPOSE

The **Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd. (SMSMPSSKL**) is located at- Shankarnagar-Akaluj, Post- Yeshwantnagar, Tal.: Malshiras, Dist.: Solapur, Maharashtra. SMSMPSSKL is an integrated project complex comprising of 10,000 TCD Sugar Factory, 33 MW Co-generation Plant, 60 KLPD molasses distillery & 20 MT/D Acetic Acid Plant. Geographical location of the site is 75°0'23.93"E longitude and 17°52'3.92"N latitude. Company is registered under Section 10 of the Bombay Co-operative Societies Act, 1925.(Bom.VII of 1925) in year 1960 with certificate No. G-280. Initially, sugar factory was named as **'Yeshwant Sahakari Sakhar Karkhana Ltd.'** founded by a great visionary late Shankarrao Mohite-Patil. After the demise of Shankarrao Mohite-Patil it is named as **Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd**. First crushing season of sugar factory was undertaken in Feb. 1963 with crushing capacity 1,000 TCD. Due to availability of excess cane in command area, crushing capacity has been increased as per the requirement from the establishment of industry till now. The Distillery got established in year 1984 with capacity of 30 KLPD. In year 1993, the additional distillery with 30 KLPD capacity was established. In 2008, the Expansion of Sugar Factory from 6000 TCD to 7500 TCD and setting up 33 MW Bagasse based Co-generation unit was granted the Environmental Clearance (EC) from MoEFCC, New Delhi vide letter No.-J-11011/297/2007-IA II (I). In the year 2014, both 30 KLPD distilleries modified into a single 60 KLPD Unit. In 2019, The EC granted for expansion/Modernization of sugar factory capacity from 7,500 TCD to 10,000 TCD with vide letter No. SEIAA-EC-0000001500. Presently the industry is operating on 7,500 TCD and CTO for same is procured. Now, Management has decided to expand the Distillery capacity from 60 to 120 KLPD ethanol production for meeting the National Demand of Bioethanol under the Ethanol Blending Program (EBP) -2018 & thereby implementing the 120 KLPD Distillery unit.

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 SMSMPSSKL has decided go for expansion of Distillery from 60 to 120 KLPD using B/C Heavy Molasses / Sugarcane Juice/ Sugarcane Syrup.

As per the provision of "EIA Notification No. S. O. 1533 (E)" dated 14.09.2006 as amended vide Notification dated 13 June 2019, the project comes under Category - A. Accordingly, Form -1 application is submitted to MoEFCC, and ToRs granted on 06.12.2022. Details of capital investment are given in table 2.

Table 1. Project Investment Details

No.	Industrial Unit	Capital Investment (Rs. Cr.)		
		Existing	Proposed	Total
1	Sugar Factory	333.19	--	333.19
2	Co-gen Plant	165.12	--	165.12
3	Acetic Acid Plant	11.0056	--	11.0056
3	Distillery	47.38	47.38	94.76
	Total	**556.695**	**47.38**	**604.07**

2) THE PROMOTERS

SMSMPSSKL promoters are well experienced in the field of Sugar Factory, Co-gen Plant and 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 2. List of Promoters

No.	Name	Designation
1	Hon. Shri. Vijaysinh Shankarrao Mohite- Patil	Director
2	Hon. Shri Jaysinh Shankarrao Mohite- Patil	Chairman
3	Hon. Shri Prakashrao Vyankatrao Patil	Vice Chairman
4	Shri. Namdev Vithoba Thavare	Director
5	Shri Lakshman Shanakar Shinde	Director
6	Shri. Suresh Gajendra Patil	Director
7	Shri. Dhananjay Umaji Chavan	Director
8	Shri. Shankarrao Ramchandrarao Mane-Deshmukh	Director
9	Shri. Vijay Balkrushna Mane-Deshmukh	Director
10	Shri. Vijaykumar Namdeorao Pawar	Director
11	Shri. Raosaheb Vithoba Magar	Director
12	Shri. Milind Vishnupant Kulkarni	Director
13	Shri. Mahadevrao Yadavrao Ghadge	Director
14	Shri. Rajendra Bhikaji Mohite	Director
15	Shri. Vikas Sarjerao Kalkute	Director
16	Shri. Changdev Murlidhar Ghorge	Director
17	Sou. Madhuri Mohanrao Londhe	Director
18	Smt. Kamal Vitthal Jorvar	Women Director
19	Smt. Kumabai Abhimanu Kshirsagar	Women Director
20	Shri. Bharat Maruti Phule	Director
21	Shri. Bhimrao Jagannath Kale	Director
22	Shri. Baburao Shivajirao Patale	Expert Director
23	Shri. Satish balkrushna Shendage	Expert Director
24	Shri. Mohit Subhashrao Inamdar	Functional Director
25	Shri. Rajendra Keraba Chaugule	Managing Director

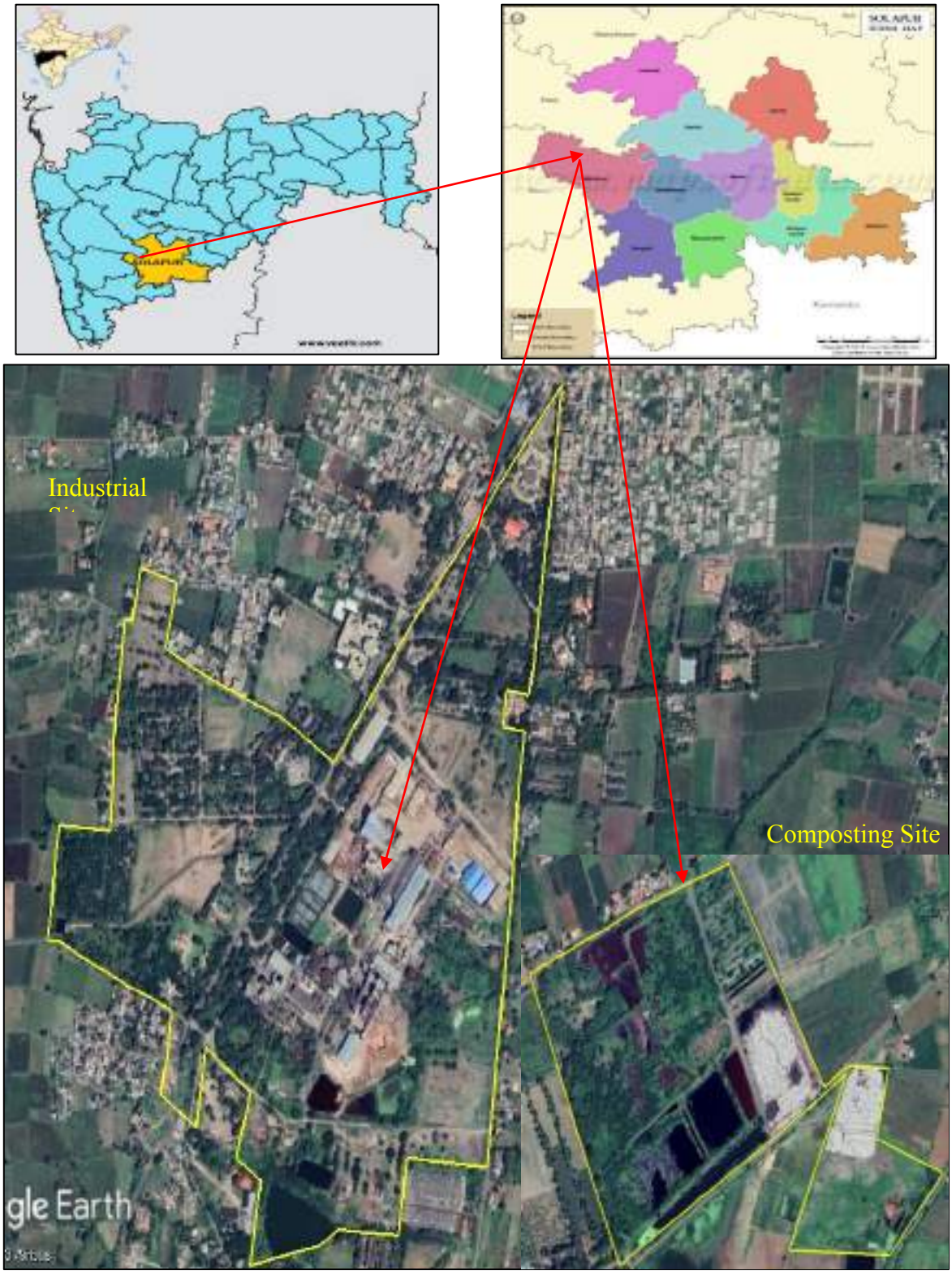
3) THE PLACE

Total land area acquired by the SMSMPSSKL is **121 Ha** which include existing Sugar Factory, Co-gen plant, Distillery Setup and Pisewadi composting site. The Gat Nos. of Industrial Site - 13, 13/1/A, 13/2, 28, 29, 30, 69/1/B/1, 70, 71, 71/1, 71/2, 72, 72/1, 73, 74, 80, 80/3/A, 80/4, 80/5, 80/6/A, 80/9/A, 80/12, 80/13, 81, 81/5, 83/2/B, 93, 93/2/A, 93/2/B/1, 94 and Pisewadi Composting Site- 161/1, 161/2, 161/3, 201, 220/2, 208/2, 203. Detailed area statement is presented at Table 2 from which it could be seen that sufficient land is available with SMSMPSSKL for various activities under existing and proposed projects. There is no any additional area will be considered because the distillery expansion activity will be carried out in existing distillery premises & only installation of additional equipment will be done. Refer Appendix - A of Draft EIA report for plot layout plan.

Table 3. Area Break up

No	List of area	Existing	Expansion	Total After expansion
1	**Total Plot Area**	**12,10,000**	-	**12,10,000**
2	Total Built up Area	1,38,506.45	-	1,38,506.45
	Sugar & Co-gen	85,956.62	-	85,956.62
	Distillery	11,664.67	-	11,664.67
	Residential Colony	8,000.48	-	8,000.48
	Any Other Amenities	32,884.68	-	32,884.68
	Total Built up Area	**1,38,506.45**	**-**	**1,38,506.45**
3	Area Under Road	1,14,629.30	-	1,14,629.30
4	Parking Area (20%)	2,43,535.59	-	2,43,535.59
	Green Belt Area (33%)	4,02,840.81	-	4,02,840.81
5	**Total Open Area**	3,10,487.85	**-**	3,10,487.85

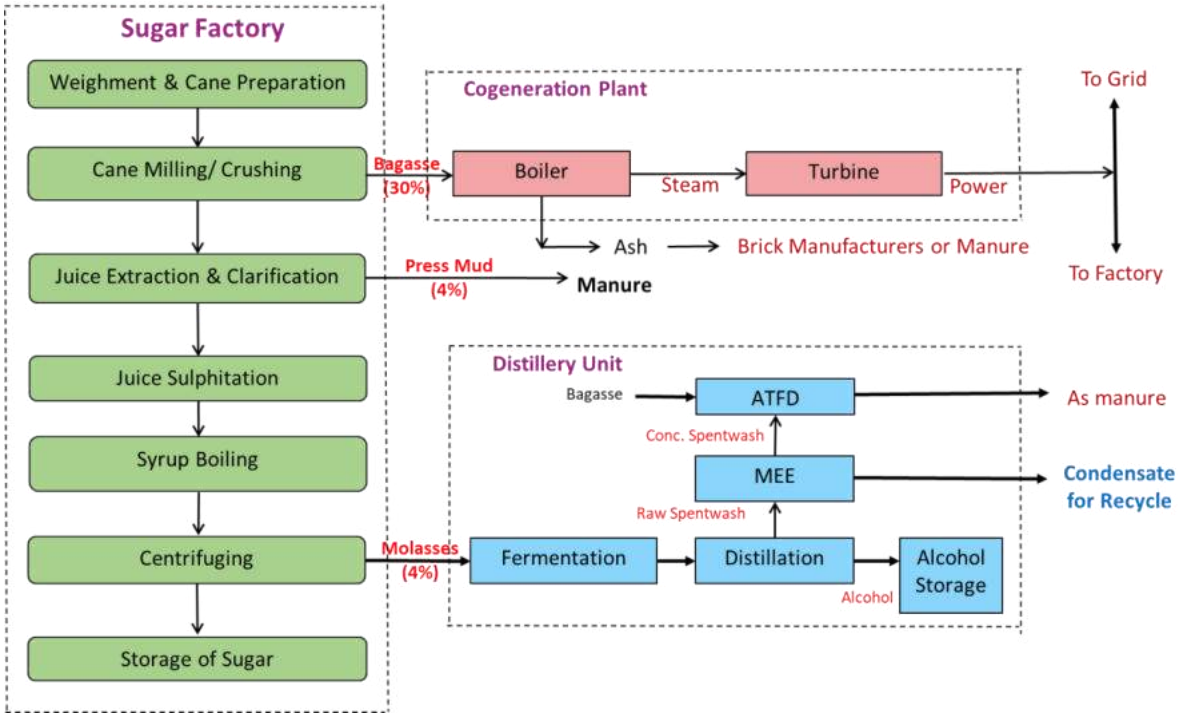
Figure 1. Location of the Project Site



Note- : The Maps are purely graphical and not to scale, 75°0'23.93"E longitude and 17°52'3.92"N latitude

4) MANUFACTURING PROCESS

Figure 2. Integrated Manufacturing Process Operations



5) THE PRODUCTS

The details of products that are being manufactured under the existing Sugar Factory, Co-gen Plant & Distillery as well as those to be manufactured under Sugar Factory & Distillery expansion are represented in the following table.

Table 4. Product & By-product for integrated Complex of Sugar, Co-gen & Distillery

Industrial unit	Product& By-product	Unit	Quantity		
			Existing	Expansion	Total
	Products				
Distillery (60-120 KLPD)	Rectified Alcohol / Rectified Spirit	KL/M	1800	1800	3600
	Silent Spirit / Extra Neutral Alcohol	KL/M	900	2700	3600
	Anhydrous Alcohol/ Ethanol (from own industry)	MT/M	960	1920	2880
	By-Products				
	CO_2 gas	MT/M	1350	1350	2700
	Fusel Oil	KL/M	18	18	36
Sugar Factory (10,000 TCD)	**Products**				
	Sugar (12%)	MT/M	37440	--	37440
	Refined Sugar (3%)	MT/M	9000	--	9000
	By-products				

	Bagasse (28%)	MT/M	84000	--	84000
	Press Mud (4%)	MT/M	11520	--	11520
	Molasses (4%)	MT/M	11520	--	11520
Co-Gen (33 MW)	Electricity	MW	33	--	33
Acetic Acid Plant, Bio Fertilizer Plant & Ethanol Plant	Acetic Acid	MT/M	900	--	900
	Acetaldehyde	MT/M	720	--	720
	Anhydrous Alcohol (Rthanol) by using RS only	MT/M	1200	--	1200
	Phosphate Solubilizing Bacteria	MT/M	20	--	20
	Azotobacter	MT/M	10	--	10

6) ENVIRONMENTAL ASPECTS

SMSMPSSKL has planned an effective 'Environmental Management Plan' under the expansion project. Various aspects of the same are as follows: -

A. Water Use, Effluent Generation and its Treatment

a. Water Use

Total water requirement after expansion of distillery shall be to the tune of 1648 M^3/Day. Out of this 204 CMD Fresh water will be taken from Nira Right Bank Canal, 1072 CMD will be Distillery CPU Treated Effluent Recycle during Molasses based operations & 372 CMD water from Excess Condensate Water.
Total water required for existing Sugar Factory & Co-gen plant is 4811 CMD. Out of this 35 CMD is fresh water taken from Nira Right Bank Canal, 4136 CMD is actual sugar cane condensate. 46 CMD is STP treated, 540 CMD is sugar ETP treated water & 54 CMD is Rain water Harvesting. More details about water budget are presented in EIA report at Chapter 2

Table 5. Water Consumption in Distillery Unit

Description	**Existing 60 KLPD**	**After Expansion 120 KLPD**		
	Molasses Based	**Molasses based**		**Cane Syrup Based**
		During Crushing	**During Non-Crushing**	
Domestic	#20	#22	#22	#22
Industrial				
Process	♠480	♠954	♠954	-
Cooling make-up	180 (♠12+ #168)	480(♠118+*362)	480(♠118+*232+ #130)	♠480
Boiler makeup	#60	*150	150 (#52+ *98)	♠150
DM backwash	#12	*30	*30	♠30
Lab & Wash	#3	*7	*7	♠7
Ash Quenching	Ω3	*5	*5	♠5

Industrial total	**738 (#243+♠492+Ω3)**	**1626 (*554+♠1072)**	**1626 (#182+♠1072+*372)**	♠672
Grand Total	**758 (#263+♠492+Ω3)**	**1648 (#22+*554+♠1072)**	**1648 (#204+♠1072+*372)**	**694(#22+♠672)**
Norm: Fresh water Consumption 10 KL/KL of Alcohol.	4.3	0	1.7	0

Note: # - Fresh Water from Nira right bank canal, ♣ - Molasses Distillery CPU Treated Effluent Recycle, Ω - Recycle water from ETP, ♠- Cane Juice Distillery CPU Treated Effluent Recycle, * Excess Cane Condensate

Table 6. Water Consumption of Existing Sugar Factory & Cogen Plant

No.	Description	Quantity (M^3/Day)
A	**Domestic**	#35
B	**Industrial**	
	a. Process	*2965
	b. Cooling Makeup	994 ($540+*454)
	c. Boiler Makeup	*336
	d. DM Backwash	*67
	e. Lab & Washing	*10
	f. Ash Quenching	*4
	Industrial Use	**4376 ($540+*3836)**
C	**Gardening**	400 (@46+*300+Ω54)
D	**Grand Total**	**4811 (*4136+$540+#35 +@46+ Ω54)**
	Recycle	**99%**
	Fresh Water Consumption (100 Lit/ MT of Cane Crushed)	0 Lit/MT

Note: # -Water taken from Nira right bank canal,* - Sugarcane condensate, $ - Treated water from ETP, @ - STP treated effluent, , Ω - Harvested rainwater

Table 7. Water Consumption in Acetic Acid Plant, Bio Fertilizer Plant & Ethanol Plant (As per the Valid Consent)

No.	Description	Existing Quantity (M^3/D)
I.	**Domestic**	5.30
II.	**Industrial**	
a.	Process	100.20
b.	Cooling makeup	300
c.	Boiling makeup	
	Total	**405.5**

b. Effluent Treatment & Disposal

i) Domestic Effluent Treatment & Disposal

Domestic effluent generated from existing complex is to the tune of 44 CMD same is being treated in soak pit followed by septic tank. After implementation of expansion project, total domestic effluent from SMSMPSSKL campus shall be 46 CMD (28 CMD from Sugar Factory & Co-gen Plant and 18 CMD from distillery) same shall be treated in Proposed STP.

ii) Industrial Effluent Treatment & Disposal

Total trade effluent generated from existing Sugar Factory & Co-gen Plant is 600 CMD. Same is treated in existing Effluent Treatment Plant (ETP) having capacity 750 M^3/D provided on site comprising of primary, secondary & tertiary unit operations. Presently, treated effluent from ETP is used for irrigation . Flow chart of existing sugar factory ETP and CPU is presented at figure –2 & 3.

Effluent quantity generated from 120 KLPD Distillery operations are as follows- total raw spentwash generated @ 960 M^3/D, same would be concentrated in Multiple effect evaporator (MEE) and the conc. spentwash @ 192 MT/D (1.6 KL/KL of alcohol) will dried in Agitated Thin Film Dryer (ATFD) to form powder. Other effluents viz. spent lees @ 166 M^3/D, MEE condensate @ 845 M^3/D and other effluents @ 133 M^3/D treated in CPU under distillery unit. Refer figure 4 for the CPU flow diagram w.r.t. proposed distillery. Treated water from CPU will be reused in process and boiler makeup, thereby achieving Zero Liquid Discharge (ZLD).

Table 8. Effluent Generation from Existing & Expansion Distillery

Description	**Existing**	**After Expansion 120 KLPD (M^3/D)**		**Treatment**
	60 KLPD (M^3/D)	**C Molasses**	**Cane Juice**	
Domestic	16	18	18	Presently treated in soak pits under expansion it will be treated in STP.
Process	Raw Spent wash – 480 Conc. Spentwash – 96 (1.6 KL/KL)	Raw Spent wash – 960 Conc. Spentwash – 192 (1.6 KL/KL)	Raw Spent wash – 480 Conc. Spentwash – 96 (1.6 KL/KL)	Raw spentwash from Syrup based operations shall be concentrated in MEE.Further Conc. Spentwash shall be dried in Agitated Thin Film Dryer (ATFD) to form powder. Existing composting treatment will be discontinued.
	MEE Condensate – 384	MEE Condensate– 845	MEE Condensate– 422	Other Effluents viz. spent lees, cooling blow down, boiler blow down, lab & washing, MEE condensate forwarded to Distillery CPU. Treated effluent is fully recycled in process & cooling make up to achieve Zero Liquid Discharge (ZLD)
	Spent Lees – 87	Spent Lees – 166	Spent Lees – 105	
Cooling Blow down	27	72	72	
Boiler Blow down	12	24	24	
Lab; Washing	3	7	7	
DM Backwash	12	30	30	
Total	**Conc. Spentwash – 96 Other effluent – 525**	**Conc. Spentwash – 192 Other effluent – 1144**	**Conc. Spentwash – 96 Other effluent – 660**	

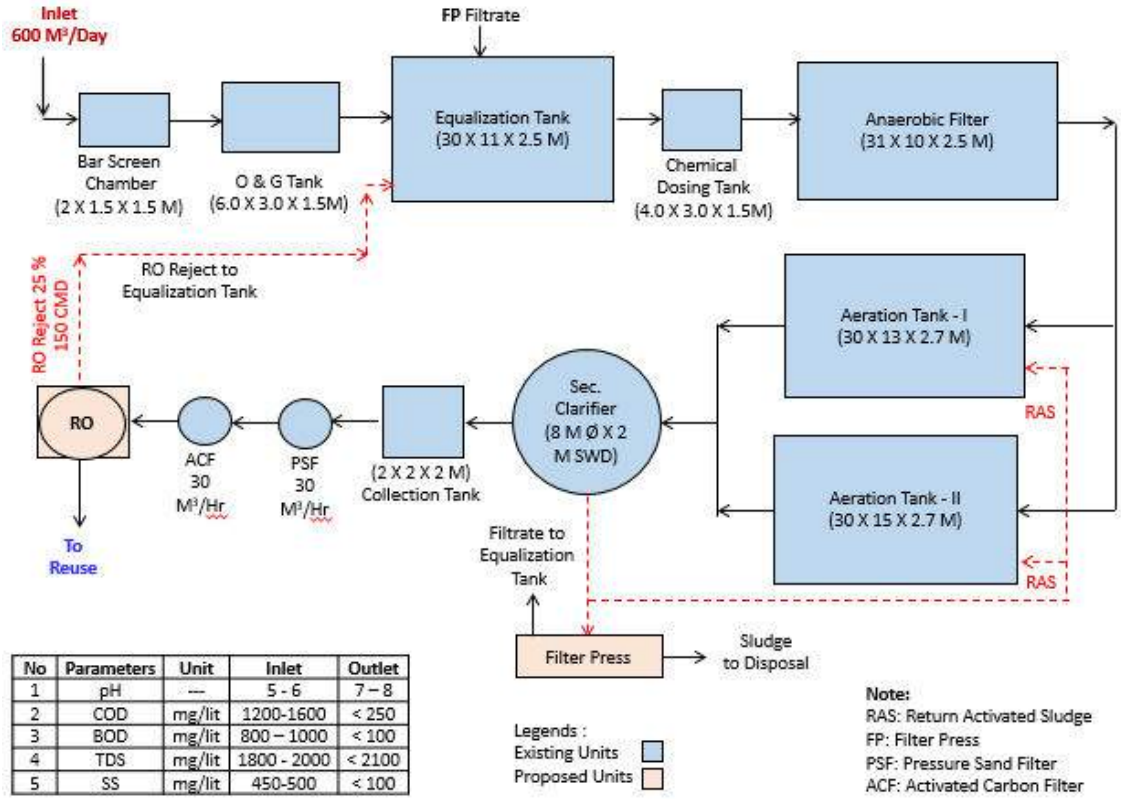
Table 9. Effluent Generation from Sugar Factory & Co-gen Plant

Description	Effluent, M^3/D (Existing Sugar & Cogen)	Disposal
Domestic	28	Proposed STP
Industrial		
a. Process	356	Treated in existing ETP provided on site
b. Cooling Blow down	100	
c. Boiler Blow down	67	
d. Lab & Wash	10	
e. DM Backwash	67	
Industrial Total (a+b+c+d+e)	**600**	
Effluent Norm: 100 Lit. / MT Cane crushed	60 lit.	

Table 10. Effluent Generation from Acetic Acid Plant, Bio Fertilizer Plant & Ethanol Plant (As per the Consent of Renewal)

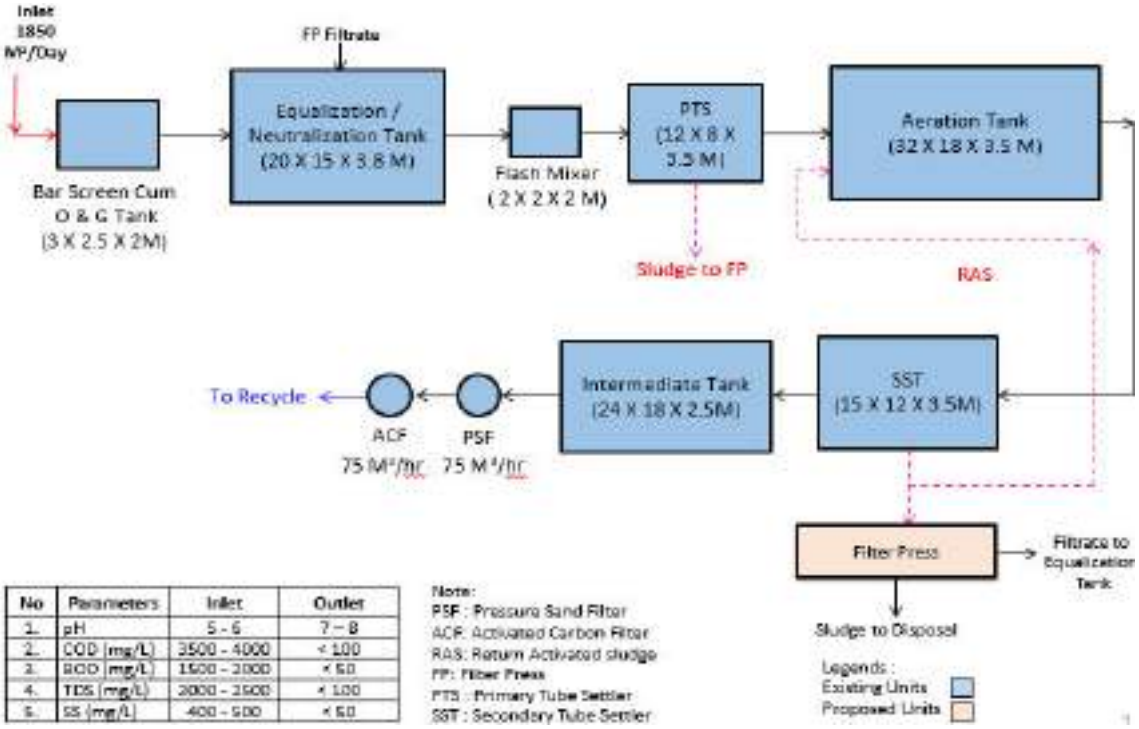
Description	Effluent (M^3/D)	Treatment
Domestic	5.1	For Gardening
Industrial	85.1	For Gardening

Figure 3. Flow Chart of Existing Sugar Factory ETP



No	Parameters	Unit	Inlet	Outlet
1	pH	---	5 - 6	7 – 8
2	COD	mg/lit	1200-1600	< 250
3	BOD	mg/lit	800 – 1000	< 100
4	TDS	mg/lit	1800 - 2000	< 2100
5	SS	mg/lit	450-500	< 100

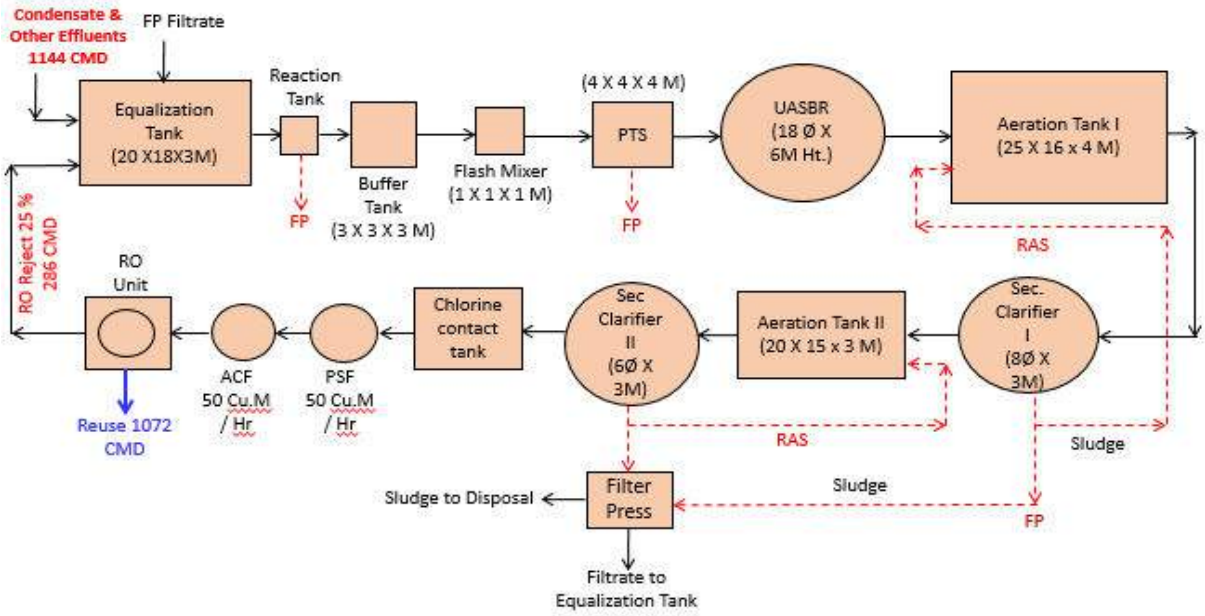
Figure 4. Flow Chart of Existing Sugar CPU



No	Parameters	Inlet	Outlet
1.	pH	5 - 6	7 – 8
2.	COD (mg/L)	3500 - 4000	< 100
3.	BOD (mg/L)	1500 - 2000	< 50
4.	TDS (mg/L)	2000 - 2500	< 100
5.	SS (mg/L)	400 - 500	< 50

Note:
PSF : Pressure Sand Filter
ACF: Activated Carbon Filter
RAS: Return Activated sludge
FP: Filter Press
PTS : Primary Tube Settler
SST : Secondary Tube Settler

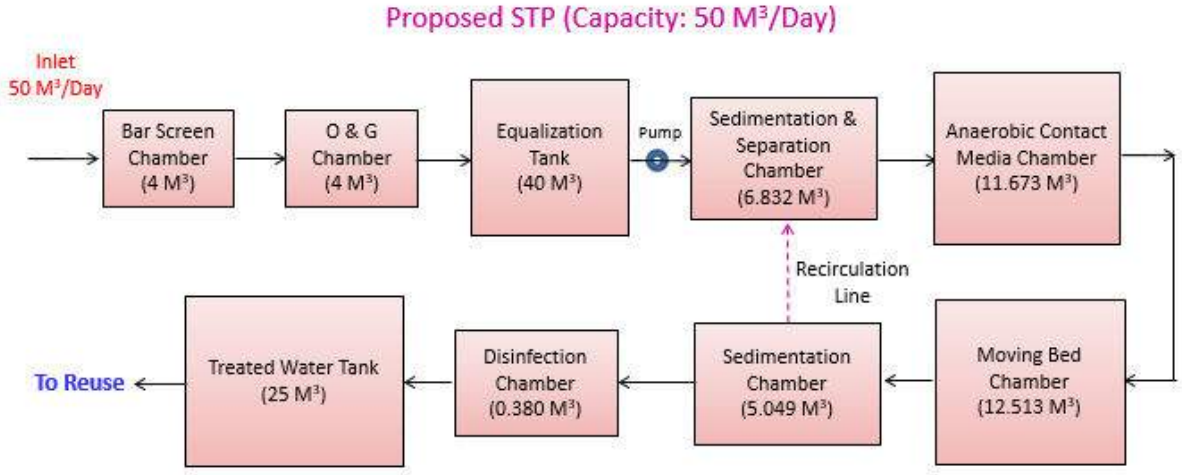
Figure 5. Flow Chart of Proposed Distillery CPU



No	Para.	Inlet	Outlet
1	pH	5-6	7 – 8
2	COD	3500-4000	< 100
3	BOD	2000-2500	< 50
4	TDS	2000-3000	< 100
All Parameters are in mg/L except pH			

Note:
ACF: Activated Carbon Filter.
PSF : Pressure Sand Filter.
PST: Primary Tube Settler.
FP: Filter Press.

