P-519-SMSNNSSKL1-SUGAR-12020
(Revision - 01)

SUMMARY ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REPORT

(IN ENGLISH AND MARATHI)

FOR

EXPANSION OF SUGAR FACTORY FROM 4800 TCD TO 7500 TCD & MOLASSES BASED DISTILLERY FROM 30 KLPD TO 60 KLPD

BY

SAHAKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE SAHAKARI SAKHAR KARKHANA LTD.

A/P: SHRIGONDA FACTORY, TAL.: SHRIGONDA,
DIST.: AHMEDNAGAR, MAHARASHTRA

PREPARED BY

Equinox Environments (India) Pvt. Ltd.

EQUINOX ENVIRONMENTS (I) PVT. LTD.

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

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

An ISO 9001 : 2015 & QCI - NABET Accredited Organization

NOVEMBER - 2020

Regi. No. ANR/PRG (A) 1, Date. 3/8/1965

सहकार महर्षी शिवाजीराव नारायणराव नागवडे
सहकारी साखर कारखाना लि.

मु.पो. श्रीगोंदा फॅक्टरी, ता. श्रीगोंदा, जि. अहमदनगर पिन - ४१३७२६

SAHAKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE
SAHAKARI SAKHAR KARKHANA LTD.

A/P - Shrigonda Factory - (413726) Tal. Shrigonda, Dist. Ahmednagar (MS)

REF NO. : CENTRAL/ENGG/56/ 933 /2020-21 **DATE: 12/10/2020**

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

Sub.: Application for **'Public Hearing'** to be conducted for expansion of Sugar Factory from 4800 TCD to 7500 TCD & Distillery Unit from 30 KLPD to 60 KLPD by – **Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd., (SMSNNSSKL),** located at Gat No. 52/2, A/p: Shrigonda Factory, Tal.: Shrigonda, Dist.: Ahmednagar, Maharashtra.

Ref.: 'Terms of Reference'(ToR) granted vide letter no. SIA/MH/IND2/52312/2020 dated 05.08.2020. Copy enclosed at **Enclosure – I**.

Dear Sir,

We – **"Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd."** have planned to go for expansion of Sugar Factory from 4800 TCD to 7500 TCD & Distillery Unit from 30 KLPD to 60 KLPD at Gat No. 52/2, A/p: Shrigonda Factory, Tal.: Shrigonda, Dist.: Ahmednagar, Maharashtra.

Accordingly, an application in Form – 1 format was submitted to the 'State Environment Impact Assessment Authority (SEIAA); Mumbai' for grant of ToR's on 05.08.2020. Refer **Enclosure – I** for Standard ToRs. In the ToR letter, directions were given to conduct Public Hearing w.r.t. our expansion 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.

Phone- 02487 - 252 220 / 222 / 242 Fax. 02487 - 252 339/421 • E-Mail-shrigondasugar@yahoo.co.in

Regi. No. ANR/PRG (A) 1, Date. 3/8/1965

सहकार महर्षी शिवाजीराव नारायणराव नागवडे
सहकारी साखर कारखाना लि.

मु.पो. श्रीगोंदा फॅक्टरी, ता. श्रीगोंदा, जि. अहमदनगर पिन - ४१३७२६

SAHAKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE
SAHAKARI SAKHAR KARKHANA LTD.

A/P - Shrigonda Factory - (413726) Tal. Shrigonda, Dist. Ahmednagar (MS)

'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. 50,000/- (Rs. Fifty Thousand only) Bearing no. 858434 drawn on Union Bank of India dated 26.10.2020 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. Ramakant S. Naik
(Managing Director)

Encl.: 1. Executive Summary of project.
2. A Draft EIA Report.
3. A D.D. bearing No. 858434 dated 26.10.2020drawn on Union Bank of India

Phone- 02487 - 252 220 / 222 / 242 Fax. 02487 - 252 339/421 • E-Mail-shrigondasugar@yahoo.co.in

यूनियन बैंक Union Bank of India

क्रम सं. Sr. No. 29858434 NDD 532274

26 10 2020
D D M M Y Y Y Y

KASHTI
**** Not Over INR. 50,000.00****

मांगने पर अदा करें ON DEMAND PAY SUB REGIONAL OFFICER AHMEDNAGAR MAHARASHTRA POLLUTION CONTROL BOARD को या उनके आदेश पर OR ORDER

रुपये RUPEES Fifty thousand only.

प्राप्त मूल्य के लिए FOR VALUE RECEIVED ₹ 50000.00

BC. No. 29858434 प्रति To यूनियन बैंक Union Bank of India

कृते यूनियन बैंक ऑफ इंडिया For Union Bank of India

Purchaser: S M SHIVAJIRAO NARAYANRAO NAGAWADE SAHAKARI SAKHAR
AHMEDNAGAR MAIN
(532231)

प्राधिकृत हस्ताक्षरकर्ता 748036 Please sign above

Authorised Signatories

PAYABLE AT PAR AT ALL OUR BRANCHES IN INDIA.

EM/PD/S KEY: HBU104114

जारी करने की तारीख से तीन माह के लिए वैध VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

दक TC | एक OC | दला TL | एल | दह TT | एह OT | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

⑈858434⑈ 000026000⑆ 000029⑈ 16

CERTIFICATE

Declaration by Expert contributing to the Draft EIA in respect of expansion of sugar factory will be increased from 4,800 TCD to 7,500 TCD & molasses-based distillery unit from 30 KLPD to 60 KLPD. Expansion project will be implemented in the existing 4800 TCD sugar factory, 30 KLPD distillery unit & 26 MW cogeneration plant premises by **Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. (SMSNNSSKL)**, located at Shrigonda Factory, Shrigonda Taluka, Ahmednagar, Maharashtra.

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

Project No. Central-Dist-55-1222-2019-20

EIA Coordinators

Name : Dr. Sangram Ghugare 

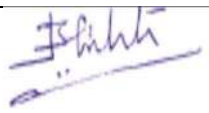
Period of Involvement : January 2020 – October 2020

Contact Information : eia@equinoxenvi.com

Functional Area Expert:

Sr. No.	Functional Area	Name of the expert/s	Involvement (Period & Task)	Signature
1	**WP**	Dr. Sangram Ghugare	**January 2020 – October 2020** • Study of process and operations • Site visit and finalization of water sampling locations • Preparation of water balance and identification of wastewater generation. • Evaluation of water pollution & control management • Identification of impacts, suggestion and finalization of mitigation measures • Study on Treatment of effluents through existing ETP and to be upgraded under proposed expansion was contemplated and designs were done accordingly.	
2	**EB**	Sulakshna Ayarekar	**January 2020 to March 2020** • Selection of Site for conducting ecological & biodiversity status of the study region. • Interaction with Govt. offices and agencies for certain secondary data and information pertaining to region specific issues • Study of terrestrial fauna by sighting, noting pug-marks, calls, sounds, droppings, nests and burrows etc.	

Sr. No.	Functional Area	Name of the expert/s	Involvement (Period & Task)	Signature
			• Interaction with local residents for obtaining information about various species of animals and birds usually observed their existence and importance in the study region. • Review of rules, legislation and criteria towards knowing and understanding inclusion in the study region of any eco-sensitive zones, wild life sanctuary. • Collection, compilation and presentation of the data as well as incorporation of same in to the EIA report.	
3	**SE**	Mr. Neeraj Powar	**January 2020 to March 2020** • Collection of data on socio-economic aspects in study area through surveys. • Public opinions and recording of events for future industrialization in the study area. • Study of sociological aspects like human settlement, demographic and infrastructural facilities available in study area. • Compilation of primary and secondary data and its inclusion in EIA report.	
4	**AP**	Mr. Yuvraj Damugade	**January 2020 – October 2020** • Involved in detailed study of mass balance w.r.t. raw materials & products especially from view point of process emissions. • Site visit and finalization sampling locations. • Planning & identifying the most appropriate air pollution control equipment from view points of efficiencies, capital as well as O & M cost & suitability. • Identification of impact and suggesting the mitigation measures.	
5	**AQ**		**January 2020 – October 2020** • Designing of Ambient AQM network for use in prediction modeling and micro metrological data development. • Development and application of air quality models in prediction of pollutant dispersion. • Plotting of isopleths of GLCs, Worst case scenarios prediction w.r.t. source and receptors.	

Sr. No.	Functional Area	Name of the expert/s	Involvement (Period & Task)	Signature
6	**HG**	Dr. J.B. Pishte	**January 2020 to March 2020** • Hydro geological studies, data processing; analysis and evaluation, Ground water table measurement and monitoring network methodology preparation. • Planning and scheduling of groundwater sampling stations in the region. • Study of geology & general geological configuration of the region as well as sub-surface geology. • Determination of impact and suggesting mitigation measures.	
7	**GEO**			
8	**RH**	Mr. Thorat	**January 2020 to March 2020** • All the necessary literature for processes storage of hazardous chemicals was studied before visit. • Site visit and Verification of adequacy of on-site emergency preparedness plan for proposed unit was done. • Identification of probable emergencies and procedures for preparedness for handling the same was verified. • Worst case analysis by using ALOHA, Ware house safety measures, suggestion of mitigation measures.	
9	**NV**	Mr. Vinay Kumar Kurakula	**January 2020 to March 2020** • Verification of noise levels Monitoring (both work zone and ambient) in the industrial premises and study region • Finalization and verification of sampling locations, ambient noise monitoring stations and the data collected.	
10	**LU**		• Land use land cover mapping using NRSC Satellite image. • Satellite image processing, Image classification, Technical analysis and study for setting up of facility, planning of storage facility.	
11	**SHW**		• Detailed study of manufacturing process and mass balance. • Solid wastes generation in different steps of manufacturing was identified and their quantification done was checked. • Identification of various hazardous wastes generated through manufacturing process.	

Sr. No.	Functional Area	Name of the expert/s	Involvement (Period & Task)	Signature
			• Practices of storage and disposal of HW its impact and mitigation measures.	
12	**SC**	Mr. Ratnakumar Mudliar	**January 2020 to March 2020** • Involvement physical analysis & characterization of the soils. • Identification of Impact and its mitigation measures. • Interpretation of soil analysis, results and data including comparison of same with standard soil classification. • Collection, study and evaluation of soil information from data obtained from secondary sources & its interpretation.	

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

I, **M/s. Equinox Environments (I) Pvt. Ltd. (EEIPL)**; Kolhapur, Environmental & Civil Engineers, Consultants and Analysts, hereby confirm that the above mentioned experts were involved in preparation of Draft EIA and Executive Summary in respect of proposed expansion of sugar factory will be increased from 4,800 TCD to 7,500 TCD & molasses-based distillery unit from 30 KLPD to 60 KLPD will be implemented in the existing 4800 TCD sugar factory, 30 KLPD distillery unit & 26 MW cogeneration plant premises by **Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. (SMSNNSSKL)**, located at Shrigonda Factory, Shrigonda Taluka, Ahmednagar, Maharashtra State.

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

Signature: 

Name: Dr. Sangram Ghugare

Designation: Chairman & MD

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

NABET Certificate No. & Valid Till: NABET/EIA/1821/ RA 0135 dated 21.10.2021

INDEX

Summary of EIA Report For
The Expansion of Sugar Factory Crushing Capacity From 4800 TCD To 7500 TCD & Molasses Based Distillery Unit From 30 KLPD To 60 KLPD
By
Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. (SMSNNSSKL),
At: Shrigonda Factory, Tal.: Shrigonda, Dist.: Ahmednagar, Maharashtra.

1) The Project

Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. (SMSNNSSKL) is located at Gat No. 52/2, Shrigonda Factory, Shrigonda Taluka, Ahmednagar, Maharashtra. Under expansion, crushing capacity will be increased from 4,800 TCD to 7,500 TCD & molasses-based distillery unit from 30 KLPD to 60 KLPD in existing sugar factory (4800 TCD), distillery unit (30 KLPD) & co-gen plant (26 MW) premises.

As per the provision of "EIA Notification No. S. O. 1533 (E)" dated 14.09.2006 as amended vide Notification No S.O. 3067 (E); dated 13.06.2019, the proposed expansion project is listed as activity ***5 (j) & 5(g)(i)-Sugar & Distillery resp***; **Category 'B'** at State Level. Proposed expansion project will be formulated in such a fashion and manner so that the utmost care of Safety Norms and Environment Protection shall be taken. Details of capital investment are given in table 1.

Table 1 Project Investment Details

No.	Industrial Unit	Capital Investment (Rs. Cr.)	
		Existing	Expansion
1	Sugar Factory	80.82	12.0
2	Co-gen Unit	90.07	--
3	Distillery Unit	15.98	60.0
	Total	**186.87**	**72.0**
	Grand Total	**Rs. 258.87 Cr.**	

2) The Place

Proposed expansion of sugar factory & distillery unit, shall be carried out in existing premises of sugar factory, distillery unit and co-gen plant by SMSNNSSKL. Total land acquired by the SMSNNSSKL is 33.18 Ha. Out of this existing built up area of sugar factory, cogen plant & distillery unit is 10.64 Ha & that for expansion of sugar factory & distillery is 0.48 Ha. A No Objection Certificate (NOC) for the proposed expansion project has been obtained from the Grampanchayat Limpangaon. Same is presented at certificates and other documents of the EIA report. Detailed area break-up is presented at Table 2.

Table 2 Area Statement of SMSNNSSKL

No.	List of area	Area (Sq. M.)		
		Existing	Expansion	Total
1	**Total Plot Area**	**3,31,800**		
2	**Built-up Area**			
	i. Sugar Factory	55,115	3,000	58,115
	ii. Distillery Unit	14,450	1,500	15,950
	iii. Cogen Unit	27,882	--	27,882
	iv. Area under Road	9000	300	9,300
	Total Built-up Area	**1,06,447**	**4800**	**1,11,247**
3	Green Belt Area (33%)	20,000	90,207	1,10,207
4	Total Open Area	2,05,353	--	**1,10,346**

3) The Promoters

SMSNNSSKL promoters are well experienced in the field of sugar and co-gen and have made a thorough study of entire project planning as well as implementation schedule. Names and designations of the promoters are as under-

Table 3 List of Promoters

No.	Name of Member	Designation
1	Mr. Rajendra S. Nagawade	Chairman
2	Mr. Ramakant S. Naik	Managing Director

4) The Products

Details of products that are manufactured under existing as well as expansion activities are represented in following table.

Table 4 List of Products & By-product for Integrated Complex

Industrial unit	Product& By-product	UoM	Quantity		
			Existing	Expansion	Total
Sugar Factory (4800 TCD to 7500 TCD)	Sugar (11%)*	MT/D	528	297	825
	By-Product				
	Bagasse (30%)*	MT/D	1440	810	2250
	Press Mud (4%)*	MT/D	192	108	300
	Molasses (4%)*	MT/D	192	108	300
Distillery (30 KLPD to 60 KLPD)	Rectified Spirit/ ENA/ Ethanol/ Absolute Alcohol (AA)	KLPD	30	30	60
	By-product				
	Fusel Oil	MT/D	2	2	4
	CO_2	MT/D	25	25	50
Co-gen	Power Generation	MW	26	--	26

* - Percent of Cane Crushed

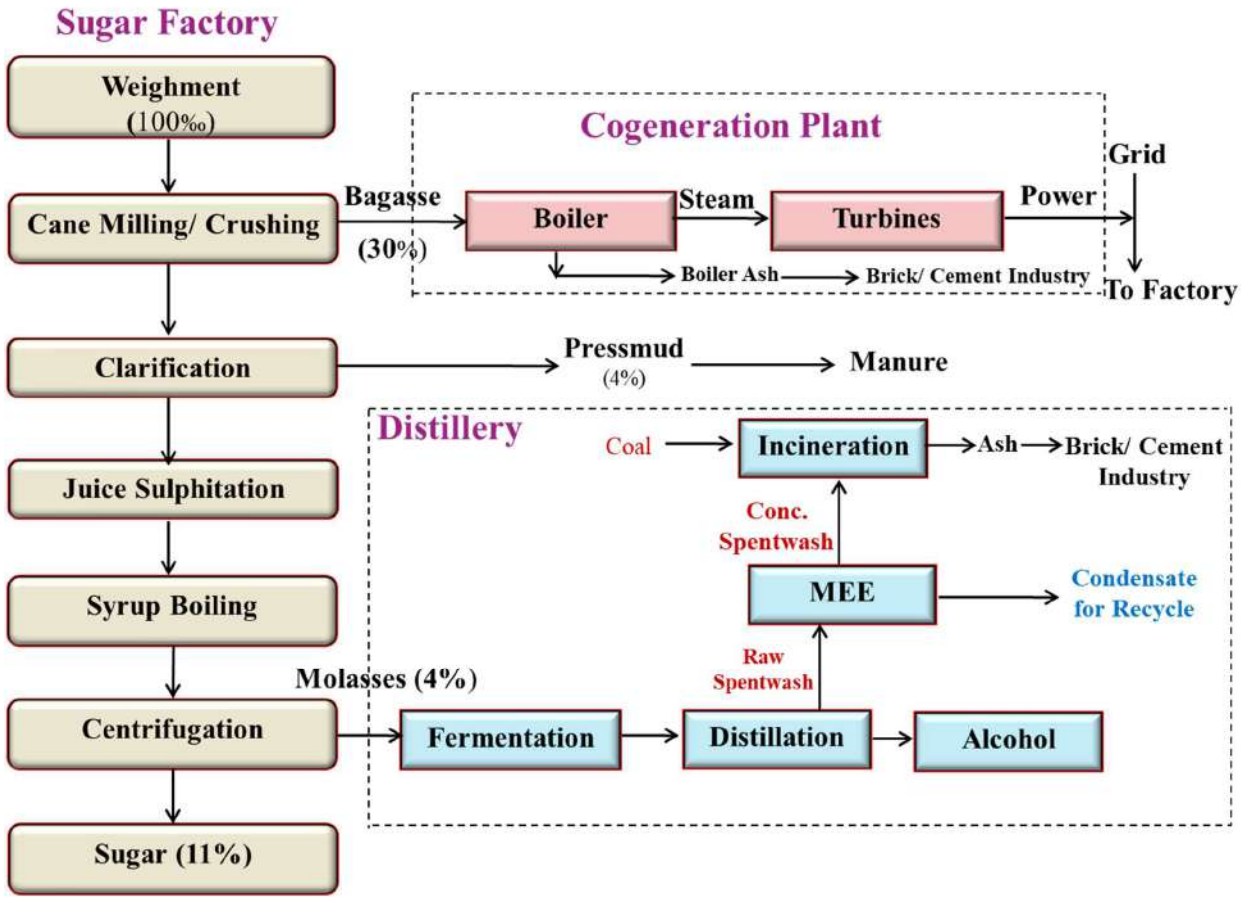
5) The Purpose

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

6) Manufacturing Process

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

Figure 1 Integrated Manufacturing Process Operations



7) Environmental Aspects

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

A) Water use and Effluent generation:

a. Water use

- Total water requirement for SMSNNSSKL integrated project complex after expansion shall be to the tune of 4235 M^3/Day.
- The water requirement for expansion of sugar factory and existing co-gen plant will be 3,590 M^3/Day out of which 3,488 M^3/Day will be cane condensate water, 17 M^3/Day STP treated water & 85 M^3/Day fresh water taken from Ghod left canal.
- The water requirement for expansion of distillery will be 645 M^3/Day. Out of this, 521 M^3/Day shall be met from the MEE condensate & 1 M^3/Day STP treated water, remaining 123 M^3/Day shall be taken from Ghod left canal. Moreover, for domestic

purpose out of total requirement of 2 M^3/Day. For more details refer Section 2.7.1.3 of Chapter 2

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

Table 5 Water Consumption in Sugar Factory & Co-gen Plant

No.	Description	Quantity(M^3/Day)		
		Sugar Factory		Cogen Plant
		Existing – 4800 TCD	After Expansion- 7500 TCD	Existing-26 MW
1	Domestic	16*	18(3#+15$)	3(1#+2$)
2	Industrial			
a)	Manufacturing process	1416*	2211*	--
b)	Cooling	192*	300*	468*
c)	Boiler feed	72*	72*	336*
d)	D.M Plant	14#	14#	67#
e)	Lab & Washing	5*	7*	--
f)	Ash quenching	1*	1*	3*
	Industrial Total	**1700** (14#+1686*)	**2605** (14#+2591*)	**874** (67#+807*)
3	Gardening	17*	90*	--
	Grand Total	**1733** (14#+1719*)	**2713** (17#+2681*+15$)	**877** (68#+807*+2$)
	Fresh Water Consumption (Norm:100 lit./ MT of cane)	3	2	--

Note: # - Fresh quantity of water taken from Ghod left canal, * - Cane Condensate Water after CPU, & $ - Treated Water from proposed STP

Table 6 Details of Water Consumption in Distillery Unit

No	Description	Water Consumption (M^3/Day)		
		Existing	After Expansion	
			Cane Crushing Season	Cane Non-Crushing Season
1	Domestic	1#	2 (1#+1$)	2 (1#+1$)
2	Industrial			
a)	Process	258♣	496♣	496♣
b)	Cooling Make up	42#	84(23♣+61*)	84(23♣+61#)
c)	Boiler Make up	24#	48*	48#
d)	Lab & Washing	2♣	3*	3#
e)	DM Plant	5♣	10*	10#
f)	Ash quenching	1♣	2♣	2♣
	Ind. Total	332 (66# +266 ♣) 80% Recycle	643 (122* + 521♣) 100% Recycle	643 (122# + 521♣) 81% Recycle
	Grand Total	333 (67# + 266♣)	645 (122* +521♣ +1#+1$)	645 (123# +521♣ +1$)

	Fresh Water Consumption (Norm: 10 KL/KL of Alcohol)	2.2	0.0	2.0

Note: # - Fresh quantity of water taken from Ghod left canal, * - Excess cane condensate from sugar factory, ♣ - Recycled water from Distillery CPU & $ - Treated Water from proposed STP

For more details about water budget refer Chapter 2 Section 2.7.1 of EIA report.

b. Effluent Treatment-

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

Table 7 Effluent Generation in Sugar Factory & Co-gen Plant

Description	Quantity(M^3/Day)			Disposal
	Sugar Factory		Cogen	
	Existing	After Expansion	Existing	
Domestic	13	14	2	**Existing** - Septic tank followed by soak pit **Expansion**– Proposed STP
Industrial				Treated in existing ETP having primary, secondary & tertiary treatment units; will be duly upgraded
a)Process	200	295	--	
b)Cooling	19	30	47	
c)Boiler	20	20	75	
d)DM Plant	14	14	67	
e)Lab & Washing	5	7	--	
Industrial Total (a+b+c+d+e+f)	**258**	**366**	**189**	
Norm:100 lit./ MT of cane	**54**	**49**	**--**	

Table 8 Details of Effluent Generation in Distillery

Description	Quantity(M^3/Day)		Disposal
	Existing	After Expansion	
Domestic	1	2	**Existing** - Septic tank followed by soak pit **Expansion**– Proposed STP under sugar factory
Industrial			**Existing** - Sp. wash forwarded to bio-digester followed by concentration in MEE & forwarded to composting. **Expansion** – Sp. Wash conc. in MEE followed by incineration.
Process	Raw Sp. wash- 240	Raw Sp. wash - 480	
	Conc. Sp. wash – 52	Conc. Sp. wash - 96	
	MEE Condensate- 188	MEE Condensate- 384	Other effluent treated in existing distillery CPU; which will be duly upgraded. Treated effluent will be fully recycled in process to achieve ZLD.
	Spent Lees – 68	Spent Lees – 117	
Cooling Make up	4	8	
Boiler Make up	5	10	
Lab & Washing	2	3	
DM Plant	5	10	
Ind. Total	Conc. – 52 Other – 272	Conc. – 96 Other – 532	

i) Domestic Effluent

The domestic effluent from existing activities of SMSNNSSKL sugar factory and co-gen plant is to the tune of 15 M^3/ Day whereas from existing distillery is to the tune of 1 M^3/ Day. Total domestic effluent from existing activity of SMSNNSSKL is 16 M^3/ Day. Same is being treated in Septic tank followed by soak pit. After implementation of expansion project, total domestic effluent from SMSNNSSKL campus shall be 18 M^3/ Day (domestic effluent from sugar factory & co-gen plant - 16 M^3/ Day and to that of distillery 2 M^3/ Day). Same shall be treated in proposed STP and the treated effluent shall be reused for flushing and also used for gardening.

ii) Industrial Effluent

From existing sugar factory & co-gen plant operations, trade effluent @ 447 CMD is generated. Subsequent to implementation of expansion, total effluent generated from sugar factory and co-gen plant activities @ 555 M^3/Day shall be forwarded to the existing ETP in the SMSNNSSKL premises. The existing ETP is having capacity of 1000 CMD & sufficient for treatment of effluent after expansion too. The treated water from ETP will be used to gardening & green belt development in own premises.

Presently, raw spentwash @240 CMD from existing 30 KLPD distillery unit is digested & concentrated in MEE. This concentrated spentwash @ 52 CMD is forwarded for composting.

After expansion of distillery unit composting will not be done. Total raw spentwash generated @ 480 M^3/D will be concentrated in MEE. This concentrated spentwash @ 96 M^3/D will be incinerated with coal/bagasse. Other effluents viz. spent lees @ 117 M^3/D, condensate @ 384 M^3/D, cooling blow down @ 8 M^3/D and lab-wash & DM backwash @ 13 M^3/D will be treated in existing CPU; which will be duly upgraded. Treated water from CPU will be reused for industrial operations, thereby achieving Zero Liquid Discharge (ZLD) for process effluent.

