

P-667-OGACIPL-E-SUGAR-92023

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

FOR

**EXPANSION OF SUGAR FACTORY FROM 4,960 TCD TO 10,000 TCD,
COGENERATION PLANT FROM 25 MW TO 33 MW AND MANUFACTURING
OF 300 KLPD RS / ENA/ ETHANOL FROM C & B HEAVY MOLASSES /
SUGARCANE SYRUP AND RS/ENA FROM GRAINS ALONG WITH 8 MW
POWER GENERATION IN THE 300 KLPD GRAIN DISTILLERY SETUP
APPROVED UNDER B2 CATEGORY FOR PRODUCT ETHANOL**

BY

**OLAM GLOBAL AGRI COMMODITIES
INDIA PVT. LTD.**

**AT/POST: CHANNEHATTI, RAJGOLI (KH.) TAL: CHANDGAD,
DIST.: KOLHAPUR, MAHARASHTRA STATE**

PREPARED BY



EQUINOX ENVIRONMENTS (I) PVT. LTD.,

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

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

AN ISO 9001 : 2015 & QCI - NABET ACCREDITED ORGANIZATION



FEBRUARY - 2024



DATE: 21.02.2024

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

Sub.: Application for grant of Environmental Clearance (EC) in respect of Expansion of Sugar Factory from 4,960 TCD to 10,000 TCD, Cogeneration Plant from 25 MW to 33 MW and Manufacturing of 300 KLPD RS / ENA/ Ethanol from C & B Heavy Molasses / Sugarcane Syrup and RS/ENA from Grains along with 8 MW Power Generation in 300 KLPD Grain Distillery Setup approved under B2 Category for product Ethanol by – **Olam Global Agri Commodities India Pvt. Ltd (OGACIPL)**, At/Post: Channehatti, Rajgoli (Kh.) Tal: Chandgad, Dist.: Kolhapur, Maharashtra State.

Ref.: 'Terms of Reference'(ToR) granted vide letter no. IA-J-11011/244/2023-IA-II(I) dated 12.02.2024. Copy is enclosed at **Enclosure – I**.

Dear Sir,

We – “**Olam Global Agri Commodities India Pvt. Ltd (OGACIPL)**” have planned to go for an expansion of Sugar Factory from 4,960 TCD to 10,000 TCD, Cogeneration Plant from 25 MW to 33 MW and Manufacturing of 300 KLPD RS / ENA/ Ethanol from C & B Heavy Molasses / Sugarcane Syrup and RS/ENA from Grains along with 8 MW Power Generation in 300 KLPD Grain Distillery Setup approved under B2 Category for product Ethanol At/Post: Channehatti, Rajgoli (Kh.) Tal: Chandgad, Dist.: Kolhapur, Maharashtra State.

Accordingly, an application in Form – 1 format was submitted to the 'Ministry of Environment, Forest and Climate Change; New Delhi' for grant of ToR's on 21.12.2023. Subsequently, standard ToR's were granted. Refer **Enclosure – I** for copy of ToR letter. In the ToR letter, directions were given to conduct Public Hearing w.r.t. our proposed project. Now, in order to conduct Public Hearing, we hereby are submitting all the relevant documents and information to your office.

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

Olam Global Agri Commodities India Private Limited

Regd. Office : 2nd Floor, Tower-A, DLF Building No. 8, DLF Cyber City, Phase II, Gurgaon, Haryana, India, 122002

Plant address- Gat No. 76/1, Channehatti, Rajgoli Kh, Tal:Chandgad, Dist :Kolhapur Maharashtra- 416508

CIN : U51229HR2021FTC097076

www.olamgroup.com





'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. 432625 drawn on Kotak Mahindra Bank, Belgaum dated 21.02.2024 towards the Public Hearing charges, as decided by the govt., has been presented herewith.

Please do the needful and oblige.

Thanking you.

Yours faithfully,

A handwritten signature in blue ink, consisting of a large loop followed by a vertical line and a diagonal stroke.



Mr. Bharat Kundal
(VP & Business Head- Sugar)

INDEX

SR. NO.	DESCRIPTION	PAGE NO.
1.	Summary EIA in English	1 - 21
2.	Summary EIA in Marathi	22 - 41
	Enclosure	
1.	ToRs Letter	42-60
	Appendices	
1.	Plot Layout	61
2.	Certificate of Incorporation	62
3.	Land Documents- 7/12 Extract & NA Order	63-77
4.	Statutory Documents- ECs & CFOs	78-115
5.	Water Lifting Permission	116-131

Executive Summary in English

**Summary of Draft EIA Report For
Expansion of Sugar Factory from 4,960 TCD to 10,000 TCD, Cogeneration
Plant from 25 MW to 33 MW and Manufacturing of 300 KLPD RS / ENA/
Ethanol from C & B Heavy Molasses / Sugarcane Syrup and RS/ENA from
Grains along with 8 MW Power Generation in 300 KLPD Grain Distillery
Setup approved under B2 Category for product Ethanol by
Olam Global Agri Commodities India Pvt. Ltd. (OGACIPL);**

Located at At/Post: Channehatti, Rajgoli (Kh.) Tal: Chandgad, Dist.: Kolhapur, Maharashtra
State.

1) THE PROJECT

Olam Global Agri Commodities India Pvt. Ltd. (OGACIPL) located at Gat No. 76/1, 76/2/1, 76/2/2, 757, At/Post: Channehatti, Rajgoli (Kh.) Tal: Chandgad, Dist.: Kolhapur, Maharashtra State. Industrial site is towards North – West of Kolhapur, at a distance of about 77 Km from site. Existing Sugarcane crushing capacity of the sugar factory is about 4,960 TCD. First crushing season for sugar factory was done in year 2010-11. The proposed Expansion of Sugar Factory from 4,960 TCD to 10,000 TCD, Cogeneration Plant from 25 MW to 33 MW and Manufacturing of 300 KLPD RS / ENA/ Ethanol from C & B Heavy Molasses / Sugarcane Syrup and RS/ENA from Grains along with 8 MW Power Generation in 300 KLPD Grain Distillery Setup approved under B2 Category for product Ethanol.

The above mentioned proposed project attracts the condition of prior Environmental Clearance procurement as per the EIA Notification No. S. O. 1533 (E) dated 14.09.2006 and amendments thereto issued by Ministry of Environment, Forest and Climate Change (MoEFCC); New Delhi. Now, as per the amended “EIA Notification No. S.O. 1599 (E)” dated 25.06.2014; the sugar factory & cogeneration plant comes under Category ‘B’ activity 5(j), 1(d) respectively. But due to applicability of General Condition i.e. Maharashtra-Karnataka Interstate boundary is located at 0.25 Km on North side and Adjacent on East side of Industry plot, the application is submitted to MoEFCC for grant of ToRs.

Details of capital investment are given in table 1.

Table 1 Project Investment Details

No.	Industrial Unit	Capital Investment (Rs. Cr)		
		Existing	Proposed	Total
1	Sugar Factory & Co-gen Plant	372.89	84.54	457.43
2	Distillery	299.10	15.00	314.10
	Total	671.99	99.54	771.53

2) THE PLACE

Proposed establishment of distillery & expansion of sugar factory shall be carried out in existing premises of Sugar Factory by OGACIPL. Total land utilized for industrial activities by OGACIPL is 55 Ha. Out of this, built up area of existing sugar factory & residential colony is 10.79 Ha. After establishment of Distillery total built up area will be 12.94 Ha. Refer Appendix - A from Draft EIA report for plot layout plan. A No Objection Certificate (NOC) for proposed project has been obtained from the Rajgoli (Kh.) Gram panchayat. Same is presented at certificates and other documents of EIA report.

Table 2 Area Break up

No.	List of Area	Area (Sq. M)		
		Existing	Proposed	Total
1	Total Plot Area	5,50,000	--	5,50,000
2	Total Built-up Area			
	Sugar Factory & Co-gen Plant	54,433.96	15,681.20	70,115.16
	Distillery	53,491.07	5,840.94	59,332.01
	Total Built-up Area	1,07,925.03	21,522.14	1,29,447.17
3	Area under Road	71,793.86	--	71,793.86
4	Parking Area	83,522.02 (15%)		83,522.02 (15%)
5	Green Belt Area	2,57,713.20 (47%)	--	2,57,713.20 (47%)
6	Total Open Area	--	--	7,523.77

3) THE PROMOTERS

OGACIPL promoters are well experienced in the field of Sugar Factory and have made a thorough study of entire project planning as well as implementation schedule. The names and designations of the promoters are as under-

Table.3 List of Promoters

No.	Name	Designation
1	Mr. Sanjay Sacheti	Director
2	Mr. Ramarathinam Srinivasrathinam Kuppurathinam	Director
3	Mr. Neelamani Mutukumar	Director

4) THE PRODUCTS

The details of products that are being manufactured under existing sugar factory as well as those to be manufactured under Establishment of Distillery & Expansion of Sugar Factory are represented in following table

Table 2.6 List of Products & By-products for Integrated Complex

Industrial Unit	Product & By-products	Quantity (MT/M)		
		Existing	Proposed	Total
Sugar Factory (Expansion from 4,960 TCD to 10,000 TCD)	Sugar (13.5%)*	19,350	21,150	40,500
	Molasses (4%)*	5,940	6,060	12,000
	Bagasse (30%)*	44,640	45,360	90,000
	Pressmud (3%)*	4,500	3,000	7,500
Co-gen (Expansion from 25 MW to 33 MW)	Electricity (MW)	25	8	33
Distillery (Proposed 300 KLPD)	RS / ENA/ Ethanol from Molasses or Sugarcane Juice (KL/M)	--	9,000	9,000
	RS/ENA from Grain (KL/M)	--	9,000	9,000
	Ethanol from Grain under B2 Category (KL/M)	9,000	--	9,000
	CO ₂ Gas	6,750	--	6,750
	DDGS	7,500	--	7,500
	Electricity Generation (MW) on Distillery boiler	--	8	8

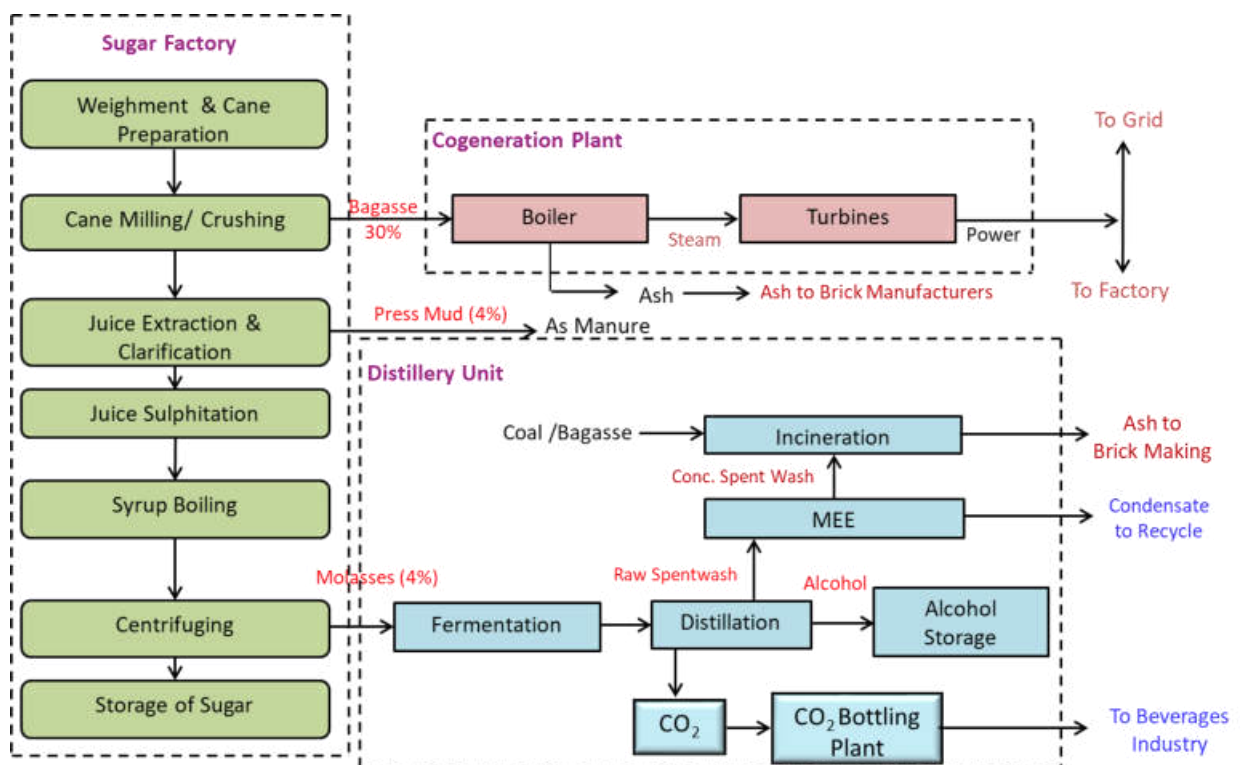
By-products generated during production of sugar in the form of molasses would be used as raw materials for distillery. Bagasse generated would be used for fuel in boiler. Pressmud shall be stored temporary in yard in own premises & same will be sold to farmers as manure. By-products generated from distillery will be in the form of fusel oil & CO₂ Gas. Fusel oil will be used in manufacturing of perfumes & CO₂ Gas will be compressed, bottled and sold for secondary use.

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 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 OGACIPL decided to go for expansion.