Figure 6. Flow Chart of Proposed STP



No.	Parameter	Unit	Inlet	Outlet
1	pH	---	6.0 – 8.5	6.0 – 8.5
2	COD	mg/lit	400 – 500	< 50
3	BOD	mg/lit	250 – 300	< 20
4	TSS	mg/lit	150 - 250	< 30
5	O & G	mg/lit	20 - 30	< 10

B. Air Emissions

Under expansion project, the existing 140 TPH bagasse based boiler & 50 TPH bagasse boiler will be used. Steam required will be taken from existing boilers. Bagasse will be used for both 140 TPH & 50 TPH boiler & ESPs along with common stack of 80 M height will be provided. In existing unit, the 140 TPH boiler is used for Sugar factory. The 50 TPH boiler is used for distillery unit, out of which 25 TPH is utilized in existing distillery while under expansion remaining 25 TPH will be utilized. Hence total bagasse requirement for existing 140 TPH boiler & 50 TPH boiler will be 1680 MT/D & 400 MT/D respectively. The details on boiler & APC equipment is given as follows-

Table 11. Details of Boiler and Stack in SMSMPSSKL

No.	**Description**		**Existing**		
			Sugar & Co-gen + Distillery		
			Boiler		**D.G.Set**
			Sugar Factory	**Distillery**	
1	**Capacity**		**140 TPH**	**50 TPH**	**750 KVA**
2	**Number**		**1**	**1**	**2**
3	Fuel type		Bagasse	Bagasse	Diesel
4	Fuel Qty.	**Exist.**	1680 MT/D	400 MT/D	1500 lit/year
		Exp.	--	200 MT/D	
5	Stack Height AGL		80 M		6 M (ARL)
6	MOC		RCC		MS
7	Shape		Round		Round

8	Diameter	4 M	0.45 M (OD) EACH
9	APC Equipment	ESP (4 Field)	-

Note: There will not be any new boiler under expansion of Distillery.

C. Noise Pollution Aspect

1. Sources of Noise

i. 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.

ii. 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).

iii. Existing sugar factory and co-gen; noise generating sources are the boiler house, turbine rooms, cane crushing section and mill house, etc.

iv. Adequate green belt would be developed in phase wise manner in and around the industry. So that it would further attenuate the noise levels.

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.

D. Hazardous Wastes

Different types of hazardous wastes that are being generated from the existing & expansion project and their disposal is presented in the following table.

Table 12. Details of Hazardous Waste

No.	Category	Quantity (MT/D)		Disposal
		Existing	After Expansion	
1	(5.1) Used Oil	0.1	0.2	Sales to Authorized Recyclers

E. Solid Wastes

Table 13. Solid Waste Generation & Disposal

No.	Unit	Type	Quantity (MT/D)		Disposal
			Existing	After Expansion	
1	Sugar Factory & Co-gen Plant	ETP Sludge	0.5	0.5	Used as Manure
		Boiler Ash (Bagasse)	50.4	50.4	Brick Manufacturing
2	Distillery	Yeast Sludge	390	780	Used as Manure
		Boiler Ash (Bagasse)	18	36	Brick Manufacturing
		CPU Sludge	0.52	1.12	Used as Manure

Control Measures

Waste minimization techniques are followed at the Industry. Same practice shall be continued.

F. Odor 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.

Control Measure

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 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 expansion.

H. Environmental Management Cell (EMC)

SMSMPSSKL is already having an EMC functioning under its sugar factory. Members of the EMC are well qualified and experienced in their concerned fields. This cell shall be further augmented suitably under proposed expansion of distillery.

I. Budgetary Allocation by Industry towards Environment Protection

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

Table 14. Capital as well as O & M Cost (Existing & Proposed)

No.	Description	Cost (Rs. Lacs)	
		Capital	O & M/Yr
A	**Existing**		
1	Air Pollution Control: 4 field ESP- 1 No, Common Stack of height 80 M & OCMS	550	50
2	Water Pollution Control: Sugar Factory ETP & CPU, Distillery CPU, MEE, Spentwash Storage Tank and OCMS	702	60
3	Noise Pollution Control	30	5
4	Environmental Monitoring & Management, Lab & Chemicals	50	5
5	Occupational Health & Safety	100	10
6	Green Belt Development & Rainwater Harvesting Infrastructure	120	10
	(3% of Rs. 556.695 Cr; Existing Investment) Total	Rs. 1552	Rs. 140
B	**Expansion**		

No.	Description	Cost (Rs. Lacs)	
		Capital	O & M/Yr
1	Water Pollution Control- STP, Distillery CPU, existing ETP upgradation & Sugar CPU upgradation	637	50
2	Solid Waste Management	50	5
3	Noise Pollution Control	50	5
4	Environmental Monitoring & Management	50	5
5	Occupational Health & Safety	100	10
6	Green Belt Development & Rainwater Harvesting Infrastructure	100	10
	(20% of Rs. 47.38 Cr; expansion Investment) Total	Rs. 987	Rs. 85
	Grand Total (A + B)	**Rs. 2539**	**Rs. 225**

J. Rainwater Harvesting Aspect

- Average annual rainfall in the area = 448.8 mm

Table 15. Area Taken for RWH

No.	Description	Area (Sq.M.)	Runoff Factors considered	Average Annual Rain Fall (M)	RWH Quantity (M^3)
1	**Roof Top Harvesting**				
i	Rooftop Area	96,954.515	0.8	0.44	34127.99
	Total Rooftop Harvesting				**34,127.9**
2	**Surface Water Harvesting**				
i	Green Belt Area	4,02,840.81	0.3	0.44	53,174.99
ii	Area under Roads	1,14,629.3	0.5	0.44	25,218.45
iii	Parking Area	2,43,535.59	0.5	0.44	53,577.83
iv	Open Space	3,10,487.85	0.3	0.44	40,984.4
	Total Surface Water Harvesting				**172,955.7**

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

Rooftop Harvesting	+	Surface Harvesting	=	Total RWH
34,127.9	+	**172,955.7**	=	207083.65 M^3
			=	207 ML

Thus, about 2,07,083.65 M^3 of rainwater could become available during every season from the RWH operations. It will be used for watering of Greenbelt which will be achieved from the ZLD plan.

K. Green Belt

Table 16. Area Details

No.	Description	Area (Sq. M)
1	Total Plot Area	12,10,000
2	Built up area (Sugar factory, distillery & other)	1,38,506.45
3	Total Open Area	3,10,487.85
4	Total Green belt Area (33% of total Plot area)	4,02,840.81

Criteria for Green Belt Development Plan

Emission of SPM, SO_2 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.
A comprehensive 'Green Belt Development' programme would be implemented in a phase wise manner under proposed activities, salient features of which are as follows –

1. Tree plantation at different tiers to suit existing topography.
2. Avenue plantation along the roads and shelterbelt plantation along the peripheral fence of the plots.
3. Mass Plantation in certain pockets in the SMSMPSSKL campus.
4. Plantation of peculiar tree species serving typical purposes such as noise attenuation and dust suppression at selected premises.
5. Lawns and landscaped gardens in the campus.
6. To arrest dust and to attenuate noise, plantation of certain species like *Mangiferaindica* (Mango), *Sesbania grandiflora* (Shewarie) *Derris indica (*Karanj*)*, *Terminalia catappa* (Indian Almond Tree), *Polyalthialongi folia (*Ashok*)* etc. shall be done.

L. Socio-Economic Development

Socio economic study was carried within 10 Km radius of the study area was carried out with the help of a structured close ended interview schedule, comprising of 32 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. 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 road development, medical aids & scattered Safe drinking water facilities. While preparing CER plan, the demands of local people are considered in same.

7) ENVIRONMENTAL MONITORING PROGRAMME

Reconnaissance of the study area was undertaken in the Post monsoon period. Field monitoring for measuring meteorological conditions, ambient air quality, water quality, and soil quality and noise levels was initiated. EIA Report incorporates the data monitored during the period from **October – November - December 2022** and secondary data collected from various sources which include Government Departments related to ground water, soil, agriculture, forest etc. The highlight of primary & secondary baseline data & its impacts are represented as follows-

A. Land Use

Land use study requires data regarding topography, zoning, settlement, industry, forest, roads and traffic etc. 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 17. Land Use/ Land Cover

No.	Classes	Area Ha.	% age	Remarks
1	Built Up Area	2490	7.93	The surrounding villages around the project site are well developed with road electricity, and water connectivity.
2	Crop Land	16397	52.19	Most of the land use within the 10km radius buffer is crop land.
3	Fallow Land	8114	25.83	This fallow land is because of changing of crop type and leaving the land uncultivated to get fertile. Some of the fallow land is seen because of hilly region where there is lack of continuous water supply.
4	River/Water Bodies	540	1.72	It occupies about 1.72% in this study area.
5	Scrub Land	1565	4.98	It is found that the some part of study area is also covered with dense scrub covering about 4.98% of total study area.
6	Barren Land	1925	6.13	The Barren land occupies 6.13 % of the total study area and the pattern is scattered type, the ground surface is rocky where plantation growth is very minimal.
7	Forest Area	384	1.22	Forest land contributes to 1.22% of area within 10km radius of study area. The covers with all type of plant species.
	Total	**31415**	**100.00**	

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, Solapur.

Meteorological parameters were monitored during the period **October - November - December 2022**. Details of parameters monitored, equipment's used and the frequency of monitoring have been given in Chapter 3 of the EIA report. Hereunder, details of predominant wind directions and wind categories are given.

D. Air Quality

This section describes the selection of sampling locations, includes the methodology of sampling and analytical techniques with frequency of sampling. Presentation of results for October - November - December 2022 survey is followed by observations. All the requisite monitoring assignments, sampling and analysis was conducted through the laboratory of Green Envirosafe Engineers & Consultant Pvt. Ltd., Pune which is NABL accredited and MOEFCC; New Delhi approved organization. Further, same has received certifications namely ISO 9001–2015 and OHSAS 18001–2007 from DNV. Ambient air monitoring was conducted in the study area to assess the quality of air for PM_{10}, $PM_{2.5}$, SO_2, NO_x and CO. various monitoring stations selected are shown in table.

Table 18. Ambient Air Quality Monitoring (AAQM) Locations

Location	Location Name	Type	Distance from site (Km)	Direction w.r.t site	Latitude	Longitude
1.	Industrial Site	Industrial	--	--	17°51'56.03"N	75° 0'25.81"E
2.	Malewadi	Rural	3.40	E	17°51'56.30"N	75° 2'20.83"E
3.	Mahalunge	Rural	8.89	E	17°52'1.58"N	75° 5'26.86"E
4.	Girzani	Rural	2.87	W	17°51'42.72"N	74°58'49.63"E
5.	Watpali	Rural	5.72	NW	17°52'25.01"N	74°57'14.08"E
6.	Pisewadi	Rural	7.63	SE	17°47'53.81"N	75°1'21.01"E
7.	Sarati	Rural	5.54	N	17°54'55.38"N	75° 0'19.17"E
8.	Yeshawantnagar	Rural	1.57	NE	17°52'40.94"N	75° 0'46.70"E

Table 19. Summary of the AAQ Monitoring Results for Season
[October-November-December 2022]

		Location							
		Industrial Site	Male wadi	Mahalunge	Girzani	Watpali	Pisewadi	Sarati	Yeshwant nagar
PM_{10} µg/M^3	Max.	64.9	56.8	57.7	59.9	60.9	58.7	58.8	61.5
	Min.	60.1	52.2	53.3	55.3	56.1	54.3	54.1	57.3
	Avg.	62.5	54.5	55.3	57.8	58.5	56.5	56.5	59.4
	98%	64.8	56.7	57.7	59.9	60.9	58.7	58.8	61.4
$PM_{2.5}$ µg/M^3	Max.	26.9	17.8	18.9	20.8	21.9	19.9	20.9	22.9
	Min.	22.2	13.2	14.2	16.1	17.1	15.2	16.2	18.1
	Avg.	24.8	15.7	16.6	18.4	19.5	17.5	18.5	20.4
	98%	26.8	17.7	18.9	20.7	21.8	19.9	20.9	22.9
SO_2 µg/M^3	Max.	18.7	11.9	11.8	12.9	12.9	11.9	11.8	13.9
	Min.	14.2	8.3	8.2	9.2	9.1	8.1	8.3	10.2
	Avg.	16.5	10.1	9.9	11.0	11.1	10.1	10.0	12.1
	98%	18.5	11.9	11.6	12.8	12.9	11.9	11.8	13.9
NOx µg/M^3	Max.	23.8	13.8	14.9	17.4	17.9	15.9	17.8	17.9
	Min.	19.1	10.2	11.3	13.7	14.1	12.1	14.1	14.3
	Avg.	21.2	12.0	13.0	15.6	16.0	14.0	16.0	16.0
	98%	23.8	13.8	14.9	17.3	17.9	15.8	17.8	17.9
CO mg/m^3	Max.	0.090	0.070	0.080	0.080	0.090	0.080	0.090	0.080
	Min.	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	Avg.	0.047	0.033	0.043	0.043	0.042	0.044	0.045	0.044
	98%	0.090	0.070	0.080	0.080	0.085	0.080	0.085	0.080

Table 20. 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		NOx 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. Seven locations for surface water and eight locations for ground water were selected. Same are listed below-

Table 21. Monitoring Locations for Surface Water

Sr. No	Location Name	Sample Code	Type	Distance from site (Km)	Direction w.r.t site	Latitude	Longitude	Justification
1.	Chaundeshwarwadi	SW 1	Nala	3.09	S	17°50'21.84"N	75° 0'45.34"E	Upstream of Nala
2.	Malewadi	SW 2	Nala	2.15	E	17°52'2.81"N	75° 1'38.11"E	Midstream of Nala
3.	Akluj	SW 3	Nala	3.34	NNE	17°53'29.64"N	75° 1'30.08"E	Downstream of Nala
4.	Kondabavi	SW 4	River	6.97	NW	17°54'57.42"N	74°57'57.50"E	Upstream of Nira River
5.	Akluj	SW 5	River	5.01	NNE	17°54'11.06"N	75° 2'7.00"E	Midstream of Nira River
6.	Ozare	SW 6	River	8.74	NE	17°55'4.61"N	75° 4'11.43"E	Downstream of Nira River
7.	Ganeshwadi	SW 7	River	9.74	NNE	17°56'56.68"N	75° 2'22.34"E	Bhima River

Table 22. Monitoring Locations for Ground Water

Sr. No.	Sample Code	Location Name	Type	Distance from site (Km)	Direction w.r.t site	Latitude	Longitude
1.	GW-1	Yeshwantnagar	Dug Well	0.80	W	17°51'52.77"N	75° 0'51.35"E
2.	GW-2	Chaundeshwarwadi	Dug Well	1.68	S	17°51'9.91"N	75° 0'46.36"E
3.	GW-3	Girzani	Dug Well	1.74	SSW	17°51'22.71"N	74°59'41.17"E
4.	GW-4	Girzani	Dug Well	2.57	NW	17°52'37.28"N	74°59'6.99"E
5.	GW-5	Bagechiwadi	Dug Well	2.55	NNW	17°53'14.24"N	74°59'45.76"E
6.	GW-6	Yeshwantnagar	Dug Well	2.08	E	17°52'21.67"N	75° 1'32.26"E
7.	GW-7	Pisewadi	Dug Well	5.90	S	17°48'51.16"N	75° 0'56.69"E
8.	GW-8	Pisewadi	Dug Well	6.89	S	17°48'18.25"N	75° 0'54.69"E

Results observed after monitoring ground water and surface water are mentioned in chapter 3 of 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. Four zones viz. Residential, Commercial, Industrial and Silence Zones have been considered for noise monitoring. Some of the major material roads were covered to assess the noise due to traffic. Noise monitoring was undertaken for 24 hours at each location. Details of noise monitoring stations are given in following table-

Table 23. Noise Sampling Locations

Location	Location Name	Type	Distance from site (Km)	Direction w.r.t site	Latitude	Longitude
N1.	Site	Industrial	_	_	17°52'3.92"N	75° 0'23.93"E
N2.	Akluj	Rural	2.5	NE	17°53'15.35"N	75° 1'15.01"E
N3.	Anandnagar	Rural	4.5	NW	17°54'14.21"N	74°59'13.59"E
N4.	Girjhani	Rural	2.7	W	17°51'54.15"N	74°58'46.81"E
N5.	Paniv	Rural	3.8	SW	17°50'51.94"N	74°58'33.65"E
N6.	Vijhori	Rural	3.8	S	17°49'55.74"N	75° 0'19.47"E
N7.	Udaynagar	Rural	1.5	SE	17°51'8.71"N	75° 0'27.58"E
N8.	Malewadi	Rural	3.1	E	17°51'50.72"N	75° 2'13.37"E
If required, additional locations shall be monitored as per project requirement						

Table 24. Ambient Noise Levels

Sr. No.	Location	Average Noise Level in dB(A)					
		L_{10}	L_{50}	L_{90}	$L_{eq(day)}$	$L_{eq(night)}$	L_{dn}
1	N1	53.1	54.8	59.7	59.0	52.3	60.5
2	N2	42.9	46.1	48.0	51.3	42.1	51.6
3	N3	43.2	46.4	47.9	51.3	42.4	51.7
4	N4	42.5	45.9	47.1	51.3	41.5	51.4
5	N5	43.4	46.4	47.9	51.6	42.1	51.8
6	N6	42.8	46.3	47.6	51.5	42.1	51.8
7	N7	43.0	46.9	47.8	52.9	41.9	52.6
8	N8	43.5	47.1	48.0	52.0	43.0	52.4

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.

H. Ecology

Ecological survey for expansion project by SMSMPSSKL was carried by questionnaire study in 7 representative village from 10 KM radius. 74 villages covered within the 10 km radius study area. Schedule-I species are found in the study area. Chapter 3 can be referred for details of this aspects.

8) ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

A. Impact on Topography

No major topographical changes are envisaged in the acquired area as it is expansion of Distillery project. In acquired area, the changes would be due to the manmade structures, like Distillery structure and ancillary units. 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 expansion 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 98th percentile concentrations of PM_{10}, $PM_{2.5}$, SO_2 and NOx in Ambient Air, recorded during the field study conducted for the season **October-November-December 2022** are considered as baseline values. They represent impact due to operations of existing nearby industries on this region. Existing baseline concentrations are summarized in following table and the GLC of the same is included in 4th chapter of EIA report.

Table 25. Baseline Concentrations (98 Percentile)

Parameter	PM_{10}	$PM_{2.5}$	SO_2	NO_X	CO
Conc. (μg/m^3)	64.8	26.8	18.5	23.8	0.900
NAAQS	100 μg/m^3	60 μg/m^3	80 μg/m^3	80 μg/m^3	4mg/m^3

ii. Air Polluting Sources

An Existing Boiler of capacity 50 TPH will be utilized under expansion of Distillery. The 25 TPH is utilized in existing distillery while under expansion remaining 25 TPH will be utilized.

Existing 140 TPH boiler is used for the Sugar factory & Cogen unit. Existing two DG sets of capacity 750 KVA will be used for expansion project.
No new oiler will be installed for the proposed expansion project.

D. IMPACT ON WATER RESOURCES

i. Impact on Surface Water Resources& Quality

Total water requirement of for existing & proposed activity taken from Nira Right Bank Canal.

Effluent from distillery; Raw Spentwash shall be primarily treated in Multi Effect Evaporator (MEE). Concentrated spentwash shall be dried in Agitated Thin Film Dryer (ATFD) to form powder. Other Effluents viz. spent lees, Boiler blow down, cooling tower, and lab; washing, DM backwash is forwarded to CPU. Treated effluent shall be used in process to achieve ZLD. Total domestic effluent would be treated in proposed STP. Hence there will not be any impact on surface water resource.

ii. Impact on Ground Water Resources & Quality

Requirement for fresh water will be met from Nira Right Bank Canal. NOC is procured from Nira Right bank Canal Division, Phaltan. 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 existing sugar factory as mentioned above, there will not be discharge of any untreated effluent on land. ESP are installed to existing boilers. Boiler ash from existing boiler is utilized for brick making. 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

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. SMSMPSSKL is not 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 sugar factory, Co-gen Plant, Acetic Acid Plant & Distillery have already been established. Proposed expansion project would be implemented in existing premises SMSMPSSKL. 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 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, industry is going to contribute in SPM pollution load in nearby area. This may have negative impact particularly on avifauna, surrounding crop yields & local population. Details in respect of impacts on ecology and biodiversity are described in Chapter 3.

I. IMPACT ON HISTORICAL PLACES

Shivsrushti Killa -Akluj Fort (Not Notified) is at 2.33 Km. No major impact was observed during site visit.

9) SALIENT FEATURES OF EMP

Following routine monitoring program as detailed in Table 27 shall be implemented at site. Besides to this monitoring, the compliances to all Environmental Clearance conditions and regular permissions from CPCB /MoEFCC shall be monitored and reported periodically.

Table 26. Plan for Monitoring of Environmental Attributes in and around SMSMPSSKL

No.	Description	Location	Parameters	Frequency	Conducted by
1	Ambient Air Quality	Upwind-1, Downwind-2 (Near Cane Yard, Near Main ETP, Near Colony.)	PM_{10}, $PM_{2.5}$, SO_2, NOx, CO	Monthly	MoEFCC & NABL Approved External Lab
		Study area - (Villages namely – Malewadi, Mahalunge, Girzani, Watpali, Pisewadi, Sarati, Yeshawantnagar)		Quarterly	

No.	Description	Location	Parameters	Frequency	Conducted by
2	Work Zone Air Quality	4 Locations (Mill section, Sugar bagging section, Distillation Section)	PM_{10}, $PM_{2.5}$, SO_2, NOx, CO	Monthly	
3	Stack Emissions	Boiler – 2 Nos. (Existing Boilers), Existing D.G Sets- 2 Nos.	SPM, SO_2, NOx	Monthly	
4	Fugitive Emissions	Ethanol storage area & Distillation column	VOC	Monthly	
5	Ambient Noise	5 Locations (Near main gate, Near ETP, near Sugar godown, Distillation Section, Near Acetic Acid Plant)	Spot Noise Level recording; Leq(n), Leq(d), Leq(dn)	Monthly	
	Work zone Noise	Premises – 5 Nos (Mill section, Boiler, DG set, Turbine section)		Monthly	
6	Effluent	Treated, Untreated	pH, SS, TDS, COD, BOD, Chlorides, Sulphates, Oil & Grease.	Monthly	
7	Drinking water	Factory Residential Colony	Parameters as per drinking water Std IS:10500	Monthly	
8	Soil	locations within 10 Km (Villages- S1-Yeshwantnagar, S2-Girzani, S3-Anandnagar, S4-Chaundeshwarwadi, S5-Bijvadi, S6-Chakore, S7-Dhulenagar, S8-Pisewadi)	pH, Salinity, Organic Carbon, N, P, K	Quarterly	
9	Water Quality (Ground Water & Surface Water)	Locations in study area – (8 Ground Water locations- Ground Water- GW1- Yeshwantnagar, GW2-Chaundeshwarwadi, GW3 -Girzani, GW4 - Girzani, GW5- Bagechiwadi, GW6- Yeshwantnagar, GW7- Pisewadi , GW8-Pisewadi) (7 Surface Water Locations- SW1-Chaundeshwarwadi, SW2- Malewadi, SW3-Akluj, SW4- Kondabavi, SW5- Akluj, SW6- Ozare, SW7- Ganeshwadi)	Parameters as per CPCB guideline for water quality monitoring – MINARS/27/2007-08	Quarterly	

No.	Description	Location	Parameters	Frequency	Conducted by
10	Waste management	Implement waste management plan that Identifies and characterizes every waste associated with proposed activities and which identifies the procedures for collection, handling & disposal of each waste arising.	Records of Solid Waste Generation, Treatment and Disposal shall be maintained	Twice in a year	By **SMSMPSSKL**
11	Emergency Preparedness such as fire fighting	Fire protection and safety measures to take care of fire and explosion hazards, to be assessed and steps taken for their prevention.	On site Emergency Plan, Evacuation Plan, firefighting mock drills	Twice a year	
12	Health Check up	Employees and migrant labour health check ups	All relevant health checkup parameters as per factories act.	Once in a Year	
13	Green Belt	Within Industry premises as well as nearby villages	Survival rate of planted sapling	In consultation with DFO.	
14	CER	As per activities	--	Six Monthly	

10) 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 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.

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.

Mitigation Measures

It is necessary to take following mitigation measures to prevent bursting of tanks, and heavy leakage and loss of life.

1. Molasses should be stored in good quality and leak proof mild steel tanks.
2. Adequate safety factor should be incorporated into the design of wall thickness considering deterioration that will occur due to corrosion over a period of time.

3. Regular internal and external inspection should be scheduled for checking wall thickness of the tanks. Dyke/ Bund walls should be constructed around the tank or tanks.
4. It must be ensured while finalizing the dyke dimensions and that thickness that clear volume inside the dyke walls is equal or more than 1.2 x volume of tank storage capacity.
5. Continuous mixing of molasses through external pump circulation should be done.
6. If there is increase in temperature beyond 30^0C external cooling of tanks shall be provided by heat exchanger in the circulation line.
7. Frequent Temperature monitoring, manually or by recorder is strongly advised.
   If there is leakage –
   a. Leakage should be washed out and diluted and should be recycled as far as possible or must be properly treated in Effluent treatment plant.
   b. Replacing of leaky gaskets, joints, should be done strictly by following work permit system.
   c. Leakage of pipelines, welding repairs should be attended / carried out outside the plant. The necessary hot work permit should be issued after taking necessary precautions and firefighting measures for onsite hot work, by the concerned authority before any hot work in undertaken
   d. Leakage through pump gland shall be reduced to the minimum by installing mechanical seals.
   e. To attend all major leakage in tanks the following procedure should be followed
      (i) Transfer the material to other tank.
      (ii) Prepare the tank for welding repairs by making sure that it is positively isolated with blinds from other vessels and ensuring that it is free of the chemicals and gases by purging air and carrying out air analysis before any hot work is undertaken and this should be done by skilled workers. For this purpose safety permit should be given.

सहकार महर्षी शंकरराव मोहिते - पाटील सहकारी साखर कारखाना लिमीटेड.

(स.म.शं.मो.पा.स.सा.का.लि.)

मु. शंकरनगर - अकलूज, पो. यशवंतनगर ता.माळशिरस, जि. सोलपूर, महाराष्ट्र.

यांच्या

प्रस्तावित ६० ते १२० किलो लि.प्रतिदिन मोलॅसिस (बी व सी)/ केन ज्युस/ सिरप वर आधारित

आसवनी प्रकल्प विस्तारीकरण हे सध्याच्या साखर कारखाना गाळप क्षमता १०,००० टन प्रतिदिन, ३३ मे.वॅट कोजेन प्लांट व २० मे.टन प्रतिदिन ॲसेटिक ॲसिड प्लांटच्या आवारात उभारणी करणे,

या प्रकल्पांसाठीच्या इन्व्हायरमेंट इंपॅक्ट असेसमेंट अहवालाचा सारांश.

१)<u>प्रकल्पा विषयी थोडक्यात व प्रकल्पाचे उद्दिष्ट</u>

सहकार महर्षी शंकरराव मोहिते - पाटील सहकारी साखर कारखाना लिमीटेड. (स.म.शं.मो.पा.स.सा.का.लि.) हा प्रकल्प मु. शंकरनगर -अकलूज, पो. यशवंतनगर ता.माळशिरस, जि. सोलापूर, महाराष्ट्र येथे उभारणेत आलेला आहे. हा प्रकल्प सोलपूरपासुन भूमारे ९८ कि.मी. अंतरावर वायव्य दिशेला आहे आणि मुंबई पासुन २६१ कि.मी.अंतरावर आग्नेय दिशेला आहे. प्रकल्पामध्ये सध्या १०,००० टन प्रतिदिन क्षमतेचा साखर कारखाना, ३३ मे.वॅट कोजेन प्लांट, २० मे.टन प्रतिदिन ॲसेटिक ॲसिड प्लांट व ६० किलो लि.प्रतिदिन क्षमतेचा आसवनी प्रकल्प कार्यरत आहे. स.म.शं.मो.पा.स.सा.का.लि.च्या व्यवस्थापनाने ६० ते १२० किलो लि. प्रतिदिन क्षमतेचा आसवनी प्रकल्प हा सध्याच्या सदर साखर कारखान्याच्या आवारात उभारणीचे नियोजन केले आहे.

सदर कारखान्यची नोंदणी बॉम्बे कोऑपरेटिव्ह सोसायटीज ॲक्ट, १९२५ अंतर्गत, सन १९६० मध्ये सर्टिफिकेट नं. G-२८० यानुसार करण्यात आली आहे.
प्रथम गळीत हंगाम हा १००० टन प्रतिदिन क्षमतेचा सन १९६३ मध्ये घेणेत आला होता. सन १९८४ मध्ये ३० किलो लि.प्रतिदिन क्षमतेचा आसवनी प्रकल्प उभारण्यात आला. सन १९९३ मध्ये ३० किलो लि.प्रतिदिन क्षमतेचा अतिरिक्त आसवनी प्रकल्प उभारण्यात आला.२००८ मध्ये ६००० ते ७५०० टन प्रतिदिन क्षमतेचा साखर कारखाना विस्तारीकरण व ३३ मे. वॅट कोजेन प्लांटची स्थापना करण्यात आली.सदर EC हा MoEFCC, दिल्ली कडून वाइड लेटर नं. J-11011/297/2007-IA II (I) देण्यात आला. २०१४ मध्ये दोन्ही आसवनी प्रकल्पांचे ६० किलो लि.प्रतिदिन असे एकत्रीकरण करण्यात आले.२०१९ मध्ये ७५०० ते १०००० टन प्रतिदिन क्षमतेचा साखर कारखाना विस्तारीकरण EC हा वाइड लेटर नं. SEIAA-EC-0000001500 या क्रमांकाने देण्यात आला. सध्या व्यवस्थापनाने ६० ते १२० किलो लि. प्रतिदिन क्षमतेचा आसवनी प्रकल्प हा सध्याच्या सदर साखर कारखान्याच्या आवारात उभारणीचे नियोजन केले आहे.

अल्कोहोल उद्योगाची देशाच्या अर्थव्यवस्थेमधे महत्वाची जागा आहे. अल्कोहोल हे खुप रसायनांमध्ये कच्चा माल म्हणुन वापरले जाते. ऊत्पादन, वापर, कच्चा माल सुलभतेने उपलब्ध होण्यामुळे आसवनी प्रकल्प व्यवसाय अधिक महत्वाचा ठरत आहे. त्याबरोबरच या व्यवसायामुळे सरकारला मोठया प्रमाणात अबकारी कर वसुल होतो.

अल्कोहोलचा वापर पॉवर अल्कोहोल म्हणून पेट्रोलमध्ये करता येऊ शकतो. तसेच जपान, यु.एस.ए., कॅनडा, श्रीलंका, इ. देशांमध्ये पेट्रोलियम कुड पासुनच्या नॅप्थापासुनचे सिंथेटिक अल्कोहोल ब्रिव्हरेजीससाठी उपयुक्त नसलेने या देशांमधे फरमेंटेड अल्कोहोलला खुप मोठया प्रमाणामध्ये मागणी आहे. उपरोक्त बाबी लक्षात घेऊन म.शिं.सा.आ.ऊ.लि च्या व्यवस्थापनाने आसवनी प्रकल्पाचे प्रस्तावित करण्याचे ठरविले आहे.

सदर प्रकल्प हा दि. १४.०९.२००६ च्या इन्वायरमेंन्ट इंपॅक्ट असेसमेंन्ट (EIA) नोटीफिकेशन नं. स. ओ. १५३३ (ई) च्या १३ जून २०१९ च्या नोटीफिकेशन मधील तरतुदीनुसार स.म.शं.मो.पा.स.सा.का.लि. यांचा सदर प्रकल्प श्रेणी 'अ' मध्ये येतो. यानुसार, पने, पर्यावरण व हवामान बदल मंत्रालय, नवी दिल्ली यांच्याकडे फॉर्म १ ॲप्लिकेशन जमा केला आहे व स्टॅंडर्ड ToR's मंजुर झाले आहेत. प्रस्तावित प्रकल्प राबविताना सुरक्षिततेचे नियम व पर्यावरणाचे संरक्षण करण्याच्या सर्व गोष्टींची खबरदारी घेतली जाईल. प्रस्तावित प्रकल्प राबविताना सुरक्षिततेचे नियम व पर्यावरणाचे संरक्षण करण्याच्या सर्व गोष्टींची खबरदारी घेतली जाईल.
खालील तक्त्यामध्ये गुंतवणुकीचे तपशील दिलेले आहेत.