Figure 2 Flow Chart of Existing Sugar Factory ETP

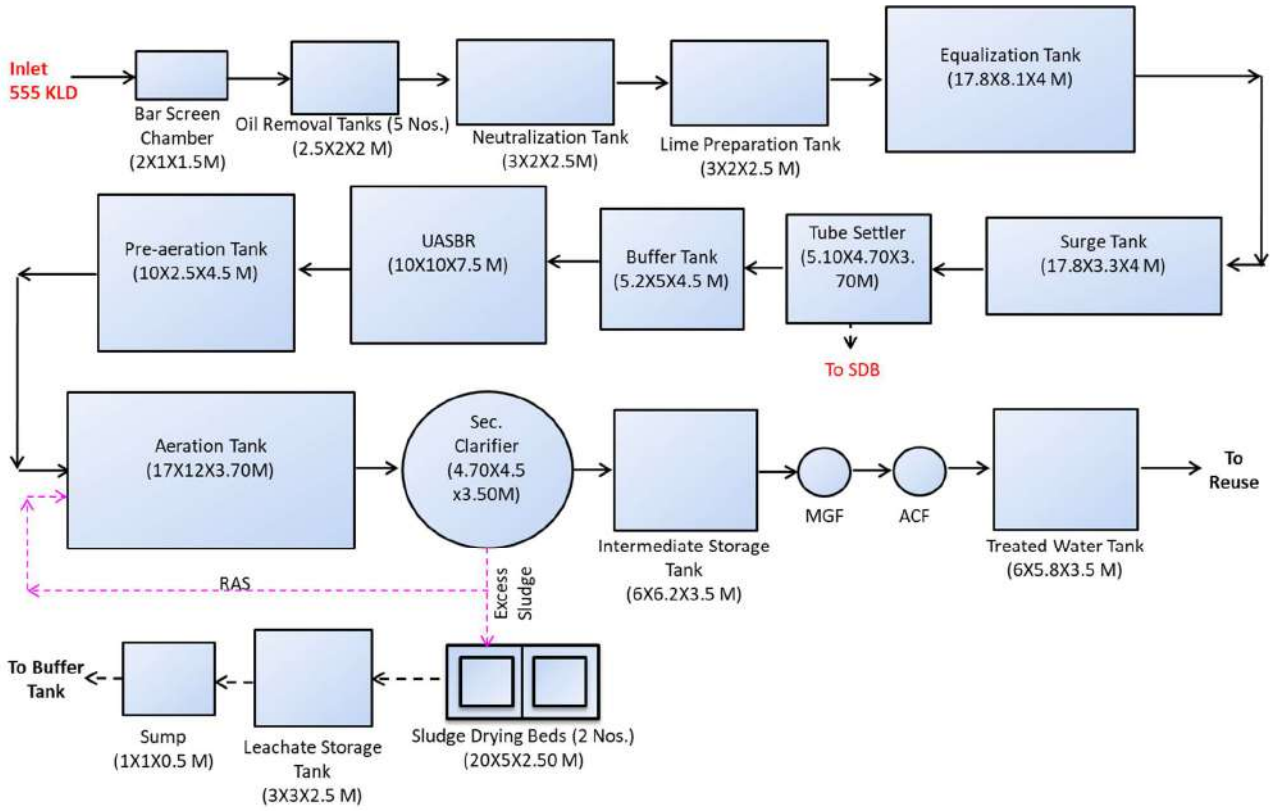


Figure 3 Photos of Existing ETP

Figure 4 Process Flow Diagram of CPU for Distillery (Existing)

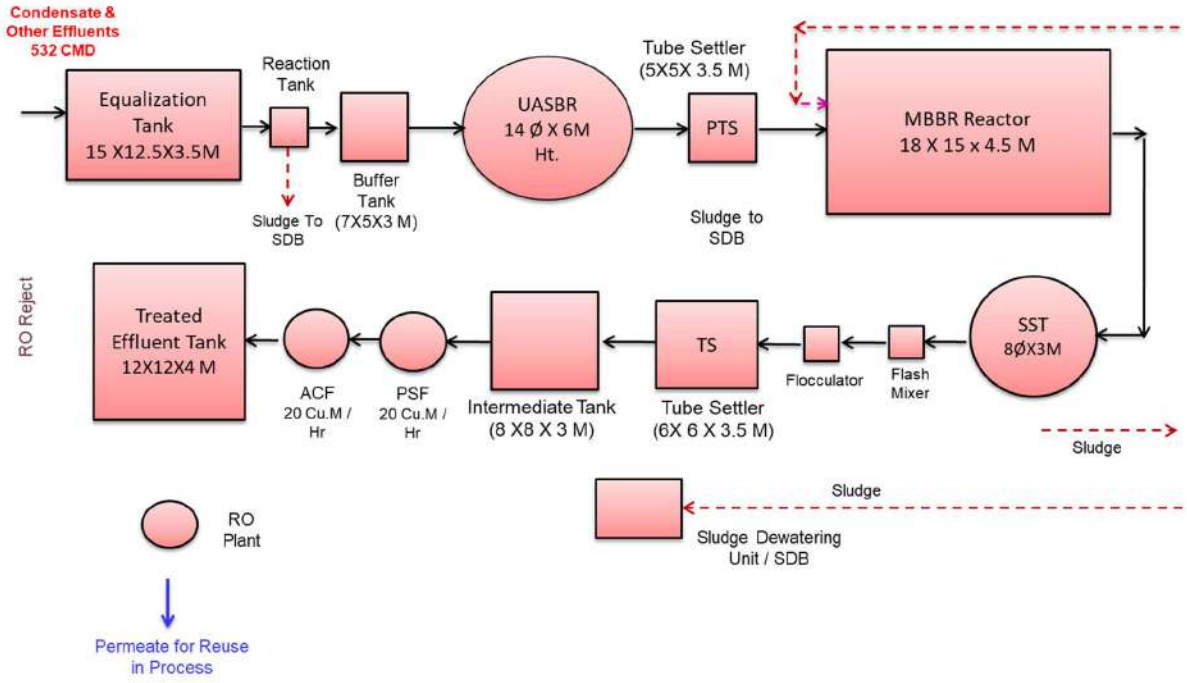


Figure 5 Photos of Existing CPU

Figure 6 Flow Chart of Sugar Factory CPU (Proposed)

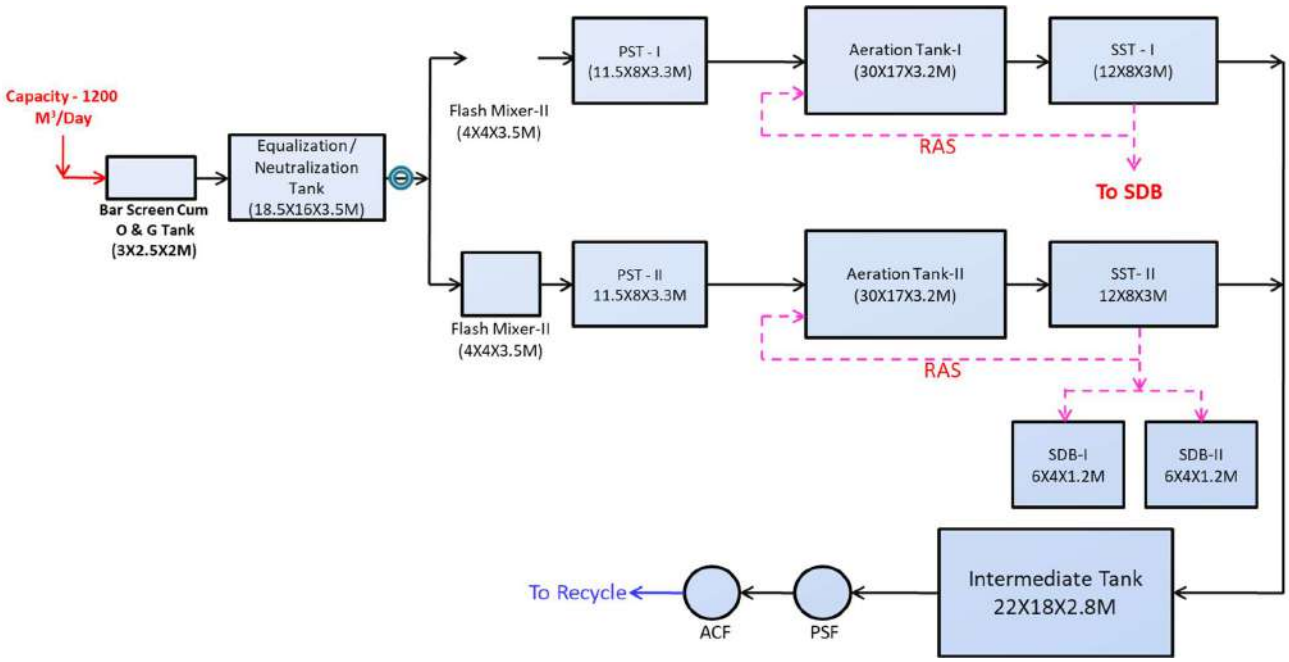
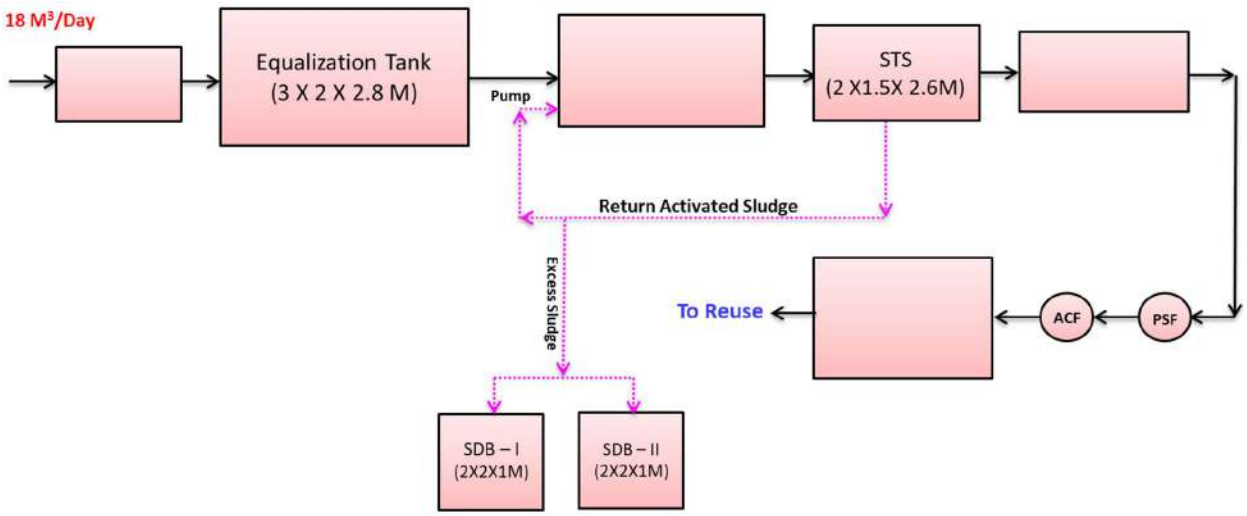


Figure 7 Flow Chart of Proposed STP



B) Air Emissions:

Under existing sugar factory & cogen unit 140 TPH & 30 TPH boiler is installed. Bagasse @ 1271 MT/D & 256 MT/D is used as fuel. APC - ESP & wet scrubber followed by stack of 73 M & 60 M is provided. Further, under existing distillery unit 10 TPH boiler is in operation. Fuel for the same is bagasse 57 MT/D & biogas 1200 NM^3.

Under expansion distillery unit, 20 TPH incineration boiler will be installed. Bagasse/ Coal @ 173 or 50 MT/D will be used as fuel for the same. Boiler will be provided with ESP as APC, preceding the stack of 60 M height.

Presently steam required for existing 4800 TCD sugar factory & 30 KLPD distillery is being taken from existing boilers of capacity 20TPH, 25 TPH, 30 TPH (2 no.)

Under 26 MW cogen unit a new boiler of 140 TPH was installed in October 2019 & steam for existing sugar factory operations is taken from the same boiler. After expansion of sugar factory steam required will be taken from existing 30 TPH & 140 TPH boilers. Details of Boilers are presented at table.

Table 9 Details of Boiler and Stack in SMSNNSSKL

No.	Description	Sugar & Cogen		Distillery		DG Set	
		Existing		Existing	Proposed	Existing	
1	Boiler Capacity	140 TPH	30 TPH	10 TPH (Stand by)	20 TPH	500 KVA	750 KVA
2	Fuel type	Bagasse	Bagasse	Bagasse/ Biogas	Bagasse / (Coal +Sp. Wash)	Diesel	Diesel
3	Fuel Qty., MT/D	1271	256	57/1200 NM^3	173 or (50+134)	100 lit/hr	200 lit/hr
4	MOC	RCC	RCC	MS	MS	MS	MS
5	Shape	Round	Round	Round	Round	Round	Round
6	Height	73 M	60 M	35 M	60 M	3 M (ARL)	3 M (ARL)
7	Diameter	4.0 M	2 M	1.2 M	2 M	200 mm	200 mm
8	APC Equipment	ESP	Wet Scrubber	Wet Scrubber	ESP	--	--

NOTE: 1. Boilers under existing Sugar factory 20TPH, 25TPH, 30TPH(1no.) will be scrapped after the end of crushing season of 2020-21.

Details of air pollution aspect and the control measures are given in Chapter 2, Section 2.7.2.

Figure 8 Existing Boiler & APC

C) Noise Pollution Aspect

1. Sources of Noise

i. In the existing 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 would be developed in phase wise manner in and around the industry. So that it would further attenuate the noise levels.

2. Control Measures

Control through isolation, separation and insulation techniques. PPEs like earmuffs, earplugs etc. will be provided to workers. D.G. Sets are enclosed in a separate canopy to reduce the noise levels.

D) Hazardous Wastes

Different types of hazardous wastes being generated from existing & expansion unit alongwith disposal methods are presented in Table 10.

Table 10 Details of Hazardous Waste

No.	Industrial Unit	Category	Quantity (MT/Yr.)		Disposal
			Existing	After Expansion	
1	Sugar, Co-gen & Distillery	Spent Oil – Cat.5.1	0.5	0.8	Forwarded to authorized reprocessor
		Contaminated Cotton Waste- Cat. 33.3	0.2	0.3	
		Empty Containers-Cat. 33.1	29	45	Forwarded to authorized re-seller

E) Solid Wastes

Table 11 Details of Solid Waste & Disposal

No.	Unit	Type	Quantity (MT/D)		Disposal
			Existing	After Expansion	
1	Sugar Factory	ETP Sludge	0.3	0.5	Used as Manure
		Boiler Ash (Bagasse)	6	6	
2	Co-gen Plant	Boiler Ash (Bagasse)	32	--	Used as Manure
3	Distillery Unit	Ash(Bagasse/ Coal)	1	32	Supplied to Brick / Cement Industry
		Yeast Sludge	5	11	Manure/ Burnt in Incineration boiler
		CPU Sludge	0.3	0.5	

F) Odour Pollution

There are number of odour sources such as molasses handling and storage, fermentation and distillation, secondary effluent treatment, and storage of effluents, stale cane, bad mill sanitation, bacterial growth in interconnecting pipes & unattended drains. Measures adopted under existing unit for controlling same are proper housekeeping, sludge management in biological ETP units, steaming of major pipe lines, regular use of bleaching powder in the drains, efficient handling, prompt & proper disposal of press mud. Under expansion project, 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 expansion.

H) Environmental Management Cell

Industry is already having an EMC functioning under its existing project. Members of the EMC are well qualified and experienced in their concerned fields. This cell shall be further augmented suitably expansion project. The existing and expansion EMC members are as under.

Table 12 Environmental Management Cell

No.	Name of Member	Designation	Number (s)
1	Mr. Rajendra S. Nagawade	Chairman	1
2	Mr. Ramakant S. Naik	Managing Director	1
3	Mr. M. D. Kandekar	Environmental Officer	1
4	Mr. B. S. Lagad	Safety officer	1
5	Mr. B. N. Gore	Distillery Incharge	1
6	Mr. S. V. Dige	Co-gen Manager	1
7	Mr. A. B. Salunke	Chief Chemist	1
		Total	**07**

Details of capital as well as O & M costs towards environmental aspects under the existing sugar, co-generation setup & expansion project are as follows –

Table 13 Capital as well as O & M Cost

No.	Description	Cost Component (Rs. Lakhs)	
		Capital	O & M / Year
A	**Existing**		
1	APC Equipments – Wet Scrubber (2 nos.), ESP (1 nos.), Stack (3nos.- 73, 60 & 35 M), Ash collection system	350.0	50.0
2	Water Pollution Control - ETP & Distillery CPU, MEE	300.0	50.0
3	Noise Pollution Control	10.0	2.0
4	Solid Waste Management	10.0	2.0
5	Occupational Health and Safety	20.0	2.0
6	Green Belt Development	30.0	5.0
7	Environmental Monitoring & Management	15.0	2.0
	Total (4% of Capital Cost)	**735.0**	**113.0**
B	**Expansion**		
1	20 TPH Incineration boiler with APC-ESP & stack 60 M	2500.0	50.0
2	Water Pollution Control – Proposed STP & Sugar CPU	200.0	50.0
3	Noise Pollution Control	10.0	2.0
5	Occupational Health & Safety	30.0	5.0
6	Green Belt Augmentation Plan & Rain Water Harvesting implementation	90.0	20.0
7	Environmental Monitoring & Management	10.0	2.0
	Total (39% of Capital Cost)	**2840.0**	**129.0**

I) Rainwater Harvesting Aspect

- Total area of Plot –3,31,800M^2
- Total Open Space –1,10,346M^2
- Average annual rainfall in the area= 561 mm

A Roof Top Harvesting-

RWH Quantity = 10,000 M^2 X 0.56 M X 0.8

= 4,480 M^3

B Surface Water Harvesting –

1.RWH Quantity from Green Belt = 1,10,207 M^2 X 0.56 M X 0.3
= 18,514.77 M^3

2. RWH Quantity from Roads = 9300 M^2 X 0.56 M X 0.5
= 2,604 M^3

3. RWH Quantity from Open Space = 1,10,346 M^2 X 0.48 M X 0.3
=18,538.12 M^3

Total RWH from Surface Area = 18,514.77 M^3+ 2604 M^3 + 18,538.12 M^3
= **39,656.89 M^3**

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

Rooftop Harvesting	+	**Surface Harvesting**	=	**Total RWH**
4,480 M^3	+	**39,656.89 M^3**	=	**44,136.89 M^3**
			=	**44.1 ML**

J) Green Belt

Table 14 Area Details

No.	List of area	Area (Sq. M.)		
		Existing	**Expansion**	**Total**
1	**Total Plot Area**	**3,31,800**		
2	**Built-up Area**			
	v. Sugar Factory	55,115	3,000	58,115
	vi. Distillery Unit	14,450	1,500	15,950
	vii.Cogen Unit	27,882	--	27,882
	viii. Area under Road	9000	300	9,300
	Total Built-up Area	**1,06,447**	**4800**	**1,11,247**
3	Green Belt Area (33%)	20,000	90,207	1,10,207
4	Total Open Area	2,05,353	--	**1,10,346**

The Criteria for Proposed Greenbelt 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.

Figure 9 Plantation in SMSNNSSKL Premises

K) Socio-Economic Development

Socio economic study was carried out in villages within 10 Km radius of the study area was carried out with the help of a structured close ended interview schedule, comprising of questions in Marathi. The schedule was administered by using Simple Random Disproportionate Sampling Technique. Refer Socio – economic profile in Chapter 3, Section 3.11 of EIA report for detailed information of socio-economic aspect. Observations and conclusions after the socio-economic study are as follows-

i. Industry should contribute towards providing health facility under CER for locals at least through a mobile health van.
ii. Employment should be given to the people from nearby villages considering the SMSNNSSKL environmental impacts on their traditional livelihood and agricultural land.
iii. Good rate to farmers for sugarcane.
iv. ZP / Gram panchayat should make provision for infrastructure like roads, toilets in public places with the help of the factory.
v. To provide radium strips/ flags to sugarcane transportation vehicles by industry to reduce accidents on road.

Company has to make proper plan and budget and implement for community development.

8) ENVIRONMENTAL MONITORING PROGRAM

Reconnaissance of the study area was undertaken in the month of January 2020. Field monitoring for measuring meteorological conditions, ambient air quality, water quality, soil quality and noise levels was initiated in January 2020. Report incorporates the data monitored during the period from January – February – March 2020 and secondary data collected from various sources which include Government Departments related to ground water, soil, agriculture, forest etc.

A. Land Use

Land use study requires data regarding topography, zoning, settlement, industry, forest, roads 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 15 Land Use/ Land Cover

No.	Land Use Land Cover	Area(Ha)	Percentage (%)
1	Built Up Area	1245	3.96
2	Crop Land	16453	52.37
3	Fallow Land	7748	24.66
4	Barren Land	5576	17.75
5	River/Water Bodies	393	1.25
	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, Satara.

Meteorological parameters were monitored during the period January – February – March 2020. Details of parameters monitored, equipments used and the frequency of monitoring have been given in Chapter 3 of the Draft EIA report.

D. Air Quality

This section describes the selection of sampling locations, includes the methodology of sampling and analytical techniques with frequency of sampling. Presentation of results for January – February – March 2020 survey is followed by observations. All the requisite monitoring assignments, sampling and analysis was conducted through the laboratory of Green Enviro safe 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 following table-

Table 16 Ambient Air Quality Monitoring (AAQM) Locations

No.	Location	Distance (Km)	Direction
A1	Industrial Site	--	--
A2	Madhe Vadgaon	3.46	NW
A3	Shindewasti	3.35	NW
A4	Limpangaon	2.70	SE
A5	Mundhekarwadi	3.88	SE
A6	Pachputevadi	3.47	SW
A7	Mhatar Pimpri	3.24	NE
A8	Jangalewadi	1.33	SW

Table 17 Summary of the AAQM Levels for Monitoring Season [January – February – March 2020]

		Location							
		A1	A2	A3	A4	A5	A6	A7	A8
		Industrial Site	Madhe Vadgaon	Shindewasti	Limpangaon	Mundhekarwadi	Pachputevati	Mhatar Pimpari	Jangalewadi
PM_{10} µg/M^3	Max	61.20	60.50	60.60	60.40	59.60	60.30	60.30	60.50
	Min	52.60	54.40	55.60	53.80	51.30	53.80	54.30	55.90
	Avg	56.93	57.88	58.33	57.83	54.92	57.40	57.93	58.08
	98% Percentile	60.83	60.50	60.51	60.35	59.23	60.25	60.07	60.32
$PM_{2.5}$ µg/M^3	Max	22.10	25.30	23.50	20.80	20.80	21.70	21.40	20.80
	Min	15.50	16.50	17.70	16.90	15.60	15.90	17.40	17.00
	Avg	18.38	19.93	19.62	19.29	18.66	19.22	19.73	19.71
	98% Percentile	21.50	23.23	22.12	20.75	20.71	21.29	21.26	20.80
SO_2 µg/M^3	Max	15.60	17.50	15.80	15.50	13.90	15.70	15.30	15.70
	Min	10.20	12.20	11.70	11.40	10.80	11.20	12.10	11.40
	Avg	13.54	14.08	13.83	13.62	12.35	13.60	13.69	14.03
	98% Percentile	15.42	16.72	15.66	15.50	13.85	15.65	15.30	15.61
NOx µg/M^3	Max	19.90	19.70	19.80	19.40	16.90	19.80	19.60	19.20
	Min	15.80	15.60	15.00	15.60	14.40	14.10	15.70	15.00
	Avg	18.26	17.96	17.95	17.90	15.81	16.98	17.55	17.47
	98% Percentile	19.85	19.70	19.80	19.40	16.90	19.57	19.55	19.06
CO	Max	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.080

		Location							
		A1	A2	A3	A4	A5	A6	A7	A8
		Industrial Site	Madhe Vadgaon	Shindewasti	Limpangaon	Mundhekarwadi	Pachputevati	Mhatar Pimpari	Jangalewadi
mg/M^3	Min	0.020	0.020	0.020	0.020	0.020	0.010	0.010	0.010
	Avg	0.056	0.055	0.060	0.050	0.058	0.045	0.049	0.044
	98% Percentile	0.090	0.090	0.090	0.085	0.090	0.081	0.090	0.080

Notes:PM_{10}, $PM_{2.5}$, SO_2 and $NO_x$are computed based on 24 hourly values. ,CO is computed based on 8 hourly values.

Table 18 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

The results observed after monitoring for above locations are well within the limits as per NAAQS. Refer Chapter 3 of EIA report for monitoring results.

A. Water Quality

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

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

Table 19 Monitoring Locations for Ground Water

Station	Geographical Locations	Distance from Site (Km)	Direction from Site
GW1	18°35'2.45"N 74°37'18.74"E	0.63	SSE
GW2	18°35'11.16"N, 74°37'2.84"E	0.41	SSW
GW3	18°35'13.78"N 74°36'50.71"E	0.67	SW
GW4	18°35'33.43"N 74°36'48.14"E	0.78	NW
GW5	18°35'47.93"N 74°37'1.32"E	0.85	NNW
GW6	18°35'34.09"N 74°37'21.55"E	0.47	NNE
GW7	18°35'14.11"N 74°37'40.62"E	0.88	ESE
GW8	18°35'5.19"N 74°37'36.80"E	0.90	SE

Table 20 Monitoring Locations for Surface Water

Station	Station Location	Distance (Km)	Direction	Justification
SW1	Shrigonda	0.41	W	Canal near the project site
SW2	Shrigonda	0.60	SW	Upstream of Nala
SW 3	Rahinjwadi	4.00	WSW	Midstream of Nala
SW 4	Inamgaon	8.00	W	Upstream of Ghod River
SW5	Tandali	6.24	SW	Midstream of Ghod River as well as River - Nala Confluence
SW6	Kashti	7.82	SSW	Downstream of Ghod River

Station	Station Location	Distance (Km)	Direction	Justification
SW7	Santawadi	5.88	SW	Downstream of Nala
SW8	Limpangaon	2.30	SE	South east side pond near the project site

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

B. Noise Level Survey

Study area of 10 Km radius with reference to the expansion 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 arterial 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 21 Noise Sampling Locations

Station	Station Location	Distance (Km)	Direction
N1	Project Site	-	-
N2	Jangalewadi	1.25	SW
N3	Limpangaon	2.7	SE
N4	Mhatar Pimpri	3	NE
N5	Wadgaon Madhe	3.4	NW
N6	Thokralwadi	2.4	W
N7	Pachputewadi	3.5	SW
N8	Shendewadi	4.7	SE

Table 22 Ambient Noise Levels

No.	Location	Average Noise Level in dB(A)					
		L_{10}	L_{50}	L_{90}	$L_{eq(day)}$	$L_{eq(night)}$	L_{dn}
1	N1	56.0	63.1	65.7	72.0	58.3	70.9
2	N2	43.9	46.0	47.6	51.9	40.6	51.4
3	N3	41.5	45.4	46.9	51.3	40.9	51.1
4	N4	43.8	45.3	46.6	50.0	40.9	50.4
5	N5	42.9	46.0	47.1	51.3	41.4	51.4
6	N6	41.6	45.8	47.4	50.3	42.9	51.4
7	N7	43.2	45.4	47.1	49.7	41.8	50.6
8	N8	41.0	46.1	47.6	52.2	42.1	52.1

C. Socio-Economic Profile

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

D. Ecology

Field survey was carried out according to random sampling method for flora, and opportunistic sighting method, and standard point count method for fauna were followed. In general visual observation and estimation method was used for qualitative study of the biota.

Birds and fish were studied being good indicators of local environmental change. Flora, mainly major tree species, was focused on identification and species abundance.

9) ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

A. Impact on Topography

No major topographical changes are envisaged in the acquired area as land was kept vacant for expansion project in existing premises.

B. Impact on Climate

Impact on the climate conditions due to the expansion project activities is not envisaged, as emissions to the atmosphere of flue gases with very high temperatures are not expected.

C. Impact on Air Quality

An area of 10 Km radius with project site at its center was considered to determine the impacts.

i. Baseline Ambient Air Concentrations

24 hourly average concentrations of PM_{10}, $PM_{2.5}$, SO_2 and NOx in Ambient Air, recorded during the field study conducted for the season January – February – March 2020 is considered as baseline values. They represent impact due to operations of existing nearby industries on this region. Average concentrations of above mentioned parameters, at this location, are considered to be the 'Baseline Concentrations' to determine the impact of industrial operations on ambient air quality. Existing baseline concentrations are summarized in following table-

Table 23 Baseline Concentrations (98 Percentile)

Parameter	PM_{10}	$PM_{2.5}$	SO_2	NO_X	CO
98 percentile	65.55µg/m^3	22.57µg/m^3	27.51µg/m^3	31.52µg/m^3	0.754mg/m^3
NAAQS	100 µg/m^3	60 µg/m^3	80 µg/m^3	80 µg/m^3	4 mg/m^3

ii. Air Polluting Sources

As discussed above, under existing sugar factory & cogen unit 140 TPH & 30 TPH boiler is installed. Bagasse @ 1271 MT/D & 256 MT/D is used as fuel. APC - ESP & wet scrubber followed by stack of 73 M & 60 M. Further, under existing distillery 10 TPH boiler is installed. Fuel for the same is bagasse 57 MT/D & biogas 1200 NM3.