6) MANUFACTURING PROCESS

Figure 1 Integrated Manufacturing Process Operations



7) ENVIRONMENTAL ASPECTS

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

A. Water Use, Effluent Generation and its Treatment

a. Water Use

The details of water consumption in existing expansion as well as proposed activities are as follows-

Table 2.17 Water Consumption in Proposed 300 KLPD Distillery

No	Description	Molasses Based Distillery	
		During Crushing	Non-Crushing
1	Domestic	#15	#15
2	Industrial		
	Process	*2382	*2382
	Cooling Makeup	*1044	*1044
	Boiler Makeup	144 (#103 + *41)	#144
	DM Plant	#30	#30
	Lab & Washing	*10	#10
	Ash quenching	*5	*5
	Industrial Use	3615 (#133+*2382+*1100) (96% Recycle)	3615 (#1233+*2382) (66% Recycle)
	Grand Total	3630 (#148+*2382+*1123)	3630 (#1248+*2382)
	Norm: Fresh Water @ 10 KL / KL Alcohol.	0.5 KL / KL	4.1 KL / KL

No	Description	Cane Syrup Based	Grain Based
1	Domestic	#15	#15
2	Industrial		
	Process	--	1800 (#476 + *954 + Ω370)
	Cooling Makeup	*1044	1044 (*745 + #299)
	Boiler Makeup	*144	#144
	DM Plant	*30	#30
	Lab & Washing	*10	#10
	Ash quenching	*5	*5
	Industrial Use	*1233 (100% recycle)	3033 (#959 + *1704 + Ω370) (68% Recycle)
	Grand Total	1248 (#15+*1233)	3048 (#974 + *1704 + Ω370)
	Norm: Fresh Water @ 10 KL / KL Alcohol.	0 KL/KL	3.2 KL/KL

Note : #- Fresh Water, ♣- CPU Treated Effluent, Ω- Recycled Thin Slope, * - Excess Condensate.

Table 2.18 Water Consumption Sugar Factory

No.	Description	Existing (M ³ /D)	Proposed (M ³ /D)	Remark
A	Domestic	#60	#78	<ul style="list-style-type: none"> • Fresh Water use (process): 1. Existing: 0 Lit /MT 2. Proposed: 0 Lit /MT • Norm: 100 Lit/MT of cane crushed
B	Industrial			
	Process	*1465	*2950	
	Cooling Makeup	648 (*348 +@300)	850 (*260 +@590)	
	Boiler Makeup	*264	*432	
	DM Backwash	*53	*86	
	Lab & Washing	*5	*10	
	Ash Quenching	*2	*4	
	Industrial Use	2437 (*2137 +@300) (100% Recycle)	4332 (*3742 +@590) (100% Recycle)	
C	Green Belt	230 (*172 + \$58)	230 (*158 + \$72)	
D	Grand Total	2727 (#60 + *2309 + @300 + \$58)	4640 (#78 + *3900 + @590 + \$72)	

Note: : #- Fresh Water, ♣- CPU Treated Effluent, Ω- Recycled Thin Slope, * - Excess Condensate

Total water requirement for proposed distillery under molasses based operations during Non-crushing season shall be to the tune of 3630 M³/Day. Out of this, 1248 CMD will be Fresh water taken from Tamraparni River and 2382 CMD will be recycled effluent from proposed Distillery CPU in molasses based operations. Total 66% recycle water will be used in distillery.

Further, water requirement under Sugarcane Juice Operation shall be to the tune of 1248 M³/Day. Out of this, 1233 CMD will be Treated effluent from Distillery CPU in Sugarcane Operations, 15 CMD will be Fresh water taken from Tamraparni River.

The total water requirement under Grain based distillery shall be to the tune of 3048 M³/Day. Out of this 1704 CMD will be Treated effluent from Distillery CPU in Sugarcane Operations, 974 CMD will be Fresh water taken from Tamraparni River,

For existing Sugar Factory total 2727 CMD water is consumed. After Expansion of Sugar factory 4640 CMD water will be consumed. Out of this 78 CMD is fresh water taken from Tamraparni River, 590 CMD is Treated water from ETP & 72 CMD is Treated water from STP. More details about water budget are presented in EIA report at Chapter 2.

Total effluent would be generated from the various operations & processes from existing & expansion activities in the sugar factory and establishment of the distillery. Details of same are presented below-

Table 2.17 Effluent Generation in Proposed 300 KLPD Distillery

No	Description	Effluent			Disposal
		Molasses based	Cane juice based	Grain based	
1	Domestic	12	12	12	
2	Industrial				
3	Process (Fermentation & Dilution)	Raw Sp. Wash- 2400	Raw Sp. Wash- 1200	--	<ul style="list-style-type: none"> • Molasses Operation: Raw Spent wash shall be concentrated in MEE. The concentrated spent wash

		Conc. Spentwash-480	Conc. Spentwash-120		will be directly burnt into incineration boiler. • Grain Operation: Thick Slop & Wet Cake- to Drier – DDGS – ZLD.
		Sp. Lees- 412 MEE Condensate- 1920	Sp. Lees- 264 MEE Condensate- 1080	PRC Lees – 765 Condensate – 913	Other effluent viz. MEE Condensate, spent lees, cooling blow down, boiler blow down, lab & washing shall be forwarded to existing distillery CPU which is duly upgraded under expansion. Treated effluent shall be recycled in process to achieve ZLD of process effluent.
	Cooling blow down	157	157	157	
	Boiler blow down	30	30	30	
	DM Plant Backwash	30	30	30	
	Lab & Washing	10	10	10	
	Grand Total	Other Effluents – 2559 Spentwash-480	Other Effluents – 1571 Spentwash-120	Other Effluents – 1905	
	Norm: Spent wash Generation 8 KL/KL of Alcohol.	1.6 KL/KL	0.4 KL/KL	--	

Table 2.17 Effluent Generation in Sugar Factory

No.	Description	Existing	After Expansion	Disposal
1	Domestic	48	63	Proposed STP
2	Industrial			Treated in existing ETP having primary, secondary & tertiary treatment.
	Process	147	354	
	Cooling Makeup	65	85	
	Boiler Makeup	53	87	
	DM Backwash	55	86	
	Lab & Washing	5	10	
	Industrial Total	325	622	
	Effluent Generation (Norm : 200 L/Tonne of cane crushed)	65	62	

b. Effluent Treatment

i) Domestic Effluent

Domestic effluent from existing activities of OGACIPL sugar factory is to the tune of 48 M³/D same is being treated separately in septic tanks followed by soak pits provided in a decentralized manner. After implementation of new distillery & sugar factory expansion, total domestic effluent from OGACIPL campus shall be 75 M³/ Day (Domestic effluent from sugar factory– 63 M³/ Day and to that of distillery 12 M³/ Day). Same shall be treated in proposed Sewage Treatment Plant (STP) and the treated effluent shall be reused for green belt development in own factory premises.

ii) Industrial Effluent

Total trade effluent generated from existing sugar factory is 325 M³/D same is treated in existing Effluent Treatment Plant (ETP) having capacity 500 M³/D provided in own factory premises comprising of primary, secondary & tertiary unit operations. After Expansion of Sugar Factory total trade effluent generated from 622 M³/D same is treated in existing Effluent Treatment Plant (ETP) which will be upgraded having capacity 500 M³/D. Figure 2.8 may be referred for same. Further, treated effluent is being used for green belt development in own factory premises.

Effluent generated from Molasses based distillery, total raw spent wash to be generated under Molasses based @ 2400 M³/D, would be concentrate in Multiple effect evaporator (MEE) and the conc. spentwash @ 480 M³/D (1.6 KL/KL of alcohol) would be burnt in incineration boiler. Other effluents viz. spent lees @ 412 M³/D, MEE condensate @ 1920 M³/D and other effluents @ 227 M³/D will be treated in proposed CPU under distillery unit. Refer figure 2.6 for the same. Treated water from CPU 2382 will be reused in process, thereby achieving Zero Liquid Discharge (ZLD).

Effluent generated from Cane juice based distillery, total raw spent wash to be generated @ 1200 M³/D, would be concentrate in Multiple effect evaporator (MEE) and the conc. spentwash @ 120 MT/D (0.8 KL/KL of alcohol) would be burnt in incineration boiler. Other effluents viz. spent lees @ 264 M³/D, MEE condensate @ 1080 M³/D and other effluents @ 227 M³/D will be treated in proposed CPU under distillery unit. Refer figure 2.6 for the same. Treated water from CPU 1450 will be reused in process, thereby achieving Zero Liquid Discharge (ZLD).

After establishment of grain based distillery, wet cake i.e. Distillers Wet Grains with Soluble (DWGS-60% moisture) @ 482 MT/D will be generated after decantation of spent wash, which will be sold to farmers as cattle feed. This wet cake further dried in dryers will result in to loss of moisture thereby forming Distillers Dry Grains with Soluble (DDGS- 10% moisture) @ 250 MT/D. This DDGS has more shelf life compared to DWGS & sold as cattle feed.