तक्ता २ गुंतवणुक

क्र	विभाग	भांडवली गुंतवणुक (रू.करोडमध्ये)		
		सध्याची	प्रस्तावित	एकुण
१	साखर कारखाना	३३३.१९	-	३३३.१९
२	को जेन प्लांट	१६५.१२	-	१६५.१२
३	ॲसेटिक ॲसिड/ ॲसिटाल्डीहाइड प्लांट	११.००५६	-	११.००५६
४	आसवनी प्रकल्प	४७.३८	४७.३८	९४.७६
	एकुण	**५५६.६९५**	**४७.३८**	६०४.०७

२) <u>प्रकल्प प्रवर्तकांची ओळख</u>

स.म.शं.मो.पा.स.सा.का.लि.च्या प्रवर्तकांना साखर कारखाना, आसवनी प्रकल्प व सहपीज प्रकल्प क्षेत्रामधील चांगला अनुभव आहे. प्रवर्तकांनी प्रकल्प नियोजन तसेच अंमलबजावणी योजनेचा सखोल अभ्यास केला आहे. प्रकल्प प्रवर्तकांचे नाव आणि हुद्दा खालीलप्रमाणे

तक्ता ३ प्रकल्प प्रवर्तकांचे नाव व हुद्दा

क्र.	प्रवर्तकाचे नाव	हुद्दा
१.	श्री.विजयसिंह शंकरराव मोहिते - पाटील	अध्यक्ष
२.	श्री.जयसिंह शंकरराव मोहिते - पाटील	चेअरमन
३.	श्री.प्रकाशराव व्यंकटराव पाटील	व्हा.चेअरमन
४.	श्री.नामदेव विठोबा ठवरे	संचालक
५.	श्री.लक्ष्मण शंकर शिंदे	संचालक
६.	श्री.सुरेश गजेंद्र पाटील	संचालक
७.	श्री.धनंजय उमाजी चव्हाण	संचालक
८.	श्री.शंकरराव रामचंद्रराव माने - देशमुख	संचालक

९.	श्री.विजय बाळकृष्ण माने - देशमुख	संचालक
१0.	श्री.विजयकुमार नामदेव पवार	संचालक
११.	श्री.रावसाहेब विठोबा मगर	संचालक
१२.	श्री. मिलिंद विष्णुपंत कुलकर्णी	संचालक
१३.	श्री.महादेवराव यादवराव घाटगे	संचालक
१४.	श्री.राजेंद्र भिकाजी मोहिते	संचालक
१५.	श्री.विकास सर्जेराव कलकुते	संचालक
१६.	श्री.चांगदेव मुरलीधर घोरगे	संचालक
१७.	सौ. माधुरी मोहनराव लोंढे	संचालिका
१८.	श्रिमती.कमल विठ्ठल जोरवार	संचालिका
१९.	श्रिमती.कुमाबाई अभिमन्यु क्षिरसागर	संचालिका
२0.	श्री. भरत मारूती फुले	संचालक
२१.	श्री.भिमराव जगन्नाथ काले	संचालक
२२.	श्री.बाबुराव शिवाजीराव पताले	तज्ञ संचालक
२३.	श्री.सतिश बाळकृष्ण शेंडगे	तज्ञ संचालक
२४.	श्री. मोहीत शुभाषराव इनामदार	कार्यकारी संचालक
२५.	श्री. राजेंद्र केरबा चौगुले	कार्यकारी संचालक

३) <u>प्रकल्पाची जागा</u>

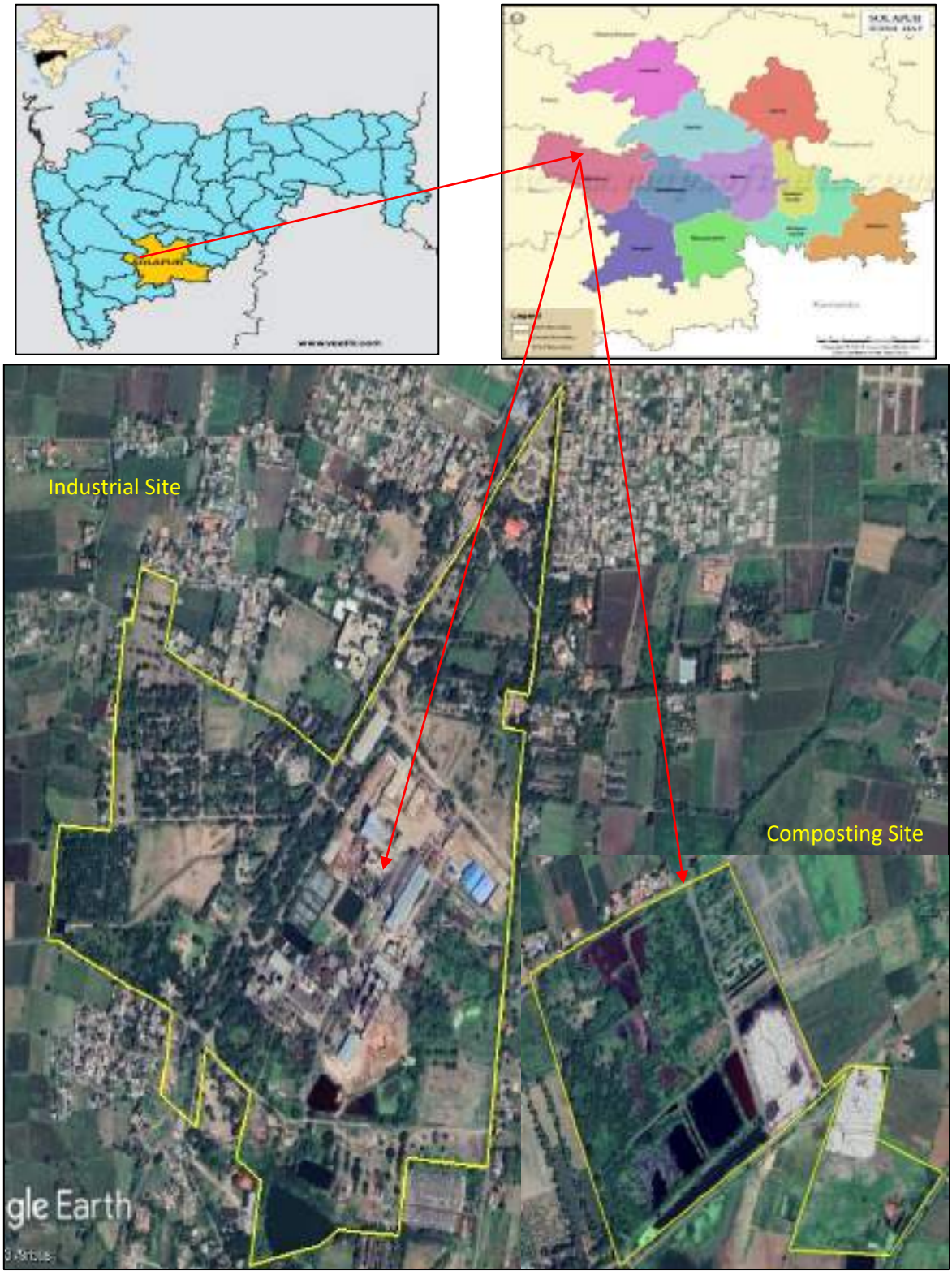
स.म.शं.मो.पा.स.सा.का.लि.द्वारे प्रकल्प जागेचे गट क्र.१३, १३/१/अ, १३/२, २८, २९, ३0, ६९/१/ब/१, ७0, ७१, ७१/१, ७१/२, ७२, ७२/१, ७३, ७४, ८0, ८0/३/अ, ८0/४, ८0/५, ८0/६/अ, ८0/९/अ, ८0/१२, ८0/१३, ८१, ८१/५, ८३/२/ब, ९३, ९३/२/अ, ९३/२/ब/१, ९४, पिसेवाडी कंपोस्टींग साइट क्र. १६१/१, १६१/२, १६१/३, २0१, २२0/२, २0८/२, २0३ मु. शंकरनगर -अकलूज, पो. यशवंतनगर ता.माळशिरस, जि. सोलपूर, महाराष्ट्र राज्य येथे १२१ **हेक्टर** एवढी जागा संपादित करणेत आली आहे. सध्याच्या जागेमध्येच आसवनी प्रकल्पाचे विस्तारीकरण होणार आहे. साखर कारखाना, आसवनी प्रकल्प व सहवीज प्रकल्प यांचे एकुण बांधकाम क्षेत्र **१३.८५ हेक्टर** इतके आहे. जागेचा ले-आऊट प्लॅन **ॲपेन्डीक्स - अ** येथे जोडला आहे. प्रस्तावित विस्तारीकरण प्रकल्पासाठी आवश्यक असणारे ना हरकत प्रमाणपत्र ग्रामपंचायत यशवंतनगर यांच्याकडून प्राप्त झालेले आहे व ते ई.आय.ए रिपोर्टमध्ये जोडले आहे. जागेसंदर्भा तील माहिती खालीलप्रमाणे आहे.

तक्ता २ विविध विभागांच्या क्षेत्राचा तपशील(चर्ग.मी)

क्र.	तपशील	क्षेत्र (चर्ग.मी)		
		सध्याची	प्रस्तावित	एकूण
१	**एकुण क्षेत्र**			**१२,१0,000**
२	एकुण बांधकाम क्षेत्र	१,३८,५0६.४५	-	१,३८,५0६.४५
	i. साखर कारखाना व सहवीज प्रकल्प	८५,९५६.६२	-	८५,९५६.६२
	ii.आसवनी प्रकल्प	११,६६४.६७	-	११,६६४.६७
	iii. निवासी वसाहत	८,000.४८	-	८,000.४८
	iv. इतर सुविधा	३२,८८४.६८	-	३२,८८४.६८

क्र.	तपशील	क्षेत्र (चर्ग.मी)		
		सध्याची	प्रस्तावित	एकूण
	एकूण	१,३८,५०६.४५	-	१,३८,५०६.४५
३	रस्ता अंतर्गत क्षेत्र	१,१४,६२९.३०	-	१,१४,६२९.३०
४	वाहनतळ क्षेत्र	२,४३,५३५.५९	-	२,४३,५३५.५९
५	हरित पट्टा	४,०२,८४०.८१	-	४,०२,८४०.८१
६	एकुण खुले क्षेत्र	३,१०,४८७.८५	-	३,१०,४८७.८५

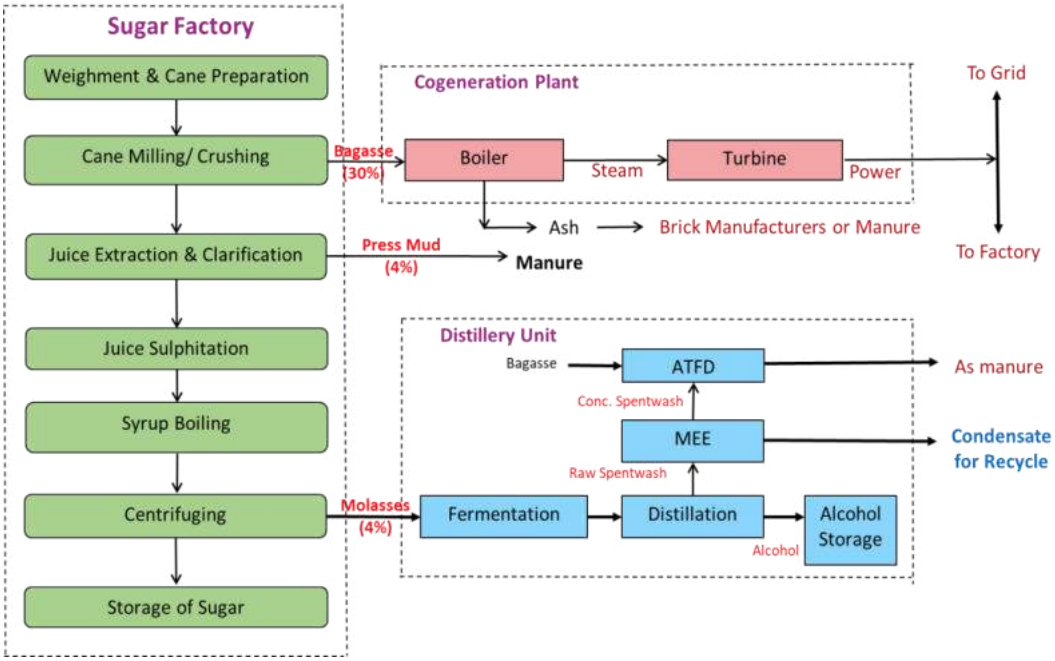
आकृती १ प्रकल्पाची जागा



Note- : The Maps are purely graphical and not to scale, 75°0'23.93"E longitude and 17°52'3.92"N latitude

४) उत्पादन प्रक्रिया

आकृती २ उत्पादन प्रक्रिया



५)उत्पादनांविषयी माहिती

श.म.शं.मो.पा.श.सा.का.लि.यांच्या सध्याच्या आणि विस्तारिकरण प्रकल्पामधून तयार होणारी उत्पादने व त्यांचे परिमाण खालीलप्रमाणे आहे.

तक्ता ४ साखर कारखाना आणि सहवीज प्रकल्पांची उत्पादने

प्रकल्प	उत्पादने व उपउत्पादनांची नावे	एकक	क्षमता		
			सध्याची गाळप क्षमता	प्रस्तावित गाळप क्षमता	एकूण गाळप क्षमता
आसवनी	**उत्पादने**				
	रेक्टीफाइड स्पिरिट /रेक्टीफाइड अल्कोहोल	किलो लि./महीना	१८00	१८00	३६00
	सायलेंट स्पिरिट/ एक्स्ट्रा न्युट्रल अल्कोहोल (इ.एन.ए.)	किलो लि./महीना	९00	२७00	३६00
	अनहायड्रस अल्कोहोल इथेनॉल (स्वत:च्या कारखान्यातून)	मे.टन/महीना	९६0	१९२0	२८८0
	उपउत्पादने				
	कार्बन डायऑक्साईड	मे.टन/महीना	१३५0	१३५0	२७00

	फ्युजल ऑईल	किलो लि./महीना	१८	१८	३६
साखर कारखाना					
	उत्पादने				
	साखर (१२%)*	मे.टन/महीना	३७४४0	--	३७४४0
	शुद्ध साखर(३%)*	मे.टन/महीना	९000	--	९000
	उपउत्पादने				
	बगॅस (२८%)*	मे.टन/महीना	८४000	--	८४000
	प्रेसमड (४%)*	मे.टन/महीना	११५२0	--	११५२0
	मोलॅसिस (४%)*	मे.टन/महीना	११५२0	--	११५२0
सहवीज	वीज	मे.वॅट	३३	--	३३
ॲसेटिक ॲसिड प्लांट/ फर्टीलायझर प्लांट व इथेनॉल प्लांट	ॲसेटिक ॲसिड	मे.टन/महीना	९00	--	९00
	ॲसिटाल्डीहाइड	मे.टन/महीना	७२0	--	७२0
	अनहायड्रस अल्कोहोल	मे.टन/महीना	१२00	--	१२00
	फॉस्फेट सोल्युबलायझिंग बॅक्टेरिया	मे.टन/महीना	२0	--	२0
	अझोटोबॅक्टर	मे.टन/महीना	१0	--	१0

टिप : *ऊस गाळपाच्या टक्केवारीत

साखर कारखाना, आसवनी प्रकल्प व सहवीज प्रकल्प संदर्भातील उत्पादन प्रक्रिया आणि फ्लोचार्ट ई.आय.ए.रिपोर्ट मध्ये प्रकरण २ येथे जोडलेला आहे.

६) <u>पर्यावरणविषयक दृष्टिकोन</u>

स.म.शं.मो.पा.स.सा.का.लि.यांनी अत्यंत प्रभावी व परिणामकारक अशी पर्यावरण व्यवस्थापन योजना (EMP) राबविणेचे नियोजन केले आहे.त्यातील विविध घटक खालीलप्रमाणे आहेत.

अ) पाण्याचा वापर, सांडपाण्याची निर्मिती व त्याची प्रक्रिया

i) पाण्याचा वापर

स.म.शं.मो.पा.स.सा.का.लि.यांच्या सध्याच्या व प्रस्तावित प्रकल्पामध्ये होणा-या पाण्याच्या वापराविषयी सविस्तर तपशील खालीलप्रमाणे -

प्रस्तावित आसवनी प्रकल्पाला विना ऊस गळित हंगामात एकूण १६४८ घनमी.प्रतिदिन इतके पाणी लागेल. यापैकी २0४ घन मी. प्रतिदिन इतके पाणी नीरा नदीतुन घेतले जाईल, १0७२ घन मी. प्रतिदिन हे आसवनी प्रकल्पाच्या सी.पी.यु. मध्ये प्रक्रिया केले जाईल. ३७२ घन मी. प्रतिदिन हे ऊसामधून निघणारे कंन्डेंसेट असेल.ऊस गळित हंगामात एकूण १६४८ घनमी.प्रतिदिन इतके पाणी लागेल. यापैकी २२ घन मी. प्रतिदिन इतके पाणी नीरा नदीतुन घेतले जाईल, १0७२ घन मी. प्रतिदिन हे आसवनी प्रकल्पाच्या सी.पी.यु. मध्ये प्रक्रिया केलेले पाणी, ५५४ घन मी. प्रतिदिन हे ऊसामधून निघणारे कंन्डेंसेट असेल.

साखर कारखान्यासाठी एकूण ४८११ घन मी.प्रतिदिन इतके पाणी लागते. यापैकी ३५ घन मी.प्रतिदिन इतके पाणी नीरा नदीतुन घेतले जाते, ४१३६ घन मी.प्रतिदिन इतके ऊसामधील कंडेनसेट आहे, ५८६ घन मी. प्रतिदिन इतके पाणी एस्.टी.पी. इ.टी.पी. प्रकल्पातून प्रक्रिया केलेले असेल आणि ५४ घन मी. प्रतिदिन इतके पाणी रेन वॉटर हार्वोस्टिंग मधिल पाणी असेल.

तक्ता क्र.७ मोलॅसिस आसवनी प्रकल्पासाठी पाण्याचा वापर

क्र.	तपशील	सध्याची ६० के.एल.पी.डी	एकूण विस्तारीकरणानंतर १२० के.एल.पी.डी		
		मोलॅसिसवर आधारित	मोलॅसिसवर आधारित		केन सिरपवर आधारित
			ऊस गळित हंगाम दरम्यान	विना ऊस गळित हंगाम	
१.	**घरगुती**	#२०	#२२	#२२	#२२
२.	**औद्योगिक**				
	I. प्रोसेस	♣४८०	♣९५४	♣९५४	-
	II. कुलिंग मेकअप	१८० (♣१२+#१६८)	४८० (♣११८+*३६२)	१८० (♣११८+*२३२+ #१३०)	♠४८०
	III. बॉयलर मेकअप	#६०	*१५०	१५० (#५२+*९८)	♠१५०
	IV. डी.एम.बॅकवॉश	#१२	*३०	*३०	♠३०
	V. लॅब व वॉशिंग	#३	*7	*७	♠७
	VI. ॲश क्वेंचिंग	Ω३	*५	*५	♠५
	एकूण औद्योगिक वापर	७३८ (# २४३+♣४९२+ Ω ३)	१६२६(*५५४+ ♣१०७२)	१६२६ (#१८२+♣१०७२+ *३७२)	♠६७२
	एकूण	७५८ (#२६३+♣४९२+ Ω३)	१६४८(#२२+*५५४+♣१०७२)	१६४८ (#२०४+♣१०७२+*३७२)	६९४(#२२+♠६७२)
	ताज्या पाण्याचा वापर (प्रमाण १० कि. लि./ कि. लि. अल्कोहोल)	४.३	०	१.७	०

टीप : # -नीरा नदीच्या कालव्यामधुन घेतलेले पाणी , ♠ - केन सिरप बी.पी.यु. मधील पुर्नप्रक्रियित केलेले पाणी
* -ऊसामधून मिळणारे कंन्डेंसेट., ♣ – मोलॅसिस आसवनी बी.पी.यु. मधील पुर्नप्रक्रियित केलेले पाणी., Ω - ई.टी.पी. मधुन पुर्नप्रक्रियित केलेले पाणी

तक्ता ५ साखर कारखाना व सहवीज प्रकल्पासाठी पाण्याचा वापर

क्र.	तपशील	साखर कारखाना सहवीज प्रकल्प पाण्याचा वापर (घन मी./दिन)
१.	**घरगुती**	#३५
२.	**औद्योगिक**	
a.	प्रोसेस	*२९६५
b.	कुलिंग मेकअप	९९४ ($५४०+*४५४)
c.	बॉयलर मेकअप	*३३६

क्र.	तपशील	साखर कारखाना सहवीज प्रकल्प पाण्याचा वापर (घन मी./दिन)
d.	डी.एम.बॅकवॉश	*६७
e.	लॅब व वॉशिंग	*१0
f.	ब्लॉश क्वेंचिंग	*४
	औद्योगिकवापर (a+b+c+d+e+f)	४३७६ ($५४0+*३८३६)
३.	**बाग + हरितपट्टा**	४00 (@४६+*३00+Ω५४)
	एकूण(१+२+३)	४८११ (*४१३६+ $५४0+ #३५+ @४६+ Ω५४)
ताज्या पाण्याचा वापर (प्रमाण १00 लि./मे.टन ऊसगाळप)		0 लि./मे.टन

टीप :# नीरा नदीच्या कालव्यामधुन घेतलेले पाणी ,* - ऊसामधून मिळणारे कंन्डेन्सेट, $ ई. टी.पी. प्रक्रिया प्रकल्पातून प्रक्रिया केलेले पाणी, @ एस. टी.पी. प्रक्रिया प्रकल्पातून प्रक्रिया केलेले पाणी Ω-वेनवॉटर हार्वेस्टिंग

तक्ता क्र.६ ब्लॅसेटिक ब्लॅक्सिड प्लांट/ फर्टीलायझर प्लांट व इथेनॉल प्लांट प्रकल्पासाठी पाण्याचा वापर

क्र.	तपशील	पाण्याचा वापर
१.	**घरगुती**	५.३0
२.	**औद्योगिक**	
	प्रोसेस	१00.२0
	कुलिंग मेकअप	३00
	बॉयलर मेकअप	
	एकूण	**४0५.५**

ब. सांडपाणी निर्मिती व प्रक्रिया

१. घरगुती सांडपाणी

स.म.शं.मो.पा.स.सा.का.लि.प्रकल्पामधील सध्याचा साखर कारखाना आणि सहवीज प्रकल्पामधुन २८ घनमी.प्रतिदिन तयार होते. सध्याचा आसवनी प्रकल्पामधुन १६ घनमीटर/दिन घरगुती सांडपाणी तयार होते. सध्या तयार होणारे घरगुती सांडपाणी हे सेप्टीक टँक नंतर सोकपीटमध्ये प्रक्रिया केले जाते. विस्तारीकरणानंतर १८ घनमीटर/दिन सांडपााणी तयार होईल. असे ४६ घनमी.प्रतिदिन घरगुती सांडपाण्यावर प्रस्तावित घरगुती सांडपाणी प्रक्रिया प्रकल्पामध्ये (एस.टी.पी.) प्रक्रियीत केले जाईल व हरित पट्टा विकासासाठी वापरले जाईल.

२. औद्योगिक सांडपाणी

स.म.शं.मो.पा.स.सा.का.लि.प्रकल्पामधील साखर कारखाना आणि सहवीज प्रकल्पामधुन ६00 घन मीटर/दिन सांडपाणी तयार होते.हे सांडपाणी साखर कारखान्याच्या सध्याच्या औद्योगिक सांडपाणी प्रक्रिया प्रकल्पामध्ये (ई.टी.पी.) मध्ये पाठवले जाते. प्रक्रिया केलेले सांडपाणी स्वतःच्या परिसरातील बागेसाठी व हरितपट्टा विकासासाठी वापरले जाते.

सध्याच्या आसवनी प्रकल्पांतर्गत ९६0 घन मीटर/दिन स्पेंटवॉश तयार होतो. कॉन्सन्टेटेड स्पेंटवॉश १९२ घन मीटर/दिन तयार होतो.याची ATFD मध्ये प्रक्रिया केले जाईल व त्यापासून पावडर तयार होईल. बाकीचे सांडपाणी स्पेंट लिज १६६

घन मीटर/दिन, एम. ई. ई. कंडेन्सेट ८४५ घन मीटर/दिन बाकीचे सांडपाणी १३३ घन मीटर/दिन हे सी.पी.यू. मध्ये पाठवण्यात येईल.

तक्ता १० आस्रवनी प्रकल्पामधुन तयार होणारे सांडपाणी

क्र.	तपशील	सध्याचे सांडपाणी घन मी. प्रतिदिन	एकूण विस्तारीकरणानंतरचे सांडपाणी घन मी. प्रतिदिन		प्रक्रिया
		६० के.एल.पी.डी	१२० के.एल.पी.डी		
			C मोलॅसिस	केन ज्युस	
१.	**घरगुती**	१६	१८	१८	कारखान्याच्या सध्याच्या सेप्टीक टँक मध्ये प्रक्रिया विस्तारिकरणानंतर एस. टी.पी. मध्ये प्रक्रिया करण्यात येईल.
२.	औद्योगिक				
	प्रोसेस	सॉ स्पेंटवॉश ४८० कॉन्स. स्पेंटवॉश ९६ (१.६ कि.लि./क़िलि.)	सॉ स्पेंटवॉश ९६० कॉन्स. स्पेंटवॉश १९२ (१.६ कि.लि./क़िलि.)	सॉ स्पेंटवॉश ४८० कॉन्स. स्पेंटवॉश ९६ (१.६ कि.लि./क़िलि.)	सॉ स्पेंटवॉश एम.ई.ई.मध्ये इव्हॅपोरेट व कॉन्सनट्रेट केला जाईल. कॉन्सनट्रेटेड स्पेंटवॉश ATFD मध्ये प्रक्रिया केली जाईल.
		MEE कंडेनसेट - ३८४	MEE कंडेनसेट - ८४५	MEE कंडेनसेट - ३८४	इतर सांडपाणी - स्पेंट लीक्स, कुलिंग ब्लो डाऊन, बॉयलर ब्लो डाऊन, एम.ई.ई. कंडेनसेट, लॅब व वॉशिंग हे आस्रवनी प्रकल्पाच्या CPU ला पाठवले जाईल व ZLD ची प्रक्रिया केली जाईल.
		स्पेंट लीक्स - ८७	स्पेंट लीक्स - १६६	स्पेंट लीक्स - १०५	
	कुलिंग ब्लोडाऊन	२७	७२	७२	
	बॉयलर ब्लोडाऊन	१२	२४	२४	
	लॅब वॉशिंग	३	७	७	
	डि.एम. बॅकवॉश	१२	३०	३०	
	एकुण	कॉन्स. स्पेंटवॉश - ९६ **इतर सांडपाणी ५२५**	कॉन्स. स्पेंटवॉश - १९२ **इतर सांडपाणी ११४४**	कॉन्स. स्पेंटवॉश - ९६ **इतर सांडपाणी ६६०**	

तक्ता ८ साखर कारखाना व सहवीज प्रकल्पामधुन तयार होणारे सांडपाणी

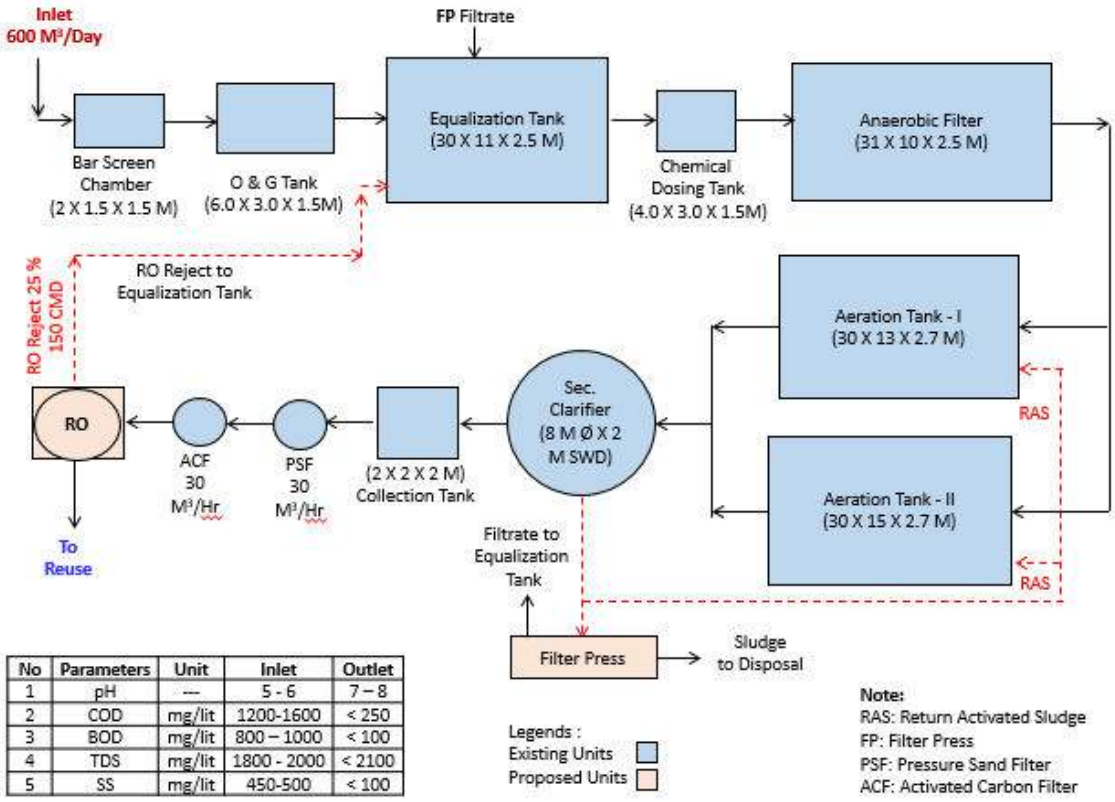
क्र.	तपशील	सांडपाणी(घन. मी. / दिन) (सध्याचा साखर कारखाना)	प्रक्रिया
१.	**घरगुती**	२८	कारखान्याच्या सध्याच्या सेप्टीक टँक मध्ये प्रक्रिया विस्तारिकरणानंतर
२.	**औद्योगिक**		
a.	प्रोसेस	३५६	

क्र.	तपशील	सांडपाणी(घन. मी. / दिन) (साध्याचा साखर कारखाना)	प्रक्रिया
b.	कुलिंग ब्लोडाउन	१00	साध्याच्या ई.टी.पी. मध्ये प्रक्रिया
c.	बॉयलर ब्लोडाउन	६७	
d.	लॅब / वॉशिंग	१0	
e.	डी.एम.बॅकवॉश	६७	
	औद्योगिक एकूण (a+b+c+d+e)	**६00**	
	सांडपाणी प्रमाण: १00 लि./मे.टन गाळप	**६0 लि.**	

तक्ता १0 ॲसेटिक ॲसिड प्लांट/ फर्टीलायझर प्लांट व इथेनॉल प्लांट प्रकल्पामधुन तयार होणारे सांडपाणी

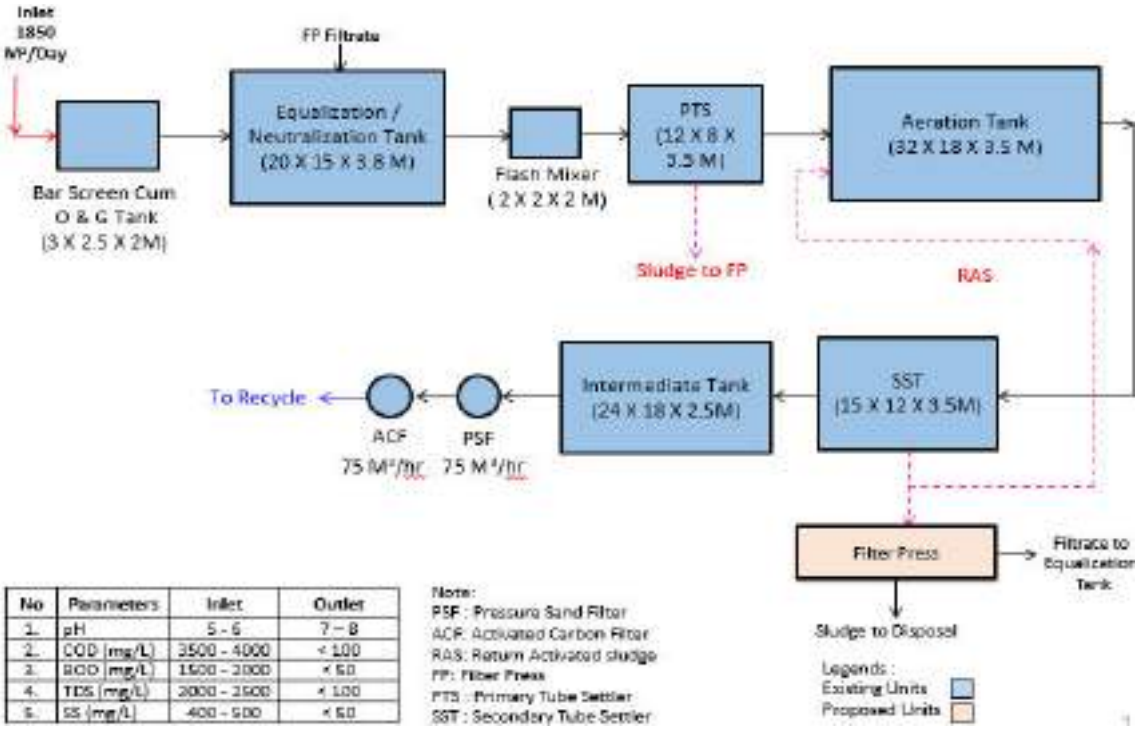
क्र.	तपशील	सांडपाणी(घन. मी. / दिन)	प्रक्रिया
१.	घरगुती	५.१	शेतीसाठी वापर
२.	औद्योगिक	८५.१	शेतीसाठी वापर