Under expansion of sugar & distillery unit, 20 TPH incineration boiler will be installed. Bagasse to the tune of 173 will be used as fuel for the same. Boiler will be provided with ESP as APC, preceding the stack of 60 M height. Coal about 50 MT/D alongwith spentwash about 134 MT/D will be used as fuel.

D. IMPACT ON WATER RESOURCES

i. Impact on Surface Water Resources & Quality

Total water requirement for existing & expansion activities will be 4235 M^3/D. Fresh water taken from Ghod left canal. More details about water budget are presented at Chapter 2 under Section 2.7.1

Total effluent generated from sugar factory and co-gen plant activities after expansion @ 555 M^3/Day shall be forwarded to the existing ETP in the SMSNNSSKL premises.

Raw Spentwash generated about 480 M^3/D, will be forwarded to evaporation and concentration in MEE. Further, concentrated spentwash of 96 M^3/D will be incinerated. Other industrial effluent generated will be 532 M^3/D, will be treated in CPU & recycled back in process to achieve Zero Liquid Discharge (ZLD) for process effluent.

Domestic effluent generated will be 18 M^3/D, treated in proposed STP.

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

ii. Impact on Ground Water Resources & Quality

Water required for the industry will be obtained from Ghod left canal. Permission for water lifting has been obtained from competent authority. No ground water will be extracted for existing as well as proposed project. Moreover, there will not be any discharge of untreated effluent so there will not be any impact on ground water level and quality.

E. IMPACT ON SOIL

Impact on the soil characteristics is usually attributed to air emissions, wastewater discharges and solid waste disposal. Under expansion as well as existing project, as mentioned above, there will not be discharge of any untreated effluent on land. For existing boilers Wet scrubber are installed. Boiler ash from boiler is given to brick manufacturers/used as manure whereas ETP sludge is used as manure. CPU sludge and yeast sludge from distillery will be used as manure. Domestic effluent will be treated in proposed STP. Hence, there will not be any major increase in chemical constituents of soil through deposition of air pollutants/ discharge of wastewater.

G. IMPACT ON NOISE LEVELS

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

H. IMPACT ON LAND USE

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

H. IMPACT ON FLORA AND FAUNA

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

I. IMPACT ON HISTORICAL PLACES

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

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 the members of the local community since the work force have been trained to protect themselves from the possible hazards and thus reducing the actual risk to themselves.

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

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

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

11) SALIENT FEATURES OF EMP

Following routine monitoring programme as detailed in Table 24 shall be implemented at site. Besides to this monitoring, the compliances to all Environmental Clearance (EC) conditions and regular permissions from CPCB /MoEFCC shall be monitored and reported periodically.

Table 24 Plan For Monitoring of Environmental Attributes within Industrial Premises

No.	Description	Location	Parameters	Frequency	Conducted by
1.	Air Emissions	Upwind – 1, Downwind - 2 (Near main gate, Fermentation section, Distillation section)	PM_{10}, $PM_{2.5}$, SO_2, NOx, CO	Monthly	MoEFCC & NABL Approved External Lab
		Study area – (Madhe Vadgaon, Shindewasti, Limpangaon, Mundhekarwadi, Pachputevadi, Mhatar Pimpri, Jangalewadi)		Quarterly	
2.	Stack Emissions	Boiler – 4 No., D.G Set – 2 Nos.	SO_2, SPM, NOx	Monthly	
3.	Noise	Workzone 5 Locations - (Near Main Gate, Near Fermentation Section Distillation section, Boiler, DG set, Turbine)	Spot Noise Level recording; Leq(n), Leq(d), Leq (dn)	Monthly	
		Ambient Noise location - 8		Quarterly	
4.	Drinking water	Canteen	Parameters as per drinking water Std IS10500	Monthly	
5.	Soil	8 locations	pH, Salinity, Organic Carbon, Nitrogen, Phosphorous and Potash	Quarterly	
6.	Water Quality (Ground Water & Surface Water)	Locations in study area - Ground Water and Surface Water	Parameters as per CPCB guideline for water quality monitoring – MINARS/27/2007-08	Quarterly	
7.	Effluent	Treated, Untreated	pH, SS, TDS, COD, BOD, Cl, Sulphates, Oil & Grease.	Monthly	
8.	Waste management	Implement waste management plan that Identifies and characterizes every waste associated with proposed and existing activities and which identifies the procedures for collection, handling & disposal of each waste arising.	Records of Solid Waste Generation, Treatment and Disposal shall be maintained	Twice in a year	By SMSNNSSKL
9.	Emergency Preparedness such as fire fighting	Fire protection & safety measures to take care of fire & explosion hazards, to be assessed & steps taken for their prevention.	On site Emergency Plan, Evacuation Plan, fire fighting mock drills	Twice a year	By SMSNNSSKL
10.	Health Check up	Employees and migrant Labour health check ups	All relevant health check-up parameters as per factories act.	Twice a Year	By SMSNNSSKL
11.	Green Belt	Within Industry premises as well as nearby villages	Survival rate of planted sapling	In consultation with DFO.	By SMSNNSSKL
12.	CER	As per activities	--	Six Monthly	By SMSNNSSKL

सहकार महर्षि शिवाजीराव नारायणराव नागवडे सहकारी साखर कारखाना लिमिटेड

(स.म.शि.ना.ना.स.सा.का.लि.)

गट क्र. ५२/२, मु.श्रिगोंदा फॅक्टरी, ता. श्रिगोंदा, जि. अहमदनगर, महाराष्ट्र राज्य

यांच्या

सध्याच्या साखर कारखान्याची गाळप क्षमता ४८०० टन प्रतिदिन पासून ७५०० टन प्रतिदिन व मोलॅसिस आधारित आसवनी प्रकल्प ३० के.एल.पी.डी. पासुन ६० के.एल.पी.डी. पर्यंत विस्तारीकरण

प्रकल्पाबाबतच्या अहवालाचा सारांश

१)<u>प्रकल्पाविषयी थोडक्यात</u>

सहकार महर्षि शिवाजीराव नारायणराव नागवडे सहकारी साखर कारखाना लिमिटेड(स.म.शि.ना.ना.स.सा.का.लि.), प्रकल्पगट क्र. ५२/२, मु.श्रिगोंदा फॅक्टरी, ता. श्रिगोंदा, जि. अहमदनगर, महाराष्ट्र राज्य येथे उभारणेत आलेला आहे. विस्तारीकरणांतर्गत साखर कारखान्याची ऊस गाळप क्षमता ४८०० टन प्रतिदिन पासून ७५०० टन प्रतिदिन व मोलॅसिसवर आधारित आसवनी प्रकल्प ३० के.एल.पी.डी. पासुन ६० के.एल.पी.डी. करणेचे नियोजन केले आहे. सदर विस्तारीकरण प्रकल्प हा सध्याच्या ४८०० टन प्रतिदिन साखर कारखाना, आसवनी प्रकल्प ३० के.एल.पी.डी. व २६ मे.वॅट सहवीज प्रकल्पाच्या आवरात उभारण्यात येणार आहे.

हा प्रकल्प अहवाल वने, पर्यावरण व हवामान बदल मंत्रालय, नवी दिल्ली यांच्या दि.१४.०९.२००६ रोजीच्या इन्फ्हायरमेंटल इंपॅक्ट असेसमेंट (EIA) नोटीफिकेशन नं.S.O.1533 (E) व त्यानंतरील बदल [दि.१३.०६.२०१९ रोजीच्या नोटीफिकेशन नं.S.O.1960(E)] यानुसार तयार केला आहे. स.म.शि.ना.ना.स.सा.का.लि. यांचे सदर प्रकल्प ५ (j), ५ (g) (i) या व श्रेणी 'अ' मध्ये येतो. प्रस्तावित प्रकल्प राबविताना सुरक्षिततेचे नियम व पर्यावरणाचे संरक्षण करण्याच्या सर्व गोष्टींची खबरदारी घेतली जाईल.

खालील तक्त्यामध्ये गुंतवणुकीचे तपशील दिलेले आहेत.

तक्ता १ गुंतवणुक

क्र	विभाग	भांडवली गुंतवणुक (रू. करोडमध्ये)		
		सध्याची	विस्तारीकरण	एकुण
१	साखर कारखाना	८०.८२	१२.०	९२.८२
२	सहवीज प्रकल्प	९०.०७	-	९०.०७
३	आसवनी प्रकल्प	१५.९८	६०.०	७५.९८
	एकुण	**१८६.८७**	**७२.०**	**२५८.८७**

२) <u>प्रकल्पाची जागा</u>

स.म.शि.ना.ना.स.सा.का.लि. द्वारे प्रकल्पगट क्र. ५२/२, मु.श्रिगोंदा फॅक्टरी, ता. श्रिगोंदा, जि. अहमदनगर, महाराष्ट्र राज्य येथे ३३.१८ हेक्टर एवढी जागा संपादित करणेत आली आहे. सध्याच्या जागेमध्येच साखर कारखाना व आसवनी

प्रकल्पाचे विस्तारीकरण होणार आहे. साखर कारखाना, आसवनी प्रकल्प व सहवीज प्रकल्प यांचे एकुण बांधकाम क्षेत्र ११.१२ हे. इतके आहे. जागेचा ले-आऊट प्लॅन **ॲपेन्डीक्स - ब** येथे जोडला आहे. प्रस्तावित विस्तारीकरण प्रकल्पासाठी आवश्यक असणारे ना हरकत प्रमाणपत्र ग्रामपंचायत लिंपणगाव यांच्याकडून प्राप्त झालेले आहे व ते ई.आय.ए रिपोर्टमध्ये जोडले आहे. जागेसंदर्भातील माहिती खालीलप्रमाणे आहे.

तक्ता २ विविध विभागांच्या क्षेत्राचा तपशील(चर्ग.मी)

क्र.	तपशील	क्षेत्र (चर्ग.मी)		
		सध्याची	प्रस्तावित	एकूण
१	**एकुण क्षेत्र**			**३,३१,८००**
२	बांधकाम क्षेत्र			
	i. साखर कारखाना	५५,११५.०	३,०००.०	५८,११५.०
	ii. आसवनी प्रकल्प	१४,४५०.०	१,५००.०	१५,९५०.०
	iii. सहवीज प्रकल्प	२७,८८२.०	--	२७,८८२.०
	iv. रस्ता क्षेत्र	९,०००.०	३००.०	९,३००.०
	एकूण	१,०६,४४७.०	४,८००.०	१,११,२४७.०
३	हरित पट्टा	२०,०००.०	९०,२०७.०	**१,१०,२०७.०**
४	एकुण खुले क्षेत्र	२,०५,३५३.०	--	**१,१०,३४६.०**

३) <u>प्रकल्प प्रवर्तकांची ओळख</u>

श.म.शि.ना.ना.स.सा.का.लि.च्या प्रवर्तकांना साखर कारखाना, आसवनी प्रकल्प व सहवीज 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. राजेंद्र नागवडे	अध्यक्ष
२.	श्री.रमाकांत नाईक	व्यवस्थापकीय संचालक

४)<u>उत्पादनां विषयी माहिती</u>

श.म.शि.ना.ना.स.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	क्षमता		
		सध्याची गाळप क्षमता ४८०० टि.सी.डी	प्रस्तावित गाळप क्षमता २७०० टि.सी.डी	एकूण गाळप क्षमता ७५०० टि.सी.डी.
साखर कारखाना	साखर (११%)*	५२८ मे.टन/दिन	२९७ मे.टन/दिन	८२५ मे.टन/दिन
	उपउत्पादने			
	मोलॅसिस (४%)*	१९२ मे.टन/दिन	१०८ मे.टन/दिन	३०० मे.टन/दिन
	बगॅस (३०%)*	१४४० मे.टन/दिन	८१० मे.टन/दिन	२२५० मे.टन/दिन
	प्रेसमड (४%)*	१९२ मे.टन/दिन	१०८ मे.टन/दिन	३०० मे.टन/दिन
आसवनी	**उत्पादने व उपउत्पादनांची नावे**	**सध्याची ३० के.एल.पी.डी**	**प्रस्तावित ३० के.एल.पी.डी**	**एकूण ६० के.एल.पी.डी**
	रेक्टीफाइड स्पिरिट (आर.एस.)/एक्स्ट्रा न्युट्रल अल्कोहोल (इ.एन.ए.)	३० कि.ली. /दिन	३० कि.ली. /दिन	६० कि.ली. /दिन
	उपउत्पादने			
	कार्बन डायऑक्साईड	२५ मे.टन/दिन	२५ मे.टन/दिन	५० मे.टन/दिन
	फ्युजल ऑईल	२ मे.टन/दिन	२ मे.टन/दिन	४ मे.टन/दिन
सहवीज	वीज	२६ मे. वॅट / तास	-	२६ मे. वॅट / तास

टिप : *उस गाळपाच्या टक्केवारीत

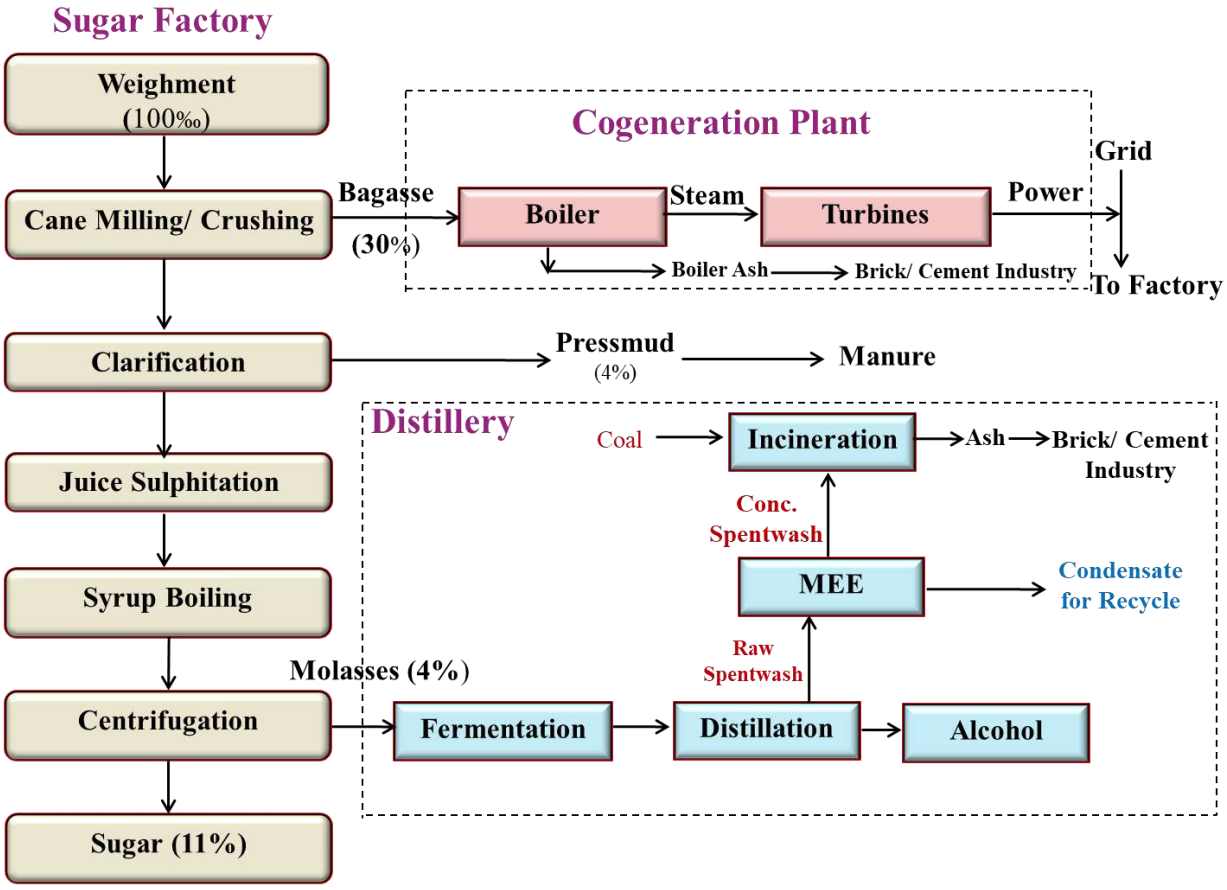
साखर कारखाना, आसवनी प्रकल्प व सहवीज प्रकल्प संदर्भातील उत्पादन प्रक्रिया आणि फ्लोचार्ट ई.आय.ए.रिपोर्ट मध्ये प्रकरण २ येथे जोडलेला आहे.

५) <u>प्रकल्पाचे उद्दिष्ट</u>

- साखर उद्योग हा देशातील दुसरा सर्वात मोठा शेती आधारित उद्योग आहे.
- साखर उद्योग हा रोजगार निर्मिती, उत्पन्न निर्मिती आणि कार्यक्षेत्रामध्ये पायाभुत घटक तयार करण्यासाठी महत्वपूर्ण आहे.
- अल्कोहोलयुक्त पेयांच्या उत्पादनांसाठी ऊसरस, मोलॅसिस, कडधान्ये व इतर कृषी उत्पादने आसवनी उद्योग वापरतो. जगभर वापरल्या जाणा या फरमेंटेड व डिस्टीलड पेयांचे उत्पादन स्थानिक उत्पादित व उत्तम वातावरणीय परिस्थितीत वाढलेल्या कच्या मालांवर आधारित आहे. इथिल अल्कोहोल हे फरमेंटींग मोलॅसिस पासून तयार केले जाते. मोलॅसिस हे साखर कारखान्यामधुन मिळते.
- अल्कोहोल उद्योगाची देशाच्या अर्थव्यवस्थेमधे महत्वाची जागा आहे. अल्कोहोल हे खुप रसायनांमध्ये कच्चा माल म्हणुन वापरले जाते. त्याबरोबरच या व्यवसायामुळे सरकारला मोठया प्रमाणात अबकारी कर वसुल होतो.
- पेट्रोलबरोबर अल्कोहोलचे ब्लेंडींग केलेस पॉवर अल्कोहोल यास्वरूपात अल्कोहोल मध्ये इंधन म्हणुन क्षमता आहे.
- तसेच जपान, यु.एस.ए., कॅनडा, श्रीलंका, इ. देशांमध्ये पेट्रोलियम क्रुड पासुनच्या नॅप्थापासुनचे सिंथेटिक अल्कोहोल ब्रिव्हरेजीससाठी उपयुक्त नसलेने या देशांमधे फरमेंटेड अल्कोहोलला खुप मोठया प्रमाणामध्ये मागणी आहे.

६) उत्पादन प्रक्रिया

आकृती १ उत्पादन प्रक्रिया



७) <u>पर्यावरणविषयक दृष्टिकोन</u>

अ.म.शि.ना.ना.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

अ.म.शि.ना.ना.स.सा.का.लि.यांच्या अध्याच्या व प्रस्तावित प्रकल्पामध्ये होणा-या पाण्याच्या वापराविषयी अधिक्तर तपशील खालीलप्रमाणे -

तक्ता ५ साखर कारखाना व सहपीज प्रकल्पासाठी पाण्याचा वापर

क्र.	तपशील	पाण्याचा वापर (घन मी./दिन)		
		साखर कारखाना		सहपीज प्रकल्प
		सध्याचा प्रकल्प (४८०० मे.टन/दिन)	एकूण विस्तारीकरणानंतर (७५०० मे.टन/दिन)	सध्याचा प्रकल्प (२६ मे. वॅट)
१.	**घरगुती**	१६*	१८(३#+१५$)	३(१#+२$)
२.	**औद्योगिक**			
a.	प्रोसेस	१४१६*	२२११*	--
b.	कुलिंग	१९२*	३००*	४६८*
c.	बॉयलर मेकअप	७२*	७२*	३३६*
d.	डी.एम.बॅकवॉश	१४#	१४#	६७#
e.	लॅब व वॉशिंग	५*	७*	--
f.	ब्रॅश क्वेंचिंग	१*	१*	३*
	औद्योगिकवापर (a+b+c+d+e+f)	**१७०० (१४#+१६८६*)**	**२६०५ (१४#+२५९१*)**	८७४ (६७#+८०७*)
३.	**बाग + हरितपट्टा**	१७#	९०*	--
	एकूण(१+२+३)	**१७३३ (१४#+१७१९*)**	**२७१३ (१७#+२६८१*+१५$)**	८७७ (६८#+८०७*+२$)
	ताज्या पाण्याचा वापर (प्रमाण १०० लि./मे.टन ऊसगाळप)	३ लि./मे.टन	२ लि./मे.टन	--

टीप: #घोड नदीच्या डाव्या कालव्यामधुन, *ऊसामधील कंडेनसेट, $सांडपाणी प्रक्रिया प्रकल्पातून प्रक्रिया केलेले पाणी

तक्ता क्र.६ मोलॅसिस आसवनी प्रकल्पासाठी पाण्याचा वापर

क्र.	तपशील	पाण्याची गरज (घनमीटर/दिन)		
		सध्याची ३० के.एल.पी.डी	एकूण विस्तारीकरणानंतर ६० के.एल.पी.डी	
			ऊस गळित हंगाम दरम्यान	विना ऊस गळित हंगाम
१.	घरगुती	१#	२(१#+१$)	२(१#+१$)
२.	औद्योगिक			
	I. प्रोसेस	२५८♣	४९६♣	४९६♣
	II. कुलिंग	४२#	८४ (२३♣+६१*)	८४ (२३♣+६१#)
	III. बॉयलर मेकअप	२४#	४८*	४८#
	IV. लॅब व वॉशिंग	२♣	३*	३#
	V. डी.एम.बॅकवॉश	५♣	१०*	१०#
	VI. ब्रॅश क्वेंचिंग	१♣	२♣	२♣
	एकूण औद्योगिक वापर	**३३२ (६६#+२६६♣)**	**६४३ (१२२*+५२१♣)**	**६४३ (१२२#+५२१♣)**
	एकूण	**३३३ (६७#+२६६♣)**	**६४५ (१२२*+५२१♣+१#+१$)**	**६४५ (१२३#+५२१♣+१$)**
	पुनर्वापर (%)	८०	१००	८१
	ताज्या पाण्याचा वापर (प्रमाण १० कि. लि./ कि. लि. अल्कोहोल)	२ कि. लि.	० कि. लि.	२ कि. लि.

टीप :# घोड नदीच्या डाव्या कालव्यामधुन , $ शांडपाणी प्रकिया प्रकल्पातून प्रकिया केलेले पाणी.
*ऊसामधून मिळणारे कंन्डेंसेट. ♣आसवनी सी.पी.यु. मधील पुर्नप्रकियित केलेले पाणी.

प्रस्तावित विस्तारीकरणानंतर स.म.शि.ना.ना.स.सा.का.लि.च्या साखर कारखाना व सध्याचा सहवीज प्रकल्पासाठीची पाण्याची एकूण गरज ३५९0 घन मी प्रतिदिन इतकी असेल. यापैकी ३४८८ घनमी.□दिन इतके पाणी हे ऊसामधून व १७ घनमी.□दिन इतके पाणी घरगुती शांडपाणी प्रकल्पात प्रकिया केलेले व ८५ घनमी.□दिन इतके पाणी हे घोड नदीच्या डाव्या कालव्यामधुन घेतले जाईल.

प्रस्तावित विस्तारीकरणानंतर आसवनी प्रकल्पासाठीची पाण्याची एकूण गरज ऊस गळित हंगाम चालू असताना ६४५ घन मी. प्रतिदिन इतकी असेल. ज्यापैकी ५२१ घन मी. प्रतिदिन पाणी सी.पी.यु. मध्ये प्रकिया केलेले असेल, १२२ घन मी. प्रतिदिन ऊसामधील कंडेनसेट असेल, १ घन मी. प्रतिदिन पाणी शांडपाणी प्रकिया प्रकल्पातून व १ घन मी. प्रतिदिन इतके ताजे पाणी घोड नदीच्या डाव्या कालव्यामधुन घेतले जाईल.

प्रस्तावित आसवनी प्रकल्पासाठी ऊस गळित हंगाम बंद असताना ६४५ घन मी. प्रतिदिन इतके पाणी लागेल ज्यापैकी ५२१ घन मी. प्रतिदिन पाणी सी.पी.यु. मध्ये प्रकिया केलेले असेल, १ घन मी. प्रतिदिन पाणी शांडपाणी प्रकिया प्रकल्पातून व १२३ घन मी. प्रतिदिन इतके ताजे पाणी घोड नदीच्या डाव्या कालव्यामधुन घेतले जाईल.

ख. शांडपाणी प्रकिया

१. घरगुती शांडपाणी

स.म.शि.ना.ना.स.सा.का.लि.प्रकल्पामधील सध्याचा साखर कारखाना आणि सहवीज प्रकल्पामधुन १५ घनमीटर प्रतिदिन व सध्याचा आसवनी प्रकल्पामधुन १ घनमीटर प्रतिदिन घरगुती शांडपाणी तयार होते. विस्तारीकरणानंतर प्रकल्पामधुन १८ घनमीटर प्रतिदिन घरगुती शांडपााणी तयार होइल. सध्या तयार होणारे घरगुती शांडपाणी हे सेप्टीक टँक नंतर शोकपीटमध्ये प्रकिया केले जाते. विस्तारीकरणानंतर घरगुती शांडपाण्यावर; प्रस्तावित घरगुती शांडपाणी प्रकिया प्रकल्पामध्ये (एस.टी.पी.) प्रकियीत केले जाईल व हरित पट्टा विकासासाठी वापरले जाईल.

२. औद्योगिक शांडपाणी

स.म.शि.ना.ना.स.सा.का.लि. प्रकल्पामधील साखर कारखाना आणि सहवीज प्रकल्पामधुन ४४७ घन मीटर प्रतिदिन शांडपाणी तयार होईल. विस्तारीकरणानंतर साखर कारखाना आणि सहवीज प्रकल्पामधुन ५५५ घन मीटर प्रतिदिन शांडपाणी तयार होईल. हे शांडपाणी साखर कारखान्याच्या सध्याच्या औद्योगिक शांडपाणी प्रकिया प्रकल्पामध्ये (ई.टी.पी.) मध्ये पाठवले जाईल. प्रकिया केलेले शांडपाणी स्वतःच्या परिसरातील बागेसाठी व हरितपट्टा विकासासाठी वापरले जाईल.

प्रस्तावित विस्तारीकरणानंतर आसवनी प्रकल्पांतर्गत तयार होणारे शांडपाणी ५३२ घन मीटर प्रतिदिन हे स्पेंटलीस, एम.ई.ई. मधील कंडेनसेट, बॉयलर ब्लो डाऊन, कुलिंग ब्लो डाऊन आणि लॅब, वॉशिंग व स्क्रबर च्या स्वरूपात असेल. सर्व शांडपाणी सध्याच्या कंडेनसेट पॉलिशिंग युनिटमध्ये प्रकियीत केले जाईल. प्रकियीत शांडपाणी हे मोलॅसिस डायल्युशन व कुलिंग टॉवर मेकअपसाठी वापरले जाईल.

एकुण ४८० घन.मी.प्रतिदिन इतका रॉ स्पेंटवॉश तयार होईल. स्पेंटवॉश एम.ई.ई.मध्ये इव्हॅपोरेट व कॉन्क्षनट्रेट केला जाईल. कॉन्क्षनट्रेटेड स्पेंटवॉश ९६ घन.मी.प्रतिदिन इनक्षिनरेट केला जाईल.