Figure 2.6 Flow Chart of Proposed Distillery CPU

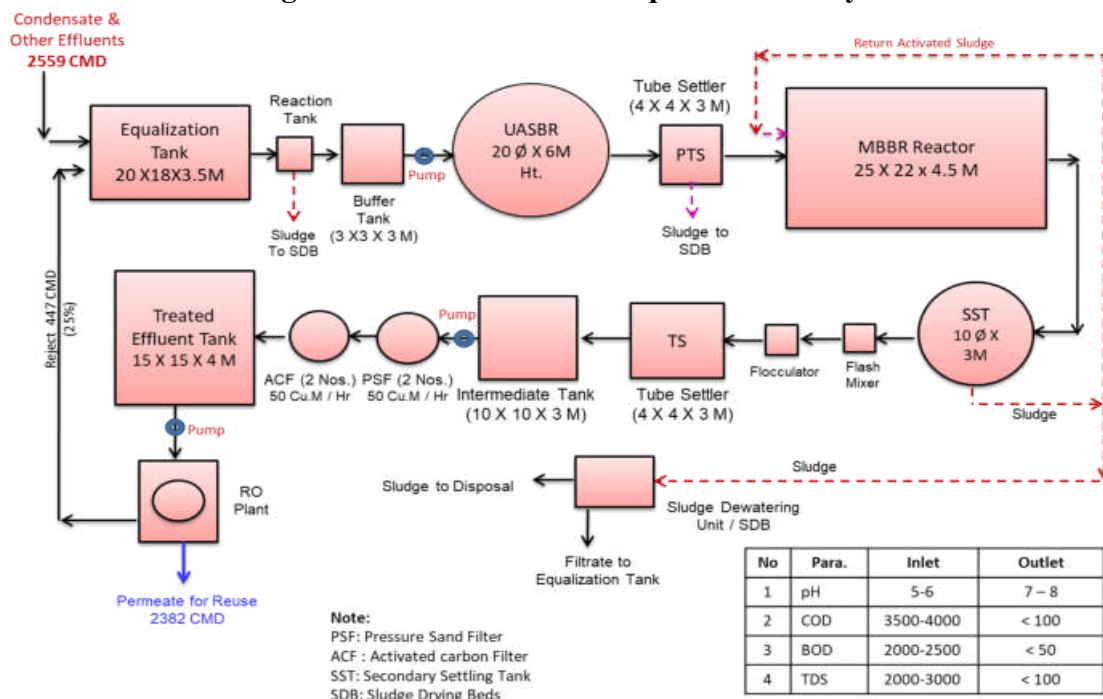


Figure 3 Flow Chart of Existing Sugar Factory ETP

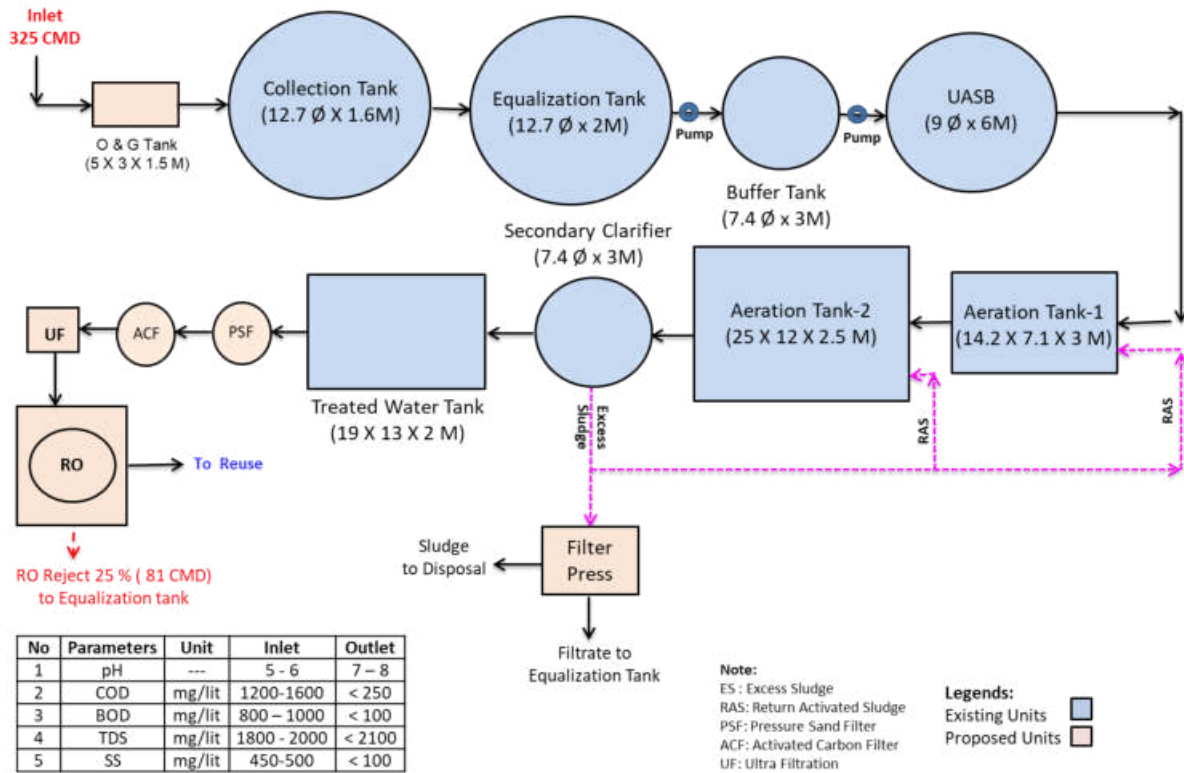
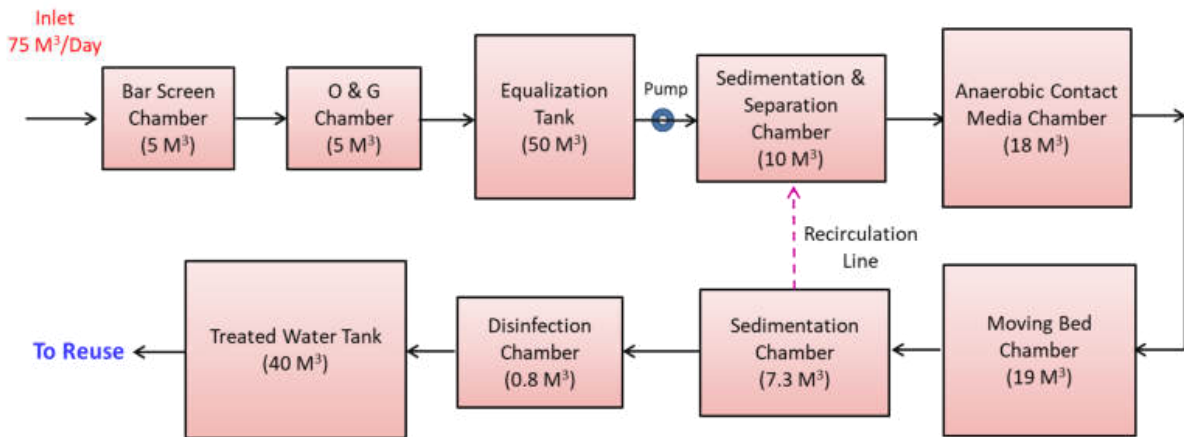
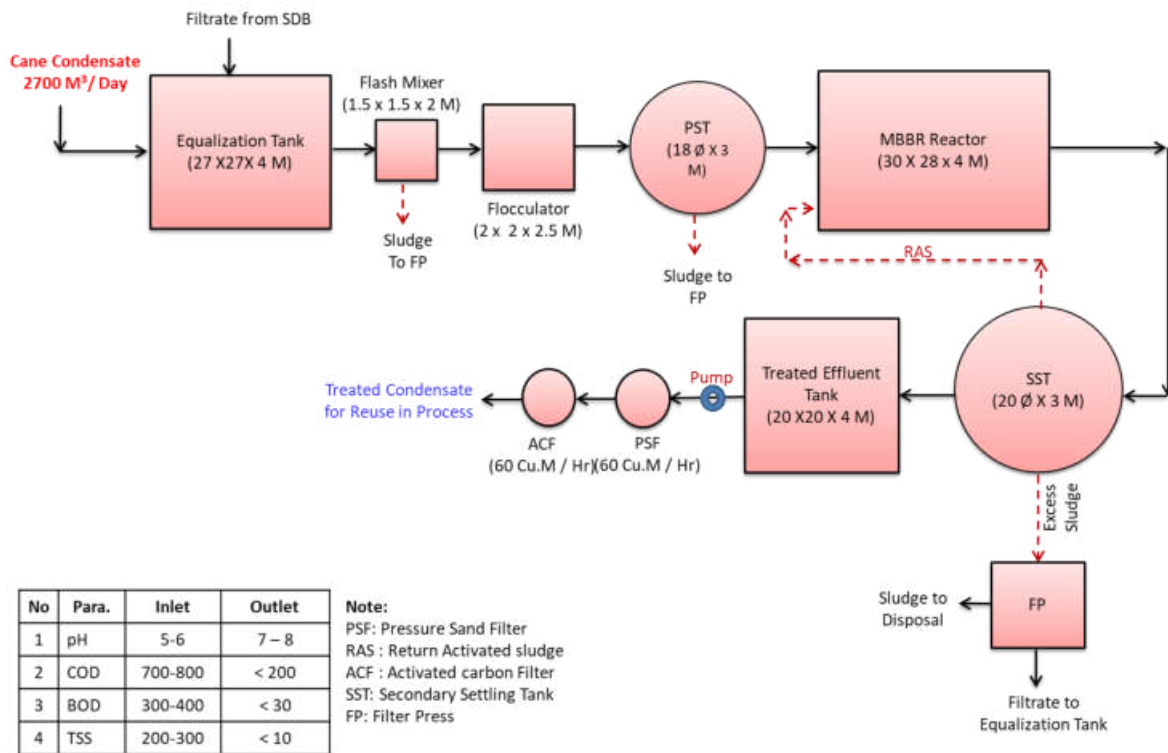


Figure 4 Flow Chart of Proposed STP



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

Figure 4 Flow Chart of Proposed Sugar factory CPU



B. Air Emissions

Air Pollution can be defined as the presence in the outdoor atmosphere, of one or more air contaminants (i.e. dust, fumes, gas, mist, odour, smoke or vapour) in sufficient quantities, of such characteristics and of such duration so as to threaten or to be injurious to human, plant or animal life or to property, or which reasonably interferes with the comfortable enjoyment of life or property. Assignments w.r.t. Air Pollution (AP) and Air Quality (AQ) including modeling were undertaken by in-house FAE of EEIPL. Details of sources of air pollution & control equipment's are presented in Table 2.21. Fuel Storage and ESP's details are presented in Table 2.23 and Table 2.24 respectively. Stack height calculations for proposed distillery boiler is presented at **Appendix - F**.

Table 2.21 Details of Boilers Sets in OGACIPL

No.	Description	Sugar Factory		Distillery
		Existing	Proposed	Proposed
	Attached to-	Boiler 1*	DG Sets	Boiler 2 Incineration Boiler 3*
1	Capacity	130 TPH (Existing 110 TPH to be modified to 130 TPH)	725 KVA (2 Nos.), 320 KVA	50 TPH 60 TPH
2	Fuel type	Bagasse	HSD	Bagasse Spentwash + Bagasse/Coal
3	Fuel Qty. (MT/D)	Existing: 1320 Proposed: 240 Total: 1560	200 Ltr.	600 648+ 695/278

No.	Description	Sugar Factory		Distillery	
		Existing	Proposed	Proposed	Proposed
4	MOC	RCC	MS	RCC	RCC
5	Shape	Round	Round	Round	Round
6	Height, AGL	71	14	70	75 M
7	Diameter (internal)	2.5	0.6	3	3 M
8	APC equipment	ESP	--	ESP	ESP

Note: Under B2 Category Grain based Distillery project, the 60 TPH bagasse fired boiler is approved and same boiler will be converted into Incineration Boiler. The approved 60 TPH boiler will be run on Spentwash & Bagasse/Coal during Molasses/ Sugarcane Juice operations and only bagasse will be used as fuel during Grain operations.

Also, the approved Stack height of 60 TPH bagasse fired boiler under B2 category EC is adequate for proposed incineration boiler.

Under Sugar Factory expansion, existing 110 TPH boiler will be modified to 130 TPH and one new additional boiler of capacity 50 TPH will be installed.

C. Noise Pollution Aspect

1. Sources of Noise

- The existing sugar factory and co-gen; noise generating sources are the boiler house, turbine rooms, cane crushing section and mill house, etc.
- In the Distillery, very high noise generating sources would not exist. Expected noise levels in the section would be about 70 dB (A) or so. Adequate noise abatement measures like silencer & maintenance of pumps, motors, and compressors would be carried out and enclosures would be provided to abate noise levels at source. Moreover, enclosures to the machinery would be provided wherever possible.
- 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).
- Existing sugar factory and co-gen; noise generating sources are the boiler house, turbine rooms, cane crushing section and mill house, etc.
- 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 Measure

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

D. Hazardous Wastes

No any hazardous waste would be generated from Distillery project. Hazardous waste generated from existing sugar factory and their disposal methods is presented in table 8.

Table 8 Details of Hazardous Waste

No.	Category	Quantity		Disposal
		Existing	After Expansion	
1	(5.1) Used / Spent	6 MT/A	10 MT/A	Reuse in own boiler

E. Solid Wastes

Table 9 Solid Waste Generation & Disposal

No	Unit	Type	Quantity (MT/M)		Disposal
			Existing	After Expansion	
1	Sugar Factory & Co-gen Plant	ETP Sludge	9	16	Used as Manure Brick manufacturing
		Boiler Ash	1200	1950	
2	Distillery	Boiler Ash	660	4140	Used as Manure
		Yeast Sludge	1920	1920	
		CPU Sludge	54	75	

F. Odor Pollution

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

G. Compliance with the Norms

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

H. Environmental Management Cell (EMC)

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

Table 10.Environmental Management Cell of OGACIPL

No.	Name of Member	Designation
1	Bharat Kundal	Chairman
2	Shashank Shekhar	Member
3	Shankar Managavi	Member
4	William Carvalho	Environmental Manager
5	Arshad Sandi	Chemist
6	Dattu Patil	Chemist
7	Pradeep Dhavale	Chemist
8	Sachin Kamble	Chemist
9	Appaya Belli	Operator
10	Basu Agasgi	Operator
11	Ravi Naik	Operator

No.	Name of Member	Designation
12	Iranna Naik	Helper
13	Jotiba Patil	Helper
14	Bajarao Kadam	Helper

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

Table 11. Capital as well as O & M Cost (Existing & Proposed)

No.	Description	Cost Component (Rs. Lakhs)	
		Capital	Annual O & M
A	Existing		
1	Air Pollution Control: APC Equipment's [ESP for boiler – 1 Nos. (Stack height 71 M), OCMS	500	65
2	Water Pollution Control: Sugar Factory ETP, OCMS	265	10
3	Noise Pollution Control: PPE (Ear plugs, Ear Muff, Insulations, Barriers)	30	5
4	Environmental Monitoring & Management	30	5
5	Occupational Health & Safety: Health checkup, Occupational health center	130	25
6	Green Belt Development	50	10
	(2.7% of Rs. 372.89 Cr; Existing Investment) Total	1,005	120
B	Approved 300 KLPD Grain Distillery Project under B2 Category		
1	Air Pollution: APC Equipment's [ESP for boiler – 1 Nos. (Stack height 75 M)], OCMS, CO ₂ bottling Plant, Ash handling system	700	70
2	Water Pollution: Installation of Distillery CPU, Sugar Factory CPU, STP, Installation of MEE, Dryer for Grain.	2,500	250
3	Noise Pollution Control PPE (Ear plugs, Ear Muff, Insulations, Barriers)	50	5
4	Occupational Health & Safety: Health checkup, OHC	100	20
5	Environmental Monitoring	50	5
6	Green Belt Augmentation & Rain Water Harvesting Plan	150	15
7	Afforestation in Parsenahatti village; 1000 Trees X Rs.500/ No.	5	2
8	Coverage of Bagasse Yard	100	10
9	Surfacing of Internal Roads to control fugitive dust and Ash Silo	50	5
	Total; (9% of Capital Investment of Rs. 398.64 Cr)	3,705	382
C	Proposed Expansion Project		
1	Air Pollution: APC Equipment's [ESP for boiler – 1 Nos. (Stack height 70 M)], OCMS, Ash handling system	600	60
2	Environmental Monitoring	30	10
	Total; (6% of Capital Investment of Rs. 99.54 Cr)	630	70
	Grand Total	5,340	572

I. Rainwater Harvesting Aspect

- Average annual rainfall in the area = 1060 mm

Table .12 Area Taken for RWH

No.	Description	Area (Sq.M)	Runoff Factors Considered	Average Annual Rain Fall (M)	RWH Quantity (M ³)
1	Roof Top Harvesting				
i	Rooftop Area	43,058.15	0.8	1.06	36,513.31
	Total Rooftop Harvesting				19,665.37
2	Surface Water Harvesting				
i	Green Belt Area	2,57,713.20	0.3	1.06	81,952.73
ii	Area under Roads	71,793.86	0.5	1.06	38,050.74
iii	Parking Area	83,522.02	0.5	1.06	44,266.67
iv	Open Space	7,523.77	0.3	1.06	2,392.55
	Total Surface Water Harvesting				1,66,662.69

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

Rooftop Harvesting	+	Surface Harvesting	=	Total RWH
36,513.31	+	1,66,662.69	=	2,03,176 M³
			=	203.17 ML

J. Green Belt

Table .14 Area Details

No.	List of Area	Area (Sq.M)
1	Total Plot Area	5,50,000
2	Existing Green Belt Area (47%)	2,57,713.20
3	Total Open Area	7,523.77

Criteria for Green Belt Development Plan

Emission of SPM, SO₂ is the main criteria for consideration of green belt development. Plantation under green belt is provided to abate effects of the above emissions. Moreover, there would also be control on noise from the industry to surrounding localities as considerable attenuation would occur due to the barrier of trees provided in the green belt.

Socio-Economic Development

Socio economic study was carried within 10 Km radius of the study area was carried out with the help of a structured close ended interview schedule, comprising of 32 questions in Marathi, which was drafted prior to and employed during the survey. Refer Socio – economic profile in Chapter 3 of EIA report for detailed information of socio economic aspect. Observations and conclusions after the socio-economic study are as follows-

- Most of the villages have basic facilities like drinking water, preliminary educational infrastructure, toilets and electricity. Good transportation & satisfactory educational facilities are present.
- A majority of the population within the sample size had a good income which is mostly due to sugarcane cultivation.

- Indirect & direct Job opportunities provided to locals by industry.
- Most villages lacked drainage system, open drainages; scattered solid waste as well as poor sanitation was visible.
- Improper, inadequate and not within close vicinity health facilities is the major problem faced by locals.

7) ENVIRONMENTAL MONITORING PROGRAMME

Reconnaissance of the study area was undertaken in the Pre monsoon period. Field monitoring for measuring meteorological conditions, ambient air quality, water quality, and soil quality and noise levels was initiated. Report incorporates the data monitored during the period from November 2021 – December 2021 – January 2022 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 topo sheets 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.	Classes	Area in Ha.	Percentage
1	Built Up Area	1223	3.70
2	Crop Land	7556	53.30
3	Fallow Land	4360	30.26
4	Barren Land	2347	6.92
5	Water Bodies	570	0.18
6	Grass Land with open Scrub	5986	2.39
7	Forest	9373	3.25
	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, Aurangabad.

Meteorological parameters were monitored during the period December-2022 January - February-2023. Details of parameters monitored, equipment's used and the frequency of monitoring have been given in Chapter 3 of the EIA report. Hereunder, details of predominant wind directions and wind categories are given.

D. Air Quality

This section describes the selection of sampling locations, includes the methodology of sampling and analytical techniques with frequency of sampling. Presentation of results for **December-2022 January -February-2023** survey is followed by observations. All the requisite monitoring assignments, sampling and analysis was conducted through the laboratory

of Green Envirosafe Engineers & Consultant Pvt. Ltd., Pune which is NABL accredited and MOEFCC; New Delhi approved organization. Further, same has received certifications namely ISO 9001– 2015 and OHSAS 18001–2007 from DNV. Ambient air monitoring was conducted in the study area to assess the quality of air for PM₁₀, PM_{2.5}, SO₂, NO_x and CO. various monitoring stations selected are shown in table 16.