आकृती २ साखर कारखान्यातील सध्याचा ई.टी.पी. चा फ्लो चार्ट



No	Parameters	Unit	Inlet	Outlet
1	pH	---	5 - 6	7 – 8
2	COD	mg/lit	1200-1600	< 250
3	BOD	mg/lit	800 – 1000	< 100
4	TDS	mg/lit	1800 - 2000	< 2100
5	SS	mg/lit	450-500	< 100

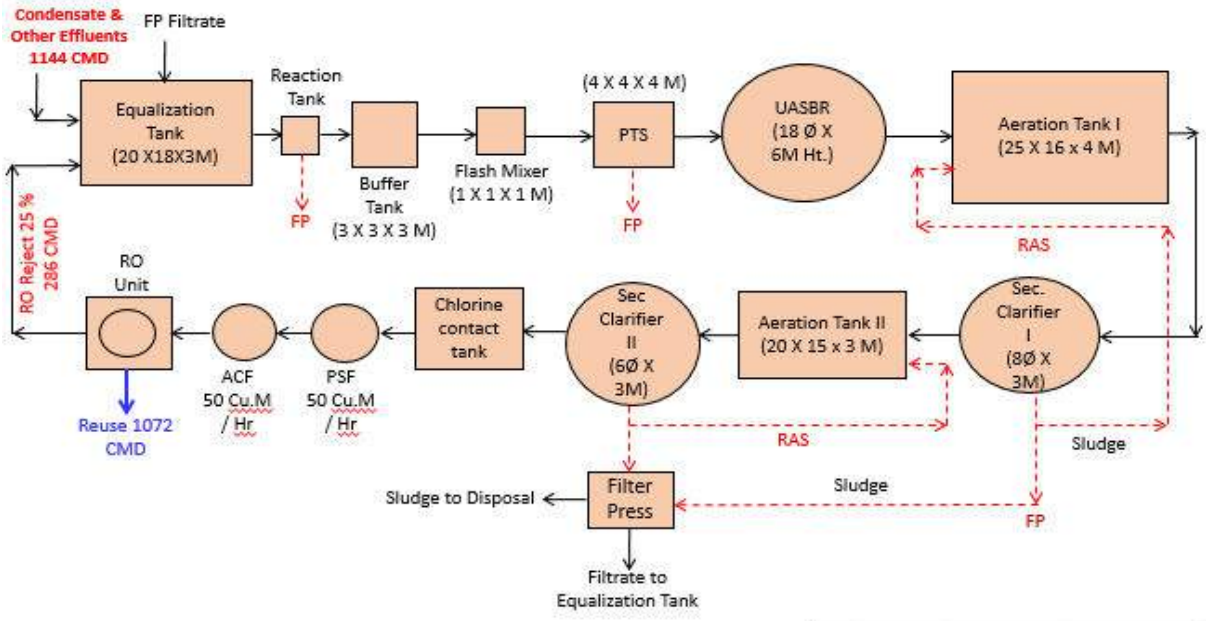
आकृती ३ साखर कारखान्यातील सध्याचा सी. पी.यु. चा फ्लो चार्ट



No	Parameters	Inlet	Outlet
1.	pH	5 - 6	7 – 8
2.	COD (mg/L)	3500 - 4000	< 100
3.	BOD (mg/L)	1500 - 2000	< 50
4.	TDS (mg/L)	2000 - 2500	< 100
5.	SS (mg/L)	400 - 500	< 50

Note:
PSF : Pressure Sand Filter
ACF: Activated Carbon Filter
RAS: Return Activated sludge
FP: Filter Press
PTS : Primary Tube Settler
SST : Secondary Tube Settler

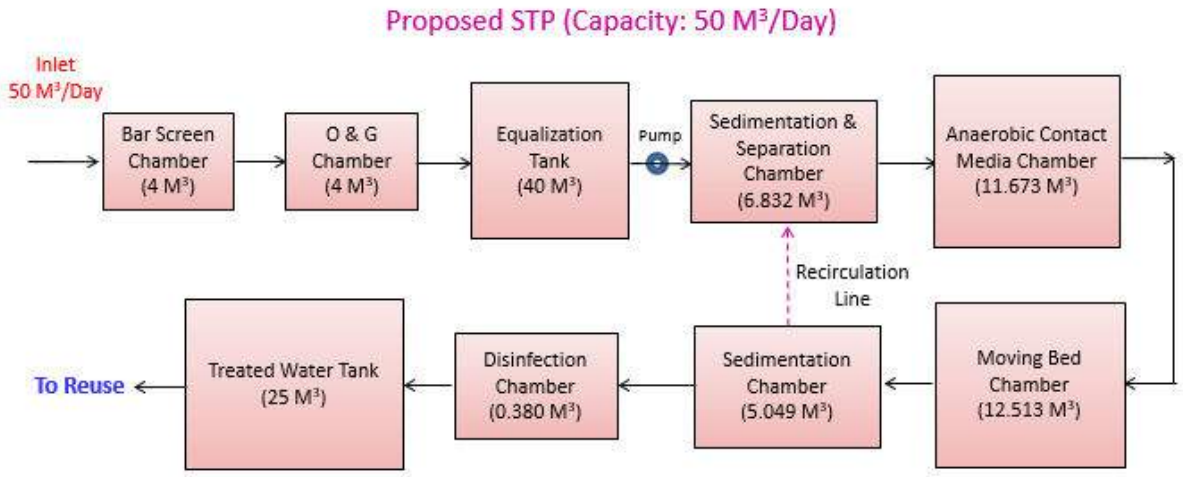
आकृती ४ प्रस्तावित आसवनी सी. पी.यु. चा फ्लो चार्ट



No	Para.	Inlet	Outlet
1	pH	5-6	7 – 8
2	COD	3500-4000	< 100
3	BOD	2000-2500	< 50
4	TDS	2000-3000	< 100
All Parameters are in mg/L except pH			

Note:
ACF: Activated Carbon Filter.
PSF : Pressure Sand Filter.
PST: Primary Tube Settler.
FP: Filter Press.

आकृती ७ प्रस्तावित एस्.टी.पी. चा फ्लो चार्ट



No.	Parameter	Unit	Inlet	Outlet
1	pH	---	6.0 – 8.5	6.0 – 8.5
2	COD	mg/lit	400 – 500	< 50
3	BOD	mg/lit	250 – 300	< 20
4	TSS	mg/lit	150 - 250	< 30
5	O & G	mg/lit	20 - 30	< 10

क. वायु उत्सर्जने

श.म.शं.मो.पा.श.सा.का.लि.मध्ये सध्याच्या प्रकल्पामध्ये १४० टन प्रति तास व ५० टन प्रति तास क्षमतेचे दोन बॉयलर कार्यरत आहेत ज्यासाठी अगॅस इंधन म्हणून वापरले जाते. या बॉयलरना ई.एस.पी हे प्रदूषण नियंत्रक उपकरण असवले आहे. प्रदूषण नियंत्रण करण्यासाठी बॉयलरना ८० मी. उंचीची चिमणी असवली आहे. १४० टन प्रति तास क्षमतेचा बॉयलर हा साखर कारखान्याअंतर्गत वापरला जातो. **५० टन प्रति तास क्षमतेचा बॉयलर हा आसवनी प्रकल्पासाठी वापरला जातो. सध्या २५ टन प्रति तास एवढी क्षमता वापरली जाते.उर्वरित २५ टन प्रति तास एवढी क्षमता विस्तारीकरण प्रकल्पांतर्गत वापरली जाईल.** अशाप्रकारे ५० टन प्रति तास क्षमतेचा बॉयलर १२० किलो लि.प्रतिदिन साठी वापरण्यात येईल.ज्यासाठी अगॅस इंधन म्हणून वापरले जाईल.

सध्या कारखान्यामध्ये ७५० के.व्ही.ए. क्षमतेचे २ डी.जी. सेट कार्यरत आहेत. विस्तारीकरणांतर्गत कोणताही नवीन डी.जी. सेट असविला जाणार नाही. हवा प्रदुषण व त्यासंबंधीच्या इतर बाबींची माहीती खालील तक्त्यात दिली आहे.

तक्ता ९ बॉयलरचा व चिमणीचा तपशील

क्र.	तपशील	सध्याचे बॉयलर		
		साखर व सहवीज + आसवनी		
		बॉयलर		डी.जी. सेट
		साखर कारखाना	आसवनी	

क्र.	तपशील		सध्याचे बॉयलर		
			साखर व सहवीज + आसवनी		
			बॉयलर		डी.जी. सेट
१	क्षमता		१४० टन/तास	५० टन/तास	७५० के.व्ही.ए.
२	नंबर		१	१	२
३	इंधनाचा प्रकार		बगॅस	बगॅस	डिझेल
४	इंधन (मे.टन/दिन)	प्रस्थापित	१६८० मे. टन/दिन	४०० मे. टन/दिन	१५०० लि./वर्ष
		प्रस्तावित	-	२०० मे. टन/दिन	
५	उंची, मी (जमीनीच्या वर)		८० मी.		६ मी.
६	आंधणीसाठी वापरलेले मटेरीयल		आर. सी. सी.		एम.एस.
७	आकार (गोल/चौरस)		गोल		गोल
८	व्यास		४ मी.		०.४५ मी.
९	चिमणीला असलेले प्रदूषण नियंत्रणाचे उपकरण		ई.एस.पी.		–

सभोवतालची हवा व चिमणीमधुन होणारे उत्सर्जन यांचे नियमित परिक्षण कारखान्याने केले आहे व सर्व गोष्टी मर्यादेमध्ये आहेत.

आसवनी प्रकल्पामध्ये फरमेंटर्स मधुन ५० मे.टन प्रति दिन इतका CO_2 उत्सर्जित होईल जो एकत्रित, शुद्ध, साकोचित करून सिलिंडर्स मध्ये भरला जाईल आणि शीतपेयांच्या उत्पादनांसाठी वापरला जाईल.

ड. ध्वनी प्रदुषण

१. ध्वनी निर्माण करणारे स्त्रोत

- साखर कारखाना प्रकल्पामध्ये बॉयलर हाऊस, टर्बाईन रूम्स, केन क्रशिंग सेक्शन, मील हाऊस, डी.जी.सेट हे आवाजनिर्माण करणारे स्त्रोत आहेत. आसवनी प्रकल्पामध्ये बॉयलर फरमेंटेशन सेक्शन डिस्टीलेशन असेम्बली हे आवाज निर्माण करणारे स्त्रोत असतील. डी.जी.सेट हा ध्वनी प्रदुषणाचा एकस्त्रोत ठरू शकतो पण सदर डी.जी.सेटस फक्त नेहमीचा वीज पुरवठा खंडित असताना कार्यरत राहतील. डी. जी. सेट असणा-या विभागातील ध्वनी चीपातळी ७० ते ८० डी बी (ए) इतकी अपेक्षित आहे.
- पंप्स, कॉप्रेसर्स, बॉयलर हाऊस, ट्रक वाहतूक इत्यादीमुळे आवाजाचे प्रदुषण होईल.

नियंत्रण उपाय

- ध्वनी नियंत्रणासाठी आयसोलेशन, सेपरेशन आणि इन्स्युलेशन तंत्रे वापरली जातील. इअरमफ्स, ई. स्वरूपात कामगारांना वैयक्तीक सुरक्षा साधने (PPE) पुरविण्यात येतील. तसेच ध्वनीची पातळी कमी करण्यासाठी डी. जी. सेट स्वतंत्र कॅनॉपी मध्ये बंदीस्त करण्यात आले आहेत.

इ. घातक स्वरूपाचा कचरा

तक्ता १0 घातक स्वरूपाचा कचरा तपशील

क्र.	कच-याचा प्रकार	परिमाण (मे.टन / दिन)		विल्हेवाट पद्धत
		सध्याचा	विस्ताराीकरणानंतर	
१.	५.१ स्पेंट ऑईल	0.१	0.२	आधिकृत पुनर्विकेता

ब. घन स्वरूपाचा कचरा

तक्ता ११ घन स्वरूपाच्या कर्च याचा तपशील

क्र.	प्रकल्प	कच-याचा प्रकार	परिमाण (मे.टन /दिन)		विल्हेवाट पद्धत
			सध्याचा	विस्ताराीकरणानंतर	
१.	साखर कारखाना	ई.टी.पी. स्लज	0.५	0.५	खत म्हणून वापर
		बॉयलरची राख (अगॅस)	५0.४	५0.४	वीट निर्मितीसाठी
३.	आसवनी प्रकल्प	यीस्ट स्लज	३९0	७८0	खत म्हणून वापर
		बॉयलरची राख (अगॅस)	१८	३६	वीट निर्मितीसाठी
		सी.पी.यु. स्लज	0.५२	१.१२	खत म्हणून वापर

नियंत्रण उपाय

कचरा कमी करण्याच्या पद्धती अवलंबवल्या जातील.

क. वासाचा उपद्रव

सध्याच्या प्रकल्पांतर्गत पाईप लाईन्स, सांडपाणी साठवणूक, खराब मील सॅनिटेशन आणि दुर्लक्षित ड्रेन्स इ. वासाच्या उपद्रवाचे स्त्रोत असतील.

नियंत्रण उपाय

सध्याची पद्धत जसे की नीटनेटके हाऊस किपींग, ई.टी.पी. युनिट मधील मैला व्यवस्थापन, ड्रेन्ससाठी लिचींग पावडरचा वापर हे विस्तारिकरणांतर्गत पाळली जाई ल.

ड. नियम व अटींचे पालन

सध्याच्या प्रकल्पाअंतर्गत महाराष्ट्र प्रदुषण नियंत्रण मंडळ (MPCB) किंवा तत्सम संस्थेमार्फत सांडपाणी प्रक्रिया व विल्हेवाट, घातक स्वरूपाचा कचरा व घन कचरा हाताळणी व विल्हेवाट तसेच वायु उत्सर्जने इ. संबंधित घालुन देण्यात आलेल्या सर्व कायदयांचे व नियमांचे काटेकोरपणे पालन केले जाते. सदर कार्यपद्धती प्रस्तावित विस्ताराीकरण प्रकल्पांतर्गतही पाळली जाईल.

ई. पर्यावरण व्यवस्थापन विभाग

स.म.शं.मो.पा.स.सा.का.लि.मध्ये पर्यावरण व्यवस्थापन विभाग कार्यरत आहे. या विभागातील सर्व सदस्य उच्च शिक्षित आणि संबंधीत क्षेत्रातील योग्य तो अनुभव असलेले आहेत.

ए. अध्याच्या व विस्तारीकरण प्रकल्पांमधील पर्यावरण घटकांसाठी व त्यांच्या देखभालीसाठी लागणा-या खर्चाचा तपशील

तक्ता १३ देखभाली साठीच्या खर्चाचा तपशील

क्र.	तपशील	खर्च (रू. लाख मध्ये)	
		भांडवली गूंतवणूक	वार्षिक देखभाल व दुरूस्ती
अ	**अध्याच्या प्रकल्पासाठी**		
१.	हवा प्रदुषण नियंत्रणासाठी ४ फील्ड ई.एस.पी. (१), ८० मी. उंचीच्या चिमण्या OCMS	५५०.०	५०.०
२.	जल प्रदुषण नियंत्रणः साखर कारखाना ई.टी.पी. व सी.पी.यु., MEE, स्पेन्टवॉश स्टोरेज टँक व OCMS	७०२.०	६०.०
३.	ध्वनी प्रदुषण नियंत्रण	३०.०	५.०
५.	एन्व्हायरमेंटल मॉनिटरींग व मॅनेजमेंट	५०.०	५.०
६.	व्यवसायविषयक आरोग्य व सुरक्षीतता	१००.०	१०.०
७.	हरित पट्टा विकास आणि रेनवॉटर हार्वेस्टिंग	१२०.०	१०.०
	(५५६.६९५ करोडच्या ३%; प्रस्थापित गुंतवणुक)**एकुण**	**१५५२.०**	**१४०.०**
ब	**विस्तारीकरण प्रकल्पासाठी**		
१.	जल प्रदुषण नियंत्रण एस.टी.पी.,आसवनी सी.पी.यु.प्रस्थापित साखर कारखाना ई.टी.पी. व सी.पी.यु.अपग्रेडेशन	६३७.०	५०.०
२.	घनकचरा व्यवस्थापन	५०.०	५.०
३.	ध्वनी प्रदुषण नियंत्रण	५०.०	५.०
४.	एन्व्हायरमेंटल मॉनिटरींग व मॅनेजमेंट	५०.०	५.०
५.	व्यवसायविषयक आरोग्य व सुरक्षीतता	१००.०	१०.०
६.	हरित पट्टा विकास व रेनवॉटर हार्वेस्टिंग	१००.०	१०.०
	(४७.३८ करोडच्या २०%; विस्तारीकरण गुंतवणुक) एकुण	९८७	८५
	एकुण	**२५३९**	**२२५**

य. रेनवॉटर हार्वेस्टिंग संकल्पना

- प्रकल्पाचे एकुण क्षेत्र : १२१०,००० चर्ग मी.
- सरासरी वार्षिक पाऊस : ४४८.८ मिमी.

➢ रुफटॉप हार्वेस्टिंग

- रुपटॉप हार्वेस्टिंग क्षेत्र : ९६,९५४.५१५ चर्ग मी.
- रुपटॉप हार्वेस्टिंग मधून मिळणारे पाणी : ३४,१२७.९९ घन मी.

➢ सरफेस हार्वेस्टिंग

- सरफेस हार्वेस्टिंग क्षेत्र : १,०७१,४९३.५५चर्ग मी.
- सरफेस हार्वेस्टिंग मधून मिळणारे पाणी : १७२,९५५.७ घन मी.

रुपटॉप हार्वेस्टिंग आणी सरफेस हार्वेस्टिंग मधून उपलब्ध होणारे पाणी :

३४,१२७.९९ + १७२,९५५.७ = २०७,०८३.६५घन मी.

म्हणजेच २०७ दशलक्ष लिटर्स (ML) पाणी हे कारखान्याकडे वापरण्यासाठी व हरित पट्टासाठी उपलब्ध असेल.

र. हरित पट्टा माहिती

तक्ता १४ क्षेत्रफळाची माहिती

क्र.	तपशील	क्षेत्र (चर्ग.मी)		
		साध्याची	प्रस्तावित	एकूण
१	**एकुण क्षेत्र**			**१२,१०,०००**
२	एकुण आंधकाम क्षेत्र	१,३८,५०६.४५	-	१,३८,५०६.४५
	i. साखर कारखाना व सहवीज प्रकल्प	८५,९५६.६२	-	८५,९५६.६२
	ii.आसवनी प्रकल्प	११,६६४.६७	-	११,६६४.६७
	iii. निवासी वसाहत	८,०००.४८	-	८,०००.४८
	iv. इतर सुविधा	३२,८८४.६८	-	३२,८८४.६८
	एकूण	**१३८,५०६.४५**	-	**१३८,५०६.४५**
३	रस्ता अंतर्गत क्षेत्र	१,१४,६२९.३०	-	१,१४,६२९.३०
४	वाहनतळ क्षेत्र	२,४३,५३५.५९	-	२,४३,५३५.५९
५	हरित पट्टा	४,०२,८४०.८१	-	४,०२,८४०.८१
६	एकुण खुले क्षेत्र	३,१०,४८७.८५	-	३,१०,४८७.८५

हरित पट्टा विकसित करण्यासाठी SPM, SO_2 चे उत्सर्जन या बाबी प्रामुख्याने विचारात घेतल्या जातील. SPM, SO_2 यांच्या उत्सर्जनांमुळे होणारे परिणाम कमी करण्यास उपयुक्त असा हरित पट्टा विकास कार्यक्रम राबविला जाईल. तसेच नियोजित हरित पट्टयातील झाडांमुळे इंडस्ट्रीमध्ये तयार होणा-या ध्वनीची तीव्रता कमी होऊन परिसरात होणारे ध्वनी प्रदुषण कमी होणेस मदत होईल. यानुसार SO_2 आणि ध्वनी प्रदुषण नियंत्रण इ. बाबी लक्षात घेऊन प्रस्तावित हरित पट्टा विकास कार्य क्रमाअंतर्गत विविध जातीच्या झाडांची लागवड केली जाईल.

ल. सामाजिक व आर्थिक विकास

सामाजिक व आर्थिक विकास अंतर्गत प्रकल्पास केंद्रस्थानी मानुन १० कि. मी. परीघ क्षेत्रामधील गावांचे सर्वेक्षण केले गेले. या अंतर्गत वैयक्तिकरित्या लोकांच्या मुलाखती मराठी प्रश्नावलीद्वारे घेण्यात आल्या. अधिक माहीतीसाठी EIA रिपोर्ट मधील प्रकरण – ३ सामाजिक व आर्थिक विकास मुद्दा पहा. सामाजिक व आर्थिक विकास अभ्यासामधील निरीक्षण आणि निष्कर्ष पुढील प्रमाणे -

- अभ्यास क्षेत्रातील बहुतांश गावांमध्ये मुलभूत सुविधा जसे की; पिण्याचे पाणी, प्राथमिक शिक्षण सुविधा, शौचालये, बीज, चांगली वाहतुक सुविधा व समाधानकारक शैक्षणिक सुविधा उपलब्ध आहेत.
- अभ्यास क्षेत्रातील बहुतांश लोकसंख्या चांगली कमाई असलेली आहे याचे मुख्य कारण ऊस शेती आहे.
- कारखान्याद्वारे स्थानिक लोकांना प्रत्यक्ष आणि अप्रत्यक्षपणे रोजगार पुरविला जातो.
- बहुतांश गावांमध्ये जलनिःसारण सुविधेचा अभाव, आरोग्यसुविधा तसेच चांगले रस्ते यांचा अभाव आहे. सी. ई. आर. आराखडयाअंतर्गत या संदर्भात उपाययोजना दिल्या जातील.

७) <u>पर्यावरण विषयक तपासणी कार्यक्रम</u>

अभ्यासासाठी निवडलेल्या भागाची पूर्वपाहणी करण्यात आली होती.प्रस्तावित प्रकल्पाच्या सभोवतालच्या हवामान परिस्थीतीच्या माहितीसाठी हवा, पाणी व माती स्वरूप इ. गोष्टींचा अभ्यास ऑक्टोबर - डिसेंबर २०२२ मध्ये केला गेला होता. या प्रस्तावामध्ये ऑक्टोबर ते डिसेंबर २०२२ या दरम्यानच्या कालावधीमध्ये गोळा केलेली माहीती नमूद केली आहे. या संबंधीची द्वितीय स्तरावरील माहिती ही सरकारी विभागांकडून घेण्यात आली आहे ज्यामध्ये भुर्गभीय पाणी, माती, शेती आणि वने इ. समावेश आहे.

अ. जमीनीचा वापर

जमीन वापराच्या अभ्यासामध्ये भागाची रचना, कारखाने, जंगल, रस्ते आणि रहदारी इ. गोष्टींचा विचार केला जातो. संबंधीत माहिती ही विविध द्वितीय स्तरांवरून जसे की जनगणनापुस्तिका, सरकारी कार्यालये, सर्वे ऑफ इंडिया टोपोशिटस्, याच बरोबर सॅटेलाईट इमेजीस् व जागेवरील प्राथमिक सर्वे इ. मधुन घेण्यात आली आहे.

ब. अभ्यासासाठी निवडलेल्या जमीनीचा वापर / व्यापलेलीजमीन

तक्ता १५ जमीनीचा वापर / व्यापलेलीजमीन

क्र.	जमीनीचा वापर/व्यापलेलीजमीन	क्षेत्र (हेक्टर)	टक्केवारी(%)	
१.	बांधकामाखालील जमीन	२४९0.00	७.९३	प्रकल्प स्थळाच्या आजूबाजूची गावे रस्ते वीज आणि पाण्याच्या जोडणीने चांगली विकसित झाली आहेत.
२.	लागवडीखालील जमीन	१६३९७.00	५२.१९	10 किमी त्रिज्येच्या बफरमधील बहुतेक जमीन पीक जमीन आहे.
३.	शेतीपड जमीन	८११४.00	२५.८३	डोंगराळ प्रदेशात सतत पाणीपुरवठा नसल्यामुळे काही पडीक जमीन दिसते.
४.	नापीक जमीन	१९२५.00	६.१३	नापीक जमीन एकूण अभ्यास क्षेत्राच्या 6.13% व्यापते आणि नमुना विखुरलेला प्रकार आहे, जमिनीचा पृष्ठभाग खडकाळ आहे जेथे वृक्षारोपणाची वाढ फारच कमी आहे.
५.	नदी/जलस्त्रोत	५४0.00	१.७२	या अभ्यास क्षेत्रात ते सुमारे 1.72% व्यापलेले आहे.
६.	स्क्रब जमीन	१५६५	४.९८	असे आढळले आहे की अभ्यास क्षेत्राचा काही भाग दाट स्क्रबने व्यापलेला आहे आणि एकूण अभ्यास क्षेत्राच्या सुमारे 4.98% व्यापलेला आहे.
७.	जंगल	३८४	१.२२	अभ्यास क्षेत्राच्या 10 किमी त्रिज्येतील क्षेत्रफळाच्या 1.22% क्षेत्रामध्ये वनजमीनचा वाटा आहे.
	एकुण	**३१४१५.00**	**१00 .00**	

क. हवामानमाहिती

अदर पाहणीसाठी ब्यूरो ऑफ इंडियन स्टॅन्डर्ड (BIS) आणि इंडियन मेट्रोलॉजी डिपार्टमेंट (IMD) यांनी नमूद केलेली मानके वापरली आहेत. हवामान परिस्थितीच्या माहितीसाठी वेगवेगळया हवामान घटकांचा अभ्यास प्रत्यक्ष जागेवरती केला गेला

आहे. याबंधीची द्वितीय स्तरावरील अधिक माहिती ही हवामान विभाग, सातारा येथून घेण्यात आली आहे. त्यामध्ये तापमान, आर्द्रता, पर्जन्यमान इ. बाबींचा समावेश आहे.

वेगवेगळया हवामान घटकांचा अभ्यास हा ऑक्टोबर ते डिसेंबर २०२२ यादरम्यान केला गेला होता. या अभ्यासातील परिमाणे, उपकरणे व वारंवारता यांचा तपशील ई.आय.ए. रिपोर्टच्या प्रकरण क्र. ३ मध्ये देणेत आला आहे.

ड. हवेचा दर्जा

या विभागामधून नमुने घेतलेल्या ठिकाणांची निवड, नमुना घेण्याची पद्धत, पृथःकरणाची तंत्रे आणि नमुना घेण्याची वारंवारता इ. गोष्टींची माहिती दिली आहे. ऑक्टोबर ते डिसेंबर २०२२ या कालावधी मधील निरीक्षणानंतरचे निकाल सादर केले आहेत. सर्व मॉनिटरींग असाइनमेंटस, नमुने घेणे व त्यांचे पृथःकरण NABL व MoEFCC, New Delhi मान्यता प्राप्त तसेच ISO 9001 -2015 va OHSAS १८००१ – २००७ मानांकित मे. ग्रीन एन्वायरोसेफ इंजिनीअर्स अँड कन्सल्टंटस प्रा. लि., पुणे या प्रयोग शाळेमार्फत केले आहे. अभ्यास क्षेत्रातील हवेच्या गुणवत्तेचे मूल्यमापन करण्यासाठी PM_{10}, $PM_{2.5}$, SO_2, NO_X व CO. या घटकांचे वेगवेगळया स्थानाकांवर मॉनिटरींग केले गेले.मॉनिटरींगची वेगवेगळी स्थानके खाली दिलेल्या तक्त्यामध्ये दाखवली आहेत.

तक्ता १६ सभोवतालची हवागुणवत्ता परिक्षणाची (AAQM) स्थानके

AAQM केंद्र आणि संकेतांक	स्थानकाचे नाव	को-ऑर्डिनेटस	साईट पासूनचे अंतर(कि.मी.)	साईटला अनुसरुन दिशा
		अक्षांश व रेखांश		
A1	साईट	१७°५१'५६.०३"N ७५°०'२५.८१"E	-	-
A2	मालेवाडी	१७°५१'५६.३०"N ७५°२'२०.८३"E	३.४०	पूर्व
A3	महालुंग	१७°५२'१.५८"N ७५°५'२६.८६"E	८.८९	पूर्व
A4	गिरझनी	१७°५१'४२.७२"N ७४°५८'४९.६३"E	२.८७	पश्चिम
A5	वाटपळी	१७°५२'२५.०१"N ७४°५७'१४.०८"E	५.७२	वायव्य
A6	पिसेवाडी	१७°४७'५३.८१"N ७५°१'२१.०१"E	७.६३	आग्नेय
A7	भारती	१७°५४'५५.३८"N ७५°०'१९.१७"E	५.५४	दक्षिण
A8	यशवंतनगर	१७°५२'४०.९४"N ७५°०'४६.७०"E	१.५७	ईशान्य

तक्त १७ सभोवतालची हवा गुणवत्ता परिक्षणाची (AAQM) स्थानकांचा सारांश

[ऑक्टोबर-नोव्हेंबर-डिसेंबर २०२२]

		Location							
		Industrial Site	**Male wadi**	**Mahalunge**	**Girzani**	**Watpali**	**Pisewadi**	**Sarati**	**Yeshwant nagar**
PM_{10} µg/M^3	**Max.**	64.9	56.8	57.7	59.9	60.9	58.7	58.8	61.5
	Min.	60.1	52.2	53.3	55.3	56.1	54.3	54.1	57.3
	Avg.	62.5	54.5	55.3	57.8	58.5	56.5	56.5	59.4
	98%	64.8	56.7	57.7	59.9	60.9	58.7	58.8	61.4
$PM_{2.5}$ µg/M^3	**Max.**	26.9	17.8	18.9	20.8	21.9	19.9	20.9	22.9
	Min.	22.2	13.2	14.2	16.1	17.1	15.2	16.2	18.1
	Avg.	24.8	15.7	16.6	18.4	19.5	17.5	18.5	20.4
	98%	26.8	17.7	18.9	20.7	21.8	19.9	20.9	22.9
SO_2 µg/M^3	**Max.**	18.7	11.9	11.8	12.9	12.9	11.9	11.8	13.9
	Min.	14.2	8.3	8.2	9.2	9.1	8.1	8.3	10.2
	Avg.	16.5	10.1	9.9	11.0	11.1	10.1	10.0	12.1
	98%	18.5	11.9	11.6	12.8	12.9	11.9	11.8	13.9
NOx µg/M^3	**Max.**	23.8	13.8	14.9	17.4	17.9	15.9	17.8	17.9
	Min.	19.1	10.2	11.3	13.7	14.1	12.1	14.1	14.3
	Avg.	21.2	12.0	13.0	15.6	16.0	14.0	16.0	16.0
	98%	23.8	13.8	14.9	17.3	17.9	15.8	17.8	17.9
CO mg/m^3	**Max.**	0.090	0.070	0.080	0.080	0.090	0.080	0.090	0.080
	Min.	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	Avg.	0.047	0.033	0.043	0.043	0.042	0.044	0.045	0.044
	98%	0.090	0.070	0.080	0.080	0.085	0.080	0.085	0.080

तक्ता १८ 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		NOx 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

इ. पाण्याची गुणवत्ता

पाण्याच्या भौतिक, रासायनिक गुणधर्मांची आणि त्यातील जड धातूंची तपासणी करण्यासाठी MoEFCC, New Delhi मानांकित मे. ग्रीन एन्व्हायरोसेफ इंजिनीअर्स अँड कन्सल्टंटस प्रा. लि., पुणे यांच्यामार्फत नमुने घेऊन त्यांचे पृथःकरण केले. भूगर्भातील पाण्याच्या नमुना चाचणीसाठी ८ ठिकाणे व भूपृष्ठीय पाण्याच्या नमुना चाचणीसाठी ७ ठिकाणे घेतली होती.