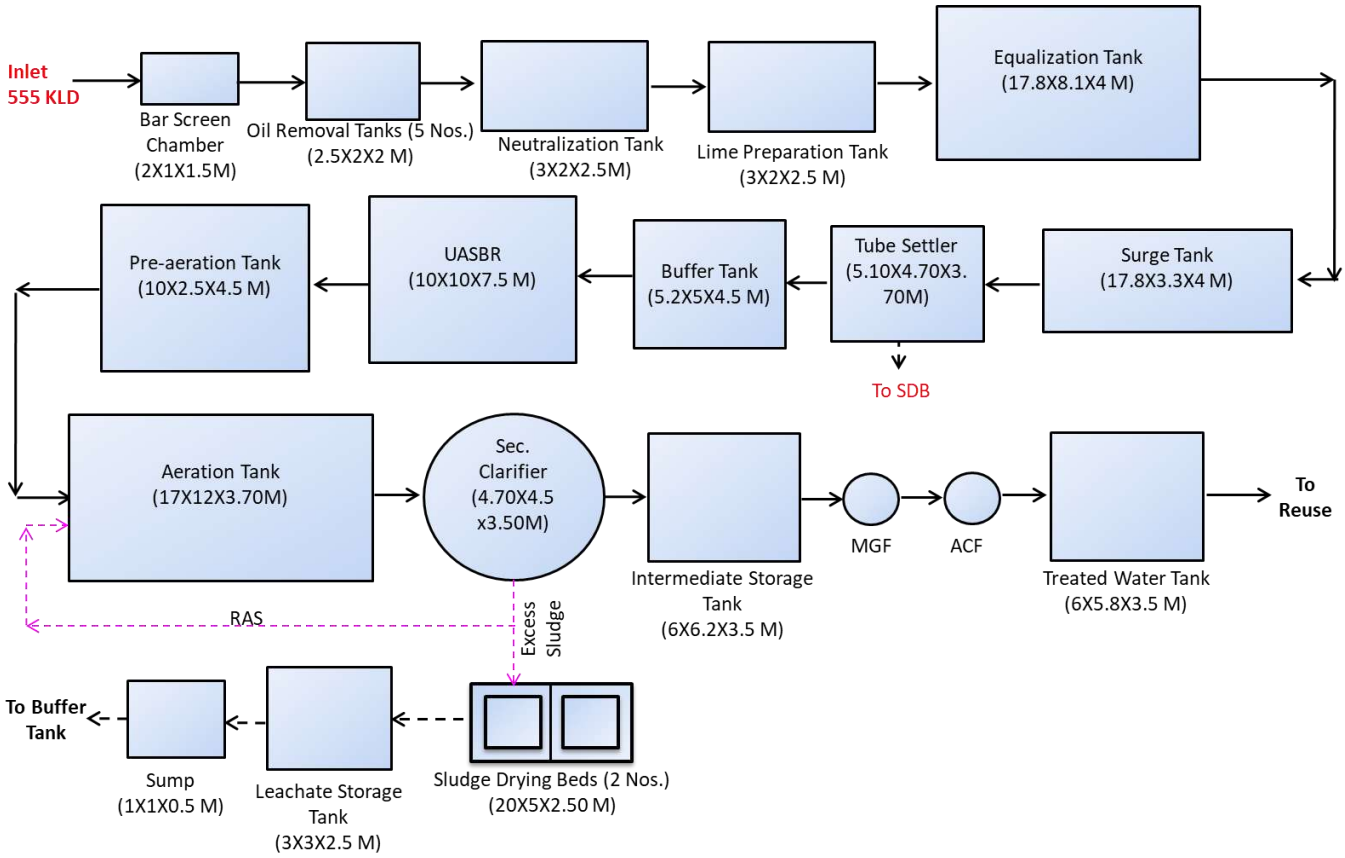
तक्ता ७ साखर कारखाना व सहवीज प्रकल्पामधुन तयार होणारे सांडपाणी

क्र.	तपशील	सांडपाणी(घन. मी. / दिन)			प्रक्रिया
		साखर कारखाना		सहवीज प्रकल्प	
		सध्याचा प्रकल्प (४८00 मे.टन/दिन)	एकूण विस्तारीकरणानंतर (७५00 मे.टन/दिन)	सध्याचा प्रकल्प (२६ मे. वॅट)	
१.	घरगुती	१३	१४	२	प्रस्तावित एक्ष. टी. पी. मध्ये प्रक्रिया
२.	औद्योगिक				
a.	प्रोसेक्ष	२00	२९५	--	कारखान्याच्या सध्याच्या ई.टी.पी. मध्ये प्रक्रिया
b.	कुलिंग	१९	३0	४७	
c.	बॉयलर	२0	२0	७५	
d.	डी.एम.बॅकवॉश	१४	१४	६७	
e.	लॅब / वॉशिंग	५	७	--	
	औद्योगिक एकूण	२५८	३६६	१८९	
	सांडपाणी प्रमाण: १00 लि./मे.टन गाळप	५४	४९	--	

तक्ता ८ प्रस्तावित प्रकल्पाचे सांडपाणी

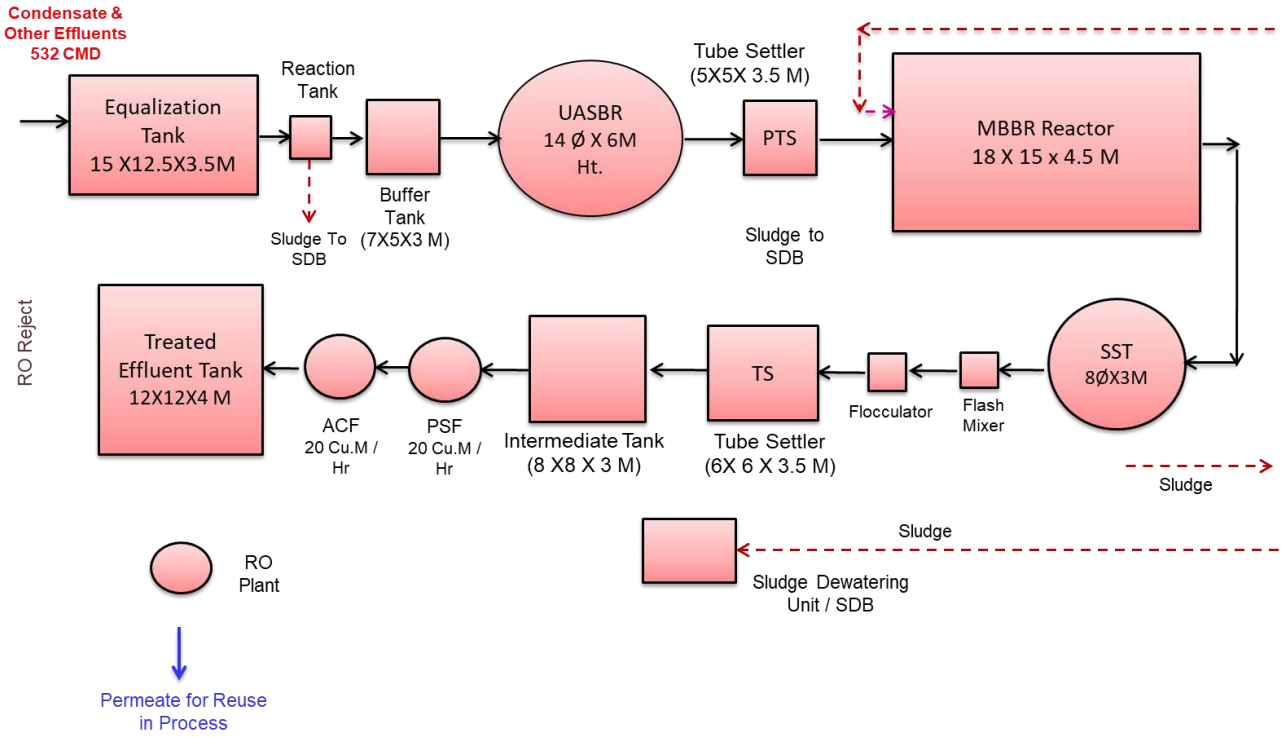
क्र.	तपशील	सांडपाणी घन मी. प्रतिदिन		प्रक्रिया
		सध्याची ३० के.एल.पी.डी	**एकूण विस्तारीकरणानंतर ६० के.एल.पी.डी**	
१.	घरगुती	१	२	प्रस्तावित घरगुती सांडपाणी प्रक्रिया प्रकल्पामध्ये (एस.टी.पी.) प्रक्रियीत केले जाईल
२.	औद्योगिक			
	प्रोसेस	वॉ स्पेंटवॉर्श २४० कॉन्स. स्पेंटवॉर्श ५२	वॉ स्पेंटवॉर्श ४८० कॉन्स. स्पेंटवॉर्श ९६	वॉ स्पेंटवॉश एम.ई.ई.मध्ये इव्हॅपोरेट व कॉन्सनट्रेट केला जाईल. कॉन्सनट्रेटेड स्पेंटवॉश इनसिनरेट केला जाईल.
		कंडेनसेट १८८	कंडेनसेट ३८४	सर्व सांडपाणी कंडेनसेट पॉलिशिंग युनिटमध्ये प्रक्रियीत केले जाईल.
		स्पेंट लीश ६८	स्पेंट लीश ११७	
	कुलिंग ब्लोडाऊन	४	८	
	बॉयलर ब्लोडाऊन	५	१०	
	लॅब वॉशिंग	२	३	
	डि.एम.बॅकवॉश	५	१०	
	एकुण	कॉन्स. स्पेंटवॉश - ५२ **इतर सांडपार्णी** २७२	कॉन्स. स्पेंटवॉश - ९६ **इतर सांडपार्णी** ५३२	

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



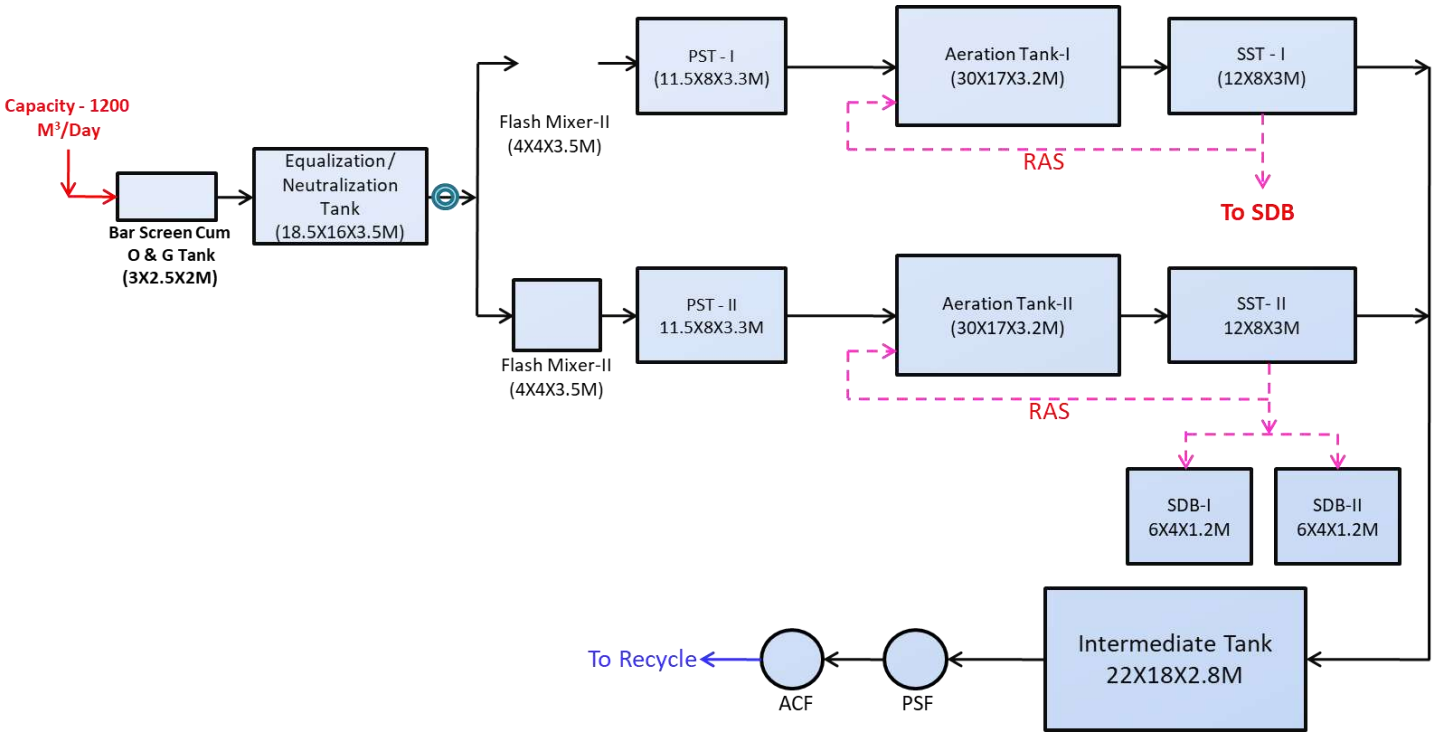
आकृती ३ साखर कारखान्यातील सध्याचा ई.टी.पी.

आकृती ४ आशयनी मधील सध्याचा सी. पी.यु. चा फ्लो चार्ट

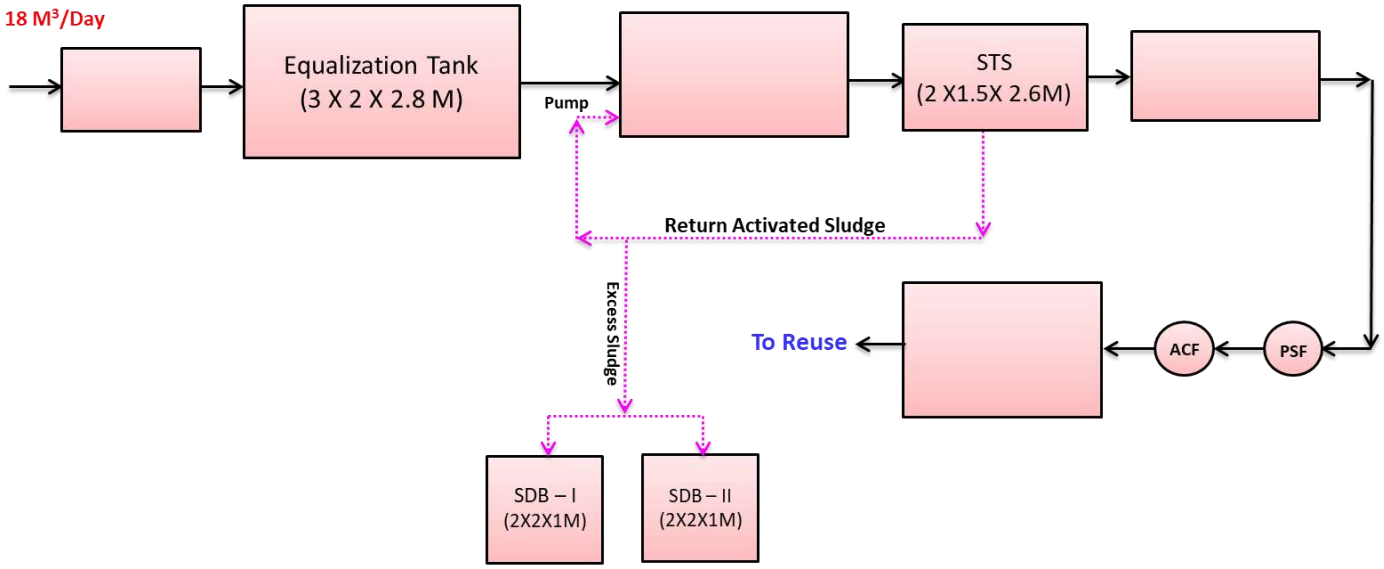


आकृती ५ आशयनी मधील सध्याचा सी. पी.यु.

आकृती ६ साखर कारखान्यातील प्रस्तावित सी.पी.यु. चा फ्लो चार्ट



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



ब. वायु उत्सर्जने

श.म.शि.ना.ना.स.सा.का.लि.मध्ये सध्याच्या साखर कारखाना आणि सहवीज प्रकल्पामध्ये १४० टन प्रति तास व ३० टन प्रति तास क्षमतेचे दोन बॉयलर कार्यरत आहेत ज्यासाठी बगॅस इंधन म्हणून वापरले जाते. या बॉयलरना ई.एस.पी. व वेट स्क्रबर हे प्रदूषण नियंत्रक उपकरण बसवले आहे. प्रदूषण नियंत्रण करण्यासाठी बॉयलरना अनुक्रमे ७३ मी. व ६० मी. उंचीच्या चिमण्या बसवल्या आहेत. तसेच सध्याच्या आसवनी प्रकल्पांतर्गत १० टन प्रति तास क्षमतेचा बॉयलर कार्यरत आहे ज्यासाठी बगॅस व बायोगॅस इंधन म्हणून वापरले जाते.

विस्तारीकरण प्रकल्पांतर्गत २० टन प्रति तास क्षमतेचा इनसिनरेशन बॉयलर बसविला जाईल. ज्यासाठी ५०/१७३ मे.टन.प्रतिदिन कोळसा/बगॅसचोबत १३४मे.टन.प्रतिदिन इतका स्पेंटवॉश इंधन म्हणून वापरला जाईल. त्यासाठी ६० मी. उंचीच्या चिमणी सहित ई.एस.पी. हे वायु प्रदुषण नियंत्रक उपकरण म्हणून वापरले जाईल.

सध्या कारखान्यामध्ये ५०० के.व्ही.ए. व ७५० के.व्ही.ए. क्षमतेचे २ डी.जी. सेट कार्यरत आहेत. विस्तारीकरणांतर्गत कोणताही नवीन डी.जी. सेट बसविला जाणार नाही. हवा प्रदुषण व त्यासंबंधीच्या इतर बाबींची माहीती खालील तक्त्यात दिली आहे.

तक्ता ९ बॉयलरचा व चिमणीचा तपशील

क्र.	तपशील	साखर कारखाना आणि सहवीज प्रकल्प		आसवनी प्रकल्प		डी.जी.सेट	
		सध्याचे		सध्याचे	प्रस्तावित	सध्याचे	
१	जोडले आहे-	बॉयलर १	बॉयलर २	बॉयलर १	बॉयलर २	१	२
२	क्षमता	१४० टन/तास	३० टन/तास	१० टन/तास	२० टन/तास	५०० के. व्ही. ए.	७५० के. व्ही. ए.
३	इंधनाचा प्रकार	बगॅस	बगॅस	बगॅस/ बायोगॅस	बगॅस/(कोळसा/ स्पेंटवॉश)	डीझेल	डीझेल
४	इंधन (मे.टन/दिन)	१२७१	२५६	५७/१२०० NM^3	१७३/(५०+१३४)	१००लि./तास	२००लि./तास
५	बांधणीसाठी वापरलेले मटेरीयल	आर.सी.सी	आर.सी.सी	एम. एस.	एम. एस.	एम. एस	एम. एस
६	आकार (गोल/चौरस)	गोल	गोल	गोल	गोल	गोल	गोल
७	उंची, मी (जमीनीच्या वर)	७३ मी	६० मी	३५ मी	६० मी	३ मी	३ मी
८	चिमणीला बसलेले प्रदूषण नियंत्रणाचे उपकरण	ई. एस. पी.	वेट स्क्रबर	वेट स्क्रबर	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.

आकृती ८ सध्याचा बॉयलर व प्रदूषण नियंत्रक उपकरण

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 सदरील 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.

२. 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.	प्रकल्प	कच-याचा प्रकार	परिमाण (मे.टन /वर्ष)		विल्हेवाट पद्धत
			सध्याचा	विस्तारीकरणानंतर	
१.	साखर कारखाना, आसवनी व सहवीज	५.१ स्पेंट ऑईल	0.५	0.८	आधिकृत पुनर्विकेता
		३३.३ कंटामिनेटेड कॉटन वेस्ट	0.२	0.३	आधिकृत पुनर्विकेता
		३३.१ एम्टी कंटेनर	२९	४५	आधिकृत पुनर्विकेता

फ. घन स्वरूपाचा कचरा

तक्ता ११ घन स्वरूपाच्या कर्च याचा तपशील

क्र.	प्रकल्प	कच-याचा प्रकार	परिमाण (मे.टन /दिन)		विल्हेवाट पद्धत
			सध्याचा	विस्तारीकरणानंतर	
१.	साखर कारखाना	ई.टी.पी. स्लज	0.३	0.५	खत म्हणून वापरले जाईल
		बॉयलरची राख (अनॅश)	६	६	
२.	सहवीज प्रकल्प	बॉयलरची राख (अनॅश)	३२	--	खत म्हणून वापरले जाईल
३.	आसवनी प्रकल्प	बॉयलरची राख (कोळसा+स्पेंटवॉश)	१	३२	पीट निर्मितीसाठी /सिमेंट फॅक्टरी साठी
		यीस्ट स्लज	५	११	खत म्हणून वापर/ बॉयलरमध्ये ज्वलनासाठी
		सी.पी.यु. स्लज	0.३	0.५	

ब. वायुचा उपद्रव

सध्याच्या प्रकल्पांतर्गत पाईप लाईन्स, शांडपाणी साठवणूक, खराब मील सॅनिटेशन आणि दुर्लक्षित ड्रेन्स इ. वायुच्या उपद्रवाचे स्त्रोत असतील. सध्याची पद्धत जसे की नीटनेटके हाऊस किपींग, ई.टी.पी. युनिट मधील मैला व्यवस्थापन, ड्रेन्ससाठी ब्लिचींग पावडरचा वापर हे विस्तारिकरणांतर्गत पाळली जाईल.

भ. नियम व अटींचे पालन

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

म. पर्यावरण व्यवस्थापन विभाग

अ.म.शि.ना.ना.स.सा.का.लि. मध्ये पर्यावरण व्यवस्थापन विभाग कार्यरत आहे. या विभागातील सर्व सदस्य उच्च शिक्षित आणि संबंधीत क्षेत्रातील योग्य तो अनुभव असलेले आहेत. सध्याच्या व प्रस्तावित पर्यावरण व्यवस्थापन विभागामधील सदस्य खालीलप्रमाणे–

तक्ता १२ पर्यावरण व्यवस्थापन विभाग

क्र.	नावे	पदाचे नाव	व्यक्तींची संख्या
१	श्री. राजेंद्र एस. नागवडे	अध्यक्ष	१
२	श्री.रमाकांत एस. नाईक	व्यवस्थापकीय संचालक	१
३	श्री.एम.डी.कान्देकर	पर्यावरणीय अधिकारी	१
४	श्री. बी.एस.लगड	सुरक्षा अधिकारी	१
५	श्री. बी.एन.गोरे	आसवनी प्रभारी	१
६	श्री. एस.पी.दिगे	सहबीज व्यवस्थापक	१
७	श्री. ए.बी.शाळुंखे	मुख्य रसायनतज्ञ	१
		एकुण	**०७**

सध्याच्या व विस्तारीकरण प्रकल्पांमधील पर्यावरण घटकांसाठी व त्यांच्या देखभालीसाठी लागणा-या खर्चाचा तपशील खालीलप्रमाणे:-

तक्ता १३ देखभाली साठीच्या खर्चाचा तपशील

क्र.	तपशील	खर्च (रू. लाख मध्ये)	
		भांडवली गूंतवणूक	वार्षिक देखभाल व दुरूस्ती
अ	**सध्याच्या प्रकल्पासाठी**		
१.	हवा प्रदुषण नियंत्रणासाठी वेट स्क्रबर (२), ई.एस.पी. (१), ७३, ६० व ३५मी. उंचीच्या चिमण्या	३५०.०	५०.०
२.	जल प्रदुषण नियंत्रण ई.टी.पी. व सी.पी.यु. (आसवनी), MEE	३००.०	५०.०
३.	ध्वनी प्रदुषण नियंत्रण	१०.०	२.०
४.	घन कचरा मॅनेजमेंट	१०.०	२.०
५.	व्यवसायविषयक आरोग्य व सुरक्षीतता	२०.०	२.०
६.	हरित पट्टा विकास	३०.०	५.०
७.	एन्व्हायरमेंटल मॉनिटरींग व मॅनेजमेंट	१५.०	२.०
	एकुण	**७३५.०**	**११३.०**
ब	**विस्तारीकरण प्रकल्पासाठी**		
१.	२० टन प्रति तास इनसिनरेशन बॉयलर), ई.एस.पी., ६० मी. उंचीची चिमणी	२५००.०	५०.०
२.	जल प्रदुषण नियंत्रण सी.पी.यु. (साखर कारखाना), एस.टी.पी. (नविन) ची स्थापना	२००.०	५०.०
३.	ध्वनी प्रदुषण नियंत्रण	१०.०	२.०
४.	व्यवसायविषयक आरोग्य व सुरक्षीतता	३०.०	५.०
५.	हरित पट्टा विकास व रेन वॉटर हार्वेस्टिंग	९०.०	२०.०
६.	एन्व्हायरमेंटल मॉनिटरींग व मॅनेजमेंट	१०.०	२.०
	एकुण	**२८४०.०**	**१२९.०**

य) रेनवॉटर हार्वेस्टिंग संकल्पना

- प्रकल्पाचे एकुण क्षेत्र : ३,३१,८०० चर्ग मी.
- एकुण सिकामे क्षेत्र : १,१०,३४६ चर्ग मी.
- सरासरी वार्षिक पाऊस : ५६१ मिमी.

➢ रुफटॉप हार्वेस्टिंग

- रुपटॉप हार्वेस्टिंग क्षेत्र : १०,००० चर्ग मी.

- रूफटॉप हार्वेस्टिंग मधून मिळणारे पाणी - ४,४८० घन मी.

➢ सरफेस हार्वेस्टिंग
- सरफेस हार्वेस्टिंग क्षेत्र - २,२९,८५३ चर्ग मी.
- सरफेस हार्वेस्टिंग मधून मिळणारे पाणी - ३९,६५६.८९ घन मी.

रूफटॉप हार्वेस्टिंग आणी सरफेस हार्वेस्टिंग मधून उपलब्ध होणारे पाणी -
४,४८० + ३९,६५६.८९ = ४४,१३६.८९ घन मी.
म्हणजेच ४४.१ दशलक्ष लिटर्स (ML)

र) हरित पट्टा माहिती

तक्ता १४ क्षेत्रफळाची माहिती

क्र.	तपशील	क्षेत्र (चर्ग.मी)		
		सध्याची	**प्रस्तावित**	**एकूण**
१	**एकुण क्षेत्र**			**३,३१,८००**
२	बांधकाम क्षेत्र			
	i. साखर कारखाना	५५,११५.०	३,०००.०	५८,११५.०
	ii. आसवनी प्रकल्प	१४,४५०.०	१,५००.०	१५,९५०.०
	iii. सहवीज प्रकल्प	२७,८८२.०	--	२७,८८२.०
	iv. रस्ता क्षेत्र	९,०००.०	३००.०	९,३००.०
	एकूण	१,०६,४४७.०	४,८००.०	१,११,२४७.०
३	हरित पट्टा	२०,०००.०	९०,२०७.०	**१,१०,२०७.०**
४	एकुण खुले क्षेत्र	२,०५,३५३.०	--	**१,१०,३४६.०**

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 अशा 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 कार्यक्रमाअंतर्गत विविध जातीच्या झाडांची लागवड केली जाईल.