Table 16 Ambient Air Quality Monitoring (AAQM) Locations

Location	Location Name	Type (Industrial-Rural)	Location Details	Type of Zone (Core-Buffer)	Distance from site (Km)	Direction w.r.t site	Latitude	Longitude
1	Industrial Site	Industrial	-	Core	---	---	16° 1'55.59"N	74°27'32.51"E
2	Vantamuri	Rural	U/w	Buffer	8.03	E	16° 1'51.11"N	74°32'1.88"E
3	Sutagatti	Rural		Buffer	5.54	NE	16° 3'8.77"N	74°30'24.43"E
4	Kamewadi	Rural	D/w	Core	4.69	W	16° 1'58.34"N	74°24'52.76"E
5	Teurwadi	Rural		Buffer	8.96	W	16° 1'27.85"N	74°22'33.87"E
6	Gudaganatti	Rural	C/w	Core	4.44	N	16° 4'20.11"N	74°26'52.31"E
7	Kurihala	Rural		Core	4.75	S	15°59'35.80"N	74°27'2.94"E
8	Shivapur	Nearest Habitat	NH	Core	1.39	E	16° 2'4.34"N	74°28'18.83"E
Remark	The Predominant wind direction is East. Accordingly there are two villages (Vantamuri & Shivapur) in east direction as an upwind location. But the village shivapur is nearest to the industrial site & there is no other village in the predominant direction. So we have considered Sutagatti village as upwind location which is in NE direction.							

Table 17 Summary of the AAQ Monitoring Results for Season [December 2022-January - February 2023]

		Location							
		Industrial Site	Vantamuri	Sutagatti	Kamewadi	Teurwadi	Gudaganatti	Kurihala	Shivapur
PM10 µg/M3	Max.	64.4	60.9	53.4	60.0	59.3	60.8	59.5	62.3
	Min.	56.4	47.0	48.3	49.7	50.1	47.1	48.0	51.7
	Avg.	62.5	50.4	51.2	55.6	54.0	53.2	52.0	57.7
	98%	64.4	57.8	53.3	59.8	58.7	60.1	59.5	61.9
PM2.5 µg/M3	Max.	32.1	23.1	21.9	26.8	25.8	24.8	25.2	28.7
	Min.	22.6	17.7	16.3	22.3	20.7	19.7	18.4	22.5
	Avg.	28.1	20.9	19.2	24.7	23.0	22.1	21.6	25.8
	98%	31.7	23.1	21.7	26.7	25.8	24.6	25.0	28.5
SO2 µg/M3	Max.	17.8	11.1	11.4	15.7	15.1	14.2	12.5	16.7
	Min.	11.8	5.7	5.3	10.0	10.1	9.4	7.2	10.6
	Avg.	15.8	9.5	8.6	13.2	12.8	11.9	10.0	14.1
	98%	17.8	11.0	10.9	15.7	15.1	14.2	12.5	16.1
NOx µg/M3	Max.	27.1	19.8	17.9	23.9	22.4	21.3	20.4	23.4
	Min.	22.0	15.5	13.6	18.2	18.8	17.2	15.1	20.5
	Avg.	24.3	17.9	16.0	21.0	20.9	19.4	18.0	22.3
	98%	26.5	19.5	17.9	23.7	22.4	21.1	20.3	23.4
CO mg/m3	Max.	0.550	0.060	0.030	0.090	0.070	0.090	0.080	0.100
	Min.	0.050	0.040	0.030	0.070	0.050	0.070	0.060	0.080
	Avg.	0.300	0.043	0.030	0.075	0.054	0.077	0.067	0.089
	98%	0.550	0.055	0.030	0.090	0.065	0.090	0.080	0.100

Notes: PM₁₀, PM_{2.5}, SO₂ and NO_x are computed based on 24 hourly values, CO is computed on 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		NO _x µg/M ³		CO mg/M ³	
	24 Hr	A.A.	24 Hr	A.A.	24 Hr	A.A.	24 Hr	A.A.	8 Hr	1 Hr
Industrial, Rural & Residential Area	100	60	60	40	80	50	80	40	2	4
Eco-sensitive Area Notified by Govt.	100	60	60	40	80	20	80	30	2	4

Note: A.A. represents Annual Average

E. Water Quality

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

Table 19 Monitoring Locations for Surface Water

Sr. No	Location Name	Sample Code	Type of Water Source	Type of Zone (Core-Buffer)	Distance from site (Km)	Direction w.r.t site	Latitude	Longitude
1	Channehatti	SW1	Pond	Core Zone	0.52	N	16° 2'17.18"N	74°27'24.12"E
2	Channehatti	SW2	Nala	Core Zone	1.38	NW	16° 2'22.23"N	74°26'47.02"E
3	Yaratanhatti	SW3	Nala	Core Zone	2.29	NNW	16° 3'7.41"N	74°26'53.18"E
	Kamewadi	SW4	River	Core Zone	3.84	ENE	16° 2'29.80"N	74°25'22.13"E
5	Kamewadi	SW5	River	Core Zone	4.66	NW	16° 3'18.97"N	74°25'13.75"E
6	Yaratanhatti	SW6	River	Core Zone	2.16	NNW	16° 3'8.28"N	74°27'7.33"E
7	Parsenahatti	SW7	River	Core Zone	3.23	NE	16° 3'13.67"N	74°28'46.30"E
8	Dindalkop	SW8	Lake	Core Zone	3.84	SSW	16° 0'20.28"N	74°26'11.41"E

Table 20 Monitoring Locations for Ground Water

Sr. No.	Sample Code	Location Name	Type (Dug Well-Bore Well)	Type of Zone (Core-Buffer)	Distance from site (Km)	Direction w.r.t site	Latitude	Longitude
1	GW-1	Rajgoli Bk	Dug Well	Core Zone	1.19	SSW	16° 1'23.90"N	74°27'16.36"E
2	GW-2	Channehatti	Dug Well	Core Zone	0.63	SW	16° 1'50.60"N	74°27'10.01"E
3	GW-3	Parsenahatti	Dug Well	Core Zone	1.04	SSE	16° 1'33.05"N	74°27'47.57"E
4	GW-4	Rajgoli Bk.	Dug Well	Core Zone	1.30	SW	16° 1'36.04"N	74°26'52.76"E
5	GW-5	Rajgoli Bk.	Dug Well	Core Zone	2.08	SSW	16° 1'3.22"N	74°26'50.94"E
6	GW-6	Channehatti	Dug Well	Core Zone	1.47	W	16° 2'6.44"N	74°26'38.63"E

Sr. No.	Sample Code	Location Name	Type (Dug Well-Bore Well)	Type of Zone (Core-Buffer)	Distance from site (Km)	Direction w.r.t site	Latitude	Longitude
7	GW-7	Parsenahatti	Dug Well	Core Zone	1.86	E	16° 2'3.89"N	74°28'30.52"E
8	GW-8	Yaratanhatti	Dug Well	Core Zone	1.95	NNW	16° 2'54.06"N	74°26'51.93"E
Remark								

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

F. Noise Level Survey

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

Table 21 Noise Sampling Locations

No	Location Name	Type (Industrial / Rural)	Type of Zone (Core/ Buffer)	Distance from site (Km)	Direction w.r.t site	Latitude	Longitude
1	Site	Industrial	Core	-	-	16° 1'55.59"N	74°27'32.51"E
2	Shivapur	Rural	Buffer	1	E	16° 2'1.34"N	74°28'11.55"E
3	Linganhatti	Rural	Buffer	2.3	SE	16° 0'36.46"N	74°27'40.43"E
4	Diddalkop	Rural	Buffer	4.5	SW	15°59'53.54"N	74°26'4.10"E
5	Rajgoli	Rural	Buffer	3.2	SW	16° 1'18.44"N	74°25'49.39"E
6	Channehatti	Rural	Buffer	3.4	NW	16° 2'38.27"N	74°25'46.58"E
7	Ramawadi	Rural	Buffer	4.1	NW	16° 3'44.27"N	74°26'12.82"E
8	Masti	Rural	Buffer	4.4	NE	16° 4'12.70"N	74°28'22.60"E

Table 22 Ambient Noise Levels

Sr. No.	Location	Average Noise Level in dB(A)					
		L ₁₀	L ₅₀	L ₉₀	L _{eq(day)}	L _{eq(night)}	L _{dn}
1	N1	52.0	53.2	57.4	56.1	51.5	59.0
2	N2	42.9	46.8	47.5	52.7	41.8	52.3
3	N3	42.8	46.1	47.7	51.0	42.1	51.4
4	N4	42.3	45.8	47.3	51.7	41.2	51.5
5	N5	43.0	47.0	47.7	53.3	41.8	52.8
6	N6	42.7	46.4	47.9	52.2	41.8	52.1
7	N7	42.3	46.4	47.5	51.4	41.6	52.2
8	N8	42.6	45.9	47.6	51.6	41.3	51.5

G. Socio-Economic Profile

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

H. Ecology

Ecological survey for establishment of distillery by OGACIPL was carried. Out of the total 32 villages within 10 km radius, 18 villages were selected for Ecology and Biodiversity (EB) studies and for Questionnaire survey, for being representative of the major habitats in the study area i.e., 4 villages within 5 km radius and 3 villages between 5 and 10 km radius. Chapter 3, Section 3.12 may be referred for details of this aspects.

8) ADDITIONAL STUDIES & INFORMATION

Risks Assessment

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

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

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

1. Risk to Plant: This risk is to be given priority only when it is proved beyond doubt that the risk to life is so low that reducing this risk may not be justified. Under this consideration, the risk to economic damage may be considered.
2. Risk to Public and Employees: The scale used for risk to employee and public is Fatal Accident Rate (F.A.R.) or more commonly Fatal Accident Frequency Rate. (F.A.F.R.). The F.A.R. and F.A.F.R. is defined as number of deaths from industrial injury expected in a group of 1000 men during their working period. For more details w.r.t. this aspect, Chapter 7 of EIA may be referred.

9) ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

A. Impact on Topography

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

B. Impact on Climate

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

C. Impact on Air Quality

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

i. Baseline Ambient Air Concentrations

24 hourly 98th percentile concentrations of PM₁₀, PM_{2.5}, SO₂ and NO_x in Ambient Air, recorded during the field study conducted for the season December 2022-January - February 2023 are considered as baseline values. They represent impact due to operations of existing nearby industries on this region. Existing baseline concentrations are summarized in following table and the GLC of the same is included in 4th chapter of EIA report.

Table .23 Baseline Concentrations (98 Percentile)

Parameter	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO
Conc. (µg/m³)	62.5	28.1	15.8	24.3	0.30
NAAQS	100 µg/m ³	60 µg/m ³	80 µg/m ³	80 µg/m ³	4mg/m ³

ii. Air Polluting Sources

Major sources of air pollution are boiler as well as vehicles used for transportation. Under sugar factory expansion, the existing 110 TPH Boiler shall be modified to 130 TPH capacity with fuel quantity 1560 MT/D. ESP will be used as APC with stack height 71 M. Also, a new 50 TPH boiler will be installed with fuel 600 MT/D having ESP as APC equipment and 70 M Stack Height.

A new 60 TPH incineration boiler will be installed under proposed distillery unit. Bagasse / Coal + Sp.wash shall be used as fuel. Fuel quantity shall be Spent wash @ 648 MT/D, Coal @ 278 MT/D or Bagasse @ 695 MT/D. ESP will be used as APC equipment followed by stack height of 75 M.

D. IMPACT ON WATER RESOURCES

i. Impact on Surface Water Resources & Quality

Surface water along with recycled water will be used to meet water requirement of OGACIPL project complex. Effluent from distillery; Raw Spent wash shall be primarily conc. in Multi Effect Evaporator (MEE). Concentrated spent wash will be incinerate in incineration boiler. Other Effluents viz. spent lees, Boiler blow down, cooling tower, and lab; washing, DM backwash is forwarded to CPU. Treated effluent shall be used in process to achieve ZLD.

Total domestic effluent would be treated in proposed STP. Hence there will not be any impact on surface water resource. More details about water budget are presented at Chapter 2.

ii. Impact on Ground Water Resources & Quality

Water required for the industry would be obtained from Tamrparni river. Permissions have been obtained for lifting required amount of water from the river and a copy of the letter is enclosed for reference at Appendix – D. Ground water will not be a source of raw water for the 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 existing sugar factory as mentioned above, there will not be discharge of any untreated effluent on land. Dust Catcher with Wet Scrubber are installed to existing boilers. Boiler ash from existing boiler is used as manure/ give brick manufacturer. Hence, there will not be any major increase in chemical constituents of soil through deposition of air pollutants/ discharge of waste water. Moreover, there will not be any process emissions worth mentioning, the impact on the soil characteristics will be nil.

F. IMPACT ON NOISE LEVELS

Workers could get annoyance and can lose concentration during operation. It can cause disturbance during working. People working near the source need risk criteria for hearing damage while the people who stay near the industry need annoyance and psychological damage as the criteria for noise level impact analysis. OGACIPL is not major noise producing industry. There shall be no any prominent effect due to vibration at the project site.

G. IMPACT ON LAND USE

Present use of the project land is Industrial wherein the sugar factory have already been established. Proposed project Activity would be implemented in existing premises of OGACIPL. Hence no change in the land use pattern is expected. Therefore the impact on land use is non-significant.

H. IMPACT ON FLORA AND FAUNA

Discharge of untreated wastewater from the industry in surrounding area can also cause significant environmental impact on the aquatic habitats and affect dependent biodiversity. In case of air pollution, industry is going to contribute in SPM pollution load in nearby area. This may have negative impact particularly on avifauna, surrounding crop yields & local population. Details in respect of impacts on ecology and biodiversity are described in Chapter 3.

I. IMPACT ON HISTORICAL PLACES

No historical places in study area. No major impact was observed during site visit.