तक्ता १९ भूगर्भातील पाण्यासाठी निवडलेली ठिकाणे

स्थानक सांकेतांक	स्थानकाचे नाव	को-ऑर्डिनेटस अक्षांश व रेखांश	साईट पासुनचे अंतर (कि.मी.)	साईट पासुनची दिशा
GW1	यशवंतनगर	१७°५१'५२.७७"N ७५°०'५१.३५"E	०.८०	पश्चिम
GW2	चौंडेश्वरवाडी	१७°५१'९.९१"N ७५°०'४६.३६"E	१.६८	उत्तर
GW3	गिरझनी	१७°५१'२२.७१"N ७४°५९'४१.१७"E	१.७४	नैऋत्य
GW4	गिरझनी	१७°५२'३७.२८"N ७४°५९'६.९९"E	२.५७	वायव्य
GW5	आगेचिवाडी	१७°५३'१४२४"N ७४°५९'४५.७६"E	२.५५	वायव्य
GW6	यशवंतनगर	१७°५२'२१.६७"N ७५°१'३२.२६"E	२.०८	पूर्व
GW7	पिसेवाडी	१७°४८'५१.१६"N ७५°०'५६.६९"E	५.९०	उत्तर
GW8	पिसेवाडी	१७°४८'१८.२५"N ७५°०'५४.६९"E	६.८९	उत्तर

तक्ता २० पृष्ठभागावरील पाण्यासाठी निवडलेली ठिकाणे

स्थानक सांकेतांक	स्थानकाचे नाव	को-ऑर्डिनेटस अक्षांश व रेखांश	साईट पासुनचे अंतर (कि.मी.)	साईट पासुनची दिशा	स्पष्टीकरण
SW1	चौंडेश्वरवाडी	१७°५०'२१.८४"N ७५°०'४५.३४"E	३.०९	उत्तर	नाल्याची वरिल आजु
SW2	मालेवाडी	१७°५२'२.८१"N ७५°१'३८.११"E	२.१५	पूर्व	नाल्याची मधील आजु
SW3	अकलूज	१७°५३'२९.६४"N ७५°१'३०.०८"E	३.३४	ईशान्य	नाल्याची खालील आजु
SW4	कोंडाबाची	१७°५४'५७.४२"N ७४°५७'५७.५०"E	६.९७	वायव्य	नीरा नदीची वरिल आजु
SW5	अकलूज	१७°५४'११.०६"N ७५°२'७.००"E	५.०१	ईशान्य	नीरा नदीची मध्य आजु
SW6	ओझरे	१७°५५'४.६१"N ७५°४'११.४३"E	८.७४	ईशान्य	नीरा नदीची खालील आजु
SW7	गणेशवाडी	१७°५६'५६.६८"N ७५°२'२२.३४"E	९.७४	ईशान्य	भीमा नदी

फ. ध्वनी पातळीचे सर्वेक्षण

ध्वनी पातळीचे सर्वेक्षणासाठी कारखाना परिक्षरास केंद्र मानून त्यापासून १० कि.मी. अंतराच्या परिघामध्ये येणारा भाग हा अभ्यास क्षेत्र म्हणून विचारात घेण्यात आला

होता. ध्वनी पातळीचे मॉनिटरींग साठी रहिवासी, व्यावसायिक, औद्योगिक, शांतता विभाग असे चार विभाग विचारात घेण्यात आले होते. अभ्यासामध्ये काही महत्वाच्या रस्त्यांवर वाहतुकीमुळे होणारा आवाज सुद्धा समाविष्ट केला होता. प्रत्येक ठिकाणी २४ तासासाठी ध्वनी पातळीचे मॉनिटरींग करण्यात आले. ध्वनी पातळीचे मॉनिटरींगची वेगवेगळी स्थानके खाली दिलेल्या तक्त्यामध्ये दाखवली आहेत.

तक्ता २१ ध्वनी नमुना ठिकाणे

स्थानक सांकेतांक	स्थानकाचे नाव	को-ऑर्डिनेटस	साईट पासुनचे अंतर(कि.मी.)	साईट पासुनची दिशा
		अक्षांश व रेखांश		
N1	साईट	१७°५२'३.९२"N ७५°०'२३.९३"E	-	-
N2	अकलूज	१७°५३'१५.३५"N ७५°१'१५.०१"E	२.५	ईशान्य
N3	आनंदनगर	१७°५४'१४.२१"N ७४°५९'१३.५९"E	४.५	वायव्य
N4	गिरझनी	१७°५१'५४.१५"N ७४°५८'४६.८१"E	२.७	पश्चिम
N5	पाणिव	१७°५०'५१.९४"N ७४°५८'३३.६५"E	३.८	नैऋत्य
N6	विझोरी	१७°४९'५५.७४"N ७५°०'१९.४७"E	३.८	उत्तर
N7	उदयनगर	१७°५१'८.७१"N ७५°०'२७.५८"E	१.५	आग्नेय
N8	मालेवाडी	१७°५१'५०.७२"N ७५°२'१३.३७"E	३.१	पूर्व

तक्ता २२ ध्वनी पातळी

स्थानक	ध्वनी पातळी					
	L10	L50	L90	Leq(day)	Leq(night)	Ldn
N1	५३.१	५४.८	५९.७	५९.०	५२.३	६०.५
N2	४२.९	४६.१	४८.०	५१.३	४२.१	५१.६
N3	४३.२	४६.४	४७.९	५१.३	४२.४	५१.७
N4	४२.५	४५.९	४७.१	५१.३	४१.५	५१.४
N5	४३.४	४६.४	४७.९	५१.६	४२.१	५१.८
N6	४२.८	४६.३	४७.६	५१.५	४२.१	५१.८
N7	४३.०	४६.९	४७.८	५२.९	४१.९	५२.६
N8	४३.५	४७.१	४८.०	५२.०	४३.०	५२.४

ग. सामाजिक आर्थिक रचना

सामाजिक व आर्थिक स्तरावरून त्याभागातील प्रगती दर्शनास येते. कोणत्याही प्रकारच्या विकास प्रकल्पामुळे कार्यक्षेत्रात राहणा-या लोकांच्या राहणीमाना वर, सामाजिक व आर्थिक स्तरावर प्रभाव पडतो.याबद्दलची सविस्तर माहिती ई.आय. ए. रिपोर्ट मधीलप्रकरण ३ मध्ये आहे.

ष. पर्यावरण

Random Sampling व Oppurtunistic Method या पध्दतीचा वापर करून त्या भागातील जैवविविधतेचा अभ्यास करणेत आला.

दृच्छिक नमुना पद्धतीने वनस्पतींसाठी आणि संधीयुक्त ठिकाण पाहणी पद्धती व मानक ठिकाण गणती पद्धतीप्रमाणे प्राण्यांसाठी कार्यक्षेत्र सर्वेक्षण करण्यात आले. बायोटाच्या गुणात्मक अभ्यासासाठी ढोबळ निरीक्षण पाहणी आणि अंदाज पद्धतीचा अवलंब करण्यात आला. स्थानिक पर्यावरण बदलाचे मासे व पक्षी हे चांगले निदर्शक असल्यामुळे त्यांचा अभ्यास करणेत आला. वनस्पती मुख्यतः मोठया वर्गातील झाडांची ओळख व त्यांचे प्रमाण यांच्याकडे अभ्यास केंद्रित होता.

८) पर्यावरणावर होणारे परिणाम आणि त्यासाठीच्या उपाययोजना

अ. भौगोलिक रचनेवर परिणाम

सदर प्रकल्पांतर्गत सध्याच्या प्रकल्पामध्ये विस्तारीकरण होणार असलेने संपादित जागेच्या भौगोलिक रचनेवर परिणाम अपेक्षित नाही. सदर औद्योगिक प्रकल्पामुळे काही सकारात्मक फायदे जसे की जमिन विकसिकरण, व झाडे लावणे अपेक्षित आहे.

ब.वातावरणावरील परिणाम

प्रस्तावित प्रकल्पामुळे हवामानावर परिणाम अपेक्षित नाही कारण जास्त तापमान असणर्‍या या वायुंचे उत्सर्जन अपेक्षित नाही.

क. हवेच्या दर्जावरील परिणाम

प्रकल्पामुळे होर्णा या परिणामांची छाननी करण्यासाठी कारखाना परिसरास केंद्र मानून त्यापासून १0 कि.मी. अंतराच्या परिघामध्ये येणारा भाग विचारात घेतला गेला आहे.

१.मुलभूत ॲम्बिएंट वायू प्रमाणके

ऑक्टोबर ते डिसेंबर २0२२ मध्ये करण्यात आलेल्या कार्यक्षेत्र सर्वेक्षणा दरम्यान नोंद करण्यात आलेली २४ तासामधील ९८ पर्सेंटाईल प्रमाणके आणि PM_{10}, $PM_{2.5}$, SO_2 व NO_X यांची सभोवतालच्या हवेमधील सरासरी यानुसार मिळालेल्या प्रमाणांना मुलभूत प्रमाणके मानण्यात आली आहेत. सदर प्रमाणके परिसरामध्ये होणार परिणाम दर्शवतात.सध्याचीमुलभूत प्रमाणके ई.आय.ए. रिपोर्ट मधीलप्रकरण ४ तसेच पुढील तक्त्यामध्ये मांडण्यात आली आहेत.

तक्ता २३ मुलभूत प्रमाणके (98 Percentile)

तपशील	PM_{10}	$PM_{2.5}$	SO_2	NO_X	CO

Conc. ($\mu g/m^3$)	६४.८	२६.८	१८.५	२३.८	०.९००
NAAQS	१०० $\mu g/m^3$	६० $\mu g/m^3$	८० $\mu g/m^3$	८० $\mu g/m^3$	४ mg/m^3

२. हवा प्रदुषणस्त्रोत

प्रस्थापित ५० टन प्रति तास क्षमतेचा ऑयलस हा प्रस्तावित विस्तारीकरणामध्ये वापरण्यात येणार आहे. ५० टन प्रति तास क्षमतेचा ऑयलस हा आस्तवनी प्रकल्पासाठी वापरला जातो. सध्या २५ टन प्रति तास एवढी क्षमता वापरली जाते.उर्वरित २५ टन प्रति तास एवढी क्षमता विस्तारीकरण प्रकल्पांतर्गत वापरली जाईल.
१४० टन प्रति तास क्षमतेचा ऑयलस हा साखस कारखान्याअंतर्गत वापरला जातो. विस्तारीकरणांतर्गत कोणताही नवीन ऑयलस असविला जाणार नाही.

प्रस्तावित ७५० के.व्ही.ए. क्षमतेचे २ डी.जी. सेट कार्यस्त आहेत. विस्तारीकरणांतर्ग त कोणताही नवीन डी.जी. सेट असविला जाणार नाही.

ड. जलस्त्रोतावरील परिणाम

१. भुपृष्ठीय जलस्त्रोतावरील परिणाम

आस्तवनी प्रकल्पातून तयार होणारे सांडपाण्यातील सॉ स्पेंटवॉश हे एम. ई. ई. मध्ये प्रक्रिया केले जाईल.कॉन्सन्ट्रेटेड स्पेंटवॉश ATFD मध्ये प्रक्रिया केले जाईल व त्यापासून पावडस तयार होईल.बाकीचे सांडपाणी हे प्रक्रिया करण्यासाठी सी.पी.यू. मध्ये पाठवण्यात येईल. प्रक्रिया केलेले पाणी हे ZLD साठी वापरले जाईल. घरगुती सांडपाणी हे प्रस्तावित एस. टी. पी.मध्ये प्रक्रिया करण्यासाठी पाठवण्यात येई ल.अधिक माहिती ई.आय.ए. रिपोर्ट मधील प्रकरण क्र. २ मध्ये देण्यात आली आहे.

२. भूगर्भिय पाण्याच्या गुणवत्तेवर होणारा परिणाम

प्रकल्पांसाठी लागणारे जरूरी पाणी हे नीरा नदीच्या उजव्या कालव्यामधुन घेण्यात येईल. नीरा नदी उजवा कालव्याची NOC घेण्यात आली आहे. प्रस्तावित विस्तारीकरणा अंतर्गत भूजलाचा वापर होणार नाही. या अधिक, कारखान्यामधुन कोणत्याही प्रकारचे अप्रक्रियीत सांडपाणी विसर्जीत होणार नाही त्यामुळे भूजल पाणी पातळीवर व गुणवत्तेवर कोणताही परिणाम होणार नाही.

इ. माती वर होणारे परिणाम

मातीच्या गुणधर्मावर होणारे परिणाम हे साधारणपणे वायू उत्सर्जन, सांडपाण्याचे आणि घनकचरा विनियोगयांमुळे होत असतात.सध्याच्या साखस कारखाना व सहवीज प्रकल्पातून वर उल्लेख केलेले घटक विसर्जीत होणार नाहीत.ऑयलर्सना ई.एस.पी. व वेट स्क्रबर असविले आहेत. ऑयलरची राख व ई.टी.पी. स्लजरूपात घनकचरा निर्माण होईल. ऑयलरची राख पीट निर्मितीसाठी दिली जाईल व ई.टी.पी. स्लज वृक्षारोपनासाठी खत म्हणून वापरली जाईल.घरगुती सांडपाण्यावर प्रस्तावित सांडपाणी प्रक्रिया केंद्रात प्रक्रिया केली जाईल. त्यामुळे वायु प्रदुषके अथवा सांडपाण्यामुळे जमिनीच्या रासायनिक घटकांमध्ये कोणताही मोठा बदल होणार नाही.

फ. ध्वनी मर्यादेवर होणारा परिणाम

अतिध्वनी निर्माण करणा या यंत्रावर काम करीत असणा-या कामगारांचे संतुलन बिघडुन कामावर परिणाम होण्याची शक्यता असते. ध्वनी निर्माण होणाऱ्या स्त्रोताजवळ

असणाऱ्या लोकांची ऐकण्याची क्षमता कमी होऊ शकते. शंढर प्रकल्पामध्ये मुख्यत: साखर कारखान्यातील मील, कॉम्प्रेसर, बॉयलर, टर्बाइन व डि.जी. सेट हे ध्वनी प्रदूषणाचे मुख्य स्त्रोत ठरतील.शंढर प्रकल्प हा ध्वनी प्रदुषण करणारा नाही.

ग. जमीन वापरावर होणारा परिणाम

साखर कारखाना व आसवनी प्रकल्पाचे विस्तारीकरण हे सध्याच्या साखर कारखाना, आसवनी प्रकल्प व सहवीज प्रकल्पामध्ये करण्यात येणार आहे. शंढर जागेचा औद्योगिक कारणांसाठी वापर करण्यात येत आहे यामुळे जमीन वापरामध्ये बंदल अपेक्षित नाही.

घ. झाडांवर व प्राण्यांवर होणारा परिणाम

प्रक्रिया न केलेले सांडपाणी कारखान्याच्या सभोवताली विसर्जित केल्यास पाणी संस्था व त्यावर अवलंबून असलेली जैवविविधतेवर परिणाम संभोवतो.वायु प्रदुषणा संदर्भा त कारखाना SPM च्या स्वरूपात प्रदुषण योगदान देऊ शकतो. याचा विपरीत परिणाम अंशतः पक्षी, सभोवतालची पीके आणि स्थानिक लोकांवर होऊ शकतो.झाडांवर व प्राण्यांवर होणारा परिणामांची माहिती ई.आय. ए. रिपोर्ट मधीलप्रकरण३ मध्ये देण्यात आलेली आहे.

ध. ऐतिहासिक ठिकाणावर होणारा परिणाम

शिल्पसृष्टी किल्ला ' अकलूज किल्ला प्रकल्पाच्या २.३३ कि.मी वर आहे.कोणताही मोठा परिणाम अपेक्षित नाही.

९)पर्यावरणीय व्यवस्थापन आराखडयाची ठळक वैशिष्टये

पर्यावरणीय व्यवस्थापन आराखडयाची ठळक वैशिष्टये खालील तक्त्यामध्ये दिलेली आहेत '

तक्ता २४ पर्यावरणीय व्यवस्थापन आराखडा

क्र.	तपशील	ठिकाण	परिमाणे	वारंवारता	तपासणी
१.	हवेची गुणवत्ता	आपविंड - १, डाऊनविंड - २ (मेनगेट जवळ , किण्वन विभाग, आसवनी प्रकल्पाजवळ' अभ्यासक्षेत्र (मालेवाडी, महालुंग, गिरझनी, वाटपळी, पिंपेवाडी, शारती, यशवंतनगर)	PM_{10}, $PM_{2.5}$, SO_2, NOx, CO	मासिक	MoEFCC & NABL approved Laboratory मधुन
२.	चिमणीतुन होणारे उत्सर्जन	बॉयलरच्या १ चिमणी, डी.जी. सेटची २ चिमण्या	SO_2, SPM, NOx	मासिक	
३.	ध्वनिगुणवत्ता	मेनगेट जवळ, किण्वन विभाग, साखर गोदाम, बॉयलर, डी. जी. सेट, टर्बाइन विभाग, ॲसेटिक ॲसिड विभाग	Spot Noise Level, recording; Leq(n),Leq(d), Leq(dn)	मासिक	
४.	पिण्याचे पाणी	कारखान्याचे उपहारगृह / वसाहत	Parameters as drinking water	मासिक	

क्र.	तपशील	ठिकाण	परिमाणे	वारंवारता	तपासणी
			standards IS10500		
५.	जमीन	अभ्यास क्षेत्रामधील ठिकाणे ८ ठिकाणे S1यशवंतनगर S2गिरञ्जनी S3 आनंदनगर S4 चौडेंश्वरवाडी S5 भिजवडी S6 चाकोरे S7 धुळेनगर S8 पिरंगेवाडी	PH, Salinity, Organic Carbon, N.P.K.	मासिक	
६.	पाण्याचीगुणवत्ता	अभ्यास क्षेत्रामधील ठिकाणे (भुगर्भीय पाणी- ८ ठिकाणे) GW1 यशवंतनगर GW2 चौडेंश्वरवाडी GW3 गिरञ्जनी GW4 गिरञ्जनी GW5 खामेचिवाडी GW6 यशवंतनगर GW7 पिरंगेवाडी GW8 पिरंगेवाडी (पृष्ठभागावरील पाणी- ७ ठिकाणे) SW1 चौडेंश्वरवाडी SW2 मालेवाडी SW3 अकलूज SW4 कोंडाबावी SW5 अकलूज SW6 ओझरे SW7 गणेशवाडी	Parameters as per CPCB guideline for water quality monitoring – MINARS/27/ 2007-08	द्वैमासिक	
७.	सांडपाणी	प्रक्रिया न केलेले, प्रक्रिया केलेले	pH, SS, TDS, COD, BOD, Chlorides, Sulphates, Oil & Grease.	मासिक	
८.	कचरा व्यवस्थापन	प्रस्थापित कृतीतून तयार होणा या कर्च याचे वैशिष्टे आणि रुपानुसार व्यवस्थापन केले जाईल	कर्च याचे निर्मिती, प्रक्रिया आणि विल्हेवाट यांची नोंद	वर्षातून दोनदा	म.शि.ना.ना.स.सा.का.लि.यांचेकडून
९.	आपातकालीन तयारी जसे की आग व्यवस्थापन	प्रतिबंधात्मक उपाय म्हणून आगीच्या व स्फोट होणाऱ्या ठिकाणी आगीपासून संरक्षण आणि सुरक्षिततेची काळजी घेतली जाईल.	ऑनसाईट ई मरजन्सी व संकटकालीन बाहेर पडण्याचा आराखडा	वर्षातून दोनदा	

क्र.	तपशील	ठिकाण	परिमाणे	वारंवारता	तपासणी
१०.	आरोग्य	कारखाण्याचे कामगार आणी स्थलांतरीत कामगारांसाठी आरोग्य शीबीराचे आयोजन	सर्व आरोग्यविषयक चाचण्या	वर्षातून दोनदा	स.म.शि.ना.ना.स.स ा.का.लि.यांचेकडून
११.	हरीतपट्टा	कारखान्याच्या परीसरामध्ये आणी शेजारील गावांमधला	झाडे जगण्याचा दर	तज्ञांनुसार	
१२.	सी.ई.आर.	निर्देशाप्रमाणे	--	सहा महिन्यातुन	

१0) इतर अभ्यास

आपत्ती व्यवस्थापन

आपत्ती व्यवस्थापन करताना, खालील बाबींचा विचार केला जातो

१. प्रकल्पाच्या शेजारी राहणा-या लोकांना प्रकल्पामुळे कमीतकमी धोका असावा.
२. प्रकल्पामध्ये काम करणा-या कामगारांना शेजारी राहणा-या लोकांपेक्षा जास्त धोका आपेक्षित आहे, यामुळे प्रकल्पामध्ये काम करणा-या कामगाराना संभाव्य धोक्यापासून रक्षणाचे ट्रेनिंग दिले गेले पाहिजे जेणेकरून संभाव्य धोके कमी होतील.

ग्रीन ए. जी.(१९८२) यांनी आपत्ती व्यवस्थापन करताना विचारात घेतलेल्या बाबी -

१. प्रकल्पास धोकाः जेव्हा जिवीतास कमीतकमी धोका असतो व तो धोका पुढे कमी करणे शक्य होत नाही यावेळी ह्या धोक्यास प्राथमिकता दिली गेली पाहिजे. षा अंर्तगत संभावित वित्तीय नुकसानी च्या धोक्याचा विचार केला जातो.
२. कामगार व जनतेस धोकाः फेटल ॲक्सिडेंट रेट (एफ. ऐ. आर) किंवा फेटलॲक्सिडेंट फिक्वेंन्सी रेट (एफ.ऐ.एफ.आर) याचा वापर कामगार व जनतेस धोके यांचा अभ्यास करताना वापर केला जातो. एफ.ऐ.आर व एफ.ऐ.एफ.आर म्हणजेच औद्योगिक अपघातांमध्ये १000 लोकांमागे होणा-या अपेक्षित मृतांची संख्या होय.

या संबंधीची अधिक माहिती ई.आय.ए. रिपोर्ट मधीलप्रकरण ७ येथे जोडली आहे.

Enclosure- I

No.IA-J-11011/516/2022-IA-II(I)

Goverment of India

Minister of Enviroment,Forest and Climate Change

Impact Assessment Division

***

Indira Paryavaran Bhavan,
Vayu Wing,3rd Floor,Aliganj,
Jor Bagh Road,New Delhi-110003
06 Dec 2022

To,

M/s SAHAKAR MAHARSHI SHANKARRAO MOHITE PATIL SAHAKARI SAKHAR KARKHANA LTD

At- Shankarnagar -Akaluj, Post-Yeshwantnagar, Tal.: Malshiras, Dist.: Solapur, State: Maharashtra.,

Moradabad-413118

Chandigarh

Tel.No.-; Email:smsmpsskdistilleryzld@gmail.com

Sir/Madam,

This has reference to the proposal submitted in the Ministry of Environment, Forest and Climate Change to prescribe the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining Environmental Clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, the proponent had submitted online information in the prescribed format (Form-1) along with a Pre-feasibility Report. The details of the proposal are given below:

1. Proposal No.:	IA/MH/IND2/407181/2022
2. Name of the Proposal:	Expansion of Distillery from 60 KLPD to 120 KLPD (B/ C Heavy Molasses/ Cane Juice/ Syrup) by Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd.
3. Category of the Proposal:	Industrial Projects - 2
4. Project/Activity applied for:	5(g) Distilleries
5. Date of submission for TOR:	30 Nov 2022

In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed with public consultation as follows:

ACTIVITY 5 (g)- DISTILLERIES

SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR DISTILLERIES

GENERIC TERMS OF REFERENCE

1) Executive Summary

2) Introduction

i. Details of the EIA Consultant including NABET accreditation

ii. Information about the project proponent

3) Project Description

i. Cost of project and time of completion.

ii. Products with capacities for the proposed project.If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.

iii. List of raw materials required and their source along with mode of transportation.

iv. Other chemicals and materials required with quantities and storage capacities

v. Details of Emission, effluents, hazardous waste generation and their management. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)

vi. Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided.

vii. Hazard identification and details of proposed safety systems.

viii. Expansion/modernization proposals:

a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for

the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the

latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.

b. In case the existing project has not obtained environmental clearance, reasons for not

taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in

case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4) Site Details

i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification forselecting the site, whether other sites were considered.

ii. A toposheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)

iii. Co-ordinates (lat-long) of all four corners of the site. Google map-Earth downloaded of the project site. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

iv. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

v. Land use break-up of total land of the project site (identified and acquired), government/

private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not

required for industrial area).

vi. A list of major industries with name and type within study area (10km radius) shall be

incorporated.

vii. Details of Drainage of the project up to 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects).

viii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

ix. R&R details in respect of land in line with state Government policy.

5) Forest and wildlife related issues (if applicable):

i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)

ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).

iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon

v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State

Government for conservation of Schedule I fauna, if any exists in the study area

vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6) Environmental Status

i. Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.

iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.

iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.

v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.

vi. Ground water monitoring at minimum at 8 locations shall be included.

vii. Noise levels monitoring at 8 locations within the study area.

viii. Soil Characteristic as per CPCB guidelines.

ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.

x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule- I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

xi. Socio-economic status of the study area.

7) Impact and Environment Management Plan

i Assessment of ground level concentration of pollutants from the stack emission based on site specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modeling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modeling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
ii. Water Quality modeling - in case of discharge in water body

iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor cum- rail transport shall be examined.

iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.

v. Details of stack emission and action plan for control of emissions to meet standards.

vi. Measures for fugitive emission control

vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.

8) Occupational health

i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and

periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.

iii.Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved.

iv. Annual report of heath status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.

iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report.

10) Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labor force during construction as well as to the casual workers including truck drivers during operation phase.

11) Enterprise Social Committment (ESC)

i. Adequate funds (at least 2.5 % of the project cost) shall be ear marked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

11) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details there of and compliance/ATR to the notice(s) and present status of the case.

13) A tabular chart with index for point wise compliance of above TOR.

SPECIFIC CONDITIONS

1.List of existing distillery units in the study area along with their capacity and sourcing of raw material.

2.Number of working days of the distillery unit.

3. Details of raw materials such as molasses/grains, their source with availability.

4. Details of the use of steam from the boiler.

5. Surface and Ground water quality around proposed spent wash storage lagoon, and compost yard.

6. Plan to reduce spent wash generation within 6-8 KL/KL of alcohol produced.

7. Proposed Effluent treatment system for molasses/grain based distillery (spent wash, spent lees, condensate and utilities) as well as domestic sewage and scheme for achieving zero water conservation.

8. Proposed action to restrict fresh water consumption within 10 KL/KL of alcohol production.

9. Details about capacity of spent wash holding tank, material used, design consideration. No. of peizometers to be proposed around spent wash holding tank.

10. Details of solid waste management including management of boiler ash, yeast, etc. Details of incinerated spent wash ash generation and its disposal.

12. Details of bio-composting yard (if applicable).

13. Action plan to control odour pollution.

14. Arrangements for installation of continuous online monitoring system (24x7 monitoringdevice)

15.Add:If Sugar and distillery will have integrated effluent treatment facilities. Details regarding the same.

PLOT AREA STATEMENT

SR.NO	DESCRIPTION	AREA (SQ.M.)
1	TOTAL PLOT AREA	1210000.00
2	REQUIRED GREEN BELT (33%)	399300.00
3	PROPOSED GREEN BELT. (33%)	402840.81
4	REQUIRED PARKING (20%)	242000.00
5	PROPOSED PARKING. (20%)	243535.59
6	PROPOSED ROAD	114629.30
7	PROPOSED GROUND COVERAGE AREA	138506.45
8	PROPOSED OPEN SPACE AREA	310487.85

EXISTING BUILDING GROUND COVERAGE AREA STAREMENT

SR.NO	SYMBOL	DESCRIPTION	AREA (SQ.M.)
1	B01	SHRITI BHAVAN	2028.13
2	B02	TEMPLE	127.8
3	B03	WATER TANK	124.89
4	B04	SHOPS	2120.28
5	B05	KAMGAR KALYAN KEDRA	300.07
6	B06	SUGAR GODOWN 12 , 13	2598.19
7	B07	GENERAL OFFICE	1218.83
8	B08	STAFF QUARTERS	5355.80
9	B09	GUEST HOUSE	1408.20
10	B10	OPEN AMPHETHETOR	2457.11
11	B11	PARVATI TEMPLE	226.56
12	B12	SHIVTIRTHA AKHADA	1405.83
13	B13	JIVANU KHAT PRAKALPA	928.45
14	B14	DISTILLERY PLANT	4894.83
15	B15	DISTILLERY RESERVOIR TANK	2406.71
16	B16	SPRAY POND	6258.43
17	B17	MOLALSSES TANKS	2656.55
18	B18	NEW IETHENOL TANK	470.10
19	B19	CO-GENERATION PLANT	12571.84
20	B20	KARKHANA RESERVOIR TANK	4073.06
21	B21	S.G. NO 2,3,1	5265.03
22	B22	SUGAR FACTORY	12513.53
23	B23	SWITCH YARD	17023.79
24	B24	SUGAR GODOWN NO 3,4,6,7	4203.37
25	B25	SUGAR GODOWN. 8,9,10,11	5395.87
26	B26	WTP PLANT	3529.59
27	B27	SUGAR GODOWN	10915.17
28	B28	TEMPARARY STAFF COCOLY	937.95
29	B29	BUNGALOW	298.53
30	B30	SMRITI MAHARSHI HALL	809.26
31	B31	WRIGH BRIDGE	902.08
32	B32	CANTEEN BUILDING	389.48
33	B33	SHED	404.45
34	B34	OPEN YARD	15621.81
35	B35	COMPOSTING PIT	6469.92
		TOTAL GROUND COVERAGE AREA	138506.45

EXISTING PARKING AREA STATEMENT

SR.NO	SYMBOL	DESCRIPTION	AREA (SQ.M.)
1	P01	OPEN PARKING	39068.45
2	P02	OPEN PARKING	2722.41
3	P03	OPEN PARKING	68729.85
4	P04	OPEN PARKING	7351.92
5	P05	OPEN PARKING	41857.47
6	P06	OPEN PARKING	3419.88
7	P07	OPEN PARKING	3778.90
8	P08	OPEN PARKING	14581.15
9	P09	OPEN PARKING	9693.08
10	P10	OPEN PARKING	9570.39
11	P11	OPEN PARKING	42534.34
		TOTAL PARKING AREA	243535.59

EXISTING GREEN-BELT AREA STATEMENT

SR.NO	SYMBOL	AREA (SQ.M.)
1	GB01	4782.78
2	GB02	11314.07
3	GB03	35856.87
4	GB04	10065.09
5	GB05	13870.49
6	GB06	6831.53
7	GB07	7248.95
8	GB08	6140.57
9	GB09	9797.46
10	GB10	12701.04
11	GB11	4660.37
12	GB12	49667.20
13	GB13	7402.87
14	GB14	17166.84
15	GB15	5351.65
16	GB16	4533.21
17	GB17	16784.82
18	GB18	9628.68
19	GB19	15153.41
20	GB20	37710.42
21	GB21	7108.32
22	GB22	1495.41
23	GB23	2598.32
24	GB24	6514.50
25	GB25	62991.15
26	GB26	47682.87
27	GB27	1941.78
28	GB28	4851.14
	TOTAL GREEN BELT AREA	402840.81

EXISTING ROAD AREA STATEMENT

SR.NO	SYMBOL	AREA (SQ.M.)
1	R01	1261.23
2	R02	2189.6
3	R03	16786.9
4	R04	2972.82
5	R05	2203.95
6	R06	2412.47
7	R07	5081.28
8	R08	737.65
9	R09	13966.3
10	R10	367.23
11	R11	29005.55
12	R12	6398.03
13	R13	14457.16
14	R14	3857.7
15	R15	2335.95
16	R16	10655.5
	TOTAL ROAD AREA	114629.30

SR.NO	DESCRIPTION	COLOUR
01.	EXISTING STRUCTURE	
02.	GREEN BELT	
03.	PARKING AREA	
04.	OPEN SPACE (HARDSCAPE AREA)	
05.	ROAD	
06.	ASSEMBLY AREA	
07.	PLOT BOUNDARY	

SCALE - N.T.S.

DRG. TITLE :- MASTER LAY OUT PLAN

FOR - SAHAKAR MAHARSHI SHANKARAO MOHITE - PATIL SSK LTD,

AT. - SHANKARNAGAR, AKLUJ, TAL. - MALSHIRAS, DIST. - SOLAPUR.(MS)

PLANT NORTH
31°
TRUE NORTH

B. S. PATEL
B.E. (CIVIL) A.M.I.E.
ARCHITECTURAL & STRUCTURAL ENGINEER
613, 'E', WARD SHAHUPURI,KOLHAPUR
OFF. (0231) 2653642, (M) 9823057961

महाराष्ट्र MAHARASHTRA ◐ 2015 ◐ X 481201

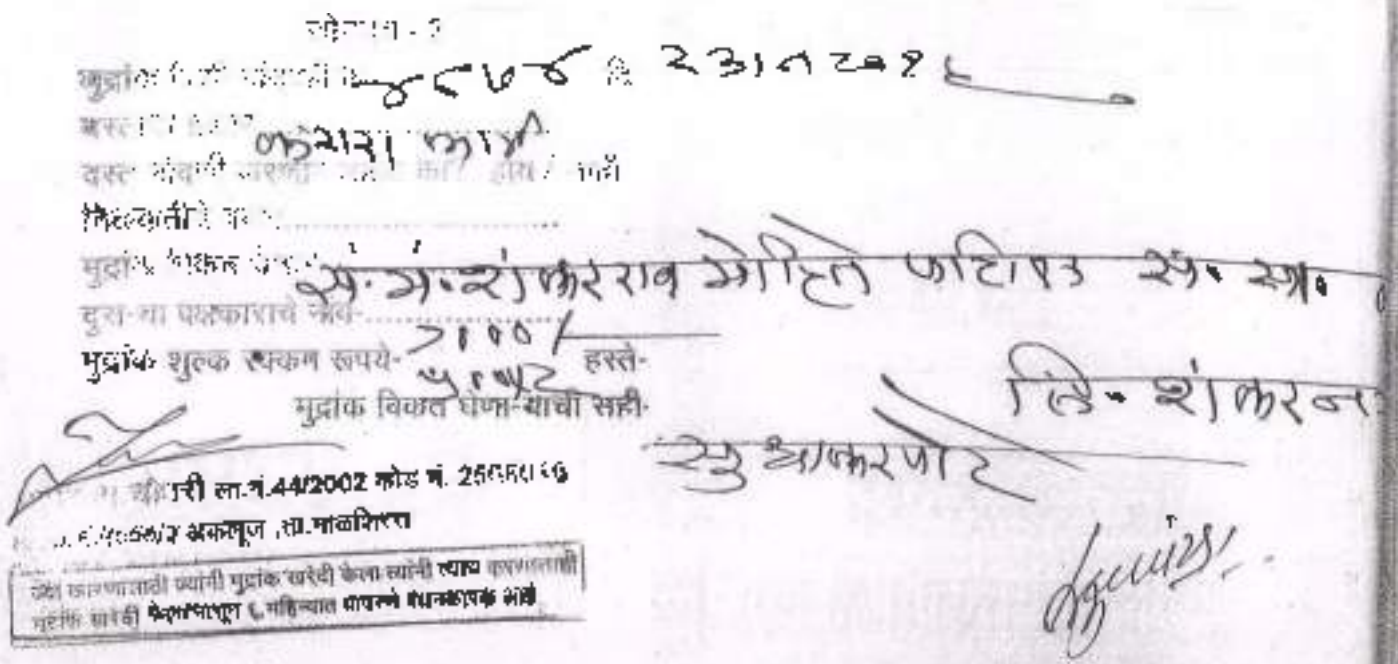
उपकोषागार कार्यालय,
ता. माळशिरस जि. सोलापूर
18 AUG 2016
उपकोषागार अधिकारी

Sugar Plant

AGREEMENT (For non-irrigation water supply)

An agreement made on the 16th day of September Two thousand Sixteen between the Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd. Shankarnagar-Akluj, Tal. Malshiras, Dist. Solapur, the users such as Private Company/ Industries/Entrepreneurs/Factory (Which expression hereinafter referred to as 'the Factory shall, unless excluded by or it be repugnant to the context or meaning thereof be deemed to include its successors and assigns) The Company registered under the Maharashtra Co-operative Societies Act, 1960 and having its registered office at Shankarnagar-Akluj, Tal. Malshiras Dist. Solapur hereinafter referred to as 'the Company of the one part and the Governer of Maharashtra hereinafter referred to as 'the government' (which expression shall unless excluded by or it be repugnant to the context or meaning there of be deemed to include his successors and assigns) of the other part.