आकृती ९ सध्याच्या प्रकल्पातील हरित पट्टा

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, खुली गटारे तसेच विखुरलेला घन कचरा व आरोग्य सुविधा यांचा अभाव आहे.
- अपुरी व दुर अंतरावर असणा या आरोग्यसुविधा ही स्थानिकांपुढील सर्वात मोठी समस्या आहे.

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

अभ्यासासाठी निवडलेल्या भागाची पूर्वपाहणी डिसेंबर २०१९ मध्ये करण्यात आली होती.प्रस्तावित प्रकल्पाच्या सभोवतालच्या हवामान परिस्थीतीच्या माहितीसाठी हवा, पाणी व माती स्वरूप इ. गोष्टींचा अभ्यास जानेवारी ते मार्च २०२० मध्ये केला गेला होता. या प्रस्तावामध्ये जानेवारी ते मार्च २०२० 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	१२४५.00	३.९६
२.	लागवडीखालील जमीन	१६४५३.00	५२.३७
३.	शेतीपड जमीन	७७४८.00	२४.६६
४.	नापीक जमीन	५५७६.00	१७.७५
५.	नदी / जलस्त्रोत	३९३.00	१.२५
	एकुण	**३१४१५.00**	**१00 .00**

क. हवामानमाहिती

सदर पाहणीसाठी ब्यूरो ऑफ इंडियन स्टॅन्डर्ड (BIS) आणि इंडियन मेट्रोलॉजी डिपार्टमेंट (IMD) यांनी नमूद केलेली मानके वापरली आहेत. हवामान परिस्थितीच्या माहितीसाठी वेगवेगळ्या हवामान घटकांचा अभ्यास प्रत्यक्ष जागेवरती केला गेला आहे. यासंबंधीची प्रिदतीय स्तरावरील अधिक माहिती ही हवामान विभाग, सातारा येथून घेण्यात आली आहे. त्यामध्ये तापमान, आर्द्रता, पर्जन्यमान इ. बाबींचा समावेश आहे.

वेगवेगळ्या हवामान घटकांचा अभ्यास हा जानेवारी ते मार्च २०२० 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. जानेवारी ते मार्च २०२० या कालावधी मधील निरीक्षणानंतरचे निकाल सादर केले आहेत. सर्व मॉनिटरींग असाइनमेंटस्, नमुने घेणे व त्यांचे पृथःकरण NABL व MoEFCC, New Delhi मान्यता प्राप्त तसेच ISO ९००१ -२०१५ व OHSAS १८००१ – २००७ मानांकित मे. ग्रीन एन्वायरोसेफ इंजिनीअर्स अँड कन्सल्टंटस् 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 वेगवेगळ्या 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	साईट पासूनचे अंतर (कि.मी.)	साईटला अनुसरुन दिशा
A1	साईट	-	-
A2	माधे वडगाव	३.४६	नैऋत्य
A3	शिंदेवस्ती	३.३५	पूर्व
A4	लिंपणगाव	२.७०	आग्नेय
A5	मुंधेकरवाडी	३.८८	वायव्य
A6	पाचपुतेवाडी	३.४७	नैऋत्य
A7	म्हातार पिंपरी	३.२४	उत्तर
A8	जांगळेवाडी	१.३३	ईशान्य

तक्त १७ सभोवतालची हवा गुणवत्ता परिक्षणाची (AAQM) स्थानकांचा सारांश

[January – February – March 2020]

		Location							
		साईट	माथे वडगाव	शिंदेवस्ती	लिंपणगाव	मुंथेकरवाडी	पाचपुतेवाडी	म्हातारा पिंपरी	जांगळेवा डी
PM_{10} µg/M^3	Max.	६१.२0	६0.५0	६0.६0	६0.४0	५९.६0	६0.३0	६0.३0	६0.५0
	Min.	५२.६0	५४.४0	५५.६0	५३.८0	५१.३0	५३.८0	५४.३0	५५.९0
	Avg.	५६.९३	५७.८८	५८.३३	५७.८३	५४.९२	५७.४0	५७.९३	५८.0८
	98% Percentile	६0.८३	६0.५0	६0.५१	६0.३५	५९.२३	६0.२५	६0.0७	६0.३२
$PM_{2.5}$ µg/M^3	Max.	२२.१0	२५.३0	२३.५0	२0.८0	२0.८0	२१.७0	२१.४0	२0.८0
	Min.	१५.५0	१६.५0	१७.७0	१६.९0	१५.६0	१५.९0	१७.४0	१७.00
	Avg.	१८.३८	१९.९३	१९.६२	१९.२९	१८.६६	१९.२२	१९.७३	१९.७१
	98% Percentile	२१.५0	२३.२३	२२.१२	२0.७५	२0.७१	२१.२९	२१.२६	२0.८0
SO_2 µg/M^3	Max.	१५.६0	१७.५0	१५.८0	१५.५0	१३.९0	१५.७0	१५.३0	१५.७0
	Min.	१0.२0	१२.२0	११.७0	११.४0	१0.८0	११.२0	१२.१0	११.४0
	Avg.	१३.५४	१४.0८	१३.८३	१३.६२	१२.३५	१३.६0	१३.६९	१४.0३
	98% Percentile	१५.४२	१६.७२	१५.६६	१५.५0	१३.८५	१५.६५	१५.३0	१५.६१
NOx µg/M^3	Max.	१९.९0	१९.७0	१९.८0	१९.४0	१६.९0	१९.८0	१९.६0	१९.२0
	Min.	१५.८0	१५.६0	१५.00	१५.६0	१४.४0	१४.१0	१५.७0	१५.00
	Avg.	१८.२६	१७.९६	१७.९५	१७.९0	१५.८१	१६.९८	१७.५५	१७.४७
	98% Percentile	१९.८५	१९.७0	१९.८0	१९.४0	१६.९0	१९.५७	१९.५५	१९.0६
CO mg/M^3	Max	0.0९0	0.0९0	0.0९0	0.0९0	0.0९0	0.0९0	0.0९0	0.0८0
	Min	0.0२0	0.0२0	0.0२0	0.0२0	0.0२0	0.0१0	0.0१0	0.0१0
	Avg	0.0५६	0.0५५	0.0६0	0.0५0	0.0५८	0.0४५	0.0४९	0.0४४
	98% Percentile	0.0९0	0.0९0	0.0९0	0.0८५	0.0९0	0.0८१	0.0९0	0.0८0

Note: PM_{10}, $PM_{2.5}$, SO_2 and NO_x are computed based on 24 hourly values.

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
औद्योगिक आणि मिश्रित भाग	100	60	60	40	80	50	80	40	4	4
पर्यावरणदृष्टया संवेदनशिल भाग	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 एन्वायरोसेफ इंजिनीअर्स अँड कन्सल्टंटस प्रा. लि., पुणे यांच्यामार्फत नमुने घेऊन त्यांचे पृथःकरण केले. भूगर्भातील पाण्याच्या नमुना चाचणीसाठी ८ ठिकाणे व भूपृष्ठीय पाण्याच्या नमुना चाचणीसाठी ९ ठिकाणे घेतली होती.

तक्ता १९ भूगर्भातील पाण्यासाठी निवडलेली ठिकाणे

स्थानक सांकेतांक	को-ऑर्डिनेटस अक्षांश व रेखांश	साईट पासुनचे अंतर (कि.मी.)	साईट पासुनची दिशा
GW1	१८°३५'२.४५"N ७४°३७'१८.७४"E	0.६३	ईशान्य
GW2	१८°३५'११.१६"N ७४°३७'२.८४"E	0.४१	ईशान्य
GW3	१८°३५'१३.७८"N ७४°३६'५0.७१"E	0.६७	आग्नेय
GW4	१८°३५'३३.४३"N ७४°३६'४८.१४"E	0.७८	पूर्व
GW5	१८°३५'४७.९३"N ७४°३७'१.३२"E	0.८५	वायव्य
GW6	१८°३५'३४.0९"N ७४°३७'२१.५५"E	0.४७	नैऋत्य
GW7	१८°३५'१४.११"N ७४°३७'४0.६२"E	0.८८	आग्नेय
GW8	१८°३५'५.१९"N ७४°३७'३६.८0"E	0.९0	वायव्य

तक्ता २0 पृष्ठभागावरील पाण्यासाठी निवडलेली ठिकाणे

स्थानक सांकेतांक	स्थानकाचे नाव	साईट पासुनचे अंतर (कि.मी.)	साईट पासुनची दिशा	स्पष्टीकरण
SW1	शिगोंढा	0.४१	ईशान्य	कालवा
SW2	शिगोंढा	0.६0	ईशान्य	नाल्याची वरिल आजु
SW3	शहिंजवाडी	४.00	ईशान्य	नाल्याची मधील आजु
SW4	इनामगाव	८.00	ईशान्य	घोड नदीची वरिल आजु
SW5	तांढळी	६.२४	ईशान्य	घोड नदी तसेच नदी-मध्य नाला संगम
SW6	काश्टी	७.८२	दक्षिण	घोड नदीची खालील आजु
SW7	शान्तावाडी	५.८८	पश्चिम	नाल्याची खालील आजु
SW8	लिंपणगाव	२.३0	अग्नेय	तलाव

फ) ध्वनी पातळीचे सर्वेक्षण

ध्वनी पातळीचे सर्वेक्षणसाठी कारखाना परिसरास केंद्र मानून त्यापासून १0 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	साईट पासुनचे अंतर (कि.मी.)	साईट पासुनची दिशा
N1	साईट	-	-
N2	जांगळेवाडी	१.२५	वायव्य
N3	लिंपणगाव	२.७	नैऋत्य
N4	म्हातार पिंपरी	३	आग्नेय
N5	पडगाव माथे	३.४	आग्नेय
N6	ठोकशलवाडी	२.४	ईशान्य

स्थानक सांकेतांक	स्थानकाचे नाव	साईट पासुनचे अंतर(कि.मी.)	साईट पासुनची दिशा
N7	पाचपुतेवाडी	३.५	वायव्य
N8	शेंडेवाडी	४.७	वायव्य

तक्ता २२ ध्वनी पातळी

ठिकाणे	सरासरी ध्वनी पातळी (डेसिबल)					
	L_{10}	L_{50}	L_{90}	$L_{eq\ (day)}$	$L_{eq\ (night)}$	L_{dn}
N1	५६.०	६३.१	६५.७	७२.०	५८.३	७०.९
N2	४३.९	४६.०	४७.६	५१.९	४०.६	५१.४
N3	४१.५	४५.४	४६.९	५१.३	४०.९	५१.१
N4	४३.८	४५.३	४६.६	५०.०	४०.९	५०.४
N5	४२.९	४६.०	४७.१	५१.३	४१.४	५१.४
N6	४१.६	४५.८	४७.४	५०.३	४२.९	५१.४
N7	४३.२	४५.४	४७.१	४९.७	४१.८	५०.६
N8	४१.०	४६.१	४७.६	५२.२	४२.१	५२.१

ग) सामाजिक आर्थिक रचना

सामाजिक व आर्थिक स्तरावरून त्याभागातील प्रगती दृश्यनास 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. साथोटाच्या गुणात्मक अभ्यासासाठी ढोबळ निरीक्षण पाहणी आणि अंदाज पद्धतीचा अवलंब करण्यात आला. स्थानिक पर्यावरण बदलाचे माझे व पक्षी हे चांगले निदर्श क असल्यामुळे त्यांचा अभ्यास करणेत आला. वनस्पती मुख्यतः मोठया वर्गातील झाडांची ओळख व त्यांचे प्रमाण यांच्याकडे अभ्यास केंद्रित होता.

८) <u>इतर अभ्यास</u>

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 धोका: 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. खामगार व जनतेस धोका: 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.

९) 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 औदयेगिक 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 असणा 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

जानेवारी ते मार्च २0२0 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 दर्शवितात.सध्याचीमुलभूत प्रमाणके ई.आय.ए. रिपोर्ट मधीलप्रकरण ४ तसेच पुढील तक्त्यामध्ये मांडण्यात आली आहेत.

तक्ता २३ मुलभूत प्रमाणके

तपशील	PM_{10}	$PM_{2.5}$	SO_2	NO_X	CO
98 percentile	६५.५५ $\mu g/m^3$	२२.५७ $\mu g/m^3$	२७.५१ $\mu g/m^3$	३१.५२ $\mu g/m^3$	0.७५४ mg/m^3
NAAQS	१00 $\mu g/m^3$	६0 $\mu g/m^3$	८0 $\mu g/m^3$	८0 $\mu g/m^3$	४ mg/m^3

२. हवा प्रदुषणस्त्रोत

सदर प्रकल्पामध्ये २0 टन प्रति तास क्षमतेचा इनसिनरेशन बॉयलर बसविण्यात येईल. प्रस्तावित व सध्याच्या सर्व बॉयलर्स साठी ई.एस.पी. व वेट स्कबर हे प्रदूषण नियंत्रक उपकरण असणार आहे.

ड. जलस्त्रोतावरील परिणाम

१. भुपृष्ठीय जलस्त्रोतावरील परिणाम

सध्याच्या व विस्तारीकरण प्रकल्पांसाठी लागणारे पाणी हे भुपृष्ठीय जलस्त्रोतांमधुन घेण्यात येईल.विस्तारीकरणानंतर साखर कारखाना, आसवनी प्रकल्प व सहवीज प्रकल्पामधुन तयार होणारे एकुण १८ घन मी. प्रतिदिन एवढे सांडपाणी सध्याच्या सांडपाणी प्रक्रिया केंद्रात प्रक्रियीत केले जाईल. घरगुती सांडपाण्यावर प्रस्तावित सांडपाणी प्रक्रिया केंद्रात प्रक्रिया केली जाईल. कोणत्याही प्रकारचे प्रक्रिया न केलेले सांडपाणी नदी अथवा नाल्यामध्ये विसर्जीत करणार नाही.अधिक माहितीई.आय.ए. रिपोर्ट मधील प्रकरण क्र. २ मध्ये देण्यात आली आहे.

२. भूगर्भिय पाण्याच्या गुणवत्तेवर होणारा परिणाम

प्रकल्पांसाठी लागणारे जरूरी पाणी हे घोडचा डावा कालव्यामधुन घेण्यात येईल. 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 साखर कारखाना व सहवीज प्रकल्पातून वर उल्लेख केलेले घटक विसर्जीत होणार नाहीत.बॉयलर्सना ई.एस.पी. व वेट स्कबर बसविले आहेत. बॉयलरची राख व ई.टी.पी. स्लजरूपात घनकचरा निर्माण होईल. बॉयलरची राख वीट निर्मितीसाठी दिली जाई ल 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. शदर प्रकल्पामध्ये मुख्यत: साखर कारखान्यातील मील, कॉम्प्रेसर, बॉयलर, टर्बाइन व डि.जी. सेट हे ध्वनी प्रदूषणाचे मुख्य स्त्रोत ठरतील.सदर 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. सदर

जागेचा औद्योगिक कारणांसाठी वापर करण्यात येत आहे यामुळे जमीन वापरामध्ये बदल अपेक्षित नाही.

ब. झाडांवर व प्राण्यांवर होणारा परिणाम

प्रक्रिया न केलेले सांडपाणी कारखान्याच्या सभोवताली विसर्जित केल्यास पाणी संस्था व त्यावर अवलंबून असलेली जैवविविधतेवर परिणाम संभोवतो. वायु प्रदुषणा संदर्भात 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.

द. ऐतिहासिक ठिकाणावर होणारा परिणाम

प्रकल्पाच्या १० कि.मी क्षेत्रात कोणतेही ऐतिहासिक ठिकाण येत नसलेने ऐतिहासिक ठिकाणावर कोणताही परिणाम अपेक्षित नाही.

११)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	अपविंड - १, डाऊनविंड - २ (मेनगेट जवळ , किण्वन विभाग, आसवनी प्रकल्पाजवळ)	PM_{10}, $PM_{2.5}$, SO_2, NOx, CO	मासिक	MoEFCC & NABL approved Laboratory मधुन
		अभ्यासक्षेत्र (माधे पडगाव, शिंदेवस्ती, लिंपणगाव, मुंधेकरवाडी, पाचपुतेवाडी, म्हातार पिंपरी, जांगळेवाडी)			
२.	चिमणीतुन होणारे उत्सर्जन	बॉयलरच्या ४ चिमण्या, डी.जी. सेटची २ चिमण्या	SO_2, SPM, NOx	मासिक	
३.	ध्वनिगुणवत्ता	मेनगेट जवळ, किण्वन विभाग, साखर गोदाम, बॉयलर, डी. जी. सेट, टर्बाइन विभाग	Spot Noise Level, recording; Leq(n),Leq(d) , Leq(dn)	मासिक	
४.	पिण्याचे पाणी	कारखान्याचे उपहारगृह / वसाहत	Parameters as drinking water standards IS10500	मासिक	
५.	जमीन	८ ठिकाणे	PH, Salinity, Organic Carbon, N.P.K.	मासिक	

क्र.	तपशील	ठिकाण	परिमाणे	वारंवारता	तपासणी
६.	पाण्याचीगुणवत्ता	अभ्यास क्षेत्रामधील ठिकाणे (भुगर्भीय पाणी- ८ ठिकाणे) (पृष्ठभागावरील पाणी- ८ ठिकाणे)	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, प्रकिया आणि विल्हेवाट यांची नोंद	वर्षातून दोनदा	स.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	स.म.शि.ना.ना.स.सा.का.लि. यांचेकडून
१०.	आरोग्य	कारखाण्याचे कामगार आणी स्थलांतरीत कामगारांसाठी आरोग्य शीबीराचे आयोजन	सर्व आरोग्यविषयक चाचण्या	वर्षातून दोनदा	
११.	हरीतपट्टा	कारखान्याच्या परीसरामध्ये आणी शेजारील गावांमधला	झाडे जगण्याचा दर	तज्ञांनुसार	
१२.	सी.ई.आर.	निर्देशाप्रमाणे	--	सहा महिन्यातुन	

Appendix A - Plot Layout

PLOT AREA (PART-A)=425004.16sqm

PLOT AREA (PART-B)= 16.0 HECT.

SR. NO.	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr	SR. NO.	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr	SR. NO.	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr	SR. NO.	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr
1	MAIN FACTORY BLDG		7109.35	16	HOT WATER TANK	15x10	150	31	WEIGH.P	14x3.3	46.2	46	TOILET BLOCK	2x5.7	46.2
2	SPAN	34.4X13	447.2	17	HOT WATER TANK	15x10	150	32	HOSPITAL	7x10	70	47	SUTAR SHED	20.7x74.8	1548.36
3	SHED	6X4	24	18	GANDHAK SHED	7x10	70	33	TIME OFFICE	9.5x24.2	229.9	48	SHED NO-1	64x28	1792
4	TOILET BLOCK	5.5X6.5	35.75	19	OFFICE	6.3x4.5	28.35	34	KRUSHI OFFICE		275.80	49	SHED NO-2	64x28	1792
5	W.TANK	2.38X2.38	5.6644	20	CEMENT STORE	7.8x11	85.8	35	ACCOUNT OFF		264	50	SHED NO-3	49.3x22.3	109.39
6	W.TANK	1.34X2.53	3.3902	21	CAMICAL SHED	10x12.5	125	36	COMPUTAR OFFICE		840	51	SHED NO-4	49.3x22.3	1099.39
7	STEGE	6.3X8.26	52.038	22	FACTORY SHED	40.7x23.3	948.31	37	RECORD OFFICE		715.25	52	SHED NO-5	20.7x50.2	1039.14
8	LOHAR BHATTI	20.5x9	184.5	23	NEW GODAWN	12.5x18.5	231.25	38	GAREGE SHED		264.0	53	SHED NO-6	20.7x50.2	1039.14
9	ENGINEER OFFICE	5.75x21	120.75	24	STORE EXTING	11.5x12.7	146.05	39	CAR GAREGE SHED	11.7x8.8	102.96	54	SHED NO-8		60.31
10	BOILER 5	20.5x22.3	457.15	25	HOUSE SHED	10.5x10.5	110.25	40	WASHING CENTAR	7x10	70	55	EXISTING W. STORGE TANK		
11	CHIMNI BOILER	4x16.7	66.8	26	HOUSE TAYAR.REP	11.3x6.5	73.45	41	GAREGE.OFF	11.5x12.7	146.05	56	EXCISE HOUSE	8.56x18	154.08
12	BAGYS	80.6x66.8	5384.08	27	WATER TANK	8.86x2	17.72	42	TIRANGA	1x1	1	57	TIRAGA	1x1	1
13	BAGYS VISITOR	80.6x66.8	5384.08	28	WEIGH.OFFICE	6x6	36	43	TOILET BLOCK	4.5x2.5	11.25	58	MOLAECS TANK		1256
14	CHUNA BHATTI	3 x 3	9	29	WEIGH.P	14x3.3	46.2	44	CIVIL ENG. OFF		74	59	MOLAECS TANK		1256
15	TOILET BLOCK	1.8x5.8	10.44	30	WEIGH.OFFICE	6x6	36	45	SUTAR HOUSE		75	60	MOLAECS TANK		1256

SR. NO.	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr	SR. NO.	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr	SR. NO.	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr
61	MOLAECS TANK		1256	76	BIO.GAS.SHED	7.3x11.3	82.49	91	PUMP HOUSE	5x3	15
62	MOLAECS TANK		1256	77	DISHLLRY WASH TANK	8.6x28.3	243.38	92	WATER RESER WIRE TANK	24.2x62.2	1505.24
63	MOLAECS TANK	18.6x18.4	342.24	78	DISHLLRY TANK	20x28.3	566	93	SPRE CHINAL		4800
64	TANK	16.4x17.5	287	79	PUMP HOUSE	4.5x4.5	20.25	94	PUMP HOUSE OLD	10 x15	150
65	AERATION TANK	24.5x13	318.5	80	DISHLLRY TANK	15.6x42.3	659.88	95	SPRE POND	83x82	6806
66	SLUDGE TANK	20.6x10.7	220.24	81	TANK	5.2x6.2	32.24	96	CHEMBAR	4.2x3.5	14.7
67	TANK	4.7x10	47	82	TANK	5.2x6.3	32.76	97	BORWELL	5 Nos.	
68	SUGAR ETP	6.7x3.7	24.79	83	STR	4x7	28	98	TBM -2	—	
69	CLARIFIER		6 m dia.	84	COLING TOWER	4.5x4.5	20.25	99	TEMPLE		238
70	SUGAR.ETP.MCC	4.7x5.2	24.44	85	COLING TOWER	5.6x5	28	100	TEMPLE		238
71	BIO-GAS TANK		1270	86	COLING TOWER	5.5x5.5	30.25	101	HOUSE SHED	2.5x17.3	43.25
72	TANK	5 x 5	25	87	DISTILERY		2681	102	HOUSE SHED	2.8x5.3	14.84
73	ETP.MCC.ROOM	6.5x4.5	29.25	88	SPERIT TANK		2681	103	JAKWELL		6m dia.
74	BIO-GAS.TANK		1270	89	GUTAR LINE		10 Nos.				
75	BIO-GAS.TANK		1270	90	STEAM.LINE		2 Nos.	105	WELL		2 Nos.

SR. NO.	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr	SR. NO	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr	SR. NO	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr
106	PUMP HOUSE	4.5x4.5	20.25	121	GANESH KIRANA	11x7	77	136	TEMPLE		238
107	MILL	4.2x7.5	31.5	122	BORWELL	5 nos		137	DUDH DAIRY	12x7	84
108	STON KRESHAR	2.6x6.7	17.42	123	SCHOOL	4.5x5.53	24.885	138	BUS STOP		40
109	TOILET BLOCK	1.3x4	5.2	124	COMAN	0000		139	GUTAR LINE	10 nos	
110	TIRAGA	1 x 1	1	125	WATER TANK	2.29x2.18	4.9922	140	WATER TANK	2x2.71	5.42
111	HAND PUMP	1 nos		126	WATER TANK	3.38x3.5	11.83	141	MD HOUSE	5.5x6.2	34.1
112	RAHUL MOBILE SHOPY	4.5x4.5	20.25	127	TOILET BLOCK	3.9x2.24	8.736	142	D TIPE HOUSE		460
113	CLASSIC JENTS PARLER	4.5x4.5	20.25	128	TAYAR SHED	9.91x4.72	46.7752	143	HIGH SCHOOL		696
114	SHIV PRASAD SARAF	4.84x7.41	35.864	129	DIESEL PUMP OFFICE	9 x 6	36	144	TOILET BLOCK		238
115	LAXMI KIRANA STORE	11x14	154	130	DIESEL PUMP		301.28	145	TOILET BLOCK	10 x 10	100
116	HANUMAN KRUSHI KENDRA	11x5	55	131	SOCITY MHATARA PIMPRI KULTENAGAR	9.91x4.72	46.7752	146	MILL	4.82x8.53	41.1146
117	HOUSE SHED	11x11.27	13.97	132	GEUST HOUSE		230	147	ADVOCET HOUSE	14.5x12.2	176.9
118	DHAWAN HOTEL	11x12	132	133	TBM-3			148	HOUSE SHED	11.65x33	384.45
119	MAHAVIR KIRANA	11x2.5	27.5	134	H. NO. TECAR	8x4.24	33.92	149	TOILET BLOCK	3x4.5	13.5
120	MAHARASTRA KHANAWAL	11x17	187	135	HOUSE SHED	5.27x3.53	18.6031	150	HOUSE COLNY	11.65x33	384.45
196	CONDANSATE POLISHING UNIT	40X50	2000	197	MULTIPLE EFFECT EVOPORATION	24X15	360	198	ETP OUTLET 15 DAYS	60X50	3000
205	EXISTING 30 DAYS	90X50	4500	206	NEW 30 DAYS	50X50	2500	207	SWITCH YARD	100X30	3000
210	LEACHED SUMP	15X4	60								

SR. NO	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr	SR. NO	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr	SR. NO	PARTICULAR	AREA (M) L X B	AREA Sq.Mtr
151	TOILET BLOCK	3x4.5	13.5	166	HOUSE COLNY	13.5X34.85	470.475	181	HOUSE SHED	4.18x13.6	56.848
152	HOUSE COLNY	11.65x33	384.45	167	HOUSE COLNY	11.65x33	384.45	182	SHED	4.4x6.98	30.712
153	HOUSE COLNY	11.65x33	384.45	168	HOUSE COLNY	11.65x33	384.45	183	SHED	3.68x7.39	27.1952
154	HOUSE COLNY	11.65x33	384.45	169	HAND PUMP			184	SHED	4.5x2.5	11.25
155	HOUSE COLNY	11.65x33	384.45	170	DRIN-LINE			185	HOUSE SHED	5.5x2.3	12.65
156	HOUSE COLNY	11.65x33	384.45	171	HOUSE COLNY	11.65x33	384.45	186	HOUSE SHED	5.5x2.3	12.65
157	HOUSE COLNY	11.65x33	384.45	172	HOUSE COLNY	11.65x33	384.45	187	TIRANGA	1 x 1	1
158	HOUSE COLNY	13.5x34.85	470.475	173	HOUSE COLNY	11.65x33	384.45	188	SCHOOL		696
159	HOUSE COLNY	11.65x33	384.45	174	TOILET BLOCK	9.1x3.32	30.312	189	HAND PUMP	5 nos	0000
160	HOUSE COLNY	11.65x33	384.45	175	HOUSE COLNY	11.65x33	384.45	190	TOILET BLOCK	31x6.28	194.68
161	HOUSE COLNY	11.65x33	384.45	176	TOILET BLOCK	4x4	16	191	CANTEEN		176 .
162	HOUSE COLNY	11.65x33	384.45	177	TOILET BLOCK	5.62x2	11.24	192	GATE		225
163	HOUSE COLNY	11.65x33	384.45	178	HOUSE SHED	4.53x6.15	27.8595	193	CO-GEN		10500
164	HOUSE COLNY	11.65x33	384.45	179	HOUSE SHED	3.53x5.83	20.58	194	ASH PIT (BED)	12X12	144
165	HOUSE COLNY	11.65x33	384.45	180	SHED	5.4x9.51	51.354	195	COMPOSTING YARD	125X88.5	11062.5
199	VEHICLE PARKING	10X20	200	200	CO-GEN STACK	4X4	16				
202	GREEN BELT	2 hect		203	MUD STORAGE	140X139.75	19565				
208	BAGASS STORAGE	80.6x66.8	5384.08	209	BIOMETHANED SPANT WASH STORE TANK					27X19	513

LEGEND			LEGEND		
SR. NO.	PARTICULAR	REFERENCES	SR. NO.	PARTICULAR	REFERENCES
1	CONTOUR 5M	101.5	17	GATE	▬
2	CONTOUR 1M	101.4	18	HAND PUMP	⊥
3	ROAD	═	19	BUND	▨
4	CHIMNI.BOILAR	⁞	20	FANCE	-•-•-•-
5	TEMPLE	⌂	21	BIO GAS TANK	◎
6	D.P.	┬	22	WATER TANK	◆
7	ELECTRIC POLE	┴	23	POND	●
8	CANAL	═	24	DIVIDAR	▭
9	BORE WELL	◎	25	JAK WELL	○
10	WELL	⍝	26	L.P.	⊥
11	TBM	☒	27	BAGAS	▨
12	HOUSE / SHOP/LATRIN SCHOOL	▨	28	NILIGIRI TREE	●
14	TIRAGA	⚑	29	TREE	T
15	TREE	●	30	ASHOKA TREE	↟
16	ASHOKA TREE	↟		SPRE CHINAL	▥

AREA STATEMENT

1) ROOF AREA = 4.19 HECT.
2) ROAD AREA = 5.29 HECT.
3) TANK AREA = 3.68 HECT.
4) OPEN SPACE = 37.62 HECT.