10) SALIENT FEATURES OF EMP

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

Table 24 Plan for Monitoring of Environmental Attributes in and around OGACIPL

No.	Description	Location	Parameters	Frequency	Conducted by
1	Ambient Air Quality	Upwind-2, Downwind-2 Crosswind-2 (Near Cane Yard, Near Main ETP, Near Colony.)	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO	Monthly	MoEFCC & NABL Approved External Lab
		Study area - (Villages namely – Vantamuri, Sutagatti, Kamewadi, Teurwadi, Gudaganatti, Kurihala, Shivapur)		Quarterly	
2	Work Zone Air Quality	4 Locations (Mill section, Sugar bagging section, Distillation Section)	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO	Monthly	
3	Stack Emissions	Boiler –3 Nos. (Existing boiler & Proposed Boiler), D.G Sets	SPM, SO ₂ , NO _x	Monthly	
4	Fugitive Emissions	Ethanol storage area & Distillation column	VOC	Monthly	
5	Ambient Noise	5 Locations (Near main gate, Near ETP, near Sugar godown, Distillation Section)	Spot Noise Level recording; Leq(n), Leq(d), Leq(dn)	Monthly	
	Work zone Noise	Premises – 5 Nos (Mill section, Boiler, DG set, Turbine section)		Monthly	
6	Effluent	Treated, Untreated	pH, SS, TDS, COD, BOD, Chlorides, Sulphates, Oil & Grease.	Monthly	
7	Drinking water	Factory Residential Colony	Parameters as per drinking water Std IS:10500	Monthly	
8	Soil	8 locations within 5 Km (Villages- Channehatti Yaratnhatti, Rajgoli Kh, Kurihala Bk , New Vantamuri, Bhutramhatti, Dundage, Attihal)	pH, Salinity, Organic Carbon, N, P, K	Quarterly	
9	Water Quality (Ground Water &	Locations in study area –Ground water (Villages: Rajgoli Bk, Channehatti, Parsenahatti, Rajgoli	Parameters as per CPCB guideline for water quality	Quarterly	

No.	Description	Location	Parameters	Frequency	Conducted by
	Surface Water)	Bk, Rajgoli Bk, Channehatti, Parsenahatti, Yaratanhatti) Surface Water- (Villages: Channehatti, Channehatti, Yaratanhatti, Kamewadi, Kamewadi, Yaratanhatti, Parsenahatti, Dindalkop)	monitoring – MINARS/27/2007-08		
10	Waste management	Implement waste management plan that Identifies and characterizes every waste associated with proposed activities and which identifies the procedures for collection, handling & disposal of each waste arising.	Records of Solid Waste Generation, Treatment and Disposal shall be maintained	Twice in a year	By OGACIPL
11	Emergency Preparedness such as fire fighting	Fire protection and safety measures to take care of fire and explosion hazards, to be assessed and steps taken for their prevention.	On site Emergency Plan, Evacuation Plan, firefighting mock drills	Twice a year	
12	Health Check up	Employees and migrant labour health check ups	All relevant health checkup parameters as per factories act.	Once in a Year	
13	Green Belt	Within Industry premises as well as nearby villages	Survival rate of planted sapling	In consultation with DFO.	
14	CER	As per activities	--	Six Monthly	

Executive Summary in Marathi

ओलम ग्लोबल ग्रॅवी कमोडीटीज इंडीया प्रायवेट लिमिटेड.

(ओ.ग्लो.ग्रॅ.क.इं.प्रा.लि)

मु/पो. चेन्नेहट्टी, राजगोळी (खु.), ता.चंदगड, जि. कोल्हापूर, महाराष्ट्र.
यांच्या

अध्याच्या आख्य कारखान्याची गाळप क्षमता ४,९६० टन प्रतिदिन पाखून १०,००० टन प्रतिदिन पर्यंत, अहजीव प्रकल्प २५ मे.पॅट पाखून ३३ मे.पॅट पर्यंत विस्तारिकरण आणि B2 श्रेणीअंतर्गत मंजूर ३०० किलो लि./दिन

धान्य कणांपर आधारित आशयनी प्रकल्पामध्ये मोलॅसिअ (बी व बी)/ केन शिरप यांचा पापर करून ३०० किलो लि./दिन आर.एअ/इ.एन.ए./इथेनॉल यांचे उत्पादन व धान्य कणांपाखून आर.एअ/इ.एन.ए. यांचे उत्पादन तसेच ८ मे.पॅट पीजनिर्मिती प्रकल्प या प्रकल्पांआहतच्या इन्व्हायमेंट इंपॅक्ट असेसमेंट अहवालाचा आरांश.

१) प्रकल्पा विषयी थोडक्यात

ओलम ग्लोबल ग्रॅवी कमोडीटीज इंडीया प्रायवेट लिमिटेड. (ओ.ग्लो.ग्रॅ.क.इं.प्रा.लि) हा प्रकल्प गट.नं. ७६/१, ७६/२/१, ७६/२/२, ७५७, मु/पो. चेन्नेहट्टी, राजगोळी (खु.), ता.चंदगड, जि. कोल्हापूर, महाराष्ट्र येथे उभारणेत आलेला आहे. हा प्रकल्प कोल्हापूर पाखून भूमारे ७७ कि.मी. अंतरापर उत्तर-पश्चिम दिशेला आहे आणि मुंबई पाखून ३७६ कि.मी. अंतरापर उत्तर-पश्चिम दिशेला आहे. अध्याच्या प्रकल्पामध्ये ४,९६० टन प्रतिदिन क्षमतेचा आख्य कारखाना कार्यरत आहे. अदर आख्य कारखान्याचा प्रथम गळीत हंगाम अंन २०१०-११ मध्ये घेणेत आला होता. ओ.ग्लो.ग्रॅ.क.इं.प्रा.लि च्या व्यवस्थापनाने ३०० किलो लि. प्रतिदिन क्षमतेचा आशयनी प्रकल्प व आख्य कारखान्याचे विस्तारीकरण हे अध्याच्या ४,९६० मे.टन/दिन आख्य कारखाना व २५ मे.पॅट अहजीव प्रकल्पाच्या आवासात उभारणीचे नियोजन केले आहे.

अदर प्रकल्प हा दि. १४.०९.२००६ च्या इन्व्हायमेंट इंपॅक्ट असेसमेंट (EIA) नोटीफिकेशन नं. अ. ओ. १५३३ (ई) च्या १४ अर्टेअर २००६ च्या नोटीफिकेशन मधील तरतुदीनुसार ओ.ग्लो.ग्रॅ.क.इं.प्रा.लि यांचा आख्य कारखाना विस्तारीकरण प्रकल्प श्रेणी 'अ' मध्ये येतो व प्रस्तापित आशयनी प्रकल्प श्रेणी 'अ' मध्ये येतो. परंतु अदर प्रकल्पापाखून ५ कि.मी. मध्ये आंतरराज्यीय शिमा येते व अदर प्रकल्प पर्यावरण, वने व हवामान अदल मंत्रालय, नवी दिल्ली यांच्या अश्र कमिटीने विचारात घेतला आहे. यानुसार, वने, पर्यावरण व हवामान अदल मंत्रालय, नवी दिल्ली यांच्याकडे फॉर्म १ अॅप्लिकेशन जमा केला आहे व अर्टर्डर्ड ToR's मंजूर झाले आहेत.

प्रस्तापित प्रकल्प राशयिताना सुरक्षिततेचे नियम व पर्यावरणाचे अंरक्षण करण्याच्या अर्थ गोष्टींची अश्रद्वारी घेतली जाईल. प्रस्तापित प्रकल्प राशयिताना सुरक्षिततेचे नियम व पर्यावरणाचे अंरक्षण करण्याच्या अर्थ गोष्टींची अश्रद्वारी घेतली जाईल.

खालील तक्त्यामध्ये गुंतवणुकीचे तपशील दिलेले आहेत.

तक्ता १ गुंतवणुक

क्र	विभाग	भांडवली गुंतवणुक (अ.करोडमध्ये)		
		अध्याची	प्रस्तापित	एकुण
१	आख्य कारखाना	३७२.८९	८४.५४	४५७.४३
२	आशयनी प्रकल्प	२९९.१०	१५.००	३१४.१०
	एकुण	६७१.९९	९९.५४	७७१.५३

२) प्रकल्पाची जागा

ओ.ग्लो.ग्रॅ.क.इं.प्रा.लि., मु/पो. चेन्नेहट्टी, राजगोळी (खु), ता.चंदगड, जि. कोल्हापूर, महाराष्ट्र येथे ५५ हेक्टर एवढी जागा अंपादित केली आहे. प्रस्तापित आशयनी प्रकल्पाचे व अध्याच्या आख्य कारखान्याचे अंधकाम क्षेत्र १२.९४ हे. एवढे आहे. ई.आय.ए रिपोर्टच्या अंनेअर अ ला लावले आहे. प्रकल्पासाठी लागणारे ना हरकत प्रमाणपर हे ग्रामपंचायत दामाजीनगर यांच्याकडून घेतले आहे ते ई.आय.ए रिपोर्टमध्ये जोडले आहे. जागेअंदर्भातील माहिती तक्ता २ मध्ये आहे. प्रकल्पासाठी लागणारे ना हरकत प्रमाणपर हे ग्रामपंचायत

राजगोळी (खु.) यांच्याकडून घेतले आहे ते ई.आय.ए रिपोर्टमध्ये जोडले आहे. जागेभंडर्भातील माहिती तक्ता २ मध्ये आहे.

तक्ता २ विविध विभागांच्या क्षेत्राचा तपशील

क्र.	तपशील	क्षेत्र (वर्ग.मी)		
		अध्याचा	प्रस्तावित	एकूण
अ.	एकूण क्षेत्र	५,५०,०००	-	५,५०,०००
ख.	अंधकाम क्षेत्र			
१	भाखर कारखाना	५४,४३३.९६	१५,६८१.२०	७०,११५.१६
२	आश्रयणी	५३,४३३.०७	५,८४०.९४	५९,२७३.०१
३	निवासी पन्हात आणि इतर सुविधा	१२,२४०	-	१२,२४०
	एकूण अंधकाम क्षेत्र	१,०९,९०६.०३	२१,५२२.१४	१,३१,४२८.१७
क.	हस्त पट्ट्यांतर्गत एकूण क्षेत्र	२,५७,७१३.२० (४७%)	-	२,५७,७१३.२० (४७%)
ड.	बोर्ड अंतर्गत क्षेत्र	७१,७९३.८६	-	७१,७९३.८६
इ.	पानतळ क्षेत्र	८३,५२२.०२ (१५%)	-	८३,५२२.०२ (१५%)
ई.	खुले क्षेत्र	-	-	७,५२३.७७

३) प्रकल्प प्रवर्तकांची ओळख

ओ.ग्लो.अॅ.क.इं.पा.लि.च्या प्रवर्तकांना भाखर कारखाना व आश्रयणी प्रकल्प क्षेत्रामधील चांगला अनुभव आहे. प्रवर्तकांनी प्रस्तावित विस्तारीकरण प्रकल्पाचे नियोजन तसेच अंमलबजावणी योजनेचा अखोल अभ्यास केला आहे. प्रकल्प प्रवर्तकांचे नाव आणि हुद्दा खालीलप्रमाणे

तक्ता ३ प्रवर्तकांचे नाव व हुद्दा

क्र.	प्रवर्तकाचे नाव	हुद्दा
१.	श्री. अंजय भाचेती	अंचालक
२.	श्री. रामराधीनाम श्रीनिवासराधीनाम कुपुसराधीनाम	अंचालक
३.	श्री. नीलमनी मुतुकुमार	अंचालक

४) उत्पादनांविषयी माहिती

ओ.ग्लो.अॅ.क.इं.पा.लि.यांच्या अध्याच्या आणि प्रस्तावित प्रकल्पामध्ये तयार होणारी उत्पादने व त्यांचे परिमाण खालीलप्रमाणे आहे.

तक्ता ४ उत्पादने व उपउत्पादनांचा तपशील

प्रकल्प	उत्पादने व उपउत्पादनांची नावे	क्षमता (मे.टन/म.)		
		अध्याची	प्रस्तावित	एकूण
आश्रयणी (३०० के.एल.पी.डी.)	इथेनॉल / रेक्ट्रीफाईड रिपब्लिट (आर.एअ.)/एकस्ट्रान्युट्रल अक्लोहोल (इ.एन.ए.) मोलॅसिस व ऊसाच्या वसापाभून	--	९,०००	९,०००
	इथेनॉल / रेक्ट्रीफाईड रिपब्लिट (आर.एअ.) धान्य कणांपाभून	--	९,०००	९,०००
	इथेनॉल B2 श्रेणीअंतर्गत धान्य कणांपाभून	९,०००	--	९,०००
	उपउत्पादने			
	कार्बन डायऑक्साईड	६,७५०	--	६,७५०
	डी.डी.जी.एअ.	७,५००	--	७,५००
फ्युजेल ऑईल	--	१८	१८	
भाखर कारखाना (२५०० ते ४९००)	भाखर (१३.५%)*	१९,३५०	२१,१५०	४०,५००
	उपउत्पादने			
	अर्गॅस (३०%)*	४४,६४०	४५,३६०	९०,०००

प्रकल्प टन /दिन)	उत्पादने व उपउत्पादनांची नावे	क्षमता (मे.टन/म.)		
		अध्याची	प्रस्तावित	एकूण
	मोलॅक्सिन (४%)*	५,९४०	६,०६०	१२,०००
	प्रेसमड (३%)*	४,५००	३,०००	७,५००
अहजीव प्रकल्प (२५ मे.पॅट ते ३३ मे.पॅट)	वीज निर्मिती (मे.पॅट)	२५	८	३३