Whereas the Factory is desirous of constructing a pumping station on the company's land at shankarnagar (Akluj) Tal. Malshiras, Dist. Solapur, for drawing water from the source Branch No.1, Distributory No.9, Akluj Minor of Neera Right Bank Canal (hereinafter referred to as "the said source") for the



use by the Factory's **SUGAR PLANT** (hereinafter referred to as "the said plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

AND whereas the Factory has applied to the Government for permission to draw 0.438 M.Cum. of Water per year from the said source.

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

AND WHEREAS UNDER the said terms and conditions the factory has to deposit with the Executive Engineer, Neera Right Bank Canal, Phaltan Division to the Government a sum of Rs. 8,32,200/- (Vide previous agreement amount Rs. 6,17,747/- & Rs. 2,14,453/- deposited vied combine cheque No. 21080 dated 23/08/2010 amounting Rs. 17,15,582/- total deposited amount for this agreement Rs. 6,17,747/- + 2,14,543/- = 8,32,200/-) as security equivalent to 2 months factory's probable annual water charges based on yearly sanctioned and as communicated in cash or in the form of fixed deposit receipt or a bank Guarantee issued by a scheduled/nationalized bank having its main/branch office situated locally for the due observance and performance by the factory of the terms and conditions of this Agreement AND WHEREAS the factory has accordingly prior to the execution of these presents deposited with the Government Rs. 8,32,200/- as security for the due observance and performance by the factory of the terms and conditions here in contained, AND WHEREAS it has been agreed that the said amount will not carry any interest if deposited in cash.

महाराष्ट्र MAHARASHTRA ◐ 2015 ◐ X 481200

उपकोषागार कार्यालय, ता.माळशिरस जि.सोलापूर
18 AUG 2016
उपकोषागार अधिकारी

DEFFINETIONS:-

QUOTE:- Quote means yearly demand sanctioned and communicated to Sahakar Mharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd, Shankarnagar (Akluj) Taf. Malshiras, Dist. Solapur, by the Executive Engineer.

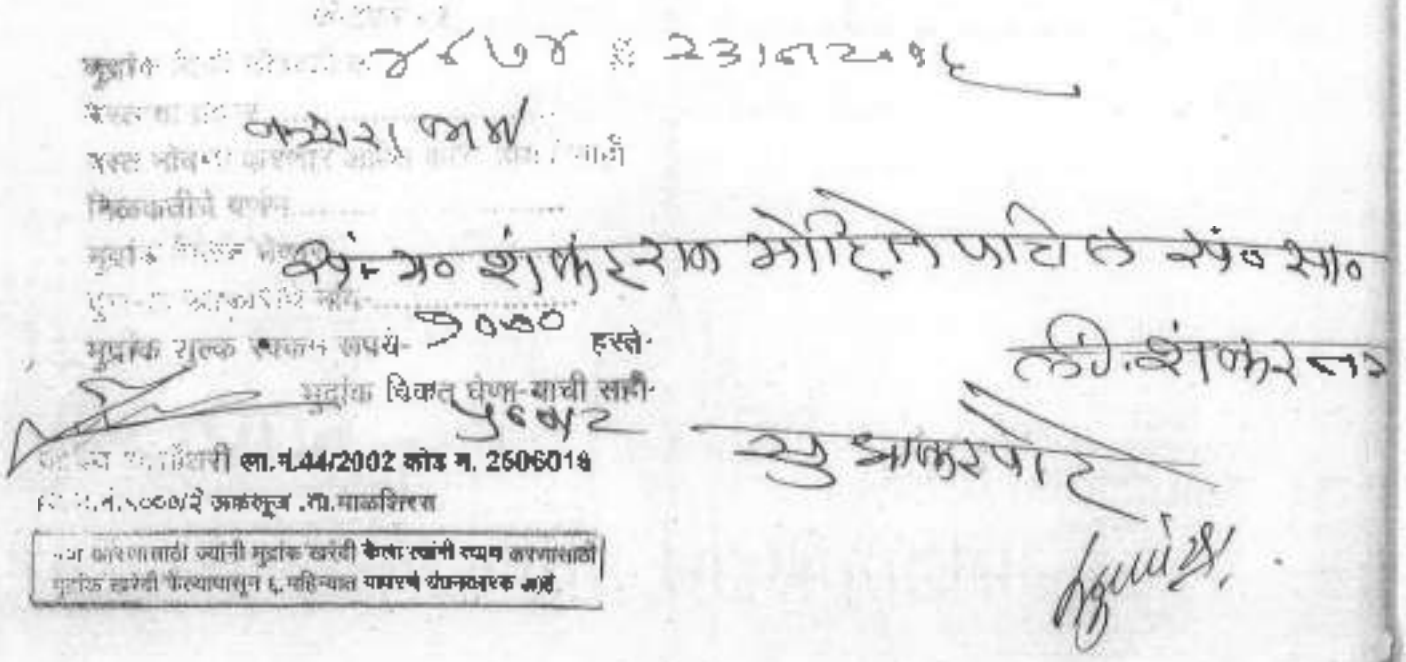
CORPORATION- Corporation means the River Basin corporations like Maharashtra Krishna Valley Development Corporation (MKVDC), Godavari Marathwada Irrigation Development Corporation (GMIDC) Tapi Irrigation Development Corporation (TIDC), Kokan Irrigation Development Corporation (KIDC) & Vidarbha Irrigation Development Corporation (VIDC), Municipal Corporation's Municipalities etc,

MIDC- MIDC means Maharashtra Industrial Development Corporation

MJP- MJP means Maharashtra Jeevan Pradhikaran.

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

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



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NOW THIS AGREEMENT WITHNESSTH AS FOLLOWS:-

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

Sr. No.	Description/Use	Quantity (Mucm) per year M.cum.
1	Total sanctioned quota	0.438
1.1	For Industry Using Potable water bottling plant	----
1.2	For other than water as raw material industrial use	0.438
1.3	For domestic use	----
1.4	For agriculture use (nursery/gardening) within the company's premises	----

and use the same for the purpose of the factory's said plant for supply to residential colonies and for agricultural use (nursery/gardening) for a term of six years commencing from the 16th September 2016 on the following terms and conditions.

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

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

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

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

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

5) Government shall be entitled to utilize water of the said canal available after meeting the reasonable requirements of the factory, as to which matter the decision of the Government shall be final and binding on the factory for such purpose as Government deem fit.

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

7) The factory shall not constructed the pick-up weir in the canal bed of the said canal unless the proposals, plans, drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an office authorized in that behalf by the Government and while granting its approval to the construction of the pick-up weir Govt. may impose such conditions as it may in its discretion think fit.

8) (a) For ascertaining the quantity of water drawn by the factory, the factory shall forthwith at its own cost and after obtaining prior approval in writing thereto of the Executive Engineer, install independent

pipelines fitted with separate electronic water measuring devices for use of water for the said independent intention (hereinafter referred to as "the said electronic measuring devices") at such places as is indicated by the Executive Engineer, All the pipeline layout showing locations of the metering equipments from the said source for different purpose shall be got licitly verified and got approved from Executive Engineer, Irrigation Department, Layout from the said source shall be got approval from the Executive Engineer. No changes in the approved layout shall be made without the prior written approval from the Executive Engineer. In the event of the factory failing to install and keep in proper working order the said electronic measuring devices for use of water for the said plant and supply to the said residential colonies as aforesaid the factory shall be liable to pay for the full sanctioned water quota as mentioned in clause 8 (d) and II. During such period 125% of the proportionate sanctioned quantity will be charged at the prevailing rears for the said plant. The said electronic measuring devices shall always be kept under the lock and seal of the Executive Engineer and the key of such lock shall at all times remain with the Executive Engineer. The factory shall at all times, during the substance of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

(b) Readings for the water so drawn by the factory will be taken the said electronic measuring devices, on the 1st day of each month/at agreed times, jointly by the authorized representatives of the Executive Engineer and of the factory.

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

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

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

ii) If the said electronic measuring devices remain out of order for a period exceeding 30 days then the quantity of water taken to be drawn by the USER during the said period shall be deemed to be 110% of the yearly

65

sanctioned demand as communicated in clause II or average for the last six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order. The aforesaid provisions will also apply when the quantity of water drawn by the factory cannot be measured on account of removal of the said electronic measuring devices for repairs or the same in the opinion of the Executive Engineer not working properly.

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

9) Billing should be done on bimonthly basis. The bill for the water drawn by the factor during the previous calendar month shall be sent in duplicate/triplicate by the Executive Engineer to the office of the factory within 15 days after the end of the water consumption month. The factory shall thereafter duly pay the same by a demand draft drawn in the name of the Executive Engineer, Nira Right Bank Canal. Phaltan Division for and on behalf of the Government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the factory fails to pay the amount within this stipulated time. (15 days from the date of receipt of the bill i.e. before the end of the current month) extra charge not exceeding 10% per annum of the amount due will be charged. If the delay in payment of water charges exceeds six months. The irrigation department reserves the right to terminate the water supply with a notice of 15 days in advance.

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

11) Subject to the provisions of clause (8) here of, the factory shall pay to the Government at the time and in the manner specified in clause (12) here of water charges for the quantity of water drawn by the factory from the said canal as measured by the said electronic measuring devices at the following rates, namely:-

Here rates which are going to be applied to the factory with mention of purpose of use of water, sanctioned quota and present rate (subject to its revision) may be specified. The water lifted by the USER during the rainy season from the canal where irrigation department has not released the water, concessional rate as decided by irrigation department shall be charged.

I) Provided however that after the expiry of two years from the date the factory starts drawing water from the said canal If any month the quantity of water drawn by the factory is less than 90 percent of the quantity of water specified in clause (1) here of then the factory shall pay to the government water charges calculated for 90 percent of the quantity of water specified in clause (1) here or for average or the quantity of water drawn by the factory

during the period of previous three months including the month in question whichever is greater.

ii) For any unforeseen reason if the factory /agency would like to reduce/ increase the demand or water made earlier/entered in the agreement they will be required to make the revised annual demand before the commencement of the year i.e. 1st day of November. On acceptance of such revised demand the factory will be charged as per changed demand for period specified, other conditions remaining same. A supplementary agreement on hundred rupees stamp paper for the changed quantity which will from part of main agreement

iii) No penal rate will be levied for the quantity to 10% in excess of the sanctioned one. For quantity used in excess of this 10% without prior sanction a panel rate of 25% will be charged over the basic rate. The delay in payment on account of this also, will be governed by clause 9 above.

iv)For any unforeseen reason (such as sudden closure of the units or sudden rise in production itc.) there could be abrupt fluctuations in the demand on both sides. Such cases will be decided at Govt. level only. By giving due considerations to the availability of water In the particular sub-basin and so on.

v) In addition to the payment of water charges referred to above the factory shall also pay to the Government local fund cess at the rate of 20 paise per every rupee of basic water charges.

vi) Water bill the bi monthly bills for the period from November to August (for 10 months) shall be prepared on the basis of actual quantity of water lifted at the prevailing rate. The bill for the months of September & October (11th & 12th month) shall be prepared by taking reviews of annual sanctioned demand and the terms and conditions of the agreement and then shall be adjusted and paid accordingly. While adjusting so it shall be considered that the 90% of the annual sanctioned demand has been lifted/used.

The Water lifted in excess upto 10% of sanctioned demand shall be charged at single rate and excess above 10% (without prior permission) will be charged at penal rate of 125 times of normal. As mentioned in the relevant clause. However the local cess shall be charged on single rate only.

12)(a) The factory shall pay to Executive Engineer water rates and local fund Cess either in advance every alternate month on the basis of anticipated quantum of water to be drawn by it from the said source during the next two month or on monthly basis within fifteen (15) days from the date of receipt of the bimonthly demands by the USER from the Executive Engineer. On default of the USER to pay the water rate of local fund cess as aforesaid vide clause 9 and 11, Government shall without prejudice to its any other rights and remedies be entitled to terminate this agreement forthwith as per clues No.9.

(b) In the case of dispute regarding quantity of water billed or rate of which the bill is prepared the Company/firm/Individual water user shall first pay the

complete amount of the bill and then claim for refund of any excess bill charged giving the reason/justification of wrong billing. However the decision of Superintending Engineer, Pune Irrigation Circle, Pune in this regards shall be final and binding on the Company.

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

14) The USER shall not discharge the effluent in any nalla or river and shall not Pollute directly or indirectly any portion of the said nalla/river even by septic tank effluents. If any water sources are plluted by any industry as indentified by Irrigation/Pollution control board/MIDC/MJP the company shall be charged with a penalty of rupees 5,000/- per such incident per day till if is rectified. The opinion of Maharashtra Pollution Control Board in respect of degree of pollution will be binding on the factory. The company shall recycle the effluent water for their use such as gardening, recreation, cooling, cleaning, washing and manufacturing process etc. so that at least 50% reduction in consumption of fresh water is achieved

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

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

17) Any notice or other document to be given to or served upon the factory may be give nor served on behalf of the Government by the Executive Engineer, Nira Right Bank Canal, Division Phaltan and any such notice or document shall be deemed to have been duly given to served upon the factory of sent by registered post to the registered factory if it is Delivered at the registered office of the factory or sent by the Registered Post to the registered address for the time being of the factory.

18) The said sum of Rs. 8,32,200/- deposited in the form of FDR/Bank Guarantee /cash by the factory with the Executive Engineer, Nira Right Bank Canal, Division Phaltan to the Government as aforesaid shall be held by the Government as security for the due observance and performance by the factory of the covenants, terms and conditions herein contained in case of default on the part of the factory to perform and observe any of the said covenants terms & conditions it shall be lawful for the Government in his absolute discretion for fit the whole of the security deposit or any part there of without prejudice nevertheless to any rights and remedies which the Government may have against the factory under these presents for such breach and the factory shall forthwith pay up the amount so forfeited and shall always maintain the original amount of deposit throughout the period

of this agreement. On the expiry of the terms of this agreement, the said security deposit Rs. 8,32,200/- or such part thereof as shall not have been appropriated as aforesaid shall be refunded to the factory.

19) All amounts due to the Government by the factory under this agreement Shall be deemed to be arrears of land revenue and may without prejudice to any other rights and remedies of the Government be recovered from the factory as arrears of land revenue.

20) On the expiry of the term of this agreement Government may renew this agreement within 90 days for such further period and on such terms and conditions as Government may at its absolute discretion deem fit.

21) The cost incurred in the execution of the incidental charges for this Agreement including stamp duty shall be borne and paid by factory.

22) Permission for extra water over and above the sanctioned quota will be granted only when the written permission for expansion etc. is produced by the factory from the Industrial Department.

23) The agreement supersedes all the all the previous agreements entered into by the USER with the Government in connection with the supply of water from Branch No. 1, Dy. No. 9, Akluj Minor of Nira Right Bank Canal.

24) The factory should submit their water indent for every rotation to the Executive Engineer, Neera Right Bank Canal, Division Phaltan on or before starting or the rotation where the source is located on canal. The factory should also furnish the exact quantity of water actually drawn in each rotation after completion of the rotation.

25) The factory will have to make an arrangement at its own for adequate Storage (Balancing Tank) of not less than two months requirement of water in case of perennial canal. Five months requirement in case of 8 monthly canal system, four months requirement in case of water source from seasonal river/nalla so as to take care of the closure period. But if unexpectedly the closure period is increased by more than the specified period stipulated herein the factory will have to make an alternative arrangement for its water requirement at its own cost.

26) If the factory commits a breach of any of the terms and conditions there of Government shall be entitled to cancel this permission and discontinue the supply of eater without payment of any compensation what so ever to the factory.

27) The Government hereby reserve to itself its right to change / amend / modify / cancel / revise any of the terms and conditions rules and regulations of water management and Maharashtra Irrigation Act and rules laid under them which shall be applicable for this agreement.

IN WITNESS WHEREOF THE Common Seal of the SAHAKAR MAHARSHI SHANKARRAO MOTITE-PATIL SAHAKAREI SAKHAR KARKHANA LTD. SHANKARNAGER- AKLUJ has been hereunto affixed Shri. R. N. Yadav Managing Director AND Shri. U. V. Siddamal the Executive Engineer, Neera

Right Bank Canal, Division Phaltan, has for and on behalf of the Governer of Mharashtra here to set his hand and affixed the seal of his office the day and year first herein above written. THE COMMON SEAL OF SAHAKAR MAHARSHI SHANKARRAO MOHITE-PATIL SAHAKARI SAKHAR KARKHANA LTD; SHANKARNAGAR-AKLUJ.

Was pursuant to a resolution of the Board of Directors of the Factory Dated the:- 13/1/2012

Managing Director
S.M.Shankarrao Mohite-Patil
S.S.K.Ltd.Shankarnagar-Akluj

Here to affixed in the presence of:-

1) Shri. S. A. Shekhar, Civil Engineer

2) Shri. D. R. Parade, Legal Officer

Two Directors of the factory who in taken thereof have here to set their respective hands in the presence of.

1) Shri. Ramchandra Dnyanoba Sawant-Patil, Vice Chairman

2) Shri. Bharat Maruti Phule, Director

SIGNED, SEALED AND DELIVERED by the Executive Engineer, Neera Right Bank Canal, Division Phaltan, for and on behalf of the Government of Maharashtra In the presence of:-

1) Shri. D. P. Sawant
Dy. Engr.

2) Shri. K. S. Bhilare
D.M.

(U.V.Siddamal)
Executive Engineer
Neera Right Bank Canal Division,
Phaltan

भारतीय गैर न्यायिक

भारत INDIA

रु. 500 FIVE HUNDRED RUPEES

पाँच सौ रुपये Rs. 500

सत्यमेव जयते

INDIA NON JUDICIAL

महाराष्ट्र MAHARASHTRA

U 473782

उपकोषागार कार्यालय,
ता. माळशिरस जि. सोलापूर
05 AUG 2016
उपकोषागार अधिकारी

Distillery Plant

AGREEMENT (For non-Irrigation water supply)

An agreement made on the 16th day of September Two thousand Sixteen between the Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd. Shankarnagar-Akluj, Taf. Malshiras, Dist. Solapur, the users such as Private Company/ Industries/Entrepreneurs/Factory (Which expression hereinafter referred to as 'the Factory shall, unless excluded by or it be repugnant to the context or meaning thereof be deemed to include its successors and assigns) The Company registered under the Maharashtra Co-operative Societies Act, 1960 and having its registered office at Shankarnagar-Akluj, Tal. Malshiras Dist. Solapur hereinafter referred to as 'the Company of the one part and the Governer of Maharashtra hereinafter referred to as 'the government' (which expression shall unless excluded by or it be repugnant to the context or meaning there of be deemed to include his successors and assigns) of the other part.

Whereas the Factory is desirous of constructing a pumping station on the company's land at shankarnagar (Akluj) Tal. Malshiras, Dist. Solapur, for drawing water from the source Branch No.1, Distributory No.9, Akluj Minor of Neera Right Bank Canal (hereinafter referred to as "the said source") for the

जोडपत्र - 2
मुद्रांक विक्री नोंदवही क्र 8802 दि 23/8/2016
दस्ताचा प्रकार करारनामा
दस्त नोंदणी करणार आहेत का? होय / नाही
मिळकतीचे वर्णन..........................
मुद्रांक विकत घेणार- सं. म. शंकरराव मोहिते पाटील स. सा. का.
दुसऱ्या पक्षकाराचे नाव-..........
मुद्रांक शुल्क रक्कम रुपये- 2000/-
हस्ते-
मुद्रांक विकत घेणाऱ्याची सही-

जावेद ए. चौधरी ला.नं.44/2002 कोड नं. 2506016
नि.रा.नं.१०००/२ अकलूज ,ता.माळशिरस
ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक खरेदी केल्यापासून ६ महिन्यात वापरणे बंधनकारक आहे

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use by the Factory's **DISTILLERY PLANT** (hereinafter referred to as "the said plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

AND whereas the Factory has applied to the Government for permission to draw 0.657 M.Cum. of Water per year from the said source.

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

AND WHEREAS UNDER the said terms and conditions the factory has to deposit with the Executive Engineer, Neera Right Bank Canal, Phaltan Division to the Government a sum of Rs. 12,48,300/- (Vide previous agreement amount Rs. 9,26,620/- & Rs. 3,21,680/- deposited vied combine cheque No. 21080 dated 23/08/2010 amounting Rs. 17,15,582/- total deposited amount for this agreement Rs. 9,26,620/- + 3,21,640/- = 12,48,300/-) as security equivalent to 2 months factory's probable annual water charges based on yearly sanctioned and as communicated in cash or in the form of fixed deposit receipt or a bank Guarantee issued by a scheduled/nationalized bank having its main/branch office situated locally for the due observance and performance by the factory of the terms and conditions of this Agreement AND WHEREAS the factory has accordingly prior to the execution of these presents deposited with the Government Rs. 12,48,300/- as security for the due observance and performance by the factory of the terms and conditions here in contained, AND WHEREAS it has been agreed that the said amount will not carry any interest if deposited in cash.

भारतीय गैर न्यायिक

भारत INDIA

रु. 500 FIVE HUNDRED RUPEES

पाँच सौ रुपये Rs. 500

सत्यमेव जयते

INDIA NON JUDICIAL

महाराष्ट्र MAHARASHTRA U 473783

उपकोषागार कार्यालय, मा.मालशिरस जि. सोलापूर
05 AUG 2015
उपकोषागार अधिकारी

DEFFINETIONS:-

QUOTE:- Quote means yearly demand sanctioned and communicated to Sahakar Mharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd, Shankarnagar (Akluj) Tal. Malshiras, Dist. Solapur, by the Executive Engineer.

CORPORATION– Corporation means the River Basin corporations like Maharashtra Krishna Valley Development Corporation (MKVDC), Godavari Marathwada Irrigation Development Corporation (GMIDC) Tapi Irrigation Development Corporation (TIDC), Kokan Irrigation Development Corporation (KIDC) & Vidarbha Irrigation Development Corporation (VIDC), Municipal Corporation's Municipalities etc,

MIDC- MIDC means Maharashtra Industrial Development Corporation

MJP- MJP means Maharashtra Jeevan Pradhikaran.

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

USER: User means water using agency like individual factories users/ industry/ Entrepreneur

जोडपत्र - 2

मुद्रांक विक्री नोंदवही क्र ८६०२ दि २३।०७।२०१६

दस्ताचा प्रकार. करारनामा

दस्त नोंदणी करणार आहेत का? होय / नाही

मिळकतीचे वर्णन.........................

मुद्रांक विकत घेणार सं. म. शंकरराव मोहिते पाटील सं. सा. का. लि. शंकरनगर

दुस-या पक्षकाराचे नाव.........

मुद्रांक शुल्क रक्कम रुपये- ९०००/-

५००/२ हस्ते-

मुद्रांक विकत घेणा-याची सही-

आनंद अ. चौधरी ल.प.44/2002 कोड नं. [illegible]

[illegible] अकलूज, ता. माळशिरस

ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक खरेदी केल्यापासून ६ महिन्यात वापरणे बंधनकारक आहे

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NOW THIS AGREEMENT WITHNESSTH AS FOLLOWS:-

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

Sr. No.	Description/Use	Quantity (Mucm) per year M.cum.
1	Total sanctioned quota	0.657
1.1	For Industry Using Potable water bottling plant	---
1.2	For other than water as raw material industrial use	0.657
1.3	For domestic use	----
1.4	For agriculture use (nursery/gardening) within the company's premises	----

and use the same for the purpose of the factory's said plant for supply to residential colonies and for agricultural use (nursery/gardening) for a term of six years commencing from the 16th September 2016 on the following terms and conditions.

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

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

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

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

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

5) Government shall be entitled to utilize water of the said canal available after meeting the reasonable requirements of the factory, as to which matter the decision of the Government shall be final and binding on the factory for such purpose as Government deem fit.

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

7) The factory shall not constructed the pick-up weir in the canal bed of the said canal unless the proposals, plans, drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an office authorized in that behalf by the Government and while granting its approval to the construction of the pick-up weir Govt. may impose such conditions as it may in its discretion think fit.

8) (a) For ascertaining the quantity of water drawn by the factory, the factory shall forthwith at its own cost and after obtaining prior approval in writing thereto of the Executive Engineer, install independent

pipelines fitted with separate electronic water measuring devices for use of water for the said independent intention (hereinafter referred to as "the said electronic measuring devices") at such places as is indicated by the Executive Engineer, All the pipeline layout showing locations of the metering equipments from the said source for different purpose shall be got licitly verified and got approved from Executive Engineer, Irrigation Department, Layout from the said source shall be got approval from the Executive Engineer. No changes in the approved layout shall be made without the prior written approval from the Executive Engineer. In the event of the factory failing to install and keep in proper working order the said electronic measuring devices for use of water for the said plant and supply to the said residential colonies as aforesaid the factory shall be liable to pay for the full sanctioned water quota as mentioned in clause 8 (d) and (I. During such period 125% of the proportionate sanctioned quantity will be charged at the prevailing rears for the said plant. The said electronic measuring devices shall always be kept under the lock and seal of the Executive Engineer and the key of such lock shall at all times remain with the Executive Engineer. The factory shall at all times, during the substance of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

(b) Readings for the water so drawn by the factory will be taken the said electronic measuring devices, on the 1st day of each month/at agreed times, jointly by the authorized representatives of the Executive Engineer and of the factory.

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

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

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

ii) If the said electronic measuring devices remain out of order for a period exceeding 30 days then the quantity of water taken to be drawn by the USER during the said period shall be deemed to be 110% of the yearly

sanctioned demand as communicated in clause II or average for the last six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order. The aforesaid provisions will also apply when the quantity of water drawn by the factory cannot be measured on account of removal of the said electronic measuring devices for repairs or the same in the opinion of the Executive Engineer not working properly.

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

9) Billing should be done on bimonthly basis. The bill for the water drawn by the factor during the previous calendar month shall be sent in duplicate/triplicate by the Executive Engineer to the office of the factory within 15 days after the end of the water consumption month. The factory shall thereafter duly pay the same by a demand draft drawn in the name of the Executive Engineer, Nira Right Bank Canal. Phaltan Division for and on behalf of the Government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the factory fails to pay the amount within this stipulated time. (15 days from the date of receipt of the bill i.e. before the end of the current month) extra charge not exceeding 10% per annum of the amount due will be charged. If the delay in payment of water charges exceeds six months. The irrigation department reserves the right to terminate the water supply with a notice of 15 days in advance.

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

11) Subject to the provisions of clause (8) here of, the factory shall pay to the Government at the time and in the manner specified in clause (12) here of water charges for the quantity of water drawn by the factory from the said canal as measured by the said electronic measuring devices at the following rates, namely:-

Here rates which are going to be applied to the factory with mention of purpose of use of water, sanctioned quota and present rate (subject to its revision) may be specified. The water lifted by the USER during the rainy season from the canal where irrigation department has not released the water, concessional rate as decided by irrigation department shall be charged.

Provided however that after the expiry of two years from the date the factory starts drawing water from the said canal if any month the quantity of water drawn by the factory is less than 90 percent of the quantity of water specified in clause (1) here of then the factory shall pay to the government water charges calculated for 90 percent of the quantity of water specified in clause (1) here or for average or the quantity of water drawn by the factory

during the period of previous three months including the month in question whichever is greater.

ii) For any unforeseen reason if the factory /agency would like to reduce/ increase the demand or water made earlier/entered in the agreement they will be required to make the revised annual demand before the commencement of the year i.e. 1st day of November. On acceptance of such revised demand the factory will be charged as per changed demand for period specified, other conditions remaining same. A supplementary agreement on hundred rupees stamp paper for the changed quantity which will from part of main agreement

ii) No penal rate will be levied for the quantity to 10% in excess of the sanctioned one. For quantity used in excess of this 10% without prior sanction a panel rate of 25% will be charged over the basic rate. The delay in payment on account of this also, will be governed by clause 9 above.

Iv)For any unforeseen reason (such as sudden closure of the units or sudden rise in production itc.) there could be abrupt fluctuations in the demand on both sides. Such cases will be decided at Govt. level only. By giving due considerations to the availability of water in the particular sub-basin and so on.

v) In addition to the payment of water charges referred to above the factory shall also pay to the Government local fund cess at the rate of 20 paise per every rupee of basic water charges.

i) Water bill the bi monthly bills for the period from November to August (for 10 months) shall be prepared on the basis of actual quantity of water lifted at the prevailing rate. The bill for the months of September & October (11th& 12th month) shall be prepared by taking reviews of annual sanctioned demand and the terms and conditions of the agreement and then shall be adjusted and paid accordingly. While adjusting so it shall be considered that the 90% of the annual sanctioned demand has been lifted/used.

The Water lifted in excess upto 10% of sanctioned demand shall be charged at single rate and excess above 10% (without prior permission) will be charged at penal rate of 125 times of normal. As mentioned in the relevant clause. However the local cess shall be charged on single rate only.

)(a) The factory shall pay to Executive Engineer water rates and local fund Cess either in advance every alternate month on the basis of anticipated quantum of water to be drawn by it from the said source during the next two month or on monthly basis within fifteen (15) days from the date of receipt of the bimonthly demands by the USER from the Executive Engineer. On default of the USER to pay the water rate of local fund cess as aforesaid vide clause 9 and 11, Government shall without prejudice to its any other rights and remedies be entitled to terminate this agreement forthwith as per clues No.9.

(b) In the case of dispute regarding quantity of water billed or rate of which the bill is prepared the Company/firm/individual water user shall first pay the

complete amount of the bill and then claim for refund of any excess bill charged giving the reason/justification of wrong billing. However the decision of Superintending Engineer, Pune Irrigation Circle, Pune in this regards shall be final and binding on the Company.

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

14) The USER shall not discharge the effluent in any nalla or river and shall not Pollute directly or indirectly any portion of the said nalla/river even by septic tank effluents. If any water sources are plluted by any industry as indentified by Irrigation/Pollution control board/MIDC/MJP the company shall be charged with a penalty of rupees 5,000/- per such incident per day till if is rectified. The opinion of Maharashtra Pollution Control Board in respect of degree of pollution will be binding on the factory. The company shall recycle the effluent water for their use such as gardening, recreation, cooling, cleaning, washing and manufacturing process etc. so that at least 50% reduction in consumption of fresh water is achieved

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

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

17) Any notice or other document to be given to or served upon the factory may be give nor served on behalf of the Government by the Executive Engineer, Nira Right Bank Canal, Division Phaltan and any such notice or document shall be deemed to have been duly given to served upon the factory of sent by registered post to the registered factory if it is Delivered at the registered office of the factory or sent by the Registered Post to the registered address for the time being of the factory.

18) The said sum of Rs. 12,48,300/- deposited in the form of FDR/Bank Guarantee /cash by the factory with the Executive Engineer, Nira Right Bank Canal, Division Phaltan to the Government as aforesaid shall be held by the Government as security for the due observance and performance by the factory of the covenants, terms and conditions herein contained in case of default on the part of the factory to perform and observe any of the said covenants terms & conditions it shall be lawful for the Government in his absolute discretion for fit the whole of the security deposit or any part there of without prejudice nevertheless to any rights and remedies which the Government may have against the factory under these presents for such breach and the factory shall forthwith pay up the amount so forfeited and shall always maintain the original amount of deposit throughout the period

of this agreement. On the expiry of the terms of this agreement, the said security deposit Rs. 12,48,300/- or such part thereof as shall not have been appropriated as aforesaid shall be refunded to the factory.