TOTAL AREA = 50.78 HECT.

Project Name	SAHKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE SAHAKARI SAKHAR KARKHANA .LTD. SHRIGONDA FACTORY DIS-A.NAGAR
Survey By	**M/s. SARTHI ENGINEERS** (Engineers & Contactors) S.No. 94,FLAT No.19 & 22, BUL.No.-7,INDIRA SHANKAR NAGARI, VATSALYA CHS.,PAUD ROAD, KOTHRUD, PUNE- 38. CELL- 9423007725,9422233033.
DWG NO-1	DATE-03.02.2013

Application for Consent/ Authorisation

Sir,
I/We hereby apply for*

1. Consent to Establish/Operate/Renewal of consent under section 25 and 26 of the Water (Prevention & Control of Pollution) Act, 1974 as amended.

2. Consent to Establish/Operate/Renewal of consent under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended.

3. Authorization/renewal of authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 in connection with my/our/existing/proposed/altered/ additional manufacturing/processing activity from the premises as per the details given below.

Consent Information

UAN No:
MPCB-CONSENT-0000077542

Application submitted on:
26-07-2019

Industry Information

Consent To:
Renewal (Normal)

IIN No.:
100032387010

Submit to:
SRO - Ahmednagar

Type of institution:
Industry

Industry Type:
R12 Sugar (excluding Khandsari)

Category:
Red

Scale:
L.S.I

EC Reqd.
No

EC Obtained
No

EC Ref. No.
-

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

General Information

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

Name
R S NAIK

Address
SHRIGONDA FACTORY

Designation
MANAGING DIRECTOR

Taluka
SHRIGONDA

Area
SHRIGONDA FACTORY

District
Ahmednagar

Telephone
9130009200

Fax
02487252339

Email
bgore310@gmail.com

Pan Number
AAAAS4091E

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

Industry name
S M SHIVAJIRAO NARAYANRAO NAGAWADE SAHAKARI SAKHAR KARKHANA LTD SHRIGONDA FACTORY

Location of Unit

Survey number/Plot Number

SHRIGONDA FACTORY

52 / 2

Taluka

SHRIGONDA

District

Ahmednagar

(b) Details of the planning permission obtained from the local body/Town and Country Planning authority/Metropolitan Development authority/ designated Authority.

Planning permission

Grampanchayat Limpangaon

Planning Authority

Grampanchayat Limpangaon

Name of the local body under whose jurisdiction the unit is located and Name of the licence issuing authority

Name of Local Body

Grampanchayat Limpangaon

Name of the licence issuing authority

IEM

---

3. Names,addresses with Telephone and Fax Number of Managing Director / Managing Partner and officer responsible for matters connected with pollution control and/or Hazardous waste disposal.

Name of Managing Director

R S NAIK

Telephone number

02787252222

Fax number

02487-252339

Officer responsible for day to day business

R S NAIK MANAGING DIRECTOR

4. (a.) Are you registered Industrial unit ?

No

Registration number

ANR/PRG(A)/1 DATE-3.08.1965

Date of registration

Aug 3, 1965

---

5. Gross capital investment of the unit without depreciation till the date of application (Cost of building, land, plant and machinery). (To be supported by an affidavit/undertaking on Rs.20/- stamp paper, annual report or certificate from a Chartered Accountant for proposed unit(s), give estimated figure)

Gross capital (in Lakh)	**** Verified***	**** Terms***	**** Consent Fee***
8967.93	CA Certificate	5	625000.00

---

6. If the site is located near sea-shore/river bank/other water bodies/Highway, Indicate the crow fly distance and the name of the water body, if any.

Distance From	***Distance(Km)***	**** Name***
SH/NH	3.00	Ahmednagar - Daund Highway
River	7.00	Ghod
Human Habitation	2.75	--NA--
Religious Place	0.00	--NA--
Historical Place	0.00	--NA--
Creek/Sea	0.00	--NA--

6b. Enter Latitude and Longitude details of site

Latitude

18.5888

Longitude

74.6198

---

7. Does the location satisfy the Requirements Under relevant Central/State Govt. Notification such as Coastal Regulation Zone. Notification on Ecologically Fragile Area, Industrial Location policy, etc. If so, give details.

Location	***Approved Industry Area***	***Sensitive Area***	***If Yes, Name Of Area***	***Industry Location with Reference to CRZ***
Limpangaon Village Tal. Shrigonda Dist. Ahmednagar	No	No	NA	A1

8. If the site is situated in notified industrial estate,

		Details
(a) Whether effluent collection, treatment and disposal system has been provided by the authority.	No	NA
(b) Will the applicant utilize the system, if provided.	No	NA
(c) If not provided, details of proposed arrangement.	Provision of ETP is there	

9.

(a) Total plot area (in squear meter)	***(b) Built up area and (in squear meter)***	***(c) Area available for the use of treated sewage/ trade effluent for gardening/irrigation. (in squear meter)***
333960.00	96683.00	78301.41 Greenbelt area (33 % of the open space available i.e. 237277.00)

10. Month and year of commissioning of the Unit.

1974-10-19

11. Number of workers and office staff

Workers	***staff***	***Hrs. of shift***	***Weekly off***
289	125	8	Sunday

12.

(a) Do you have a residential colony Within the premises in respect of Which the present application is Made ?	Yes	NA

(b) If yes, please state population staying

Number of person staying	***Water consumption***	***Sewage generation***	***Whether is STP provided?***
	25	20	No

(c) Indicate its location and distance with reference to plant site.

Number of person staying	***Water consumption***
Within Factory Premises	0

13. List of products and by-products Manufactured in tonnes/month, Kl/month or numbers/month with their types i.e.Dyes, drugs etc. (Give figures corresponding to maximum installed production capacity

Products Name and Quantity

Product Name	***UOM***	***Product Name***	***Existing***	***Consented***	***Proposed Revision***	***Total***	***Remarks***
Sugar (excluding Khandsari)	Ton/M	Sugar	11550	11550	4290	15840	

Products Name and Quantity

Product Name	***UOM***	***Quantity***	***Remarks***
MOLASSES	MT/M	5760	NA
PRESS MUD	MT/M	5760	NA
BAGASSE	MT/M	40320	NA

14. List of raw materials and process chemicals with annual consumption corresponding to above stated production figures, in tonnes/month or kl/month or numbers/month.

Name of Raw Material	UOM	Quantity	Hazardous Waste	Hazardous Chemicals	Remarks
SUGAR CANE	MT/M	144000	No	No	NA
PHOSPHORIC ACID	MT/M	0.48	No	No	NA
LIME	MT/M	226.285	No	No	NA
SULPHAR	MT/M	39.77	No	No	NA

15. Description of process of manufacture for each of the products showing input, output, quality and quantity of solid, liquid and gaseous wastes, if any from each unit process.

MANUFACTURING PROCESS ATTACHED

Part B : Waste Water aspects

16. Water consumption for different uses (m3/day)

Purpose	Consumption	Effluent Generation	Treatment	Remarks	Disposal	Remarks
Domestic Pourpose	50	45	Septic Tank & Soak Pit	NA	--NA--	NA
Water gets Polluted & Pollutants are Biodegradable	7446	826	Primary + Secondary + Tertiary	NA	Recycle	Out of 7446 CMD Water loss will be 472 & Recycled water=6148 Dischargeable Efulent=
Water gets Polluted,Pollutants are not Biodegradable & Toxic	0	0	--NA--	NA	--NA--	NA
Industrial Cooling,spraying in mine pits or boiler feed	1609	434	Primary + Secondary + Tertiary	NA	Recycle	Mill House (Mill bearing/Internal Colling/Power Turbine Colling=557) Boiling
Others	0					

17. Source of water supply, Name of authority granting permission if applicable and quantity permitted.

Source of water supply	Name of authority granting permission	Qauntity permitted
Ghod Canal	Sub Divisional Engg. Pune	1040000

18. Quantity of waste water (effluent) generated (m3/day)

Domastic	Boiler Blowdown	Industrial	Cooling water blowdown
45	70	00	434
Process	**DM Plants/Softening**	**Washing**	**Tail race discharge from**
301	00	21	00

* 19. Water budget calculations accounting for difference between water consumption and effluent generated.

Same as Above

20. Present treatment of sewage/canteen effluent (Give sizes/capacities of treatment units).

Capacity of STP (m3/day)

0

Treatment unit	***Size (mxm)***	***Retention time (hr)***
NA	0	0

21. Present treatment of trade effluent (Give sizes/capacities of treatment units) (A schematic diagram of the treatment scheme with inlet/outlet characteristics of each unit operation/process is to be provided. Include details of residue Management system (ETP sludges)

Capacity of ETP (m3/day)

1000

Treatment unit	***Size (mxm)***	***Retention time (hr)***
Bar Screen Chamber	13.5	0.32
Bagesse Trap	16.28	0.39
Oil Skimmer tank	34.52	0.82
Overflow Tank	11.04	0.26
Oil Collection Tank	6	0.14
Equalization Tank	149.1	3.58
Additional Equalization Tank	141.36	3.39
Sugar Tank	221.43	5.31
Primary Clarifier	64	1.29
Anaerobic Filter-1	534.24	12.82
Anaerobic Filter-2	534.24	12.82
Pre-aeration Tank	317.15	7.61
Bio-Tower	216	5.18
Biotower tube settler	69.36	1.66
Aeration Tank	571.2	13.71
Secondary Clarifier	81	1.94
Filter Feed Tank	64.75	1.55
Multimedia Filter	8.67	0.21
Activated Carbon Filter	8.67	0.21
Sludge Drying Beds	150	3.6
Sludge Drying Beds	75	1.8

22.

(i) Are sewage and trade effluents mixed together?	No
If yes, state at which stage-Whether before, intermittently or after treatment.	NA

23. Capacity of treated effluent sump, Guard Pond if any.

Capacity of treated effluent sump (m3)	15 DAYS CAPACITY	
Effluent sump/Guard pond details	Yes	15 DAYS CAPACITY
If yes, state at which stage-Whether before, intermittently or after treatment.	No	NA

24. Mode of disposal of treated effluent With respective quantity, m3/day

(i) into stream/river (name of river)	0	***(ii) into creek/estuary (name of Creek/estuary)***	0
(iii) into sea	0	***(iv) into drain/sewer (owner of sewer)***	0
(v) On land for irrigation on owned land/ase land. Specify cropped area.	TOTAL TREATED WATER WILL BE USED FOR IRRIGATION	***(vi) Connected to CETP***	0
(vii) Quantity of treated effluent reused/ recycled, m3/day Provide a location map of disposal arrangement indicating the outler(s) for sampling. Treated effluent reused / recycled (m3/day)	0		

25. (a) Quality of untreated/treated effluents (Specify pH and concentration of SS, BOD,COD and specific pollutants relevant to the industry. TDS to be reported for disposal on land or into stream/river.

Untreated Effluent

pH	4.5 - 5.5
SS (mg/l)	114
BOD (mg/l)	1650
COD (mg/l)	4080
TDS (mg/l)	2100-2200

Specific pollutant if any	***Name***	***Value***
1	NA	0

Treated Effluent

pH	5.5-8.5
SS (mg/l)	<100
BOD (mg/l)	<100
COD (mg/l)	<250
TDS (mg/l)	<2100

Specific pollutant if any	***Name***	***Value***
1	NA	0

(b) Enclose a copy of the latest report of analysis from the laboratory approved by State Board/ Committee/Central Board/Central Government in the Ministry of Environment expected characteristics of the untreated/treated effluent

NA

26. Fuel consumption

Fuel Type	***UOM***	***Fuel Consumption TPD/LKD***	***Calorific value***
Bagasse	Ton/D	1167.28	2250
Ash content	***Sulphur content***	***Quantity***	***Other (specify)***
1.5	0	1	NA

27. (a) Details of stack (process & fuel stacks: D. G.)

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***

1	Boiler No.1 &2	25&30	Bagasse
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
22	MS	Round	30
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
3.70	219648	150	13.5
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
Wet Scrubber	TPM	Adequate Stack Height	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
2	Boiler No. III	30	Bagasse
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
15	MS	Roud	30
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
3.5	149760	150	13.70
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
Wet Scrubber	TPM	Adequate Stack Height	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
3	Boiler No V	30	Bagasse
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
15	RCC	Round	60
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
3.75	127800	150	14.9
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
Wet Scrubber	TPM	Adequate Stack Hight	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
4	D. G. SET	500 KVA	HSD
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
45	MS	ROUND	5
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
0.1	0	0	0
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	NA	Adequate Stack Height	500 KVA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
5	D. G. SET	400 KVA	HSD
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***

60	MS	ROUND	4
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
0.1	0	0	0
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as Cl2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	NA	Adequate Stack heigh	400 KVA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
6	D.G.SET	400 KVA	HSD
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
50	MS	ROUND	4
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
0.1	0	0	0
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as Cl2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	NA	Adequate Stack Height	400 KVA

27. (B) Whether any release of odoriferous compounds such as Mercaptans, Phorate etc. Are coming out from any storages or process house.

No

28. Do you have adequate facility for collection of samples of emissions in the form of port holes, platform, ladder\etc. As per Central Board Publication “Emission regulations Part-III” (December, 1985)

Poart hole	Yes	***Details***	As per CPCB Norms
Platform	Yes	***Details***	As per CPCB Norms
Ladder	Yes	***Details***	As per CPCB Norms

29. Quality of treated flue gas emissions and process emissions. Quantity of treated flue gas emissions and process emissions.

Sr. No.	***Stack attached to***	***Parameter***	***Concentration mg/Nm3***	***flow (Nm3/hr)***
1	NA	NA	0	0

(Specify concentration of criteria pollutants and industry/process-specific pollutants stack-wise. Enclose a copy of the latest report of analysis from the laboratory approved by State Board/Central Board/ Central Government in the Ministry of Environment & Forests. For proposed unit furnish expected characteristics of the emissions..

NA

Part - D: Hazardous Waste aspect

30. Information about Hazardous Waste Management as defined in Hazardous Waste (Management & Handling) Rules, 1989 as amended in Jan.,2000. Type/Category of Waste as per

Waste (Annually) Schedule I

Cat No	***Type***	***Qty***	***UOM***
5.1	5.1 Used /spent oil	5	Kg/Day
Max	***Method of collection***	***Method of reception***	***Method of storage***

	Manual	Manual	Barrel of Capacity 200Lits

Method of transport	***Method of treatment***	***Method of disposal***
By Road	Nil	Mixed along with bagasse & Burned

Waste (Annually) Schedule II

31. Details about use of hazardous waste

Name of hazardous waste/Spent chemical	***Quantity used/month***	***Party from whom purchased***	***Party to whom sold***
NA	0	NA	NA

32.

a. Details about technical capability and equipments available with the applicant to handle the Hazardous Waste

NA

b. Characteristics of hazardous waste(s) Specify concentration of relevant pollutants. Enclose a copy of the latest report of analysis from the laboratory approved by State Board/Central Board/Central Govt. in the ministry of Environment & Forests. For proposed units furnish expected characteristics

NA

33.

Copy of format of manifest/record Keeping practiced by the applicant.

NA

34.

Details of self-monitoring (source and environment system)

NA

35.

Are you using any imported hazardous waste. If yes, give details.

NA

36.

Copy of actual user Registration/certificate obtained from State Pollution Control Board/Ministry of Environment & Forests, Government of India, for use of hazardous waste.

NA

37.

Present treatment of hazardous waste, if any (give type and capacity of treatment units)

NA

38. Quantity of hazardous waste disposal

(i) Within factory

0

(ii) Outside the factory (specify location and enclose copies of agreement.)

0

(iii) Through sale (enclosed documentary proof and copies of agreement.)

0

(iv) Outside state/Union Territory, if yes particulars of (1 & 3) above.

0

(v) Other (Specify)

0

Part - E: Additional information

39.

a. Do you have any proposals to upgrade the present system for treatment and disposal of effluent/emissions and/or hazardous waste.

NA

b. If yes, give the details with time- schedule for the implementation and approximate expenditure to be incurred on it.

NA

40.

Capital and recurring (O & M) expenditure on various aspect of environment protection such as effluent, emission, hazardous waste, solid waste, tree- plantation, monitoring, data acquisition etc. (give figures separately for items implemented/to be implemented).

Capital Cost for Environment Protection is 5 Crores & O & M cost is 40 Lac

---

41.

To which of the pollution control equipment, separate meters for recording consumption of electric energy are installed ?

ETP & WET SCRUBBER

42.

Which of the pollution control items are connected to D.G. Set (captive power source) to ensure their running in the event of normal power failure

ETP , ONLINE MONITORING SYSTEMS

---

43. Nature, quantity and method of disposal of non- hazardous solid waste generated separately from the process of manufacture and waste treatment. (Give details of area/capacity available in applicant's land)

Type	*Quantity*	*UOM*	*Treatment*	*Disposal*	*Other Details*
Boiler Ash	2749	Ton/Y	Nil	Filter Material for Biocompsting	NA

---

44. Hazardous Chemicals – Give details of Chemicals and quantities handled and Stored.

(i) Is the unit a Majot Accident Hazard unit as per Mfg.Storage Import Hazardous Chemicals Rules ?

NA

(ii) Is the unit an isolated storage as defined under the MSIHC Rules ?

NA

(iii) Indicate status of compliance of Rules 5,7,10,11,12,13 and 18 of the MSIHC Rules.

NA

(iv) Has approval of site been obtained from the concerned authority?

NA

(v) Has the unit prepared an off-site Emergency Plan? Is it updated ?

NA

(vi) Has information on imports of Chemicals been provided to the concerned authority?

NA

(vii) Does the unit possess a policy under the PLI Act?

NA

45. Brief details of tree plantation/green belt development within applicant's premises (in hectors)

Open Space Availability	***Plantation Done On***	***Number of Trees Planted***
237277 Square meter	78301.41 Square meter(33 %)	3370

46.

Information of schemes for waste Minimization, resource recovery and recycling - implemented and to be implemented, separately.

Details Provided in specific section

47.

(a) The applicant shall indicate whether Industry comes under Public Hearing, if so, the relevant documents such as EIA, EMP, Risk Analysis etc. shall be submitted, if so, the relevant documents enclosed shall be indicated accordingly.

NA

(b) Any other additional information that the applicants desires to give

1. Number of Persons staying in colony is mentioned as 1000 It is to be noted that this number includes the total number of workers ingaged in Sugar unit Operations, Co-gen unit operations as well as Distillery unit 2. Area details in the application includes area details of complete project i.e. sugar unit + distillery unit + Co-gen unit + area of administrative & other buildings. The area statement is attached herewith for your reference 3. Number of tree planted i.e. 3370 is the total number of tree plantation in the factory premises

(c) Whether Environmental Statement submitted ? If submitted, give date of submission.

Yes 31.03.2018

48.

I/We further declare that the information furnished above is corect to the best of my/our knowledge.

49.

I/We hereby submit that in case of any change from what is stated in this application in respect of raw materials, products, process of manufacture and
treatment and/or disposal of effluent, emission, hazardous wastes etc. In quality and quantity; a fresh application for Consent/Authorization shall be made and
until the grant of fresh Consent/Authorization no change shall be made.

50.

I/We indertake to furnish any other information within one month of its being called by the Board

Yours faithfully

Signature :
Name : R S NAIK
Designation : MANAGING DIRECTOR

Additional Information

Air Pollution

Sr No.	***Air Pollution Source***	***Pollutants***	***APCS Provided***	***Remark***
1	Boiler No. I & II	TPM	Wet Scrubber	NA
2	Boiler No. III	TPM	Wet Scrubber	NA
3	Boiler No IV	TPM	Wet Scrubber	NA
4	DG set - 3 No. 5	NA	Adequate Stack Height	NA

Separate EM Provided	Yes	***Other Emission Sources***	NA
Measures Proposed	NA	***Foul Smell Coming Out***	No
Air Sampling Facility Details	Port hole,Platform,Ladder are provided.		

D.G. Set Details

Description	***Capacity(KVA)***	***Remarks***
D G. SET -1	400	NA
D G. SET -2	400	NA
D G. SET -3	500	NA

Hazardous Waste Generation

Hazardous Waste	***Quantity***	***UOM***	***Treatment***	***Disposal***	***Other Details***
5.1 Used /spent oil	5	Kg/Day	Nil	Mixed along with bagasse & burned	NA

CHWTSDF Details

Member of CHWTSDF	***CHWTSDF Name***	***Remarks***

Cess Details

Cess Applicable	***Cess Paid***	***If Yes, UpTo***
Yes	Yes	Jan 1 2019 12:00:00:000AM

Legal Actions

Legal Action Taken	***Legal Record Of Company***	***Legal Action Details***	***Remarks***
No			

Sr. No.	Application Unique Number	Industry name and Address	Decision on grant of consent	Consent granted Upto	Remarks / Discussion
16	MPCB-CONSENT-0000077002	Indrajit Power Private Limited, Bhugaon Link Road, Wardha	APPROVED Renewal of consent with increase in CI	31.08.2021	Committee noted that, PP has applied for renewal of consent for 80 MW Power Plant. Committee also noted PP has obtained Environment Clearance, Provided ESP to the Boiler and provided ETP & CAAQMS. Committee further noted that PP has not provided the STP for the treatment of domestic sewage. JVS results are exceeding. Usable Dry fly Ash collection system is not provided. Details of Fly ash utilisation are not submitted. In view of above, it was decided to grant renewal of consent by forfeiting BG towards JVS exceedance & with the condition to obtain action plan for ETP up-gradation, STP provision and dry fly ash collection system within Six-month period &by imposing the BG for compliance of same. Consent shall be issued after obtaining balance consent fees, if any
17	MPCB-CONSENT-0000077542	S M ShivajiiiraoNarayanraoNagawade S. S K. Ltd. Shrigonda Factory, Tal. Shrigonda, Dist. Ahemednagar.	APPROVED Renewal of consent	Up to 31.12.2020	Committee noted that PP has applied for renewal of consent for 4800 TCD sugar unit(Renewal of existing consent of 3500 TCD with amalgamation of first consent to operate of 1300 TCDapplied for renewal vide UAN-53662). Committee also noted about formation of Joint committee for investigation of complaint and their joint visit to the industry on 01-12-2018. Also noted that industry has provided ETP in the form of primary, secondary & tertiary treatment for the treatment of effluent. Treated effluent used for irrigation. Provided Online monitoring system at outlet of ETP & connected to MPCB & CPCB server

Sr. No.	Application Unique Number	Industry name and Address	Decision on grant of consent	Consent granted Upto	Remarks / Discussion
					Committee also noted that the Board had issue CD on 09.01.2019 due to burst of Molasses Tank No.1 & spread ofmolasses in & around the premises. Further, after submission of Compliance report Board has issued Restart Direction on 19.01.2019 Committee also noted that the unit is habitual defaulter and cases are progress in Hon'ble NGT. In view of above it was decided to consider the case for short renewal by forfeiting the BG towards JVS exceedance and by imposing following conditions 1. To comply with the restart direction issued by the Board 2. To submit adequacy report of pollution control system within a month including time bound action plan for ETP up-gradation. 3. Industry shall comply with the action points suggested in the committee's report towards pollution mitigation measures. 4. PP shall submit program for improvement of pollution control system. 5. Consent shall be issued without prejudices with order passed as may be passed by the Hon'ble NGT
18	MPCB-CONSENT-0000077353	M/s Tech Mahindra Ltd., Plot No.1 Rajiv Gandhi Infotech Park , Phase III, Hinjewadi Mulshi.	APPROVED Renewal of consent	UP TO 31.08.2021.	Committee noted that PP has applied for Renewal of Consent for IT software complex. It was also noted that this case was discussed in earlier CAC & decided to issue SCN for refusal of consent due to increase in total construction BUA area by 26,338 M^2 without obtaining valid EC & Consent to Establish, non-provision of Organic waste converter followed by composting facility, increased CI by Rs. 98.67 Crs& non submission of techno-feasibility report of existing STP. Committee further noted that Board has issued SCN & accordingly PP has submitted the compliance report which has taken on

Maharashtra Pollution Control Board

Grams :"PREPOLL"
Tel No. 261 23 45
261 43 48
261 44 59
FAX : 022-261 23 20

Shri Chhatrapati Shivaji Maharaj
Municipal Market Bldg., 4th Floor,
Mata Ramabai Ambedkar Road.,
Bombay-400 001.

RED/MSI

CONSENT TO OPERATE

Consent No. BO/U-Bhi/ /R/C-1161 Dated : 31-7-93

Consent to M/s. Shrigonda S.S.K. Ltd.,
(Distillery Divn.), Shrigonda,
Tq. Shrigonda, Dist. Ahmednagar,

Under Section 26 of the Water (Prevention and Control of Pollution) Act, 1974.

CONSENT is hereby granted TO OPERATE the factory in the Water Pollution Prevention Area of Upper Bhima River Basin subject to the provisions of the Act and the Rules and Orders that may be made thereunder and further subject to the following terms and conditions :-

1. The Consent is granted for a period upto 31-12-1993,

2. The Consent is valid for the manufacture of -
   1) Industrial alchohol - 30,000 BL/day,
   2) Fusel oil - 60 litres/day.