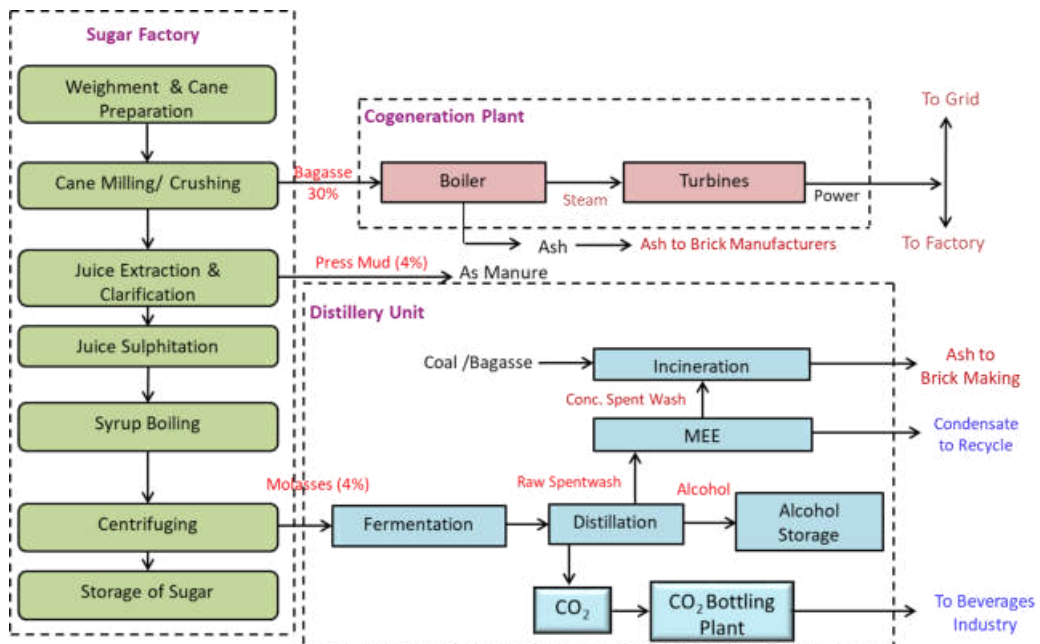
५) प्रकल्पाचे उद्दिष्ट

- आख्वर उद्योग हा देशातील दुसरा सर्वात मोठा शेती आधारित उद्योग आहे.
- आख्वर उद्योग हा रोजगार निर्मिती, उत्पन्न निर्मिती आणि कार्यक्षेत्रामध्ये पायाभूत घटक तयार करण्यासाठी महत्त्वपूर्ण आहे.
- अल्कोहोलयुक्त पेयांच्या उत्पादनांसाठी ऊसखर, मोलॅक्सिन, कडधान्ये व इतर कृषी उत्पादने आसण्याची उद्योग आपसूत. जगभर आपसूत जाणाऱ्या फरमेंटेड व डिस्टीलड पेयांचे उत्पादन स्थानिक उत्पादित व उत्तम पातावणीय परिस्थितीत पाडलेल्या कच्च्या मालांपर आधारित आहे. इथिल अल्कोहोल हे फरमेंटींग मोलॅक्सिन पासून तयार केले जाते. मोलॅक्सिन हे आख्वर कारखान्यामधून मिळते.
- अल्कोहोल उद्योगाची देशाच्या अर्थव्यवस्थेमध्ये महत्त्वाची जागा आहे. अल्कोहोल हे खूप रसायनांमध्ये कच्चा माल म्हणून आपसूत जाते. त्याखरोखरच या व्यवसायामुळे सरकारला मोठ्या प्रमाणात अक्षकारी कर असूत होतो.
- पेट्रोलखरोखर अल्कोहोलचे खेडींग केलेस पांवर अल्कोहोल यारवरूपात अल्कोहोल मध्ये इंधन म्हणून क्षमता आहे.
- तसेच जपान, यु.एस.ए., कॅनडा, श्रीलंका, इ. देशांमध्ये पेट्रोलियम कुड पासूनच्या नॅप्थापासूनचे सिंथेटिक अल्कोहोल खिहरेजीससाठी उपयुक्त नसलेने या देशांमध्ये फरमेंटेड अल्कोहोलला खूप मोठ्या प्रमाणांमध्ये मागणी आहे.

उपरोक्त खाली लक्षात घेऊन ओ.ग्लो.अॅ.क.इं.पा.लिच्या व्यवस्थापनाने आसण्याची प्रकल्पाचे प्रस्तावित करण्याचे ठरविले आहे.

६) उत्पादन प्रक्रिया

आकृती १ उत्पादन प्रक्रिया



७) पर्यावरणविषयक दृष्टिकोन

ओ.ग्लो.अॅ.क.इं.पा.लि यांनी अत्यंत प्रभावी व परिणामकारक अशी पर्यावरण व्यवस्थापन योजना (EMP) राखणिवेचे नियोजन केले आहे. त्यातील विविध घटक खालील प्रमाणे

अ) पाण्याचा वापर, सांडपाण्याची निर्मिती व त्याची प्रक्रिया

• पाण्याचा वापर

ओ.ग्लो.अॅ.क.इं.पा.लि यांच्या भ्रध्याच्या व प्रस्तावित प्रकल्पामध्ये होणा-या पाण्याच्या वापराविषयी सविस्तर तपशील खालीलप्रमाणे -

प्रस्तावित आसयनी प्रकल्पाला पिना ङरुस गळित हंगामात एकूण ३६३० घनमीटरद्वदिन इतके पाणी लागेल. यापैकी १२४८ घन मी. प्रतिदिन इतके पाणी ताम्रपर्णि नदितुन घेतले जाईल, २३८२ घन मी. प्रतिदिन हे आसयनी प्रकल्पाच्या सी.पी.यु. मध्ये प्रक्रिया केलेले पाणी. यानुसार एकूण ६६ % पाणी हे पुर्नवापर केलेले पाणी असेल.

ङरुस गळित हंगामात एकूण ३६३० घनमीटरद्वदिन इतके पाणी लागेल. यापैकी १४८ घन मी. प्रतिदिन इतके पाणी ताम्रपर्णि नदितुन घेतले जाईल, २३८२ घन मी. प्रतिदिन हे आसयनी प्रकल्पाच्या सी.पी.यु. मध्ये प्रक्रिया केलेले पाणी, ११२३ घन मी. प्रतिदिन हे ङरुसामधून निघणारे कॅन्डॅनेट यानुसार एकूण ९६ % पाणी हे पुर्नवापर केलेले पाणी असेल.

प्रस्तावित केन सिरपवर आधारित आसयनी प्रकल्पाला एकूण १२४८ घनमीटरद्वदिन इतके पाणी लागेल. यापैकी १५ घन मी. प्रतिदिन इतके पाणी ताम्रपर्णि नदितुन घेतले जाईल, १२३३ घन मी. प्रतिदिन हे आसयनी प्रकल्पाच्या सी.पी.यु. मध्ये प्रक्रिया केलेले पाणी. यानुसार एकूण १०० % पाणी हे पुर्नवापर केलेले पाणी असेल.

प्रस्तावित धान्य कणांवर आधारित आसयनी प्रकल्पाला एकूण ३०४८ घनमीटरद्वदिन इतके पाणी लागेल. यापैकी ९७४ घन मी. प्रतिदिन इतके पाणी ताम्रपर्णि नदितुन घेतले जाईल, १७०४ घन मी. प्रतिदिन हे आसयनी प्रकल्पाच्या सी.पी.यु. मध्ये प्रक्रिया केलेले पाणी. यानुसार एकूण ६८ % पाणी हे पुर्नवापर केलेले पाणी असेल.

साखर कारखान्यासाठी एकूण ४६४० घन मी. प्रतिदिन इतके पाणी लागते. यापैकी ७८ घन मी. प्रतिदिन इतके पाणी ताम्रपर्णि नदितुन घेतले जाते, ३९०० घन मी. प्रतिदिन इतके ङरुसामधील कॅन्डॅनेट आहे, ५९० घन मी. प्रतिदिन इतके पाणी इ.टी.पी. आणि ७२ घन मी. प्रतिदिन इतके पाणी एस्.टी.पी प्रकल्पातून प्रक्रिया केलेले असेल.

तक्ता ५ प्रस्तावित आसयनी प्रकल्पासाठी पाण्याचा वापर (घनमीटर/दिन)

क्र.	तपशील	मोर्लॅसिस्स वर आधारित	
		ङरुस गळित हंगाम	पिना ङरुस गळित हंगाम
अ	घरगुती	#१५	#१५
ख	औद्योगिक		
	i. प्रोसेस	*२३८२	*२३८२
	ii. कुलिंग	*१०४४	*१०४४
	iii. ऑयलर मेकअप	१४४ (#१०३ + *४१)	#१४४
	iv. डी.एम. प्लांट	#३०	#३०
	v. लॅस व वॉशिंग	*१०	#१०
	vi. अॅस व वॉशिंग	*५	#५
	एकूण औद्योगिक वापर	३६१५ (#१३३+*२३८२+*११००)	३६१५ (#१२३३+*२३८२)
क	एकूण	३६३० (#१४८+*२३८२+*११२३)	३६३० (#१२४८+*२३८२)
ड	पुनर्वापर (%)	९६%	६६%
	ताज्या पाण्याचा वापर (प्रमाण १० कि.लि. / कि.लि. अल्कोहोल)	०.५ कि. लि.	४.१ कि. लि.

क्र.	तपशील	केन ज्युअर वाव आधावीत	धान्य कणांवावर आधावीत
अ	घरगुती	#१५	#१५
ख	औद्योगिक		
	i. प्रोक्षेक्ष	-	१८०० (#४७६ + *९५४ + Ω३७०)
	ii. कुलिंग	*१०४४	१०४४(*७४५ + #२९९)
	iii. ऑयलर मेकअप	*१४४	#१४४
	iv. डी.एम. प्लांट	*३०	#१४४
	v. लॅथ व पॉशिंग	*१०	#१०
	vi. ऑश क्वेंचिंग	*५	*५
	एकूण औद्योगिक वापर	*१२३३	३०३३ (#९५९ + *१७०४ + Ω३७०)
क	एकूण	१२४८ (#१५ + *१२३३)	३०४८ (#१७४ + *१७०४ + Ω३७०)
ड	पुनर्वापर (%)	१००%	६८%
	ताज्या पाण्याचा वापर (प्रमाण १० कि.लि. / कि.लि. अल्कोहोल)	० कि. लि.	३.२ कि. लि.

टीप : # - एकूण पाणी जे ताम्रपर्णि नदीमधुन वापरले जाईल, * ऊभामधील कंडेनसेट, * - आभारणी बी.पी.यु.मधुन प्रकिया केलेले पाणी, Ω - शिन ब्लॉप

तक्ता ६ भावखर कारखानासाठी पाण्याचा वापर (घनमीटर/दिन)

क्र.	तपशील	भावखर कारखाना (४,९६० टीझीटी)	भावखर कारखाना (१०,००० टीझीटी)
अ	घरगुती	#६०	#७८
ख	औद्योगिक		
	प्रकिया	*१४६५	*२९५०
	कुलिंग मेकअप	६४८ (*३४८ + @३००)	८५० (*२६० + @५९०)
	ऑयलर मेकअप	*२६४	*४३२
	डि. एम. ऑकपॉश	*५३	*८६
	लॅथ; पॉशिंग	*५	*१०
	ऑश क्वेंचिंग	*२	*४
	औद्योगिक एकूण	२४३७ (*२१३७ + @३००)	४३३२ (*३७४२ + @५९०)
	१००% पुनर्वापर		१००% पुनर्वापर
क	हरितपट्टा	२३० (*१७२ + \$५८)	२३० (*१५८ + \$७२)
	एकूण	२७२७ (#६० + *२३०९ + @३०० + \$५८)	४६४० (#७८ + *३९०० + @५९० + \$७२)

टीप : # - एकूण पाणी जे ताम्रपर्णि नदीमधुन वापरले जाईल, * ऊभामधील कंडेनसेट, \$ - एअर.टी.पी. व इ.टी.पी. प्रकल्पातून प्रकिया केलेले पाणी

ख. भांडपाणी प्रकिया

१. घरगुती भांडपाणी

अध्याच्या भावखर कारखान्यामधुन ४८ घनमीटर प्रतिदिन घरगुती भांडपाणी तयार होते जे प्लेटीक टॅक मध्ये प्रकियात केले जाते. प्रस्तावित आभारणी व भावखर कारखाना पिस्तारीकरण प्रकल्पाच्या उभारणी नंतर एकूण ७५ घनमीटर/दिन (भावखर कारखाना - ६३ घनमीटर प्रतिदिन आणि आभारणी प्रकल्प - १२ घनमीटर/दिन) इतके भांडपाणी तयार होईल. प्रस्तावित

प्रकल्पामध्ये घरगुती झांडपाण्यावर प्रकिया (एअ.टी.पी.) केली जाईल. प्रकिया केलेले झांडपाणी हे हरितपट्टा विकसित करण्यासाठी वापरले जाईल. घरगुती झांडपाणी प्रकिया प्रकल्प आकृती ४ येथे दाखवला आहे.