19) All amounts due to the Government by the factory under this agreement Shall be deemed to be arrears of land revenue and may without prejudice to any other rights and remedies of the Government be recovered from the factory as arrears of land revenue.

20) On the expiry of the term of this agreement Government may renew this agreement within 90 days for such further period and on such terms and conditions as Government may at its absolute discretion deem fit.

21) The cost incurred in the execution of the Incidental charges for this Agreement including stamp duty shall be borne and paid by factory.

22) Permission for extra water over and above the sanctioned quota will be granted only when the written permission for expansion etc. is produced by the factory from the Industrial Department.

23) The agreement supersedes all the all the previous agreements entered into by the USER with the Government in connection with the supply of water from Branch No. 1, Dy. No. 9, Akluj Minor of Nira Right Bank Canal.

24) The factory should submit their water indent for every rotation to the Executive Engineer, Neera Right Bank Canal, Division Phaltan on or before starting or the rotation where the source is located on canal. The factory should also furnish the exact quantity of water actually drawn in each rotation after completion of the rotation.

25) The factory will have to make an arrangement at its own for adequate Storage (Balancing Tank) of not less than two months requirement of water in case of perennial canal. Five months requirement in case of 8 monthly canal system, four months requirement in case of water source from seasonal river/nalla so as to take care of the closure period. But if unexpectedly the closure period is increased by more than the specified period stipulated herein the factory will have to make an alternative arrangement for its water requirement at its own cost.

26) If the factory commits a breach of any of the terms and conditions there of Government shall be entitled to cancel this permission and discontinue the supply of eater without payment of any compensation what so ever to the factory.

27) The Government hereby reserve to itself its right to change / amend / modify / cancel / revise any of the terms and conditions rules and regulations of water management and Maharashtra Irrigation Act and rules laid under them which shall be applicable for this agreement.

IN WITNESS WHEREOF THE Common Seal of the SAHAKAR MAHARSHI SHANKARRAO MOTITE-PATIL SAHAKARI SAKHAR KARKHANA LTD. SHANKARNAGER- AKLUJ has been hereunto affixed Shri. R. N. Yadav Managing Director AND Shri. U. V. Siddamal the Executive Engineer, Neera

Right Bank Canal, Division Phaltan, has for and on behalf of the Governer of Mharashtra here to set his hand and affixed the seal of his office the day and year first herein above written. THE COMMON SEAL OF SAHAKAR MAHARSHI SHANKARRAO MOHITE-PATIL SAHAKARI SAKHAR KARKHANA LTD; SHANKARNAGAR-AKLUJ.

Was pursuant to a resolution of the
Board of Directors of the Factory
Dated the:- 13/1/2012

Managing Director
S.M.Shankarrao Mohite-Patil
S.S.K.Ltd.Shankarnagar-Akluj

Here to affixed in the presence of:-

1) Shri. S. A. Shekhar, Civil Engineer

2) Shri. D. R. Parade, Legal Officer

Two Directors of the factory who in taken thereof have here to set their respective hands in the presence of.

1) Shri. Ramchandra Dnyanoba Sawant-Patil, Vice Chairman

2) Shri. Bharat Maruti Phule, Director

SIGNED, SEALED AND DELIVERED by the Executive Engineer, Neera Right Bank Canal, Division Phaltan, for and on behalf of the Government of Maharashtra
In the presence of:-

(U.V.Siddamal)
Executive Engineer
Neera Right Bank Canal Division,
Phaltan

1) Shri. D. P. Sawant
Sect Engr.

2) Shri. K. S. Bhilare
D.E.

महाराष्ट्र MAHARASHTRA ◐ 2015 ◐ X 481202

उपकोषागार कार्यालय,
ता.माळशिरस जि.सोलापूर
18 AUG 2016
उपकोषागार अधिकारी

Acetic Acid Plant

AGREEMENT (For non-irrigation water supply)

An agreement made on the 16th day of September Two thousand Sixteen between the Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd. Shankarnagar-Akluj, Tal. Malshiras, Dist. Solapur, the users such as Private Company/ Industries/Entrepreneurs/Factory (Which expression hereinafter referred to as 'the Factory shall, unless excluded by or it be repugnant to the context or meaning thereof be deemed to include its successors and assigns) The Company registered under the Maharashtra Co-operative Societies Act, 1960 and having its registered office at Shankarnagar-Akluj, Tal. Malshiras Dist. Solapur hereinafter referred to as 'the Company of the one part and the Governer of Maharashtra hereinafter referred to as 'the government' (which expression shall unless excluded by or it be repugnant to the context or meaning there of be deemed to include his successors and assigns) of the other part.

Whereas the Factory is desirous of constructing a pumping station on the company's land at shankarnagar (Akluj) Tal. Malshiras, Dist. Solapur, for drawing water from the source Branch No.1, Distributory No.9, Akluj Minor of Neera Right Bank Canal (hereinafter referred to as "the said source") for the

जोडपत्र - 2

मुद्रांक विक्री नोंदवही क्र.

दस्ताचा प्रकार

दस्त नोंदणी करणार आहेत का? होय / नाही

मिळकतीचे वर्णन..

मुद्रांक विकत घेणार

दुसऱ्या पक्षकाराचे नांवे

मुद्रांक शुल्क रक्कम रुपये

हस्ते-

मुद्रांक विकत घेणा-याची सही-

परवाना क्र. 44/2002 कोड नं. 2506016

ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक खरेदी केल्यापासून ६ महिन्यात वापरणे बंधनकारक आहे

--2--

use by the Factory's ACETIC ACID PLANT (hereinafter referred to as "the said plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

AND whereas the Factory has applied to the Government for permission to draw 0.219M.Cum. of Water per year from the said source.

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

AND WHEREAS UNDER the said terms and conditions the factory has to deposit with the Executive Engineer, Neera Right Bank Canal, Phaltan Division to the Government a sum of Rs. 4,16,100/- (Vide previous agreement amount Rs. 3,08,872/- & Rs. 1,07,228/- deposited vied combine cheque No. 21080 dated 23/08/2010 amounting Rs. 17,15,582/- total deposited amount for this agreement Rs. 3,08,872/- + 1,07,228/- = 4,16,100/-) as security equivalent to 2 months factory's probable annual water charges based on yearly sanctioned and as communicated in cash or in the form of fixed deposit receipt or a bank Guarantee issued by a scheduled/nationalized bank having its main/branch office situated locally for the due observance and performance by the factory of the terms and conditions of this Agreement AND WHEREAS the factory has accordingly prior to the execution of these presents deposited with the Government Rs. 4,16,100/- as security for the due observance and performance by the factory of the terms and conditions here in contained, AND WHEREAS it has been agreed that the said amount will not carry any interest if deposited in cash.

महाराष्ट्र MAHARASHTRA ◐ 2015 ◐ X 481203

उपकोषागार कार्यालय,
ता. मालशिरस जि.सोलापूर
18 AUG 2016
उपकोषागार अधिकारी

DEFFINETIONS:-

QUOTE:- Quote means yearly demand sanctioned and communicated to Sahakar Mharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd, Shankarnagar (Akluj) Tal. Malshiras, Dist. Solapur, by the Executive Engineer.

CORPORATION– Corporation means the River Basin corporations like Maharashtra Krishna Valley Development Corporation (MKVDC), Godavari Marathwada Irrigation Development Corporation (GMIDC) Tapi Irrigation Development Corporation (TIDC), Kokan Irrigation Development Corporation (KIDC) & Vidarbha Irrigation Development Corporation (VIDC), Municipal Corporation's Municipalities etc,

MIDC- MIDC means Maharashtra Industrial Development Corporation

MJP- MJP means Maharashtra Jeevan Pradhikaran.

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

USER: User means water using agency like individual factories users/ industry/ Entrepreneur

जोडपत्र - 2

मुद्रांक विक्री नोंदवही क्र. .... दि ....

दस्ताचा प्रकार ....

दस्त नोंदणी करणार आहेत का? होय / नाही

मिळकतीचे वर्णन ....

मुद्रांक विकत घेणार ....

दुसऱ्या पक्षकाराचे नांव ....

मुद्रांक शुल्क रक्कम रुपये .... हस्ते-

मुद्रांक विकत घेणाऱ्याची सही

[illegible] चौधरी ला.नं.44/2002 कोड नं. 2506016

मि.स.नं.१०००/२ अकलूज ,ता.माळशिरस

ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक खरेदी केल्यापासून ६ महिन्यात वापरणे बंधनकारक आहे.

NOW THIS AGREEMENT WITHNESSTH AS FOLLOWS:-

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

Sr. No.	Description/Use	Quantity (Mucm) per year M.cum.
1	Total sanctioned quota	0.219
1.1	For Industry Using Potable water bottling plant	----
1.2	For other than water as raw material industrial use	0.219
1.3	For domestic use	----
1.4	For agriculture use (nursery/gardening) within the company's premises	----

and use the same for the purpose of the factory's said plant for supply to residential colonies and for agricultural use (nursery/gardening) for a term of six years commencing from the 16th September 2016 on the following terms and conditions.

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

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

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

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

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

5) Government shall be entitled to utilize water of the said canal available after meeting the reasonable requirements of the factory, as to which matter the decision of the Government shall be final and binding on the factory for such purpose as Government deem fit.

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

7) The factory shall not constructed the pick-up weir in the canal bed of the said canal unless the proposals, plans, drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an office authorized in that behalf by the Government and while granting its approval to the construction of the pick-up weir Govt. may impose such conditions as it may in its discretion think fit.

8) (a) For ascertaining the quantity of water drawn by the factory, the factory shall forthwith at its own cost and after obtaining prior approval in writing thereto of the Executive Engineer, Install independent

pipelines fitted with separate electronic water measuring devices for use of water for the said independent intention (hereinafter referred to as "the said electronic measuring devices") at such places as is indicated by the Executive Engineer, All the pipeline layout showing locations of the metering equipments from the said source for different purpose shall be got licitly verified and got approved from Executive Engineer, Irrigation Department, Layout from the said source shall be got approval from the Executive Engineer. No changes in the approved layout shall be made without the prior written approval from the Executive Engineer. In the event of the factory failing to install and keep in proper working order the said electronic measuring devices for use of water for the said plant and supply to the said residential colonies as aforesaid the factory shall be liable to pay for the full sanctioned water quota as mentioned in clause 8 (d) and II. During such period 125% of the proportionate sanctioned quantity will be charged at the prevailing rears for the said plant. The said electronic measuring devices shall always be kept under the lock and seal of the Executive Engineer and the key of such lock shall at all times remain with the Executive Engineer. The factory shall at all times, during the substance of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

(b) Readings for the water so drawn by the factory will be taken the said electronic measuring devices, on the 1st day of each month/at agreed times, jointly by the authorized representatives of the Executive Engineer and of the factory.

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

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

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

ii) If the said electronic measuring devices remain out of order for a period exceeding 30 days then the quantity of water taken to be drawn by the USER during the said period shall be deemed to be 110% of the yearly

sanctioned demand as communicated in clause II or average for the last six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order. The aforesaid provisions will also apply when the quantity of water drawn by the factory cannot be measured on account of removal of the said electronic measuring devices for repairs or the same in the opinion of the Executive Engineer not working properly.

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

9) Billing should be done on bimonthly basis. The bill for the water drawn by the factor during the previous calendar month shall be sent in duplicate/triplicate by the Executive Engineer to the office of the factory within 15 days after the end of the water consumption month. The factory shall thereafter duly pay the same by a demand draft drawn in the name of the Executive Engineer, Nira Right Bank Canal. Phaltan Division for and on behalf of the Government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the factory fails to pay the amount within this stipulated time. (15 days from the date of receipt of the bill i.e. before the end of the current month) extra charge not exceeding 10% per annum of the amount due will be charged. If the delay in payment of water charges exceeds six months. The irrigation department reserves the right to terminate the water supply with a notice of 15 days in advance.

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

11) Subject to the provisions of clause (8) here of, the factory shall pay to the Government at the time and in the manner specified in clause (12) here of water charges for the quantity of water drawn by the factory from the said canal as measured by the said electronic measuring devices at the following rates, namely:-

Here rates which are going to be applied to the factory with mention of purpose of use of water, sanctioned quota and present rate (subject to its revision) may be specified. The water lifted by the USER during the rainy season from the canal where irrigation department has not released the water, concessional rate as decided by irrigation department shall be charged.

i) Provided however that after the expiry of two years from the date the factory starts drawing water from the said canal if any month the quantity of water drawn by the factory is less than 90 percent of the quantity of water specified in clause (1) here of then the factory shall pay to the government water charges calculated for 90 percent of the quantity of water specified in clause (1) here or for average or the quantity of water drawn by the factory

during the period of previous three months including the month in question whichever is greater.

ii) For any unforeseen reason if the factory /agency would like to reduce/ increase the demand or water made earlier/entered in the agreement they will be required to make the revised annual demand before the commencement of the year i.e. 1st day of November. On acceptance of such revised demand the factory will be charged as per changed demand for period specified, other conditions remaining same. A supplementary agreement on hundred rupees stamp paper for the changed quantity which will from part of main agreement

iii) No penal rate will be levied for the quantity to 10% in excess of the sanctioned one. For quantity used in excess of this 10% without prior sanction a panel rate of 25% will be charged over the basic rate. The delay in payment on account of this also, will be governed by clause 9 above.

iv)For any unforeseen reason (such as sudden closure of the units or sudden rise in production itc.) there could be abrupt fluctuations in the demand on both sides. Such cases will be decided at Govt. level only. By giving due considerations to the availability of water in the particular sub-basin and so on.

v) In addition to the payment of water charges referred to above the factory shall also pay to the Government local fund cess at the rate of 20 paise per every rupee of basic water charges.

vi) Water bill the bi monthly bills for the period from November to August (for 10 months) shall be prepared on the basis of actual quantity of water lifted at the prevailing rate. The bill for the months of September & October (11th & 12th month) shall be prepared by taking reviews of annual sanctioned demand and the terms and conditions of the agreement and then shall be adjusted and paid accordingly. While adjusting so it shall be considered that the 90% of the annual sanctioned demand has been lifted/used.

The Water lifted in excess upto 10% of sanctioned demand shall be charged at single rate and excess above 10% (without prior permission) will be charged at penal rate of 125 times of normal. As mentioned in the relevant clause. However the local cess shall be charged on single rate only.

12)(a) The factory shall pay to Executive Engineer water rates and local fund Cess either in advance every alternate month on the basis of anticipated quantum of water to be drawn by it from the said source during the next two month or on monthly basis within fifteen (15) days from the date of receipt of the bimonthly demands by the USER from the Executive Engineer. On default of the USER to pay the water rate of local fund cess as aforesaid vide clause 9 and 11, Government shall without prejudice to its any other rights and remedies be entitled to terminate this agreement forthwith as per clues No.9.

(b) In the case of dispute regarding quantity of water billed or rate of which the bill is prepared the Company/firm/Individual water user shall first pay the

complete amount of the bill and then claim for refund of any excess bill charged giving the reason/justification of wrong billing. However the decision of Superintending Engineer, Pune Irrigation Circle, Pune in this regards shall be final and binding on the Company.

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

14) The USER shall not discharge the effluent in any nalla or river and shall not Pollute directly or indirectly any portion of the said nalla/river even by septic tank effluents. If any water sources are pilluted by any industry as indentified by Irrigation/Pollution control board/MIDC/MJP the company shall be charged with a penalty of rupees 5,000/- per such incident per day till if is rectified. The opinion of Maharashtra Pollution Control Board in respect of degree of pollution will be binding on the factory. The company shall recycle the effluent water for their use such as gardening, recreation, cooling, cleaning, washing and manufacturing process etc. so that at least 50% reduction in consumption of fresh water is achieved

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

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

17) Any notice or other document to be given to or served upon the factory may be give nor served on behalf of the Government by the Executive Engineer, Nira Right Bank Canal, Division Phaltan and any such notice or document shall be deemed to have been duly given to served upon the factory of sent by registered post to the registered factory if it is Delivered at the registered office of the factory or sent by the Registered Post to the registered address for the time being of the factory.

18) The said sum of Rs. 4,16,100/- deposited in the form of FDR/Bank Guarantee /cash by the factory with the Executive Engineer, Nira Right Bank Canal, Division Phaltan to the Government as aforesaid shall be held by the Government as security for the due observance and performance by the factory of the covenants, terms and conditions herein contained in case of default on the part of the factory to perform and observe any of the said covenants terms & conditions it shall be lawful for the Government in his absolute discretion for fit the whole of the security deposit or any part there of without prejudice nevertheless to any rights and remedies which the Government may have against the factory under these presents for such breach and the factory shall forthwith pay up the amount so forfeited and shall always maintain the original amount of deposit throughout the period

of this agreement. On the expiry of the terms of this agreement, the said security deposit Rs. 4,16,100/- or such part thereof as shall not have been appropriated as aforesaid shall be refunded to the factory.

19) All amounts due to the Government by the factory under this agreement Shall be deemed to be arrears of land revenue and may without prejudice to any other rights and remedies of the Government be recovered from the factory as arrears of land revenue.

20) On the expiry of the term of this agreement Government may renew this agreement within 90 days for such further period and on such terms and conditions as Government may at its absolute discretion deem fit.

21) The cost incurred in the execution of the incidental charges for this Agreement including stamp duty shall be borne and paid by factory.

22) Permission for extra water over and above the sanctioned quota will be granted only when the written permission for expansion etc. is produced by the factory from the Industrial Department.

23) The agreement supersedes all the all the previous agreements entered into by the USER with the Government in connection with the supply of water from Branch No. 1, Dy. No. 9, Akluj Minor of Nira Right Bank Canal.

24) The factory should submit their water indent for every rotation to the Executive Engineer, Neera Right Bank Canal, Division Phaltan on or before starting or the rotation where the source is located on canal. The factory should also furnish the exact quantity of water actually drawn in each rotation after completion of the rotation.

25) The factory will have to make an arrangement at its own for adequate Storage (Balancing Tank) of not less than two months requirement of water in case of perennial canal. Five months requirement in case of 8 monthly canal system, four months requirement in case of water source from seasonal river/nalla so as to take care of the closure period. But if unexpectedly the closure period is increased by more than the specified period stipulated herein the factory will have to make an alternative arrangement for its water requirement at its own cost.

26) If the factory commits a breach of any of the terms and conditions there of Government shall be entitled to cancel this permission and discontinue the supply of eater without payment of any compensation what so ever to the factory.

27) The Government hereby reserve to itself its right to change / amend / modify / cancel / revise any of the terms and conditions rules and regulations of water management and Maharashtra Irrigation Act and rules laid under them which shall be applicable for this agreement.

IN WITNESS WHEREOF THE Common Seal of the SAHAKAR MAHARSHI SHANKARRAO MOTITE-PATIL SAHAKARE! SAKHAR KARKHANA LTD. SHANKARNAGER- AKLUJ has been hereunto affixed Shri. R. N. Yadav Managing Director AND Shri. U. V. Siddamal the Executive Engineer, Neera

Right Bank Canal, Division Phaltan, has for and on behalf of the Governer of Mharashtra here to set his hand and affixed the seal of his office the day and year first herein above written. THE COMMON SEAL OF SAHAKAR MAHARSHI SHANKARRAO MOHITE-PATIL SAHAKARI SAKHAR KARKHANA LTD; SHANKARNAGAR-AKLUJ.

Was pursuant to a resolution of the Board of Directors of the Factory Dated the:- 13/1/2012

Managing Director
S.M.Shankarrao Mohite-Patil
S.S.K.Ltd.Shankarnagar-Akluj

Here to affixed in the presence of:-

1) Shri. S. A. Shekhar, Civil Engineer

2) Shri. D. R. Parade, Legal Officer

Two Directors of the factory who in taken thereof have here to set their respective hands in the presence of.

1) Shri. Ramchandra Dnyanoba Sawant-Patil, Vice Chairman

2) Shri. Bharat Maruti Phule, Director

SIGNED, SEALED AND DELIVERED by the Executive Engineer, Neera Right Bank Canal, Division Phaltan, for and on behalf of the Government of Maharashtra In the presence of:-

(U.V.Siddamal)
Executive Engineer
Neera Right Bank Canal Division,
Phaltan

1) Shri. D. P. Sawant

2) Shri. K. S. Bhilare

Latest valid CTO Copies

Existing Distillery CTO Copy

MAHARASHTRA POLLUTION CONTROL BOARD

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

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

RED/L.S.I
No:- Format1.0/CAC/UAN No.MPCB-CONSENT-0000074008/CR - 1911000742 Date: 18/11/2019

To,
Sahakar Maharashi Shankarrao Mohite-Patil SSK Ltd
70,At-Shanakarnagar Po-Yeshwantnagar
Malshiras,Solapur-Solapur

Sub: **Renewal of Consent of 60 KLPD Distillery Unit (Molasses Base), under RED category.**

Ref:
1. Renewal of Consent accorded by Board vide No. BO/CAC-CELL/UAN No. 0000028756/R/CAC-1803001452 dtd 28.03.2018
2. Minutes of CAC Meeting dtd. 13.09.2019

Your application No.MPCB-CONSENT-0000074008 Dated 10.06.2019

For: Consent to Renewal for 60 KLPD Distillery Unit (Molasses Base) under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent to renewal is granted for a period up to 31/08/2024**
2. **The capital investment of the project is Rs.38.8393 Crs. (As per C.A Certificate submitted by industry)**
3. **Consent is valid for the manufacture of:**

Sr No	Product/Co-Product Name	Maximum Quantity	UOM
1	Rectified Alcohol OR	1800.00	MT/M
2	Silent Spirit	900.00	KL/M
3	Anhydrous Alcohol	960.00	KL/M
4	Fusel Oil	18.00	KL/M

(Distillery capacity shall not exceed 60 KLPD)

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

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	510	As per Schedule -I	(After volume reduction - 286 CMD)- Bio-digester Followed by MEE and Bio-composting.
2.	Domestic effluent	16	As per Schedule - I	On land for irrigation.

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

Stack No.	Description of stack / source	APCS	Number of Stack	Standards to be achieved
1	Steam taken from existing Sugar unit.	80	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Yeast Sludge	6.0	MT/Day	Biocomposting	Used as Manure
2	Distillation Residues	5.0	MT/A	Biocomposting	Used as Manure

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

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

8 Industry shall install online continuous monitoring system as per CPCB guidelines & data to be transmitted directly from Data Logger to Board server .

9 The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.

10 This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.

11 This consent is issued pursuant to the decision of the 6th Consent Committee Meeting held on 13.09.2019.

12 The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent.

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.No.	Date	Transaction Type
1	375000.00	5451884	10/06/2019	NEFT

Copy to:

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

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1.Conditions for Trade effluent:

A] You have provided comprehensive treatment i.e Effluent treatment plant with the design capacity of 550 CMD for trade effluent 510 CMD including Bio-digester, followed by MEE for volume reduction and Bio-composting on 14 acers land for achieving zero discharge. In no any spent wash shall discharge outside the factory premises/ on land / into stream directly or indirectly.

B] Zero liquid discharge shall be ensured and no waste/treated water shall be discharged outside the premises. The non-process effluents, RO permeate, MEE condensate etc. shall be suitably treated and reused in the process.

2.Conditions for Sewage/ Domestic effluent:

i. You have provided septic tank and soak pit (for sewage below 20 CMD).

ii. The industry shall operate sewage treatment system to treat the sewage/ domestic effluent so as to achieve the standards as prescribed by the board/under EP Act, 1986 and rules made thereunder from time to time whichever is stringent.

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

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

3. Conditions for Aerobic composting:

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

ii. Applicant shall ensure availability of adequate filler material such as press mud, bagasses, agricultural, biological waste as required for effective composting system.

iii. Composted material shall meet the following specifications—

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

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

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

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

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

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

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

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

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

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

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

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	100.00
2.	Domestic purpose	20.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	550.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0

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

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

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

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

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM
1	Steam taken from existing Sugar unit.	ESP	82	Bagasse	542.5 MT/Day

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

Particulate matter	Not to exceed	150 mg/Nm3

6. Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
7. The industry shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules, 1986 and connected to MPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
8. The industry shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office MPCB.
9. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

SCHEDULE-III
Details of Bank Guarantees:

Sr. No.	Consent(C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	500000	15 days	Towards compliance of Consent conditions & O & M of pollution control system.	31.08.2024	31.12.2024

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

BG Forfeiture History

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

BG Return details

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

SCHEDULE-IV
General Conditions:

1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
   a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
   b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
   c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
   d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
   e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
   f) D.G. Set shall be operated only in case of power failure.
   g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
   h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
7. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. The PP shall provide personal protection equipment as per norms of Factory Act
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.

17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.
23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
25. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

Existing Sugar & Co-gen Plant CTO Copy

MAHARASHTRA POLLUTION CONTROL BOARD

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

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

No:- Format1.0/CAC/UAN No.MPCB-CONSENT-0000114863/CR - 2110000710

Date: 14/10/2021

To,
M/S. Sahakar Maharashi Shankarrao Mohite-Patil SSK Ltd.,
Gut No. 28 & 29,At-Shanakar nagar Po-Yeshwantnagar
Tal.-Malshiras,Dist.-Solapur.

Your Service is Our Duty

Sub: **Renewal of Consent for 7500 TCD Sugar unit and 33 MW Co-generation unit.**

Ref:
1. **Consent to Operate granted by the Board vide No.CAC/UAN NO. MPCBCONSENT-0000072770/CR-2001000557 dtd. 07.01.2020.**
2. **Minutes of CAC Meeting dtd. 15.09.2021& 24.09.2021.**

Your application No.MPCB-CONSENT-0000114863 Dated 01.06.2021

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

1. **The Consent to Renewal is granted upto: 31.07.2024**
2. **The capital investment of the industry is Rs.426.4148 Crs. (As per C.A Certificate submitted by industry).**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
1	Sugar	24800	MT/M
2	Bagasse	65250	MT/M
3	Pressmud	8600	MT/M
4	Molasses	7960	MT/M
5	Electric Power	33	MW

(The cane crushing capcity of Sugar Industry shall not exceed 7500 TCD.)

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

Sr No	Description	Permitted in CMD	Standards to	Disposal
1.	Trade effluent	420	As per Schedule -I	180 CMD 100% recycle & remaining 240 CMD on land for irrigation.

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	2566859.00	MPCB-DR-6235	01/06/2021	RTGS

-

Copy to:

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

H] Industry to make necessary arrangement to cover the effluent collection system and to avoid the ingress of Bagasse and other material.

I] The unit shall operate ETP even after completion of the crushing season so that any effluent generated during washing & maintenance activity is to be discharged after proper treatment.

J] The unit shall optimize water use in industrial process & maintain records.

2) A] **As per your application, you have provided septic tank and soak pit for the treatment of 160.00 CMD sewage.**

B] **The applicant shall operate sewage treatment system to treat sewage so as to achieve the following standards/ prescribed under EP Act 1986 and rules made under time to time, whichever is stringent.**

1	Suspended Solids	Not to exceed	100 mg/l
2	BOD 3 days (27°C)	Not to exceed	100 mg/l

C] **The treated sewage shall be 100% reused/recycled for gardening purpose within premise. In no any case, sewage shall find its way outside Company's premises.**

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 at least 15 (fifteen) days in advance by registered post under intimation to the Sub-Regional officer and Regional officer of the Board under whose jurisdiction the factory is situated.

(v) The storage tanks shall be kept in good conditions all the year round with adequate maintenance. The tanks size and capacity per cm, height, total capacity in tonnes 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?.

2 The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Total Particulate matter	Not to exceed	150 mg/Nm3

3 The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.

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

5 Industry should not use auxiliary fuel more than 15 % (as per amendment in EIA Notification 2009, power plant upto 15 MW based on Bio-mass and using auxiliary fuel as coal upto 15% are exempt.) as co-gen capacity is below 15 MW.

3) The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.

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

SCHEDULE-III
Details of Bank Guarantees:

Sr. No.	Consent(C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	2500000	15 days/ To be extended	O & M of PCs & complaince of consent conditions	30.07.2024	30.11.2024

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
1						

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 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.

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 manufacturer.

e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.

f) D.G. Set shall be operated only in case of power failure.

g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.

18 The industry should not cause any nuisance in surrounding area.

19 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.

20 The applicant shall maintain good housekeeping.

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 equipment 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 achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

For and on behalf of the
Maharashtra Pollution Control Board.

(Ashok Shingare IAS),
Member Secretary

Existing Acetic Acid Plant CTO Copy

MAHARASHTRA POLLUTION CONTROL BOARD

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

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

RED/L.S.I ()
No:- Format1.0/CAC/UAN No.0000092151/CR - 2011000277

Date: 05/11/2020

To,
Sahakar Maharashi Shankarrao Mohite-Patil SSK Ltd Acetic Acid,Bio-fertilizer and Ethanol Unit
73,At-Shankarnagar Po-Yeshwantnagar
Malshiras,Solapur.

Sub: **Renewal of Consent for Acetic Acid Plant, Bio-fertilizer plant and Ethanol plant, Under RED category.**

Ref:
1. Renewal of consent granted by the Board vide no. BO/CAC-CELL/PN-256695-15 and PN-26118-15/R/CAC-6454 dtd. 16.05.2016.
2. Minutes of CAC Meeting dtd. 14.08.2020.

Your application No.MPCB-CONSENT-0000092151 Dated 07.05.2020

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

1. **The consent to renewal is granted for a period up to 31/07/2025**
2. **The capital investment of the project is Rs.11.0056 Crs. (As per C.A Certificate submitted by industry (Sugar unit- 413.81 Cr.))**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Acetic Acid	900	MT/M
2	Acetaldehyde	720	MT/M
3	Anhydrous Alcohol (Rthanol) by using RS only.	1200	MT/M
4	Phosphate Solubilizing Bacteria	20	MT/M
5	Azotobacter	10	MT/M

(Industry shall operate either Acetic Acid Plant OR Ethanol plant at a time)

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

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	85.1	As per Schedule-I	On land for gardening
2.	Domestic effluent	5.1	As per Schedule-I	On land for gardening

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

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	00	NA	0	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	NA	00	--NA--	NA	NA

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

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	50	Kg/Annum	Recycle	Sale to authorizd recycler

8 The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.

9 This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.

10 This consent is issued pursuant to the decision of the Consent Appraisal Committee Meeting held on 14.08.2020.

11 To improve water economy, PP shall submit detail water budget including cooling effluent generation along with proposal towards recycling of treated effluent to the maximum extent including excess condensate into the process to reduce fresh water consumption, within a period of 3 months with activity bar chart. (With Sugar & Distillery unit).

12 The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent. (Operate/Renewal)

For and on behalf of the
Maharashtra Pollution Control Board.

(Ashok A.Shingare IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	250000.00	MPCB-DR-0535	17/06/2020	RTGS

Copy to:

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

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A] You have provided separate effluent treatment plant for acetic acid plant. Treated effluent of Ethanol unit is 100% recycled in process.

   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*	*Limiting concentration not to exceed in mg/l, except for pH*
Compulsory parameters		
(1)	pH	5.5 to 8.5
(2)	Oil & Grease	10 mg/l
(3)	BOD (3 days 27°C)	30 mg/l
(4)	Total Suspended solids	100
(5)	Total Dissolved solids	2100 mg/l

   C] The Industry shall ensure connectivity online monitoring system to the MPCB server including separate energy meter for pollution control system.

   D] The treated effluent shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, effluent shall find its way for gardening / outside factory premises.

2. A] As per your application, you have provided Septic Tank followed by Soak pit for the treatment of 5.1 CMD of sewage.

   B] The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, sewage shall find its way for gardening / outside factory premises.

3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & 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.

4. 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.

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

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	300.00
2.	Domestic purpose	5.30
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	100.20
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0

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.

SCHEDULE-II
Terms & conditions for compliance of Air Pollution Control:

Not Applicable

SCHEDULE-III
Details of Bank Guarantees:

Sr. No.	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	500000	15 days/extended	Towards compliance of Consent conditions & O & M of pollution control system.	31.07.2025	31.12.2025.

BG Forfeiture History

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

BG Return details

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

SCHEDULE-IV
General Conditions:

1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
   a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
   b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
   c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
   d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
   e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
   f) D.G. Set shall be operated only in case of power failure.
   g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
   h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
7. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.

11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. The PP shall provide personal protection equipment as per norms of Factory Act
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.
23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.

25. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

Existing EC for Sugar expansion from 7500 TCD to 10,000 TCD and 33 MW Co-generation Plant

1st EC of Sugar and Co-gen unit

भारत सरकार
पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS

BY SPEED POST
E-mail : sansom_2859@yahoo.co.in
Telefax : 011-24360488

No. J-11011/297/2007 - IA II (I)

Date: 4th March 2008

To,

M/s S.M.S.M.P.S.S.K. Ltd, Akluj
Yeshwantnagar, Malshiras
Sholapur
Maharashtra

Subject: **Expansion of Sugar Factory from 6000 TCD to 7500 TCD and Setting up 33 MW Bagasse based Co- Generation Unit at Sholapur, Maharashtra by M/s Sahakara Maharshi Shankarrao Mohite- Patil Sahakari Sakhar, Kharkhana Ltd. - Environmental Clearance Regarding.**

Sir,

Kindly refer to your application No. Distillery /10198/2006-2007 dated 9th March 2007 regarding the subject mentioned above.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that the proposal is to expand the sugar crushing capacity from 6000 TCD to 7500 TCD and install 33 MW Bagasse based Cogeneration Power Plant (CPP). The existing 23.0 ha of land which is sufficient for the expansion and existing permission to draw 1700 m^3 of water from Nira River canal shall be adequate for the expansion project. The effluent generation shall be less than 100 litres per tonne of cane crushed which will be treated in existing ETP based on anaerobic filter followed by two stage aeration. ESP shall be installed to limit air emissions below 150 mg/Nm^3 from the Boiler for CPP and the Stack height shall be 80 meters. The Sugar unit shall operate for 180 days and during off season for 135 days, only 50 TPH Boiler shall be in operation. The entire requirement of steam and power for all its ancillary Units shall be supplied from the Co-generation Unit. The fly ash generation shall be 825 MT M, which shall be used in Composting and also sold to Brick manufacturers and to farmers as manure. The Bagasse requirement to operate the Co-generation Unit in the Off-Season is estimated as 10,000 MT in addition to Bagasse saved during the season, which shall be purchased from the nearby Sugar Units. The cost of the project is Rs. 121.34 Crores for Co-generation Unit and Rs. 49.87 Crores for Sugar expansion.

3. The project activity is listed at 5 (j) and is of '8' Category however was considered at Central Level in the absence of SEIAA/SEAC for the State of Maharashtra. The Preparation of EIA/EMP and Public Hearing has been dispensed with as per Para 7(ii) of the EIA Notification, 2006 as project was considered as B2 Category.

Contd.

4. Based on the information submitted by you, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006 subject to the compliance of the following conditions:

A. SPECIFIC CONDITIONS:

i. The unit shall operate for 180 days only. During the off season, only Boiler of CPP shall be in operation for 135 days.

ii. For the control of air emission from the Co-generation Power Plant, ESP shall be installed and a stack of about 80 m for the boiler shall be provided. SPM emission will be less than 100 mg/nm3. The exhaust steam from the boilers shall be used for the process.

iii. For minimizing the escape of SO_2 from the Sulphitation process, cane juice shall be used as scrubber media which shall be reused in the process.

iv. Water requirement shall not exceed the existing permission of 1700 m^3 from Nira River canal. Permission from the Competent Authority shall be submitted to the Ministry. The process and domestic effluents shall be less than 100 litres per tonne of cane crushed which shall be treated in the existing ETP based on anaerobic filter followed by two stage aeration. The treated effluent shall either be recycled in the process or shall be used for irrigation, after meeting the prescribed standard. No effluent shall be discharged outside the factory premises and zero discharge shall be strictly followed.

v. Molasses shall be stored in MS tanks or in Pucca Lagoons. The lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation, storage shall not exceed 15 days capacity.

vi. The additional requirement of 10,000 MT Bagasse to operate the Co-generation Unit in the Off-Season shall be purchased from the nearby Sugar Units. Bagasse shall be reused as fuel in the boiler. Molasses shall be sent to the distillery unit. Filter cake shall be utilized in Bio-composting in the Distillery. 825 MTM of fly ash shall be used in composting and sold to Brick manufacturers. Sludge from the scrubber shall be dried and shall be disposed off as per the Autherisation from the SPCB. ETP Sludge shall be used as fertilizer by the farmers. Used batteries and Waste Lubricating Oil shall be sold to authorized recyclers.

vii. 33 % of the land area shall be developed as green belt all around the plant. The green belt shall be as per the CPCB guidelines in consultation with the local DFO.

Contd.

B. GENERAL CONDITIONS:

(i) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.

(ii) Six monthly monitoring of ambient air for criteria pollutants shall be carried out in and around the plant.

(iii) The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.

(iv) Adequate numbers of ground water quality monitoring stations shall be set up in and around the plant. These monitoring stations shall be provided with piezometers. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry.

(v) CREP Guidelines for the Sugar Industries will be followed by the unit. The capacity of Lagoon will be as per the CPCB Guidelines.

(vi) Company shall adopt rainwater-harvesting measures to recharge the ground water.

(vii) Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health center shall be strengthened and the medical records of each employee shall be maintained separately.

(viii) The project authorities must strictly adhere to the stipulations made by the concerned State Pollution Control Board and the State Government.

(ix) Ambient Air Quality Monitoring Stations shall be set up in consultation with the State Pollution Control Board in the down wind direction as well as where maximum ground level concentration of SPM, SO_2, NO_x and RPM are anticipated. RPM will also be monitored regularly.

(x) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

Contd.

(xi) The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA /EMP report.

(xii) A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and [illegible]

(xiii) The project authorities shall provide adequate funds as capital cost for the environment protection measures and to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government shall be kept. Also, the implementation schedule for all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose.

(xiv) The implementation of the project vis-à-vis environmental action plans shall be [illegible] Control Board/Central Pollution Control Board. A six monthly compliance status report along with the monitored data shall be submitted to the monitoring agencies and shall be posted on the Website of the Proponent.

(xv) The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.

(xvi) The Project Authorities shall inform the Ministry and its concerned Regional Office about date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.

5. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

6. The Ministry reserves the right to stipulate additional conditions if found necessary. The company shall implement these conditions in a time bound manner.

Contd.

7. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

(Sanchita Jindal)
Additional Director

Copy to:

1. The Secretary, Department of Environment and Forests, Govt. of Maharashtra, Mumbai - 400 001, Maharashtra.
2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Link Road No. 3, E - 5, Arera Colony, Bhopal - 462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Shri Chatrapati Shivaji Maharaj Municipal Market Building, 4th Floor, Mata Ramabai Ambedaker Road, Mumbai - 400 001, Maharashtra.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.

(Sanchita Jindal)
Additional Director

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

सत्यमेव जयते

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date:May 7, 2019

To,
Sahakar Maharshi Shankarrao Mohite Patil Sahakari Sakhar Karkhana Limited, Shankarnagar, Taluka: Malshiras, District: Solapur.
at 13/1, 13/2, 28, 29, 30, 69/1/B, 70, 71/1, 71/2, 72/1, 73, 74, 80/3/A, 80/4, 80/5, 80/6/A, 80/9/A, 80/12, 80/13, 81/1, 81/2/A, 81/2/B, 81/3, 81/4, 81/5, 83/2/B, 93/2/A, 93/2/2 (partially), 94, 80/3/B, 82/2/B, 65/1B/2A, 66/2B.

Subject: Environment Clearance for Application for TOR for, Expansion/ Modernization of sugar factory capacity from 7500 TCD (313 TCH) to 10000 TCD (417 TCH).

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 159th (A) - Day-1th meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 165th meetings.

2. It is noted that the proposal is considered by SEAC-I under screening category CATEGORY- B as per EIA Notification 2006.

Brief Information of the project submitted by you is as below :-

1.Name of Project	Expansion/ Modernization of sugar factory capacity from 7500 TCD (313 TCH) to 10000 TCD (417 TCH).
2.Type of institution	Private
3.Name of Project Proponent	Sahakar Maharshi Shankarrao Mohite Patil Sahakari Sakhar Karkhana Limited, Shankarnagar, Taluka: Malshiras, District: Solapur.
4.Name of Consultant	Dr. B. Subba Rao
5.Type of project	Others
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project/ Modernization.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, J-11011/ 297/ 2007- IA II (I).
8.Location of the project	13/1, 13/2, 28, 29, 30, 69/1/B, 70, 71/1, 71/2, 72/1, 73, 74, 80/3/A, 80/4, 80/5, 80/6/A, 80/9/A, 80/12, 80/13, 81/1, 81/2/A, 81/2/B, 81/3, 81/4, 81/5, 83/2/B, 93/2/A, 93/2/2 (partially), 94, 80/3/B, 82/2/B, 65/1B/2A, 66/2B.
9.Taluka	Malshiras
10.Village	Shankarnagar, Akluj.
11.Whether in Corporation / Municipal / other area	OTHER AREA
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 70278
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	444150 sqm..
16.Deductions	70278
17.Net Plot area	373872
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**FSI area (sq. m.):** 70278
	Non FSI area (sq. m.): 373872
	Total BUA area (sq. m.): 444150

18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	373872
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	0.8417
21.Estimated cost of the project	100000000

22.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	SUGAR	31200	6240	37440
2	REFINED SUGAR	7500	1500	9000
3	MOLASSES	9600	1920	11520
4	BAGASSE	70000	14000	84000
5	PRESSMUD	9600	1920	11520

23.Total Water Requirement

Dry season:	**Source of water**	Nira Right-bank Canal
	Fresh water (CMD):	2801
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2801
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	1500 m3/day
Wet season:	**Source of water**	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	NA	

24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	220	0	220	44	0	44	176	0	176
Industrial Process	1981	0	1981	1050	0	1050	931	0	931

25.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10
	Size and no of RWH tank(s) and Quantity:	2 tanks-25m X 40m X 2.5m = 5000 cum.
	Location of the RWH tank(s):	Near E.T.P.
	Quantity of recharge pits:	0
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	6,00,000
	Budgetary allocation (O & M cost) :	65,000
	Details of UGT tanks if any :	NA
26.Storm water drainage	**Natural water drainage pattern:**	Surface Runoffs
	Quantity of storm water:	22488.96 cum.
	Size of SWD:	(1 X 0.5 X 0.3) m
27.Sewage and Waste water	**Sewage generation in KLD:**	320
	STP technology:	Septic Tank Followed by Anaerobic filters
	Capacity of STP (CMD):	10- 900 cum.
	Location & area of the STP:	individual STP at housing colony
	Budgetary allocation (Capital cost):	10 lakh
	Budgetary allocation (O & M cost):	50,000 per annum

28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 MT
	Disposal of the construction waste debris:	Filling low lying area and for construction of road work
Waste generation in the operation Phase:	**Dry waste:**	Refuse- 1 MT/ year, pressmud 10000 MT/month
	Wet waste:	Garbage- 3 MT/month
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	24 MT/year
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Refuse- recycling, Pressmud- Composting
	Wet waste:	Composting
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Manure
	Others if any:	NA
Area requirement:	**Location(s):**	Shankarnagar, Akluj
	Area for the storage of waste & other material:	20000 sqm.
	Area for machinery:	45883 sqm.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	8,00,00,000
	O & M cost:	1,00,00,000 per annum.

29.Effluent Charecterestics					
Serial Number	**Parameters**	**Unit**	**Inlet Effluent Charecterestics**	**Outlet Effluent Charecterestics**	**Effluent discharge standards (MPCB)**
1	pH	NA	6.5-7	7.5	5.5-9
2	BOD	mg/l	800	23.25	<100
3	COD	mg/l	2000	58.125	<250
4	TSS	mg/l	400-500	14.53	<100
Amount of effluent generation (CMD):		Process effluent-750 CMD, Excess condensate-1500 CMD			
Capacity of the ETP:		Process effluent-1000 CMD, Excess condensate- 1500 CMD			
Amount of treated effluent recycled :		1500 CMD			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		preliminary treatment (Oil & Grease trap, flow meter), Equalization tank, Anaerobic Filter, Aeration tank, Secondary Clarifier, Sludge drying beds and 15 days treated storage tank for no demand period.			
Disposal of the ETP sludge		As a manure after sludge drying			

30.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5 (1)	MT/Month	0.1	0	0.1	Mixed with bagasse and burnt in the boiler

31.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	during season	BAGASSE- 86400 MT/month	I	80	4	112 deg C

32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	BAGASSE	64800 MT/month	21600 MT/month	86400 MT/month
Source of Fuel		BAGASSE FROM SUGARCANE CRUSHING IN FACTORY		
Mode of Transportation of fuel to site		BY CONVEYOR BELT- SUGAR FACTORY TO CO-GEN BOILER		

33.Energy

Power requirement:	**Source of power supply :**	Own generation
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	16 MW
	During Operation phase (Demand load):	10 MW
	Transformer:	1) 3150 kVA - 5, 2) 4000 kVA- 2, 3) 3500- 2 and 4) 2500 kVA
	DG set as Power back-up during operation phase:	NA
	Fuel used:	Bagasse- 2970 MT/day
	Details of high tension line passing through the plot if any:	132 kVA

34.Energy saving by non-conventional method:

NA

36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Process efffluent	Anaerobic followed by aerobic	NA
Condensate treatment	Cooling tower followed by aeration	NA

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

38.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Fugitive emissions	Particulate matter	6

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Pollutant	Solid and liquid effluent and gaseous emission	300	50

39.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	NA	NA	NA	NA	NA

40.Any Other Information

No Information Available

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	CATEGORY- B
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	16-02-2017

3. The proposal has been considered by SEIAA in its 165th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

Specific Conditions:

I	PP to prepare and implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
II	PP to bring 100% sugarcane area under drip irrigation phasewise and also to undertake effective steps to increase per hector productivity of sugarcane instead of bringing additional aera under sugarcane cultivation so as to meet proposed crushing requirement.
III	PP to include water and carbon foot print in the moitoring of EMP.
IV	PP to use new and renewable energy for the illumination of office buidligns and stret lights.
V	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF&CC dated 9th August, 2018.
VI	PP to submit CER plan to District Collector and submit the acknowledgement to Member Secretary, SEIAA.

General Conditions:

I	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
II	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
IV	Proper Housekeeping programmers shall be implemented.
V	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
VIII	Arrangement shall be made that effluent and storm water does not get mixed.
IX	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
X	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
XI	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
XII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.

XV	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVI	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
XVII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XIX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
XX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in
XXI	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
XXII	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
XXIII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO2, NOx (ambient levels as well as stack emissions) or critical sectorai parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
XXIV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
XXV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune),New Administrative Building, 1stFloor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Shri. Anil Diggikar (Member Secretary SEIAA)

Copy to:

1. SECRETARY MOEF & CC
2. IA- DIVISION MOEF & CC
3. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
4. REGIONAL OFFICE MOEF & CC NAGPUR
5. MUNICIPAL COMMISSIONER PUNE
6. MUNICIPAL COMMISSIONER SATARA
7. REGIONAL OFFICE MPCB PUNE
8. REGIONAL OFFICE MIDC PUNE
9. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
10. COLLECTOR OFFICE PUNE
11. COLLECTOR OFFICE SATARA
12. COLLECTOR OFFICE SOLAPUR

CERTIFICATE OF REGISTRATION

No. G-280 of 1960.

The Registrar Co-operative Societies, Maharashtra State Poona, hereby notifies that (Yeshwant) Sahakari Sakhar Karkhana Ltd., at Akluj, Taluka Malshiras District Sholapur has been registered under Section 10 of the Bombay Co-operative Societies Act, 1925 (Bom. VII of 1925).

Sahakar Maharshi Shankarrao Mohite-Patil

Shankarnagar

Dated 20th June, 1960.

L.S. POONA

Registrar of Co-operative Societies,
Maharashtra State, Poona-1.

Approved under Regional Deputy Director of Sugar, Pune Office- Memo No. ... dated 1.1.1987

Director of Sugar & Addl. Registrar
Co-operative Societies, M.S. Pune

QUALITY COUNCIL® OF INDIA
Creating an Ecosystem for Quality

National Accreditation Board for Education and Training

Certificate of Accreditation

Equinox Environments (India) Pvt. Ltd.

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

*The organization is accredited as **Category-A** under the QCI-NABET Scheme for Accreditation of EIA Consultant Organization, Version 3: for preparing EIA-EMP reports in the following Sectors –*

S. No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals including opencast / underground mining	1	1 (a) (i)	A
2	Off shore and on-shore oil and gas exploration, development & production	2	1 (b)	A
3	Thermal power plants	4	1 (d)	B
4	Metallurgical industries – secondary	8	3 (a)	B
5	Asbestos milling and asbestos based products	12	4(c)	A
6	Pesticides industry and pesticide specific intermediates (excluding formulations)	17	5 (b)	A
7	Petro-chemical complexes (industries based on processing of petroleum fractions & natural gas and/or reforming to aromatics)	18	5 (c)	A
8	Petrochemical based processing (processes other than cracking &reformation and not covered under the complexes)	20	5 (e)	A
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)	A
10	Distilleries	22	5 (g)	A
11	Sugar Industry	25	5 (j)	B
12	Common hazardous waste treatment, storage and disposal facilities (TSDFs)	32	7 (d)	A
13	Bio-medical waste treatment facilities	32A	7 (da)	B
14	Common municipal solid waste management facility (CMSWMF)	37	7 (i)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in SAAC minutes dated March 4, 2022, and supplementary minutes dated June 24, 2022 and August 5, 2022 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/22/2548 dated October 4, 2022. The accreditation needs to be renewed before the expiry date by Equinox Environments (India) Pvt. Ltd., following due process of assessment.

Sr. Director, NABET
Dated: October 4, 2022

Certificate No.
NABET/EIA/2124/SA 0177

Valid up to
Oct 10, 2024

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

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
183398-2015-AQ-IND-RvA

Initial certification date:
28, August, 2012

Valid:
28, August, 2018 - 27, August, 2021

This is to certify that the management system of

Equinox Environments (I) Pvt. Ltd.

Flat No. 11, Namdev Nest Apartment, 1160-B, 'E' Ward, Sykes Extension,
Opp. Kamala College, Kolhapur - 416 001, Maharashtra, India
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:
Consultation and project management for:

- **Environmental impact assessment**
- **Prevention/control of pollution from effluents, emissions, noise & solid wastes**
- **Revival and conservation of lake/river**

Place and date:
Chennai, 21, August, 2018

MGMT. SYS.
RvA C 024

The RvA is a signatory to the IAF MLA

For the issuing office:
DNV GL – Business Assurance
ROMA, No. 10, GST Road, Alandur,
Chennai - 600 016, India

Sivadasan Madiyath
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.
ACCREDITED UNIT: DNV GL Business Assurance B.V., ZWOLSEWEG 1, 2994 LB, BARENDRECHT, NETHERLANDS. TEL:+31102922689.
assurance.dnvgl.com

61744/2022/LAW-HO

रजिस्ट्री सं. डी.एल.- 33004/99 REGD. No. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

सी.जी.-डी.एल.-अ.-24082022-238358
CG-DL-E-24082022-238358

असाधारण
EXTRAORDINARY

भाग III—खण्ड 4
PART III—Section 4

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 410] नई दिल्ली, बुधवार, अगस्त 24, 2022/भाद्र 2, 1944
No. 410] NEW DELHI, WEDNESDAY, AUGUST 24, 2022/BHADRA 2, 1944

केंद्रीय प्रदूषण नियंत्रण बोर्ड

अधिसूचना

नई दिल्ली, 22 जुलाई, 2022

सं. विधि 42(3)/2022.—पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 12 उप-धारा (1) के खंड (ख) और 13 के साथ पठित दिनांक 16 जून 2021 की राजपत्र अधिसूचना संख्या एस.ओ. 2340 (ई) के अधीन प्रदत्त शक्तियों का प्रयोग करते हुए, केंद्रीय प्रदूषण नियंत्रण बोर्ड, परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली -110032 एतदद्वारा (क) नीचे दी गई तालिका के स्तंभ (2) में विनिर्दिष्ट प्रयोगशालाओं को उक्त अधिनियम और इसके अंतर्गत बने नियमों के अधीन पर्यावरणीय प्रयोगशालाओं को सौंपे गए कार्य करने हेतु "पर्यावरणीय प्रयोगशाला" के रूप में और (ख) तालिका के स्तंभ (3) में विनिर्दिष्ट व्यक्तियों को विश्लेषण के लिए भेजे गये वायु, जल अथवा अन्य पदार्थों के स्तंभ (4) में दर्शाए गए पैरामीटरों के संबंधित समूहों के लिए विनिर्दिष्ट नमूनों का विश्लेषण करने हेतु सरकारी विश्लेषक के रूप में मान्यता देता है। दिनांक 28 मार्च, 2022 की अधिसूचना संख्या विधि/42(3)/2022 की क्रम संख्या 8 और इससे संबंधित प्रविष्टियों के पश्चात निम्नलिखित क्रम संख्याओं और प्रविष्टियों को जोड़ा जाएगा, अर्थात :

क्र .सं.	प्रयोगशाला का नाम	सरकारी विश्लेषक का नाम	पैरामीटर समूह हेतु मान्यता	मान्यता की वैधता
(1)	(2)	(3)	(4)	(5)
9.	**मैसर्स प्रसाद एनवाईरो लैब्स प्राइवेट लिमिटेड,** 10/3, पहली और दूसरी मंजिल, लालबाग रोड, रिचमंड सर्कल,	1. श्री वी. बूबल 2. श्री वाई योगानंद 3. श्री सुजन जे. एस.	भौतिक परीक्षण, अकार्बनिक (सामान्य एवं गैर-धात्विक), अकार्बनिक (सूक्ष्म धातु), कार्बनिक (सामान्य) एवं सूक्ष्म कार्बनिक,	11.10.2023

21.	**M/s Gold Finch Engineering System Pvt. Ltd.,** Plot No. A-288, Road No. 16Z, Thane Industrial Area, MIDC (Wagle Estate), Thane (W)-400604, Maharashtra.	1. Smt. Pradnya S. Bhide 2. Smt. Neha S. Apte 3. Smt. Ulka S. Kelkar	Physical Tests, Inorganic (General and non-metallic), Inorganic (Trace metals), Organics (General) and trace organics, Microbiological test, Toxicological Tests, Soil/sludge/Sediment, Ambient Air/ fugitive emissions, Stack gases/ source emission, Noise level and Meteorological Monitoring.	31.12.2022
22.	**M/s Green Envirosafe Engineers and Consultant Pvt. Ltd.,** A-7/2/C11, Capital City, Talawade-Chakan Road, Chakan MIDC, Phase –IV, Village – Nighoje, Tal-Khed, Dist- Pune- 410501, Maharashtra, India.	1. Mr. Vinod Hande 2. Dr. Satish Kulkarni 3. Ms. Sneha Sudhakar Hande	Physical Tests, Inorganic (General and non-metallic), Inorganic (Trace metals), Organics (General) and trace organics, Microbiological test, Toxicological Tests, Biological Tests, Characterization of Hazardous waste, Soil/sludge/Sediment, Ambient Air/ fugitive emissions, Stack gases/ source emission, Noise level and Meteorological Monitoring.	29.02.2024
23.	**M/s Green Habitat Industrial Labs,** Plot No, 77 (First Floor), Sector-9, PhaseIII, IMT Bawal, Distt.- Rewari, Haryana, 123501.	1. Sh. Raj Singh 2. Sh. Kulesh Kumar Dubey, 3. Ms. Sonam Rajput	Physical Tests, Inorganic (General and non-metallic), Inorganic (Trace metals), Organics (General) and trace organics, Microbiological test, Toxicological Tests, Biological Tests, Characterization of Hazardous waste, Soil/sludge/Sediment, Ambient Air/ fugitive emissions, Stack gases/ source emission, Noise level and Meteorological Monitoring.	04.12.2022
24.	**M/s Haryana Test House & Consultancy Services,** 50-C, Sector-25, Part-II, HUDA, Panipat, Haryana-132103.	1. Sh. M. L. Dua 2. Sh. Mohanlal Sharma 3. Md. Asfak Ansari	Physical Tests, Inorganic (General and non-metallic), Inorganic (Trace metals), Organics (General) and trace organics, Microbiological test, Toxicological Tests, Biological Tests, Characterization of Hazardous waste, Soil/sludge/Sediment, Ambient Air/ fugitive emissions, Stack gases/ source emission, Noise level and Meteorological Monitoring.	16.10.2022
25.	**M/s MATS India Pvt. Limited (Laboratory Services Division),** 1A & 1B, Perumal Koil Street, Nerkundram, Chennai-600107, Tamil Nadu.	1. Sh. P. Prabakaran 2. Dr. V. Rambabu 3. Sh. R. Vijaya	Physical Tests, Inorganic (General and non-metallic), Inorganic (Trace metals), Organics (General) and trace organics, Microbiological test, Toxicological Tests, Biological Tests, Characterization of Hazardous waste, Soil/sludge/Sediment, Ambient Air/ fugitive emissions, Stack	10.09.2023

50.	**M/s S. A. Encon Private Limited,** Gat No: 1373/1, Shirwal, Tal-Khandala, Dist. Satara, Pin-412801, Maharashtra	1. Sh. Anant Sattupa Nandawadekar 2. Ms. Vishakha Dilip Khopade 3. Sh. Nitish Dhananjay Ranade	Inorganic (Trace metals), Organics (General) and trace organics, Microbiological test, Toxicological Tests, Biological Tests, Characterization of Hazardous waste, Soil/sludge/Sediment and solid waste, Ambient Air/ fugitive emissions, Stack gases/ source emission, Noise level and Meteorological Monitoring.	06.10.2022
51.	**M/s Ganesh Consultancy & Analytical Services,** 294 A, Hebbal Industrial Area, Mysore-570016, Karnataka.	1. B. S. Subhash 2. B. S. Nagedra 3. P. M. Ravikumar	Inorganic (Trace metals), Organics (General) and trace organics, Microbiological test, Toxicological Tests, Biological Tests, Characterization of Hazardous waste, Soil/sludge/Sediment and solid waste, Ambient Air/ fugitive emissions, Stack gases/ source emission, Noise level and Meteorological Monitoring.	31.05.2023

The Environmental Laboratories so mentioned shall remain valid as per para 5 or valid till the extension of current NABL Accreditation (ISO: 17025) from the date of issue of Notification. However, Government Analysts so mentioned at column (3) shall be appointed for a validity period mentioned at column (5) or up to the superannuation from the service of the Organization, whichever is earlier.

TANMAY KUMAR, Chairman

[ADVT.-III/4/Exty./230/2022-23]

Uploaded by Dte. of Printing at Government of India Press, Ring Road, Mayapuri, New Delhi-110064
and Published by the Controller of Publications, Delhi-110054.

National Accreditation Board for Testing and Calibration Laboratories
(A Constituent Board of Quality Council of India)

NABL/T- 4280/C

05.11.2018

To,

Mr. Sanjay Tanpure

Green Envirosafe Engineers and Consultant Pvt. Ltd

Survey No.1405/06, Mayuri Residency, Shop. No 16, 2nd Floor,

Sanaswadi,Tal Shirur, Pune-412208, Pune-412208,Maharashtra, India

Mb: 0-9767838931, gesec12@gmail.com

Sub: Grant of NABL Accreditation

Dear Mr Sanjay Tanpure

NABL is pleased to grant accreditation to the laboratory in accordance with **ISO/IEC 17025:2005** in the discipline of **Chemical testing** as per the scope and authorized signatories recommended by the assessment team.

The accreditation certificate no. **TC-8061** Issue date **03.11.2018** valid till **02.11.2020** is under preparation and will be sent to the laboratory in due course of time. **Kindly submit the soft copy of recommended scope in MS word format** to the undersigned thereafter complete certificate preparation will take place.

The accreditation is granted for two years subject to your satisfactory compliance to the terms and conditions for maintaining NABL accreditation (refer NABL 131). NABL-133 which is available on our website 'www.nabl-india.org' should be followed for using NABL Symbol.

There will be an on–site surveillance visit, within 12 months of grant of accreditation, to verify laboratory's continued compliance to NABL requirements.

Sincerely,

Nabo Gopal Roy
Joint Director
nabogopal@nabl.qcin.org

Note: CABs accredited as per the ISO/IEC17025:2005 may opt to convert to ISO/IEC17025:2017 either during on-site surveillance falling during the year 2019 or during re-assessment on or before 29th Nov 2020. Please refer 'Revised Transition from ISO/IEC 17025:2005 to ISO/IEC 17025:2017' at NABL website under announcements.

NABL House, Plot 45, Sector 44; Gurugram 122 002, Haryana, India
Tel. No.: +91-124-4679700 (30 lines) • Fax: +91-124-4679799 • Website: www.nabl-india.org

CRESCENT QUALITY CERTIFICATION PVT. LTD.

Certificate of Registration

This is to certify that the Quality Management System of

GREEN ENVIROSAFE ENGINEERS & CONSULTANT PVT. LTD.

At Address

M/S. GREEN ENVIROSAFE ENGINEERS & CONSULTANT PVT. LTD.,
PLOT NO. A - 7/2/C-11, MIDC, CHAKAN INDL. AREA PH-IV,
NIGHOJE, TAL - KHED, DIST - PUNE.

Has been Assessed by Crescent Quality Certification Pvt. Ltd. and Deemed to comply with the requirement of

ISO 9001:2015

This Certificate is Valid for the activities specified below:

ENVIRONMENT CONSULTANCY SERVICES PROVIDER,
ENVIRONMENT TESTING WATER & WASTE WATER TESTING
AIR MONITORING & TESTING, FOOD TESTING & ANALYSIS

Registration No.: CQCPL/QMS/0221/6701
Certificate Issue Date: 22.02.2021
1st Surveillance: 02.2022

Certificate Expire Date: 21.02.2024
2nd Surveillance: 02.2023

Managing Director

CRESCENT QUALITY CERTIFICATION PVT. LTD.
B-1005, Gundecha Symphony, Veera Desai Road, Andheri West, Mumbai - 400 053, India
Phone: +919820429510, Email: info@crescentqualitycerfification.com,
Website: www.crescentqualitycertification.com

For Current validity of this certificate, please visit our website

CRESCENT QUALITY CERTIFICATION PVT. LTD.

Certificate of Registration

This is to certify that the Enviornment Management System of

GREEN ENVIROSAFE ENGINEERS & CONSULTANT PVT. LTD.

At Address

M/S. GREEN ENVIROSAFE ENGINEERS & CONSULTANT PVT. LTD.,
PLOT NO. A - 7/2/C-11, MIDC, CHAKAN INDL. AREA PH-IV,
NIGHOJE, TAL - KHED, DIST - PUNE.

Has been Assessed by Crescent Quality Certification Pvt. Ltd. and Deemed to comply with the requirement of

ISO 14001:2015

This Certificate is Valid for the activities specified below:

ENVIRONMENT CONSULTANCY SERVICES PROVIDER,
ENVIRONMENT TESTING WATER & WASTE WATER TESTING
AIR MONITORING & TESTING, FOOD TESTING & ANALYSIS

Registration No.: CQCPL/EMS/0221/1572
Certificate Issue Date: 22.02.2021
1st Surveillance: 02.2022

Certificate Expire Date: 21.02.2024
2nd Surveillance: 02.2023

Managing Director

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B-1005, Gundecha Symphony, Veera Desai Road, Andheri West, Mumbai - 400 053, India
Phone: +919820429510, Email: info@crescentqualitycerfification.com,
Website: www.crescentqualitycertification.com
For Current validity of this certificate, please visit our website

CRESCENT QUALITY CERTIFICATION PVT. LTD.

Certificate of Registration

This is to certify that the

Occupational Health And Safety Management System of

GREEN ENVIROSAFE ENGINEERS & CONSULTANT PVT. LTD.

At Address

M/S. GREEN ENVIROSAFE ENGINEERS & CONSULTANT PVT. LTD.,
PLOT NO. A - 7/2/C-11, MIDC, CHAKAN INDL. AREA PH-IV,
NIGHOJE, TAL - KHED, DIST - PUNE.

Has been Assessed by Crescent Quality Certification Pvt. Ltd. and Deemed to comply with the requirement of

ISO 45001:2018

This Certificate is Valid for the activities specified below:

ENVIRONMENT CONSULTANCY SERVICES PROVIDER,
ENVIRONMENT TESTING WATER & WASTE WATER TESTING
AIR MONITORING & TESTING, FOOD TESTING & ANALYSIS

Registration No.: CQCPL/OHSMS/0221/5518
Certificate Issue Date: 22.02.2021
1st Surveillance: 02.2021

Certificate Expire Date: 21.02.2024
2nd Surveillance: 02.2023

Managing Director

CRESCENT QUALITY CERTIFICATION PVT. LTD.
B-1005, Gundecha Symphony, Veera Desai Road, Andheri West, Mumbai - 400 053, India
Phone: +919820429510, Email: info@crescentqualitycerfification.com,
Website: www.crescentqualitycertification.com
For Current validity of this certificate, please visit our website

"An ISO 9001:2015 Certified Factory"
Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd; Shankarnagar-Akluj
Post. Yeshwantnagar, Tal. Malshiras, Dist. Solapur (Maharashtra), Pin - 413118

E-mail : smsmpssk@gmail.com
Website : www.aklujsugar.com
GSTIN : 27AAAA3736J1ZC

Ph. No. Office - (02185) 222048, 222248
Fax No. - (02185) 222249
Resi. Chairman - (02185) 222755, 225599
Resi. Managing Director - (02185) 222248

Ref. No./Environment/ 7516 /2022-23 Date: 15 MAR 2023

DECLARATION

This is to state that the 'Executive Summary & Draft EIA Report' submitted herewith has been prepared in respect of Expansion of molasses based Distillery from 60 to 120 KLPD using C / B heavy Molasses/ Sugarcane Juice/ Syrup in the existing premises of 10,000 TCD Sugar Factory, 33 MW Co- generation plant & 20 MT/Day Acetic Acid Plant by **Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd. (SMSMPSSKL);** At: - Shankarnagar-Akluj, Tal- Malshiras, Dist. - Solapur, Maharashtra.

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.

Mr. Rajendra Kerba Chaugule
Managing Director
Sahakar Maharshi Shankarrao Mohite-Patil Sahakari Sakhar Karkhana Ltd. (SMSMPSSKL)
At: - Shankarnagar-Akluj, Tal- Malshiras, Dist. - Solapur, Maharashtra.

Project Proponent

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Environmental Consultant