3. The daily quantity of industrial effluent shall not exceed 450 m^3.

4. The daily quantity of domestic effluent shall not exceed 10 m^3.

5. Treatment disposal and implementation period :

   i) Domestic effluent: (a) Treatment : The domestic effluent from the factory shall be treated separately in well designed septic tank to be followed by filters so as to bring the effluent quality of the following standards :-

Total Suspended Solids	Not to exceed	100	mg/l.
B.O.D. 5 days 20^{0}C	Not to exceed	100	mg/l.

   b) Disposal : The treated effluent shall be used on land for gardening.

~~(x implementation period xx~~

Treatment to satisfy Std.	Mode of disposal
(1) B.O.D. less than 30 mg/l. Suspended Solids --- Less than 100 mg/l. pH between 5.5 to 9.0	Into stream
(2) B.O.D. less than 100 mg/l.	On land for crop irrigation.
(3) B.O.D. less than 500 mg/l. (B.O.D. is at 20^0C, 5 days)	Land treatment as secondary treatment system. Controlled and properly designed land treatment system taking into account soil and crop characteristics only will entitle for this limit of 500 mg/l. Regular (monthly) and careful monitoring of run off of leachet and ground water will also be necessary. The drain water from the land treatment system shall have to satisfy limit of 30 mg/l. of BOD and 10 mg/l. of Nitrate (expressed as N.)

~~The applicant shall submit the treatment and disposal option being adopted by them comprising of anaerobic digester and aerobic composting as primary and secondary treatment respectively and the detailed design be submitted for scrutiny to the Board Office.~~

Other parameters which are not mentioned above shall confirm to the IS 2490 : 1981 as notified by the Department of Environment under Environment (Protection) Act, 1986, in Gazette Notification No. CFR 919 (E) dated 12th September, 1988.

Conditions for composting that may be prescribed by Maharashtra Pollution Control Board will have to scrupulously followed.

~~Implementation period : xxx~~

6. The factory authorities shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977.

"The Industry falls in 15th category of industries as per the Water (Prevention and Control of Pollution) Cess Act, 1977 and Cess Amendment Act, 1992. Daily water consumption as per the application is -

a)	domestic	- 10	CMD
b)	industrial processing	-	
	i) generating biodegradable wastes	- 625	CMD
	ii) generating nonbiodegradable wastes	- --	CMD
c)	industrial cooling	- --	CMD

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

7. Conditions for storage of molasses :

a) The molasses required for manufacture of alcohol shall be properly collected and stored in steel tanks which shall be absolutely leak proof. At no stage of handling of molasses, there shall be any leakage or spillage.

b) The capacity of tanks for storage of molasses shall be equal to 100% of total annual requirement of molasses such that at no time the molasses shall be required to be stored in kutcha pits.

c) All the area on which molasses are stored and handled should be provided with drain for diverting the spills to the treatment plant.

d) Destruction of molasses and its disposal on land or in surface waters shall not be done without specific permission in writing from the authorised officer of the Board. Intimation of intention to destroy or dispose off the molasses shall be given to the Board atleast 15 days in advance by registered post under intimation to the Sub-Regional Officer and Regional Officer of the Board under whose jurisdiction the factory is situated.

e) 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 the Bombay Molasses Rules 1955 and Maharashtra Molasses Storage and Supply Regulation 1965.

f) 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.

8. The factory authorities shall also comply with the provision of The Environment (Protection) Act, 1986 and the Rules made thereunder from time to time including Hazardous Waste (Management and Handling) Rules, 1989, and Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.

9. The industry shall comply with the conditions relating to Air Pollution Control ~~stipulated under Annexure~~ and Treatment Method as per Annexure-III.

10. The industry shall comply with the standards for emission and discharge of environmental Pollutants specified under the Environment (Protection) Rule and Amendments to them from time to time.

11. The factory authorities shall install a separate meter showing the consumption of energy for operation of domestic and idustrial effluent treatment plants. The quarterly returns of this consumption shall be submitted to Board under intimation to respective Regional and Sub-Regional Officer on 10th of January, April, July and October.

12. The applicant shall also comply with the General conditions a per Annexure-I enclosed.

Dated this the 21st day of July-93

For and on behalf of the
Maharashtra Pollution Control Board,

(D. R. Rasal)
Member Secretary.

D. A. 1) One-proforma for Progress-report
2) Annexture-I & III.

To

M/s. Shrigonda S.S.K. Ltd.,
(Distillery Divn.),
Shrigonda,
Dist. Ahmednagar

Copy forwarded with compliments to :

1. The Collector, Ahmednagar.
2. The Dist Health Officer, Z.P. Ahmednagar.
3. The General Manager, D.I.C. Ahmednagar.
4. The Director/Deputy Director, Industrial Safety & Health. Ahmednagar.

Copy to :

1. The C.A.O. M.P.C. Board, Bombay
   The Consent fee of Rs. 5000/- received vide D.D.No. 128971 & 570442 dated 1-3-93 & 3.3.93n State Bank of India.
2. The Regional Officer, M.P.C. Board. Nashik.
3. The Sub-Regional Officer, M.P.C. Board. Nashik.
4. Cess Wing/Statistical Wing/H.W.M.Wing/Air Wing, M.P.C.Board.

Annexure-III

The distilleries shall follow following methods :

i) Concentration-evaporation-incineration method is recommended for any location.

ii) Aerobic composting employing certified, special microbial culture and fully mechanised aeration system is recommended as complete treatment provided dry, granular end-product is obtained.

iii) Any composting method which does not employ certified culture and fully mechanised aeration is recommended only as a secondary treatment.

In order to accept this (iii) above, there shall be a preceeding primary treatment of following description :

In case of a new distillery, bio-methanisation as primary treatment.

In case of existing distillery open anaerobic digestion impervious lagoons may be accepted as a primary treatment upto 1993, with a proviso that the lagoon be maintained to bring the BOD value down atleast to a level of 8000 mg/lit.

Methane bio-digester as a primary treatment followed by systematic dilution and irrigation by good agricultural practices is recommended only for existing distilleries.

Application for Consent/ Authorisation

Sir,
I/We hereby apply for*

1. Consent to Establish/Operate/Renewal of consent under section 25 and 26 of the Water (Prevention & Control of Pollution) Act, 1974 as amended.

2. Consent to Establish/Operate/Renewal of consent under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended.

3. Authorization/renewal of authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 in connection with my/our/existing/proposed/altered/ additional manufacturing/processing activity from the premises as per the details given below.

Consent Information

UAN No:
MPCB-CONSENT-0000077564

Application submitted on:
27-07-2019

Industry Information

Consent To:
Renewal (Normal)

IIN No.:

Submit to:
SRO - Ahmednagar

Type of institution:
Industry

Industry Type:
R60 Distillery (molasses / grain /yeast based)

Category:
Red

Scale:
L.S.I

EC Reqd.
No

EC Obtained
Yes

EC Ref. No.
No

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

General Information

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

Name
R S NAIK

Address
SHRIGONDA FACTORY

Designation
MANAGING DIRECTOR

Taluka
SHRIGONDA

Area
SHRIGONDA FACTORY

District
Ahmednagar

Telephone
9130009200

Fax
02487252339

Email
bgore310@gmail.com

Pan Number
AAAAS4091E

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

Industry name
S M SHIVAJIRAO NARAYANRAO NAGAWADE SAHAKARI SAKHAR KARKHANA LTD

Location of Unit

Survey number/Plot Number

SHRIGONDA FACTORY	52 / 2

Taluka
SHRIGONDA

District
Ahmednagar

(b) Details of the planning permission obtained from the local body/Town and Country Planning authority/Metropolitan Development authority/ designated Authority.

Planning permission
Grampanchyat Limpangaon

Planning Authority
Grampanchyat Limpangaon

Name of the local body under whose jurisdiction the unit is located and Name of the licence issuing authority

Name of Local Body
Grampanchyat Limpangaon

Name of the licence issuing authority
IEM

---

3. Names,addresses with Telephone and Fax Number of Managing Director / Managing Partner and officer responsible for matters connected with pollution control and/or Hazardous waste disposal.

Name of Managing Director
R S NAIK

Telephone number
02487252242

Fax number
0248725339

Officer responsible for day to day business
R S NAIK MANAGING DIRECTOR

4. (a.) Are you registered Industrial unit ?

Yes

Registration number
ANR/PRG(A)/1 DATE-3.08.1965

Date of registration
Aug 3, 1965

---

5. Gross capital investment of the unit without depreciation till the date of application (Cost of building, land, plant and machinery). (To be supported by an affidavit/undertaking on Rs.20/- stamp paper, annual report or certificate from a Chartered Accountant for proposed unit(s), give estimated figure)

Gross capital (in Lakh)	**** Verified***	**** Terms***	**** Consent Fee***
1598.78	CA Certificate	1	250000.00

---

6. If the site is located near sea-shore/river bank/other water bodies/Highway, Indicate the crow fly distance and the name of the water body, if any.

Distance From	***Distance(Km)***	**** Name***
SH/NH	3.00	Ahmednagar - Daund Highway
River	7.00	Ghod
Human Habitation	2.75	--NA--
Religious Place	0.00	--NA--
Historical Place	0.00	--NA--
Creek/Sea	0.00	--NA--

6b. Enter Latitude and Longitude details of site

Latitude
18

Longitude
74

---

7. Does the location satisfy the Requirements Under relevant Central/State Govt. Notification such as Coastal Regulation Zone. Notification on Ecologically Fragile Area, Industrial Location policy, etc. If so, give details.

Location	***Approved Industry Area***	***Sensitive Area***	***If Yes, Name Of Area***	***Industry Location with Reference to CRZ***
SHRIGONDA FACTORY	No	No	NA	A1

---

8. If the site is situated in notified industrial estate,

		Details
(a) Whether effluent collection, treatment and disposal system has been provided by the authority.	No	NA
(b) Will the applicant utilize the system, if provided.	No	NA
(c) If not provided, details of proposed arrangement.	Provision of ETP is there Biomethanation followed by Multieffect evaporator followed by composting	

9.

(a) Total plot area (in squear meter)	***(b) Built up area and (in squear meter)***	***(c) Area available for the use of treated sewage/ trade effluent for gardening/irrigation. (in squear meter)***
33396.00	96683.00	Zero Liquid Discharge will be achieved.

10. Month and year of commissioning of the Unit.

1985-10-19

11. Number of workers and office staff

Workers	***staff***	***Hrs. of shift***	***Weekly off***
18	6	8	Sunday

12.

(a) Do you have a residential colony Within the premises in respect of Which the present application is Made ? No

(b) If yes, please state population staying

Number of person staying	***Water consumption***	***Sewage generation***	***Whether is STP provided?***
	25	20	No

(c) Indicate its location and distance with reference to plant site.

Number of person staying	***Water consumption***
Shrigonda Factory Tal Shrigonda Dist Ahmednagar	0.5

13. List of products and by-products Manufactured in tonnes/month, Kl/month or numbers/month with their types i.e.Dyes, drugs etc. (Give figures corresponding to maximum installed production capacity

Products Name and Quantity

Product Name	***UOM***	***Product Name***	***Existing***	***Consented***	***Proposed Revision***	***Total***	***Remarks***
Distillery including Fermentation Industry	KLtr.	Rectified Spirit	0	900	0	900	

Products Name and Quantity

Product Name	***UOM***	***Quantity***	***Remarks***
FUSEL OIL	KLtr.	40	
ENA	Ltr/A	600	

14. List of raw materials and process chemicals with annual consumption corresponding to above stated production figures, in tonnes/month or kl/month or numbers/month.

Name of Raw Material	***UOM***	***Quantity***	***Hazardous Waste***	***Hazardous Chemicals***	***Remarks***

Molasses	KL/M	3800	No	No
TRO	KLtr.	20	No	No

15. Description of process of manufacture for each of the products showing input, output, quality and quantity of solid, liquid and gaseous wastes, if any from each unit process.

Manufacturing Process attached

Part B : Waste Water aspects

16. Water consumption for different uses (m3/day)

Purpose	***Consumption***	***Effluent Generation***	***Treatment***	***Remarks***	***Disposal***	***Remarks***
Domestic Pourpose	3	9.6	--NA--		Recycle	
Water gets Polluted & Pollutants are Biodegradable	320	420	--NA--		Recycle	
Water gets Polluted,Pollutants are not Biodegradable & Toxic	0	0	--NA--		--NA--	
Industrial Cooling,spraying in mine pits or boiler feed	214	214	--NA--	17.5	Recycle	
Others	0					

17. Source of water supply, Name of authority granting permission if applicable and quantity permitted.

Source of water supply	***Name of authority granting permission***	***Qauntity permitted***
Ghod Canol Water	Sub Divisional Engg.Pune	350

18. Quantity of waste water (effluent) generated (m3/day)

Domastic	***Boiler Blowdown***	***Industrial***	***Cooling water blowdown***
2.7	2	0	15.5
Process	***DM Plants/Softening***	***Washing***	***Tail race discharge from***
360	0	11	0

* 19. Water budget calculations accounting for difference between water consumption and effluent generated.

Same As Above

20. Present treatment of sewage/canteen effluent (Give sizes/capacities of treatment units).

Capacity of STP (m3/day)

0

Treatment unit	***Size (mxm)***	***Retention time (hr)***
0	0	0

21. Present treatment of trade effluent (Give sizes/capacities of treatment units) (A schematic diagram of the treatment scheme with inlet/outlet characteristics of each unit operation/process is to be provided. Include details of residue Management system (ETP sludges)

Capacity of ETP (m3/day)

360

Treatment unit	Size (mxm)	Retention time (hr)
5 Days Spent Wash Tank	1989	120
Buffer Tank	100	4
Digester	5248	276
Digester Outlet Tank	793	48

22.

(i) Are sewage and trade effluents mixed together?	No
If yes, state at which stage-Whether before, intermittently or after treatment.	No

23. Capacity of treated effluent sump, Guard Pond if any.

Capacity of treated effluent sump (m3)	30 Days Storage Tank
Effluent sump/Guard pond details	No
If yes, state at which stage-Whether before, intermittently or after treatment.	No

24. Mode of disposal of treated effluent With respective quantity, m3/day

(i) into stream/river (name of river)	0	***(ii) into creek/estuary (name of Creek/estuary)***	0
(iii) into sea	0	***(iv) into drain/sewer (owner of sewer)***	0
(v) On land for irrigation on owned land/ase land. Specify cropped area.	Biomethanation followed Multieffect evaporator folled by Compost yard 5 acer	***(vi) Connected to CETP***	0
(vii) Quantity of treated effluent reused/ recycled, m3/day Provide a location map of disposal arrangement indicating the outler(s) for sampling. Treated effluent reused / recycled (m3/day)	0		

25. (a) Quality of untreated/treated effluents (Specify pH and concentration of SS, BOD,COD and specific pollutants relevant to the industry. TDS to be reported for disposal on land or into stream/river.

Untreated Effluent

pH	5.5 -8.0
SS (mg/l)	NIL
BOD (mg/l)	2500 - 3500
COD (mg/l)	4000 - 6000
TDS (mg/l)	NIL

	Specific pollutant if any	***Name***	***Value***
1		NA	NA

Treated Effluent

pH	7.0 - 7.5
SS (mg/l)	< 5
BOD (mg/l)	< 50
COD (mg/l)	< 100

TDS (mg/l)	< 300

Specific pollutant if any	***Name***	***Value***
1	NA	NA

(b) Enclose a copy of the latest report of analysis from the laboratory approved by State Board/ Committee/Central Board/Central Government in the Ministry of Environment expected characteristics of the untreated/treated effluent

NA

---

26. Fuel consumption

Fuel Type	***UOM***	***Fuel Consumption TPD/LKD***	***Calorific value***
Bagasse	M/Day	1150	2250
Ash content	***Sulphur content***	***Quantity***	***Other (specify)***
1.5	0	1	0

---

27. (a) Details of stack (process & fuel stacks: D. G.)

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
1	Bagasse fired boiler no. 1	10 TPH	Bagasse
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
5	MS	Round	35
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
1.54	49920	140	14.9
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as Cl2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
Wet Scrubber	TPM	Wet Scrubber	NA

---

27. (B) Whether any release of odoriferous compounds such as Mercaptans, Phorate etc. Are coming out from any storages or process house.

No

---

28. Do you have adequate facility for collection of samples of emissions in the form of port holes, platform, ladder\etc. As per Central Board Publication “Emission regulations Part-III” (December, 1985)

Poart hole	Yes	***Details***	As per CPCB Norms
Platform	Yes	***Details***	As per CPCB Norms
Ladder	Yes	***Details***	As per CPCB Norms

---

29. Quality of treated flue gas emissions and process emissions. Quantity of treated flue gas emissions and process emissions.

Sr. No.	***Stack attached to***	***Parameter***	***Concentration mg/Nm3***	***flow (Nm3/hr)***
1	NA	NA	0	0

(Specify concentration of criteria pollutants and industry/process-specific pollutants stack-wise. Enclose a copy of the latest report of analysis from the laboratory approved by State Board/Central Board/ Central Government in the Ministry of Environment & Forests. For proposed unit furnish expected characteristics of the emissions..

NA

Part - D: Hazardous Waste aspect

30. Information about Hazardous Waste Management as defined in Hazardous Waste (Management & Handling) Rules, 1989 as amended in Jan.,2000. Type/Category of Waste as per

Waste (Annually) Schedule I

Cat No	***Type***	***Qty***	***UOM***
NA		0	--NA--

Max	***Method of collection***	***Method of reception***	***Method of storage***
	NA	NA	NA

Method of transport	***Method of treatment***	***Method of disposal***
NA	NA	NA

Waste (Annually) Schedule II

31. Details about use of hazardous waste

Name of hazardous waste/Spent chemical	***Quantity used/month***	***Party from whom purchased***	***Party to whom sold***
NA	0	NA	NA

32.

a. Details about technical capability and equipments available with the applicant to handle the Hazardous Waste

NA

b. Characteristics of hazardous waste(s) Specify concentration of relevant pollutants. Enclose a copy of the latest report of analysis from the laboratory approved by State Board/Central Board/Central Govt. in the ministry of Environment & Forests. For proposed units furnish expected characteristics

NA

33.

Copy of format of manifest/record Keeping practiced by the applicant.

NA

34.

Details of self-monitoring (source and environment system)

NA

35.

Are you using any imported hazardous waste. If yes, give details.

NA

36.

Copy of actual user Registration/certificate obtained from State Pollution Control Board/Ministry of Environment & Forests, Government of India, for use of hazardous waste.

NA

37.

Present treatment of hazardous waste, if any (give type and capacity of treatment units)

NA

---

38. Quantity of hazardous waste disposal

(i) Within factory

0

(ii) Outside the factory (specify location and enclose copies of agreement.)

0

(iii) Through sale (enclosed documentary proof and copies of agreement.)

0

(iv) Outside state/Union Territory, if yes particulars of (1 & 3) above.

0

(v) Other (Specify)

0

Part - E: Additional information

39.

a. Do you have any proposals to upgrade the present system for treatment and disposal of effluent/emissions and/or hazardous waste.

NA

b. If yes, give the details with time- schedule for the implementation and approximate expenditure to be incurred on it.

NA

40.

Capital and recurring (O & M) expenditure on various aspect of environment protection such as effluent, emission, hazardous waste, solid waste, tree- plantation, monitoring, data acquisition etc. (give figures separately for items implemented/to be implemented).

Capital Investment 8 Crores O and M Expenditure 30 Lakcs

41.

To which of the pollution control equipment, separate meters for recording consumption of electric energy are installed ?

Seprate energy meter is provided for ETP- Biogas and composting unit CPU , Wet Scrubber

---

42.

Which of the pollution control items are connected to D.G. Set (captive power source) to ensure their running in the event of normal power failure

Seprate energy meter is provided for ETP- Biogas and composting unit CPU , Wet Scrubber

---

43. Nature, quantity and method of disposal of non- hazardous solid waste generated separately from the process of manufacture and waste treatment. (Give details of area/capacity available in applicant's land)

Type	*Quantity*	*UOM*	*Treatment*	*Disposal*	*Other Details*
Yeast Sludge	60	MT/A	Composting	As Fertilizer	NA
Boiler Ash	0.54	Ton/D	Colling and Storeging	Sale to Brick Manufacture	NA
Fermentor Sludge	7.2	Ton/D	Drawing and Aerobic	As Fertilizer	NA

---

44. Hazardous Chemicals – Give details of Chemicals and quantities handled and Stored.

(i) Is the unit a Majot Accident Hazard unit as per Mfg.Storage Import Hazardous Chemicals Rules ?

NA

(ii) Is the unit an isolated storage as defined under the MSIHC Rules ?

NA

(iii) Indicate status of compliance of Rules 5,7,10,11,12,13 and 18 of the MSIHC Rules.

NA

(iv) Has approval of site been obtained from the concerned authority?

NA

(v) Has the unit prepared an off-site Emergency Plan? Is it updated ?

NA

(vi) Has information on imports of Chemicals been provided to the concerned authority?

NA

(vii) Does the unit possess a policy under the PLI Act?

NA

---

45. Brief details of tree plantation/green belt development within applicant's premises (in hectors)

Open Space Availability	***Plantation Done On***	***Number of Trees Planted***
237277 Square meter	78301.41 Square meter(33 %)	3370

46.

Information of schemes for waste Minimization, resource recovery and recycling - implemented and to be implemented, separately.

NA

47.

(a) The applicant shall indicate whether Industry comes under Public Hearing, if so, the relevant documents such as EIA, EMP, Risk Analysis etc. shall be submitted, if so, the relevant documents enclosed shall be indicated accordingly.

No

(b) Any other additional information that the applicants desires to give

Number of person staying in colony is mentioned as 1000 It is to be noted that this number includes the total of workers engaged in Sugar Unit Operation Co-gen

(c) Whether Environmental Statement submitted ? If submitted, give date of submission.

Yes 31March 2018

48.

I/We further declare that the information furnished above is corect to the best of my/our knowledge.

49.

I/We hereby submit that in case of any change from what is stated in this application in respect of raw materials, products, process of manufacture and
treatment and/or disposal of effluent, emission, hazardous wastes etc. In quality and quantity; a fresh application for Consent/Authorization shall be made and
until the grant of fresh Consent/Authorization no change shall be made.

50.

I/We indertake to furnish any other information within one month of its being called by the Board

---

Yours faithfully

Signature :
Name : R S NAIK
Designation : MANAGING DIRECTOR

Additional Information

Air Pollution

Sr No.	Air Pollution Source	Pollutants	APCS Provided	Remark
1	Bagasse Fired Boiler No.1	TPM	Wet Scrubber	NA

Separate EM Provided	Yes	**Other Emission Sources**	NA
Measures Proposed	NA	**Foul Smell Coming Out**	No
Air Sampling Facility Details	NA		

D.G. Set Details

Description	Capacity(KVA)	Remarks
NA	0	NA

Hazardous Waste Generation

Hazardous Waste	Quantity	UOM	Treatment	Disposal	Other Details
5.1 Used /spent oil	5	Kg/Day	Nil	Mixed along with bagasse & burned	NA

CHWTSDF Details

Member of CHWTSDF	CHWTSDF Name	Remarks

Cess Details

Cess Applicable	Cess Paid	If Yes, UpTo
Yes	Yes	Feb 14 2013 12:00:00:000AM

Legal Actions

Legal Action Taken	Legal Record Of Company	Legal Action Details	Remarks
No			

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

सत्यमेव जयते

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date:September 11, 2019

To,
M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd.
at Gat. No. 52/2

Subject: Environment Clearance for Proposed 26 MW bagasse based Co-generation unit

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 161st 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 174th meetings.

2. It is noted that the proposal is considered by SEAC-I under screening category Category B, Sr. No. 1 (d) as per EIA Notification 2006.

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

1.Name of Project	Proposed 26 MW bagasse based co-generation unit by M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd, Plot No 52/2, Limpangaon Village, Tal- Shrigonda, Dist- Ahmednagar, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd.
4.Name of Consultant	M/s SGM Corporate Consultants Pvt. Ltd.
5.Type of project	Industrial Project
6.New project/expansion in existing project/modernization/diversification in existing project	It is a Proposed New Project of 26 MW bagasse based Co-generation Plant with 180 Operational days
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Gat. No. 52/2
9.Taluka	Shrigonda
10.Village	Limpangaon
Correspondence Name:	Mr. R.S.Naik
Room Number:	Gat. No. 52/2
Floor:	Not Applicable
Building Name:	M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd.
Road/Street Name:	Not Applicable
Locality:	Village- Limpangaon, Tal- Shrigonda, District- Ahmednagar
City:	Shrigonda
11.Whether in Corporation / Municipal / other area	Grampanchayat Limpangaon
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 5545
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	331800
16.Deductions	Not applicable

17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**FSI area (sq. m.):** Not applicable
	Non FSI area (sq. m.): Not applicable
	Total BUA area (sq. m.): 5545
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	1304350000

22.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Proposed 26 MW bagasse based cogeneration unit	0	26 MW	26 MW

23.Total Water Requirement

Dry season:	**Source of water**	Ghod canal
	Fresh water (CMD):	938.4
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5111.6
	Fire fighting - Underground water tank(CMD):	Prposed underground water tank of 1000 m3
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	Recycled water for industrial use= 4120.2 m3
Wet season:	**Source of water**	Ghod canal
	Fresh water (CMD):	938.4
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5111.6
	Fire fighting - Underground water tank(CMD):	Prposed underground water tank of 1000 m3
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	Recycled water for industrial use= 4120.2 m3
Details of Swimming pool (If any)	Not applicable	

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	0	6	6	0	1	1	0	5	5
Industrial Process	0	5111.6	5111.6	0	Loss= 938.4 m3, Recycle = 4120.2 m3	Loss= 938.4 m3, Recycle = 4120.2 m3	0	53	53

25.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Around 50 m
	Size and no of RWH tank(s) and Quantity:	Will be detailed & given in EIA report
	Location of the RWH tank(s):	Will be detailed & given in EIA report
	Quantity of recharge pits:	Will be detailed & given in EIA report
	Size of recharge pits :	Will be detailed & given in EIA report
	Budgetary allocation (Capital cost) :	20 Lacs
	Budgetary allocation (O & M cost) :	2 Lac
	Details of UGT tanks if any :	Existing water reservoir capacity = 88500 m3
26.Storm water drainage	**Natural water drainage pattern:**	Will be detailed in EIA report
	Quantity of storm water:	Will be detailed in EIA report on the basis of on site meteorological data & maximum rainfall data
	Size of SWD:	Will be detailed in EIA report
27.Sewage and Waste water	**Sewage generation in KLD:**	5
	STP technology:	Septic tank & Soak Pit
	Capacity of STP (CMD):	NA
	Location & area of the STP:	-
	Budgetary allocation (Capital cost):	15 Lac
	Budgetary allocation (O & M cost):	1.5 Lac

28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction waste debris
	Disposal of the construction waste debris:	To Authorized dealers
Waste generation in the operation Phase:	**Dry waste:**	Boiler Ash= 19.6 MT/D
	Wet waste:	Canteen waste
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Mode of Disposal of waste:	**Dry waste:**	Boiler Ash- Biocomposting
	Wet waste:	canteen waste- As manure in factory green belt area
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Not applicable
	Area for the storage of waste & other material:	0.5 Acre for Storage of Boiler Ash
	Area for machinery:	BUA= 5545 sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25 Lakh
	O & M cost:	1.25 Lakh

29.Effluent Charecterestics					
Serial Number	**Parameters**	**Unit**	**Inlet Effluent Charecterestics**	**Outlet Effluent Charecterestics**	**Effluent discharge standards (MPCB)**
1	pH	-	6-6.5	5.5-8.5	5.5-8.5
2	SS	mg/lit	250-300	<100	<100
3	BOD	mg/lit	650-750	<100	<100
4	COD	mg/lit	1200-1400	<250	<250
5	TDS	mg/lit	800-950	<2100	<2100
Amount of effluent generation (CMD):		53			
Capacity of the ETP:		Existing sugar ETP capacity of 1000 CMD will accomodate the effluent from proposed co-gen unit also.			
Amount of treated effluent recycled :		53 CMD			
Amount of water send to the CETP:		Nil			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		ETP technofeasibility report is attached			
Disposal of the ETP sludge		Solid waste generated from Existing sugar ETP (Primary & secondary sludge) is being dried on separated sludge drying beds. Dried sludge is used as manure in company's farm land for cultivation.			