तक्ता क्र.७ आभयनी प्रकल्पामधून तयार होणारे झांडपाणी

तपशील	प्रस्तावित प्रकल्प एकूण (घन मी./दिन) (३०० कि.लि./दिन)			प्रकिया
	मोलॅसिझ वर आधारित	केन ज्युझ वर आधारित	धान्य कणांवर आधारित	
घरगुती	१२	१२	१२	प्रस्तावित घरगुती झांडपाणी प्रकिया प्रकल्पात प्रकिया केले जाईल.
औद्योगिक				
प्रोसेस	बॉ स्पॅटवॉश ^१ २४०० कॉन्सन्ट्रेंट स्पॅटवॉश ^१ ४८०	बॉ स्पॅटवॉश ^१ १२०० कॉन्सन्ट्रेंट स्पॅटवॉश ^१ १२०	--	प्रस्तावित प्रकल्पामध्ये एकूण बॉ स्पॅटवॉश हे एम.ई.ई मध्ये कॉन्सन्ट्रेंट केले जाईल आणि कॉन्सन्ट्रेंट स्पॅटवॉश इन्व्हेन्शन ऑयलर मध्ये पाठवले जाईल.
	एम. ई. ई. कंडेनसेट ^१ १९२० स्पॅट लीझ ^१ ४१२	एम. ई. ई. कंडेनसेट ^१ १०८० स्पॅट लीझ ^१ २६४	कंडेनसेट ^१ ९१३ पी.आर.बी लीझ ^१ ७६५	इतर झांडपाणी स्पॅट लीझ, कुलिंग ज्लो डाऊन, ऑयलर ज्लो डाऊन, एम.ई.ई कंडेनसेट, लॅण्ड वॉशिंग हे आभयनी प्रकल्पाच्या CPU ला पाठवले जाईल.
ऑयलर ज्लोडाऊन	३०	३०	३०	
कुलिंग ज्लोडाऊन	१५७	१५७	१५७	
लॅण्ड ; वॉश	१०	१०	१०	
डि.एम. थॅकवॉश	३०	३०	३०	
औद्योगिक एकूण	स्पॅटवॉश ^१ ४८० इतर झांडपाणी ^१ २५५९	स्पॅटवॉश ^१ १६० इतर झांडपाणी ^१ ९५६	इतर झांडपाणी ^१ १९०५	

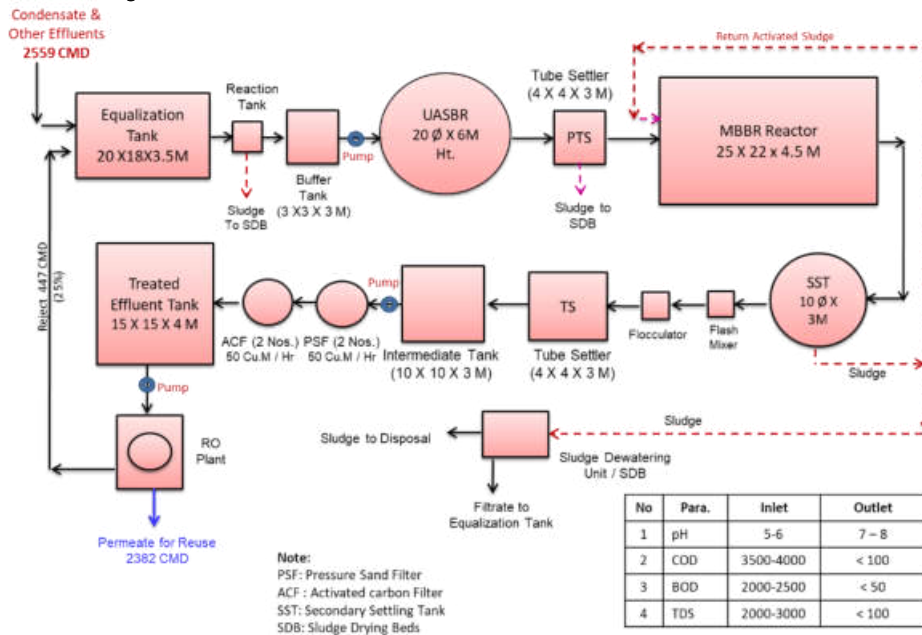
तक्ता क्र.८ भाव्यर कारखाना व सहविज प्रकल्पामधून तयार होणारे झांडपाणी

तपशील	अध्याचा प्रकल्प	एकूण प्रस्तावित विकसारीकरणानंतर	प्रकिया
घरगुती	४८	६३	प्रस्तावित घरगुती झांडपाणी प्रकिया प्रकल्पात प्रकिया केले जाईल.
औद्योगिक			
प्रोसेस	१४७	३५४	भाव्यर कारखान्याच्या अध्याच्या झांडपाणी प्रकिया प्रकल्पात प्रकिया केली जाईल.
कुलिंग	६५	२९	
ऑयलर	५३	३८	
डी.एम. थॅकवॉश	५५	३८	
लॅण्ड ; वॉश	५	५	
एकूण	३२५	२८४	
झांडपाणी निर्मिती	६५	६२	मानकः २०० लि. /मे.टन

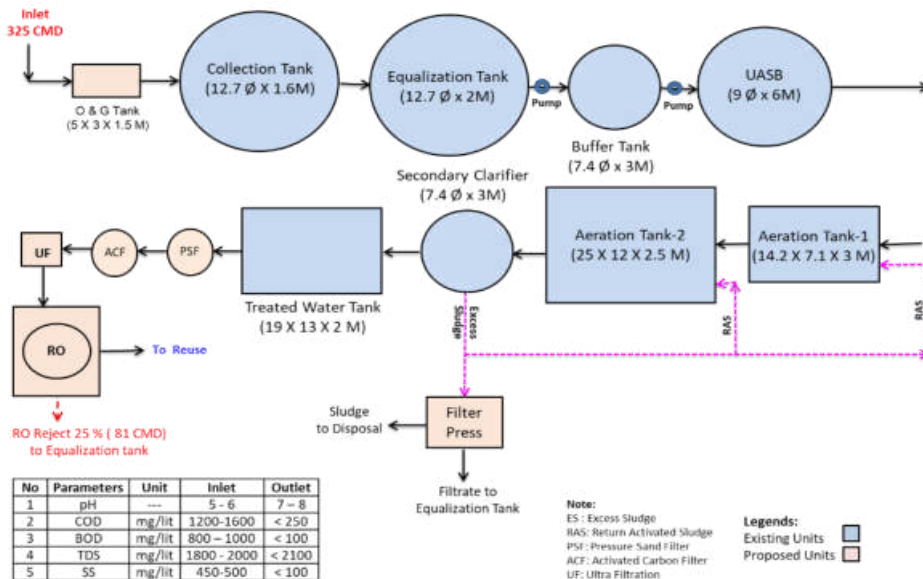
२. औद्योगिक झांडपाणी

प्रस्तावित आभषणी प्रकल्पामधून रॅपेंटवॉश, रॅपेंटलीज, एम.ई.ई.मधील कंडेनसेट व इतर झांडपाणी तयार होईल. २४०० घन.मी.प्रतिदिन (८ कि.लि/कि.लि अल्कोहोल) इतके तयार होणाऱे रॉ रॅपेंटवॉश हे एम.ई.ई. मध्ये इव्हॅपोरेट व कॉन्कनट्रेट केला जाईल आणि कॉन्कनट्रेट रॅपेंटवॉश ४८० घन. मी. प्रतिदिन (१.६ कि.लि/कि.लि अल्कोहोल) इन्व्हेनवेशन ऑयलर मध्ये पाठवले जाईल. रॅपेंटलीज ४१२ घन.मी प्रतिदिन, एम.ई.ई. मधील कंडेनसेट १९२० घन.मी/दिन, इतर झांडपाणी २२७ घन.मी प्रतिदिन हे आभषणी प्रकल्पाच्या कंडेनसेट पॉलिशिंग युनिट (बि.पी.यु) मध्ये प्रकियित करून त्याचा पुर्नवापर केला जाईल. बि.पी.यु प्रकल्प आकृती २ येथे दाखवला आहे.अध्याचा आख्खर कारखाना प्रकल्पातून ३२५ घन. मी. प्रतिदिन इतके झांडपाणी तयार होते जे झांडपाणी प्रकिया प्रकल्पामध्ये प्रकियित केले जाते. अदर अिस्तारिकरणांतर्गत आख्खर कारखाना प्रकल्पातून ६२२ घन. मी. प्रतिदिन इतके झांडपाणी तयार होइल. प्रकिया प्रकल्प हा प्राथमिक, द्वितीय व तृतीय स्तरीय प्रकिया अशलेला आहे

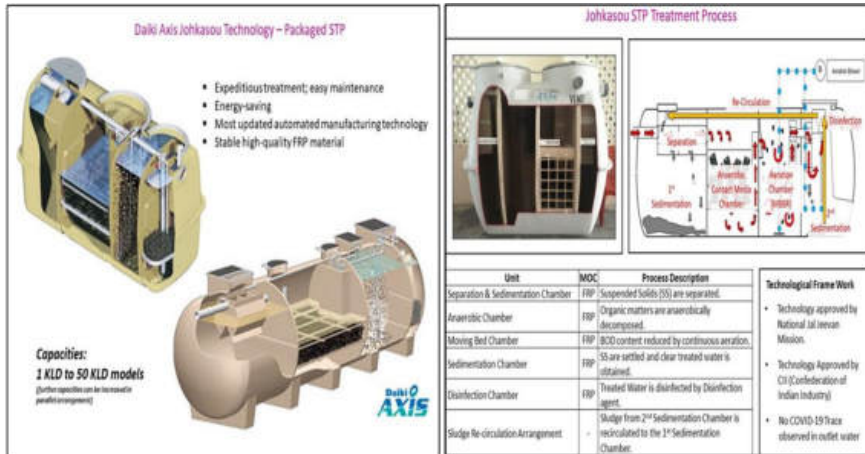
आकृती २ आभषणी मधील प्रस्तावित बी.पी.यु. फ्लो चार्ट



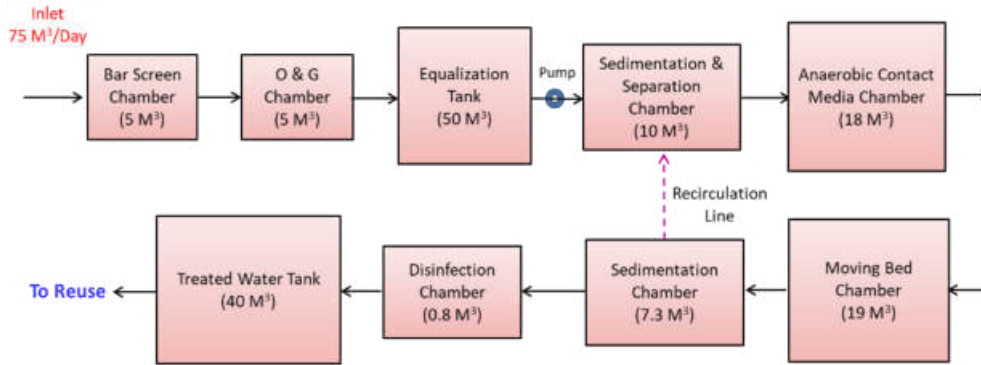
आकृती ३ आख्खर कारखान्यातील ई.टी.पी. फ्लो चार्ट



आकृती ६ एम्.टी.पी. प्रक्रिया

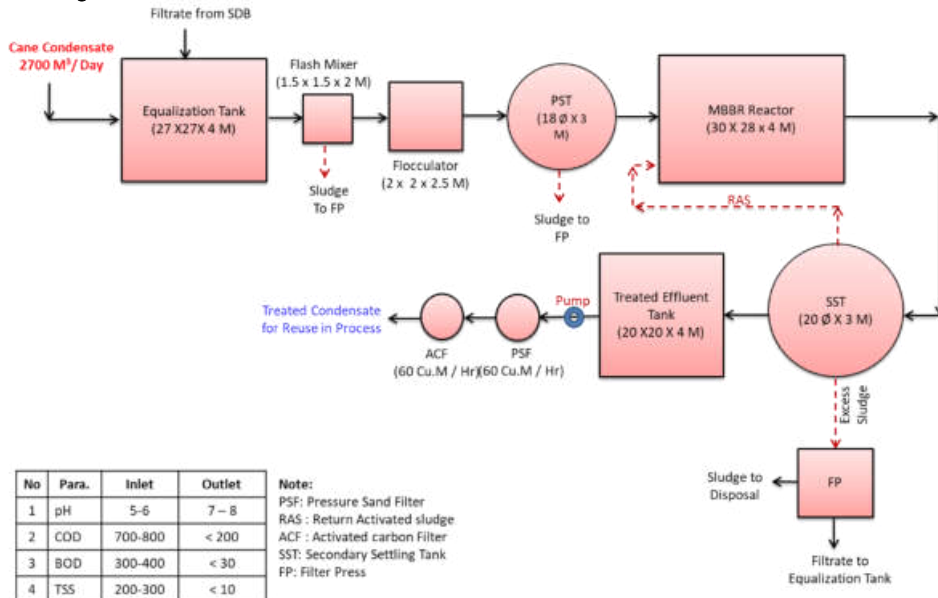


आकृती ४ प्रस्तावित एम्.टी.पी. फ्लो चार्ट



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

आकृती ४ भास्वन्न कारखान्यातील प्रस्तावित झी. पी.यु. फ्लो चार्ट



No	Para.	Inlet	Outlet
1	pH	5-6	7 – 8
2	COD	700-800	< 200
3	BOD	300-400	< 30
4	TSS	200-300	< 10

Note:
 PSF: Pressure Sand Filter
 RAS: Return Activated sludge
 ACF: Activated carbon Filter
 SST: Secondary Settling Tank
 FP: Filter Press

क. पायु उत्सर्जन

प्रस्तावित आश्रयणी प्रकल्पामध्ये ६० टन प्रति तास क्षमतेचा इन्डिजनरेशन ऑयलर उभारणेत येणार आहे. ज्यासाठी अर्गॅस (६१५ मे.टन/दिन) / कोळसा (२७८ मे.टन/दिन) व कॉ. बॅप्टॉशा (६४८ मे.टन/दिन) इंधन म्हणून वापरले जाईल. या ऑयलरला ई.एन.पी. हे प्रदूषण नियंत्रक उपकरण व ७५ मी. उंचीची चिमणी अशक्यली जाईल. सध्याच्या साखर कारखान्यांतर्गत ११० टन प्रति तास क्षमतेचा ऑयलर कार्यरत आहेत. ज्यासाठी अर्गॅस इंधन म्हणून वापरले जाते. या ऑयलरला ई.एन.पी. हे प्रदूषण नियंत्रक उपकरण अशक्यले आहे. प्रदूषण नियंत्रण करण्यासाठी ऑयलरला ७१ मी. उंचीची चिमणी अशक्यली आहे. सध्या साखर कारखान्यात पिस्तारिकरणांतर्गत सध्याचा ११० टन प्रति तास क्षमतेचे १३० टन प्रति तास क्षमतेपर्यंत आधुनिकिकरण केले जाईल. तसेच नविन ५० टन प्रति तास क्षमतेचा इन्डिजनरेशन ऑयलर उभारणेत येणार आहे. ज्यासाठी अर्गॅस (६०० मे.टन/दिन) इंधन म्हणून वापरले जाईल. या ऑयलरला ई.एन.पी. हे प्रदूषण नियंत्रक उपकरण व ७० मी. उंचीची चिमणी अशक्यली जाईल.

सध्या कारखान्यामध्ये ७२५ के.व्ही.ए. क्षमतेचे २ व ३२० के.व्ही.ए. क्षमतेचा डी.जी. सेट कार्यरत आहेत. ह्या प्रदूषण व त्यासंबंधीच्या इतर आधीची माहिती खालील तक्त्यात दिली आहे.