30.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	NA	NA	NA	NA	NA	NA	NA

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	Proposed cogeneration unit boiler of 140 TPH	Bagasse requirement for 180 operational days = 228786.75 MT	1	73 m	4	150 Degree.C

32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasse requirement for 180 operational days	0	228786.75 MT	228786.75 MT
Source of Fuel		Bagasse From Existing Sugar Unit		
Mode of Transportation of fuel to site		Bagasse From Existing Sugar Unit - Inline conveyor system. Through RBC (Return bagasse carrier)		

33.Energy

Power requirement:	**Source of power supply :**	Startup with MSEDCL & Susequently through own TG set.
	During Construction Phase: (Demand Load)	500 KW
	DG set as Power back-up during construction phase	Proposed DG sets- 1 x 750
	During Operation phase (Connected load):	Proposed DG sets- 1 x 750 KVA
	During Operation phase (Demand load):	7 MW for Sugar Unit, Distillery Unit, Boiler & Utilities
	Transformer:	Existing transformer of 500 KVA.
	DG set as Power back-up during operation phase:	Proposed DG sets- 2 x 900 KVA
	Fuel used:	HSD for Proposed DG sets (1 x 750 KVA) - 200 lit/h
	Details of high tension line passing through the plot if any:	Not Applicable

34.Energy saving by non-conventional method:

-

36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Recovery of Energy from condensate, Flue Gases	Will be detailed in EIA report
2	Variable Frequency Drives for fans & motors	Will be detailed in EIA report

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

Stack of Proposed co-gen unit boiler of 140 TPH	NA	Electrostatic Precipitator

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Details will be provided in EIA
	O & M cost:	Details will be provided in EIA

38.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Noise, Water & Soil Pollution control & Occupational health & safety	-	2 Lacs

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Electrostatic Precipitator will be provided to the stack	The boiler will be equipped with high efficiency three field Electro Static Precipitator, which will remove the suspended particles and ash particles from the flue gas.	70	02
2	ETP	Existing sugar ETP of 1000 CMD will accomodate the effluent from co-gen unit also	150	10
3	Rainwater Harvesting	-	20	02
4	Occupational Health & Safety	-	15	03
5	Laboratory Equipment, Monitoring & Environmental Audit	-	15	03
6	Green belt development	-	20	04
7	Fire fighting for co-gen unit	-	45	2.5
8	Proposed Boiler Stack of co-gen unit	-	100	-
9	Ash handling system	-	100	03
10	Environmental Monitoring	-	-	02

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
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not application

40.Any Other Information

No Information Available

	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	Category B, Sr. No. 1 (d)
	Court cases pending if any	Not applicable
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	.

3. The proposal has been considered by SEIAA in its 174th 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 upload agreement/ permisison obtianed from the competent Authority to draw water from Ghod canal.
II	PP to ensure that no waste either liquid or solid shall be disposed off outside the premises without adequate treatment.
III	PP to prepare and implement CER plan in consultation with the District Collector as per OM issue dby MoEF&CC dated 01.05.2018.
IV	PP to use new and renewable energy source for the illumination of street lights and office buildings.
V	PP shall obtain Permission for the land development from the competent planning authority (the District Collector/ Town Planning Department).
VI	PP to submit CER plan to District Collector and submit the acknowledgement to Member Secretary, SEIAA.
VII	PP to submit CER plan to District Collector and submit the acknowledgement to Member Secretary, SEIAA.
VIII	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF & CC dated 9th August, 2018.
IX	SEIAA decided to grant EC for: FSI:28031.38 m2, Non-FSI: 303768.62 m2 and Total BUA: 331800.00 m2 Approval no-KaVi/Jamin/BAP/SR/19/2019, Date-06.08.2019)

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. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. MUNICIPAL COMMISSIONER PUNE
10. MUNICIPAL COMMISSIONER SATARA
11. REGIONAL OFFICE MPCB PUNE
12. REGIONAL OFFICE MIDC PUNE
13. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
14. COLLECTOR OFFICE PUNE
15. COLLECTOR OFFICE SATARA
16. COLLECTOR OFFICE SOLAPUR

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781 /4037124/4035273
Fax : 24044532/4024068 /4023516
Email : cac-cell@mpcb.gov.in
Visit At : http://mpcb.gov.in

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

RED/LSI

Date- 18/05/2018

Consent No: Format 1.0/BO/CAC-CELL/UAN No. 0000041896/E/CAC- 1805000822

To,
M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade S. S. K. Ltd.,
A/p - 51/1 Shrigonda, Tal. Shrigonda, '
Dist. Ahmednagar.

Subject: Consent to Establish Expansion for proposed 26 MW Co-generation unit under RED category.

Ref : Circulation Minutes of CAC dtd. 18.05.2018.

Your application: 0000041896.
Dated: 03.02.2018.

For: Consent to Establish Expansion for proposed 26 MW Co-generation unit, under RED category, under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent is granted for a period up to** Upto commissioning of the unit or 5 yrs. whichever is earlier.
2. **The Proposed capital investment of the industry is Rs. 130.43 Cr.**
   (As per the C. A. certificate submitted by industry)
3. **The Consent is valid for the manufacture of –**

Sr. No.	Product / By-Product Name	Maximum Quantity in MT/M
5	Electricity (Co-Gen)	26 MW.

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

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	48	As per Schedule –I	Co-gene. 48 CMD shall be 100% recycle
2.	Domestic effluent	6	As per Schedule –I	On land for gardening

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

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler (140 TPH)	1 no.	As per Schedule –II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Boiler Ash	19.06 T/D	N.A.	Sale to Brick Manufacture

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

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
----------N.A.----------						

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. Industry shall comply the Directions of the CPCB regarding installation of online monitoring system and shall install online effluent quality monitoring system for the parameters flow, pH, BOD, COD & TSS and shall connect, upload the online effluent monitoring data at MPCB and CPCB server.
11. Industry shall adopt new technology for recycling of effluent including Air Cooled Condenser system for Co-gen and Condensate Polishing unit to sugar so as to minimize the use of fresh water for Co-gen. The water contained in the sugar cane is to be recovered fully & reused in process.
12. Industry shall use non water soluble grease to reduce the pollution load, at source.
13. Industry shall use mechanical seals to the juice pumps in order to avoid contamination of water used for vacuum seals.
14. Industry shall submit undertaking that they will not extract ground water/surface water unless obtains permission from CGWB/Irrigation Department as the case may be.
15. The first Consent to operate shall be issued only after submission of ground water permission from CGWB/Surface water permission from Irrigation department.
16. The applicant should not take any effective steps for implementation of the project before obtaining Environmental Clearance as per EIA Notification 2006 and amendments thereto. As per Para 2 of EIA notification dated-14/09/2006, the effective steps include starting of any construction work or preparation of land by the project management. However as clarified by the MoEF vide office memorandum no. J-1103/41/2006-IA.II(I); Dated-19/8/2010, fencing of the site to protect it from getting encroached & construction of temporary shed(s) for the guard(s) & acquisition of land shall not be treated as an effective steps.

For and on behalf of the
Maharashtra Pollution Control Board

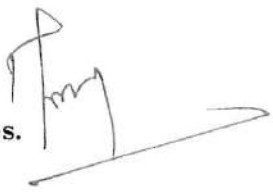
(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of –

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	2,60870/-	LBOI6091252174	27.02.2018	Online Payment

Copy to:

1. **Regional Officer MPC Board, Nashik & Sub-Regional Officer- Ahmednagar, M.P.C. Board, Solapur - They are directed to ensure the compliance of the consent conditions.**
2. **Chief Accounts Officer, MPCB, Mumbai.**
3. **CAC desk- for record & website updation purposes.**



Schedule-I

Terms & conditions for compliance of Water Pollution Control:

A] As per your application, you have proposed to provide Effluent Treatment Plant with capacity 400 CMD, comprising of Grit Chamber, Oil & Grease Trap, Neutralization Tank, Equalization Tank, Primary Clarifier, Aeration Tank, Secondary Clarifier & SDB's

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

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

C) The treated effluent 48 CMD of the co-gen shall be recycled 100% in the process.

D) Industry shall provide separate primary treatment for effluent generation from DM plant.

E] Industry shall provide flow meter at Inlet of ETP of Sugar & Co-Gen Units, and to maintain the record with data logging system.

1) **A]** As per your consent application, you have proposed to provide the septic tank and soak pit for treatment of domestic effluent.

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

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

C] The treated sewage 6 CMD shall be disposed on land of 30 acres for gardening /irrigation.

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

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	1001
2.	Domestic purpose	6
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	6
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	---

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:

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

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO_2 Kg/Day
1.	Boiler (140 TPH)	ESP	60	Bagasse	720 MT/D.	0.2 %	2880

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines. (Concern section shall mention specific control equipments)

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

Particulate matter	Not to exceed	150 mg/Nm^3.

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

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

Schedule-III

Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1.	C to E	10/- Lakhs	15 days.	Not to take effective steps for implementation of the project prior obtaining EC & compliance of conditions of Consent to Establish.	Till Obtaining EC & 1st C to O.	Till Obtaining EC & 1st C to O.

Schedule-IV
General Conditions:

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

b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.

c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper 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 MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel

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

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

19) The applicant shall maintain good housekeeping.

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

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

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

23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.

24) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).

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

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

27) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.

28) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

-----0000----

जा.क्र.पुपाबं/बिसिं/ ४१८० /२०००

पुणे पाटबंधारे विभाग
पुणे-१
दि. ६/ ६ /२०००

प्रति,

चेअरमन
दि श्रीगोंदा सहकारी साखर कारखाना लि.
श्रीगोंदा, ता.श्रीगोंदा जि.अहमदनगर.

विषय:- घोड डावा कालव्यातून औद्योगिक वापरासाठी वाढीव पाणी परवानगीचे करारनामा मंजुरीबाबत..

संदर्भ:- मा.मु.अ. पा.वि. पुणे यांचे ज्ञापन क्र. सिंचन-२/६७७/३३५७ दि. २६.२.१९९९

महाशय,

आपणास संदर्भिय पत्रानुसार घोड डावा कालव्यातून औद्योगिक वापरासाठी पूर्वीच्या मंजुरीत वाढ करून वार्षिक १.०४ द.ल.घ.मी. पाणी उचलण्यास परवानगी देणेत आलेली आहे. त्यानुसार आपण महाराष्ट्र कृष्णा खोरे विकास मंडळ, पुणे यांचेशी केलेल्या करारनाम्याची प्रत आपल्या माहितीकरिता व आवश्यक त्या कार्यवाहीकरीता सस्नेह अग्रेषित करीत आहे.

करारनाम्यातील सर्व अट्टी व शर्तींचे आपण काटेकोरपणे पालन करावे तसेच महामंडळाकडून वेळोवेळी कळविणेत येणारी सुधारित पाणी-पट्ट्याची रक्कम न चुकता विनातक्रार दरमहा देयक [बिल] प्राप्त झालेपासून १५ दिवसात भरणा करावी ही विनंती.

आपला विश्वासू

उप कार्यकारी अभियंता
पुणे पाटबंधारे विभाग
पुणे-१

स्वाक्षरी प्रतीवर का.अ. यांची सही असे.

प्रत:- उपविभागीय अभियंता, घोड पाटबंधारे उपविभाग, मंचर/शिरूर यांना माहितीसाठी .

सोबत:- दोन करारनामा प्रती.

....

CERTIFICATE OF REGISTRATION.

***

No. ANR/PRG (A)/1.

The Joint Registrar, Co-operative Societies, (Sugar), Maharashtra State, Poona, hereby notifies that "The Shrigonda Sahakari Sakhar Karkhana Ltd.,*" at Shrigonda, Taluka Shrigonda, District Ahmednagar has been registered under Section 9(1) of the - Maharashtra Co-operative Societies Act, 1960.

Poona 1:
3rd August 65

(A.W. Khan.)
Joint Registrar, Co-operative Societies,
(Sugar), Maharashtra State, Poona 1.

***

CERTIFIED TRUE-COPY
For S.M.Shivajirao Narayanrao Nagawade
Sahakari Sakhar Karkhana Ltd.

MANAGING DIRECTOR

अहवाल दिनांक : 04/07/2018

गाव नमुना सात

अधिकार अभिलेख पत्रक

(महाराष्ट्र जमीन महसूल अधिकार अभिलेख आणि नोंदवहया (तयार करणे व सुस्थितीत ठेवणे)
नियम, १९७१ यातील नियम ३, ५, ६ आणि ७)

गाव :- **लिंपणगाव** तालुका :- **श्रीगोंदा** जिल्हा :- **अहमदनगर**

गट क्रमांक व उपविभाग : 52/2

गट क्रमांक व उपविभाग	भुधारणा पद्धती	भोगवटदाराचे नांव
52/2	भोगवटादार वर्ग -1	

शेतीचे स्थानिक नांव	क्षेत्र आकारआणे पै पो.ख. फे.फा	खाते क्रमांक

णगाव तालुका :- **श्रीगोंदा** जिल्हा :- **अहमदनगर**

क व उपविभाग : 52/2

ककआर.चौ.मी	**। विनायक साहेबराव भोयटे**		]	(7250) [1520], 2527, 2528
न शेती 33.18.41	। कार्यकारी संचालक श्रीगोंदा स.सा.कारखाना -	28.18.41	]	(7250) **कुळाचे नाव** **इतर अधिकार** **इतर** बोअर एक (1)
बेन शेती 3.00	------सामाईक क्षेत्र------			**बोजा** जिल्हा मध्यवर्ती बँक लि.अहमदनगर व महाराष्ट्र राज्य सहकारी बँक लि.मुंबई र रु.977147000/- (7028)
आकारणी				
जिरायत -	**मुख्य कार्य.अधि. जि.प.अ.नगर. प्रा.शाळा श्रीगोंदा कारखना**		0.05.00 (1)	
बागायत -				
तरी -	**सहकार महर्षी शिवाजीराव नारायणराव नागवडे सहकारी साखर कारखाना श्रीगोंदा फॅक्टरी**		33.13.41 (1)	**गहाणखत** राष्ट्रीय सहकारी विकास निगम चे मुख्य निदेशक (पी एन्ड ए) के वी नागराज शेट्टी र रु.342796000/- सहकार महर्षी शिवाजीराव नारायणराव नागवडे सहकारी साखर कारखाना (7253)
वरकस -				
इतर -				
--- ---				
एकुण क्षेत्र-				
--- ---				
पोटखराब (लागवडीस अयोग्य)				
वर्ग (अ) -				
वर्ग (ब) -				
एकुण पो 0.00.00 ख				
--- ---				
--- ---				
जुडी किवा - विशेष आकारणी				
	(4904),(7254),(7352)			सीमा आणि भुमापन चिन्हे

सुचना : या सातबारावर संबंधित तलाठी अथवा नायब तहसीलदार यांची सही व शिक्का असल्यास शासकीय कामासाठी वैध समजावा.

गाव नमुना बारा

अधिकार अभिलेख पत्रक

(महाराष्ट्र जमीन महसूल अधिकार अभिलेख आणि नोंदवहया (तयार करणे व सुस्थितीत ठेवणे) नियम,१९७१ यातील नियम २९)

:- लिंपणगाव तालुका :- श्रीगोंदा जिल्हा :- अहमदनगर

क्रमांक व उपविभाग : 52/2

		पिकाखालील क्षेत्राचा तपशील										लागवडीसाठी उपलब्ध नसलेली जमीन		जल सिंचनाचे साधन	शेरा
		मिश्र पिकाखालील क्षेत्र						निर्भेळ पिकाखालील क्षेत्र							
					घटक पिके व प्रत्येकाखालील क्षेत्र										
वर्ष	हंगाम	मिश्रणाचा संकेत क्रमांक	जल सिंचित	अजल सिंचित	पिकांचे नाव	जल सिंचित	अजल सिंचित	पिकांचे नाव	जल सिंचित	अजल सिंचित		स्वरूप	क्षेत्र		
(१)	(२)	(३)	(४)	(५)	(६)	(७)	(८)	(९)	(१०)	(११)		(१२)	(१३)	(१४)	(१५)
			आर.चौ.मी	आर.चौ.मी		आर.चौ.मी	आर.चौ.मी		आर.चौ.मी	आर.चौ.मी			आर.चौ.मी		
2015-16	रब्बी											पडीक	33.1800		
2016-17	रब्बी											पडीक	33.1800		
2017-18	रब्बी											पडीक	33.1800		

सुचना : या सातबारावर संबंधित तलाठी अथवा नायब तहसीलदार यांची सही व शिक्का असल्यास शासकीय कामासाठी वैध समजावा.

D:\SM\SNNSSKL\Year\Distillary\Letter.doc

ग्रामपचायत कार्यालय लिंपणगांव

ता.श्रीगोंदा जि.अहमदनगर(४१३७२६)
Email:grampanchyatlimpangaon@gmail.com

श्री.ए.जी.जगताप
ग्रा.वि.अधिकारी (मो.९६८९५८४०४०)

श्री.पोपट संभाजी माने
उपसरपंच(मो.९६७३३२७२४९)

श्री.रवि रोहिदास उजागरे
सरपंच (मो.९५५२८४०७०७)

जा.क.

दिनांक / /२०१

दिनांक :- ०७/०८/२०२०

ग्रामपचायत कायालय, लिंपणगांव स्थापना दि. १७/४/१९५२ ता श्रीगोंदा, जि. अ.नगर

:: ना हरकत दाखला ::

दाखला देण्यात येतो की, मौजे लिंपणगाव ग्रामपंचायत हद्दीमधील गट नं.५२/२ मध्ये सहकार महर्षी शिवाजीराव नारायणराव नागवडे सहकारी साखर कारखाना लि. श्रीगोंदा फॅक्टरी, ता. श्रीगोंदा, जि. अहमदनगर यांना कारखाना विस्तारीकरण करणेकरीता लिंपणगाव ग्रामपंचायतची कसलेही प्रकारची हरकत नाही.

ग्रामसेवक
ग्रामविकास अधिकारी
ग्रामपंचायत लिंपणगाव
ता श्रीगोंदा जि. अहमदनगर

सरपंच
सरपंच
ग्रामपंचायत लिंपणगाव
ता. श्रीगोंदा जि. अहमदनगर

D:\SM\SNNSSKL\Year\Distilary\Letter.doc

ग्रामपंचायत कार्यालय लिंपणगांव

ता.श्रीगोंदा जि.अहमदनगर(४१३७२६)
Email:grampanchyatlimpangaon@gmail.com

श्री.ए.जी.जगताप
ग्रा.वि.अधिकारी (मो.९६८९५८४०४०)

श्री.पोपट संभाजी माने
उपसरपंच(मो.९६७३३२७२४९)

श्री.रवि रोहिदास उजागरे
सरपंच (मो.९५५२८४०७०७)

जा.क.

दिनांक / /२०१

ग्रामपंचायत कार्यालय, लिंपणगाव स्थापना दि. १०/५/१९५२ ता. श्रीगोंदा, जि. अ.नगर

दिनांक :- ०७/०८/२०२०

:: ना हरकत दाखला ::

दाखला देण्यात येतो की, मौजे लिंपणगाव ग्रामपंचायत हद्दीमधील गट नं.५२/२ मध्ये सहकार महर्षी शिवाजीराव नारायणराव नागवडे सहकारी साखर कारखाना लि. श्रीगोंदा फॅक्टरी, ता. श्रीगोंदा, जि. अहमदनगर यांना डिस्टीलरी विस्तारीकरण करणेकरीता लिंपणगाव ग्रामपंचायतची कसलेही प्रकारची हरकत नाही.

ग्रामसेवक

ग्रामविकास अधिकारी
ग्रामपंचायत लिंपणगाव
ता श्रीगोंदा जि. अहमदनगर

सरपंच

सरपंच
ग्रामपंचायत लिंपणगाव
ता. श्रीगोंदा जि. अहमदनगर

Quality Council of India

National Accreditation Board for Education & Training

CERTIFICATE OF ACCREDITATION

Equinox Environments (India) Pvt. Ltd.

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

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

Sl. No.	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals including opencast / underground mining	1	1 (a) (i)	A
2	Offshore and onshore oil and gas exploration, development & production	2	1 (b)	A
3	Thermal power plants	4	1 (d)	B
4	Metallurgical industries (ferrous & non-ferrous) - secondary only	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	32 A	7 (da)	B
14	Common municipal solid waste management facility (CMSWMF)	37	7 (i)	B
15	Townships and Area development projects	39	8 (b)	B

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

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

Sr. Director, NABET
Dated: August 02, 2019

Certificate No.
NABET/ EIA/1821/ RA 0135

Valid till
21.10.2021

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

Regi. No. ANR/PRG (A) 1, Date. 3/8/1965

सहकार महर्षी शिवाजीराव नारायणराव नागवडे
सहकारी साखर कारखाना लि.

मु.पो. श्रीगोंदा फॅक्टरी, ता. श्रीगोंदा, जि. अहमदनगर पिन – ४१३७२६

SAHAKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE
SAHAKARI SAKHAR KARKHANA LTD.

A/P - Shrigonda Factory - (413726) Tal. Shrigonda, Dist. Ahmednagar (MS)

Ref. No.: Central/Engg/56/1077/2020-21 Date: 04.11.2020

Declaration about Environmental Status, Management and Compliance Done w.r.t. Existing as well as Proposed Expansion Projects of Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. (SMSNNSSKL)

A/p: Shrigonda Factory, Tal: Shrigonda, Dist: Ahmednagar (MS)

This is to state that **'Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. (SMSNNSSKL)'** located at Gat No. 52/2, Shrigonda Factory, Shrigonda Taluka, Ahmednagar, Maharashtra is going for an expansion of sugar factory from 4,800 TCD to 7,500 TCD & molasses-based distillery from 30 KLPD to 60 KLPD. In this connection, a declaration is being made as follows -

1. Presently the Industry is having manufacturing setup for Sugar Factory of 4800 TCD, Distillery unit of 30 KLPD & Co-generation Plant of 26 MW.
2. The existing Sugar Factory (4800 TCD), Distillery unit (30 KLPD) is having valid consent to operate & Co-gen Plant (26 MW) have been granted 'Environmental Clearance (EC)' by Department of Environment (DoE); Govt. of Maharashtra vide order No. SEIAA-EC-000001975 dated 11.09.2019 & CTO for Cogeneration plant is not yet commissioned.
3. The industry has cautiously & meticulously followed directions, from time to time, issued by MoEFCC; CPCB; MPCB; DoE etc. and have complied with conditions in the EC & Consent order of Sugar Factory, Distillery unit and Co-gen Plant.
4. The expansion of Sugar factory from 4,800 TCD to 7,500 TCD & molasses-based distillery from 30 KLPD to 60 KLPD will be executed in the premises of existing Sugar Factory, distillery unit & Co-gen Plant.
5. The existing sugar factory & distillery unit has, so far, never violated any conditions from the procured consent orders neither have done violation of the stipulations in EIA notification of 14.09.2006 as amended from time to time.
6. The appropriate and adequate infrastructure under Environmental Management Plan has been installed in the SMSNNSSKL industry which is duly operated & maintained through experienced and qualified manpower & staff as well as an EMC (Environmental Management Cell). The Industry also has a SHE Policy; provisions under which are duly followed.
7. All requisite compliances under the EPA 1986, CREP, Consents and EC conditions are timely observed by the industry.

Phone- 02487 - 252 220 / 222 / 242 Fax. 02487 - 252 339/421 • E-Mail-shrigondasugar@yahoo.co.in

8. There are no any SCN, PD, ID & Closure Directions against the existing sugar factory & distillery unit issued by MPCB, CPCB, MoEFCC and DoE as on the date of submission of application for grant of EC / EIA report submitted to the MoEFCC; New Delhi.
9. There is no any Court Case against the SMSNNSSKL industry while operating existing 4800 TCD Sugar Factory & 30 KLPD Distillery Unit.
10. Existing Co-gen Plant of 26 MW there is court case filed by MPCB dated 19.01.2019.

The above declaration is being made in addition to as well as in support of facts, figures, information and data presented in the EIA Report being submitted by **'Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. (SMSNNSSKL)'** located at Gat No. 52/2, Shrigonda Factory, Shrigonda Taluka, Ahmednagar, Maharashtra for grant of 'Environmental Clearance' towards expansion of Sugar Factory from 4800 TCD to 7500 TCD & Distillery Unit from 30 KLPD to 60 KLPD.

Date:

Place: Ahmednagar

S.M.Shivajirao Narayanrao Nagawade S.S.K.Ltd. Shrigonda Factory, Tal.Shrigonda
R.NO.ANR/ PRG (A)-1 Dt.3/8/1965 Dist.A'nagar Pin-413726

Mr. Ramakant S. Naik
(Managing Director)
For Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd
Shrigonda Factory, Tal.: Shrigonda,
Dist.: Ahmednagar (MS)

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

Phone- 02487 - 252 220 / 222 / 242 Fax. 02487 - 252 339/421 • E-Mail-shrigondasugar@yahoo.co.in

Regi. No. ANR/PRG (A) 1, Date. 3/8/1965

सहकार महर्षी शिवाजीराव नारायणराव नागवडे
सहकारी साखर कारखाना लि.

मु.पो. श्रीगोंदा फॅक्टरी, ता. श्रीगोंदा, जि. अहमदनगर पिन – ४१३७२६

SAHAKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE
SAHAKARI SAKHAR KARKHANA LTD.

A/P - Shrigonda Factory - (413726) Tal. Shrigonda, Dist. Ahmednagar (MS)

DECLARATION

This is to state that the 'Executive Summary & Draft EIA Report' submitted herewith has been prepared in respect of expansion of Sugar Factory from 4800 TCD to 7500 TCD & Distillery Unit from 30 KLPD to 60 KLPD by **Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd., (SMSNNSSKL),** located at Gat No. 52/2, A/p: Shrigonda Factory, Tal.: Shrigonda, Dist.: Ahmednagar, Maharashtra State.

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

Mr. Ramakant S. Naik
(Managing Director)
Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd., (SMSNNSSKL),
Shrigonda Factory, Tal.: Shrigonda, Dist.: Ahmednagar 413726
Project Proponent

Dr. Sangram P. Ghugare
(Chairman & Managing Director)
M/s. Equinox Environments (I) Pvt. Ltd., (EEIPL)
F-11, Namdev Nest 1160–B, 'E' Ward
Sykes Extension, opp. of Kamala College,
Kolhapur 416 001
Environmental Consultant

EQUINOX ENVIRONMENTS (INDIA) PVT. LTD. KOLHAPUR

Phone- 02487 - 252 220 / 222 / 242 Fax. 02487 - 252 339/421 • E-Mail-shrigondasugar@yahoo.co.in