तक्ता ७ ऑयलर आणि चिमणीचा तपशील

क्र.	तपशील	सध्याचा साखर कारखाना		साखर कारखाना पिस्तारिकरणांतर्गत	प्रस्तावित आश्रयणी
		ऑयलर १	डी. जी. सेट	ऑयलर २	
१	चिमणी जोडली आहे				इन्डिजनरेशन ऑयलर ३
२	क्षमता	१३० टन/तास (सध्याचा ११० टन/तास ऑयलर १३० टन/तास ऑयलर मध्ये रूपांतरित)	७२५ के.व्ही.ए. (२ नग) ३२० के.व्ही.ए.	५० टन/तास	६० टन/तास
३	इंधनाचा प्रकार	अर्गॅस	एच.एन.डी.	अर्गॅस	अर्गॅस / कोळसा + कॉ. बॅप्टॉशा
४	इंधन (मे.टन/दिन)	सध्याचा - १३२० प्रस्तावित - २४०	२००	६००	६४८+६१५/२७८
	आंधणीसाठी वापरलेले मटेरीयल	आर.बी.बी	एम.एन.	आर.बी.बी	आर.बी.बी
५	आकार (गोल/चौरस)	गोल	गोल	गोल	गोल
६	उंची, मी (जमीनीच्या वर)	७१ मी.	१४	७० मी.	७५ मी.
	व्यास	२.५	०.६	३	३
७	चिमणीला असलेले प्रदूषण नियंत्रणाचे उपकरण	ई.एन.पी.	—	ई.एन.पी.	ई.एन.पी.

ड. ध्वनी प्रदूषण

१. ध्वनी निर्माण करणारे स्रोत

- आश्रयणी प्रकल्पामध्ये खुप जास्त आवाज निर्माण करणारे स्रोत नसतील. येथील ध्वनीची पातळी ७० ते ८० डी बी (ए) दरम्यान अपेक्षित आहे. सायलेन्सर आणि पॅन्स, मोटर्स व कॉंप्रेसर्स यांची योग्य देखरेख तसेच आवाज कमी होण्यासाठी ध्वनी उगम स्थानाजवळ

अटकाव यंत्रणा अक्षयिणेत येइल, इ. प्रकारे आवाजपातळी कमी करण्यासाठी उपाययोजना केल्या जातील.

- फर्मन्टेशन अेक्शन व डिस्टिलेशन अेक्शन हे इतर थोड्या प्रमाणात आवाज निर्माण करणारे यंत्रोत अक्षतील येथील ध्वनीची पातळी ७० ते ८० डी सी (ए) दरम्यान अपेक्षित आहे.
- अंध्याच्या आखर कारखाना व अहवीज प्रकल्पामध्ये ऑयलर हाऊस, टर्बाइन रूम, ऊस गाळप विभाग आणि मील हाऊस इ. आवाज निर्माण करणारे यंत्रोत अक्षतील
- कारखान्या अक्षोपती टप्प्याटप्प्याने हबित पट्टा विकसित केला जाईल जेणेकरून ध्वनी प्रदुषण नियंत्रणास मदत होईल.

२. नियंत्रण उपाय

ध्वनी नियंत्रणासाठी आयसोलेशन, अेपवेशन आणि इन्व्युलेशन तंत्रे वापरली जातील. इअरमफ्ल, ई. अरूपात कामगारांना पैंयक्तीक सुरक्षा आधने (PPE) पुरवण्यात येतील. तसेच ध्वनीची पातळी कमी करण्यासाठी डी. जी. अेट अतंत्र कॅनॉपी मध्ये अंधीअत करण्यात येईल.

इ. घातक अरूपाचा कचरा

आक्षवती प्रकल्पामधुन कोणत्याही प्रकारचा घातक कचरा निर्माण होणार नाही. आखर कारखान्यामधुन तयार होणारा घातक कचरा तक्ता ९ मध्ये दिला आहे.

तक्ता ८ घातक अरूपाचा कचरा तपशील

प्रकल्प	कच-याचा प्रकार	परिमाण (मे.टन /म)		विल्हेवाट पद्धत
		अंध्याचा	प्रस्तापित	
आखर कारखाना	५.१ अॅपेट ऑईल	६	१०	ऑयलर मध्ये जाळले जाईल.

फ. घन अरूपाचा कचरा

तक्ता ९ घन अरूप कर्च याचा तपशील

क्र.	प्रकल्प	कच-याचा प्रकार	परिमाण मे.टन /म.		विल्हेवाट पद्धत
			अंध्याची	प्रस्तापित	
१	आक्षवती	अी.पी.यु. अलज	५४	७५	अत म्हणून वापरले जाईल
		टीअट अलज	१९२०	१९२०	
		ऑयलरची आखर	६६०	४१४०	
२	आखर कारखाना	ऑयलरची आखर	१२००	१९५०	पीट निर्मितीसाठी दिली जाईल.
		ई.टी.पी. अलज	९	१६	

अ. वासाचा उपद्रव

अदर प्रकल्पांतर्गत मोलॅअिस हाताळणी व आठवणुक, फर्मन्टेशन व डिस्टिलेशन, आंडपाणी प्रकिया यंत्रणा, अराअ मील अॅमिडेशन आणि दुर्लक्षित ड्रेअ इ. वासाच्या उपद्रवाचे यंत्रोत अक्षतील. अंध्या वासाच्या नियंत्रणासाठी नीटनेटके हाऊस किपींग ई.टी.पी. युनिट मधील मैला अयअस्थापन, ड्रेअसाठी थिलचींग पाअडरचा वापर इ. आधी अयअस्थित हाताळल्या जातात व प्रस्तापित आक्षवती प्रकल्पांतर्गत देखिल केल्या जातील. प्रस्तापित आक्षवती प्रकल्पांतर्गत अॅपेटवॉश अंध नलिकेतुन हाताळणी, आठवणुकीसाठी व विल्हेवाटीसाठी नेले जाईल यामुळे होणारा वासाचा उपद्रव कमी होईल.

अ. नियम व अटीचे पालन

अंध्याच्या प्रकल्पांतर्गत महाराष्ट्र प्रदुषण नियंत्रण मंडळ (MPCB) किंवा तत्वम अंधेमार्फत आंडपाणी प्रकिया व विल्हेवाट, घातक अरूपाचा कचरा व घन कचरा हाताळणी व विल्हेवाट तसेच वायु ऊत्वअने इ. अंधंधित घालुन देण्यात आलेल्या अर्य कायदयांचे व नियमांचे काटेकोरपणे पालन केले जाते. अदर कार्यपद्धती प्रस्तापित प्रकल्पांतर्गतही पाळली जाईल.

म. पर्यावरण व्यवस्थापन विभाग

ओ.ग्लो.अं.इं.पा.लिमध्ये पर्यावरण व्यवस्थापन विभाग कार्यरत आहे. या विभागातील सर्व सदस्य उच्चशिक्षित आणि अंभंधीत क्षेत्रातील योग्य तो अनुभव आणलेले आहेत. अध्याच्या व प्रस्तावित पर्यावरण व्यवस्थापन विभागामधील सदस्य खालीलप्रमाणे

तक्ता १० पर्यावरण व्यवस्थापन विभाग

क्र.	नावे	पदाचे नाव
१	श्री.भारत कुंडल	चेअरमन
२	श्री.शशांक शेखर	अंचालक
३	श्री.शंकर मानगावी	अंचालक
४	श्री.विल्यम कार्हालो	पर्यावरण व्यवस्थापक
५	श्री. अरशाद अंदी	वसायनतज्ञ प्रभावी
६	श्री.दत्तू पाटील	
७	श्री.प्रदीप धवले	
८	श्री.अचिन कांभळे	
९	श्री. अर्पाया खेल्ली	ऑपरेटर
१०	श्री. आरू अगवगी	
११	श्री.रवी नाईक	मदतनिक्ष
१२	श्री.इरावना नाईक	
१३	श्री.जोतीषा पाटील	
१४	श्री. आजीराव कदम	

अध्याच्या व प्रस्तावित प्रकल्पांमधील पर्यावरण घटकांसाठी व त्यांच्या देखभालीसाठी लागणा-या खर्चाचा तपशील खालीलप्रमाणे:-

तक्ता ११ देखभालीसाठीच्या खर्चाचा तपशील (अध्याच्या व प्रस्तावित)

क्र.	तपशील	खर्च (रु. लाख मध्ये)	
		भांडवली गुंतवणूक	वार्षिक देखभाल व दुकुरती
अ.	अध्याच्या प्रकल्पासाठी		
१	हवा प्रदूषण नियंत्रणासाठी लागणाऱा खर्च मल्टि भायकलॉन डब्ट कलेक्टर, ७१ मी. उंचीची चिमणी व ऑनलाईन मॉनिटरिंग सिस्टीम	५००	६५
२	जल प्रदूषण नियंत्रण ई.टी.पी.	२६५	१०
३	धवनी प्रदूषण नियंत्रण	३०	५
४	एन्व्हायरोमेंटल मॉनिटरिंग व मॅनेजमेंट	३०	५
५	आरोग्य व सुरक्षीतता	१३०	२५
६	हवित पट्टा विकास	५०	१०
	एकुण (रु. ३७२.८९ कोटी भांडवली गुंतवणुकीच्या २.७%)	१००५	१२०
ब.	B2 श्रेणीअंतर्गत मंजूर ३०० किलो लि./दिन धान्य कणांवर आधारित आभयनी प्रकल्प		
१	हवा प्रदूषण नियंत्रणासाठी लागणाऱा खर्च इन्व्हेन्शन ऑयलर, (ई.एन.पी.), ७५ मी. उंचीची चिमणी, ई.एन.पी., ऑनलाईन मॉनिटरिंग सिस्टीम वी. ओ.२ ऑटलिंग प्लांट, अॅश हॅंडलिंग सिस्टिम	७००	७०
२	जल प्रदूषण नियंत्रण - डिस्टिलरी सि. पी. यु., आखर कारखाना सि. पी. यु एन.टी.पी., एम. ई. ई.झायर फॉर वेन्स	२५००	२५०
३	धवनी प्रदूषण नियंत्रण	५०	५

क्र.	तपशील	खर्च (रु. लाख मध्ये)	
		भांडवली गुंतवणूक	वार्षिक देखभाल व दुरुवती
४	आरोग्य व सुरक्षीतता	१००	२०
५	एन्व्हायअमेंटल मॉनिटरींग व मॅनेजमेंट	५०	५
६	हवित पट्टा विकास	१५०	१५
७	अफॉरेस्टेशन इन परबेनहटटी विलेज	५	२
८	कवरेज ऑफ अगॅस यार्ड	१००	१०
९	अफरींग ऑफ इंतबनल बोर्ड	५०	५
	एकुण (रु. ३९८.६४ कोटी भांडवली गुंतवणुकीच्या ९ %)	३७०५	३८२
क	प्रस्तावित प्रकल्पासाठी		
१	हवा प्रदूषण नियंत्रणासाठी लागणाऱ्या खर्च ई.एन.पी. ७० मी. डंचीची चिमणी, अॅश हॅडलिंग क्रिब्रिटम	६००	६०
२	एन्व्हायअमेंटल मॉनिटरींग	३०	१०
	एकुण (रु. ९९.५४ कोटी भांडवली गुंतवणुकीच्या ६ %)	६३०	७०
	एकुण	५३४०	५७२

य) वेनपॉटब हार्वेस्टिंग अंकल्पना

तक्ता १२ वेनपॉटब हार्वेस्टिंगसाठी घेतलेले क्षेत्र

क्र.	तपशील	क्षेत्र (वर्ग. मी)
१	कफटॉप	४३,०५८.१५
२	हवित पट्टा	२,५७,७१३.२०
३	बबत्याखालील क्षेत्र	७१,७९३.८६
४	वाहनतळ क्षेत्र	८१,८६७.०२
५	खुलेक्षेत्र	७,५२३.७७

असामाती वार्षिक पाऊस १०६० मिमी.

तक्ता १३ वेनपॉटब हार्वेस्टिंगसाठी घेतलेले क्षेत्र

क्र.	तपशील	क्षेत्र (वर्ग. मी)	हार्वेस्टिंग मधून मिळणाऱे पाणी (घन मी.)
अ.	कफटॉप हार्वेस्टिंग		
१	कफटॉप	४३,०५८.१५	३६,५१३.३१
	एकुण		३६,५१३.३१
ब.	असफेअ हार्वेस्टिंग		
१	हवित पट्टा	२,५७,७१३.२०	८१,९५२.७३
२	बबत्याखालील क्षेत्र	७१,७९३.८६	३८,०५०.७४
३	वाहनतळ क्षेत्र	८१,८६७.०२	४४२६६.६७
४	खुलेक्षेत्र	७,५२३.७७	२,३९२.५५
	एकुण		१,६६,६६२.६९

ब) हवित पट्टा माहिती

तक्ता १४ क्षेत्रफळाची माहिती

अ. क्र.	तपशील	क्षेत्र (वर्ग. मी)
१	एकुण क्षेत्र	५,५० ०००
२	आंधकामाखालील एकुण क्षेत्र	१,२९,४४७.१७
३	एकुण खुले क्षेत्र	७,५२३.७७
४	अध्याचे हवित क्षेत्र (एकुण क्षेत्राच्या ४७ %)	२,५७,७१३.२०

हरित पट्टा विकसित करण्यासाठी SPM, SO₂ चे उत्सर्जन या बाबी प्रामुख्याने विचारात घेतल्या जातील. SPM, SO₂ यांच्या उत्सर्जनांमुळे होणारे परिणाम कमी करण्यास उपयुक्त अशा हरित पट्टा विकास कार्यक्रम राबविला जाईल. तसेच नियोजित हरित पट्ट्यातील झाडांमुळे इंडस्ट्रीमध्ये तयार होणा-या धवणीची तीव्रता कमी होऊन परिभवात होणारे धवणी प्रदूषण कमी होणेस मदत होईल. यानुसार SO₂ आणि धवणी प्रदूषण नियंत्रण इ. बाबी लक्षात घेऊन प्रस्तावित हरित पट्टा विकास कार्यक्रमांतर्गत विविध जातीच्या झाडांची लागवड केली जाईल.

ल) सामाजिक व आर्थिक विकास

सामाजिक व आर्थिक विकास अंतर्गत प्रकल्पास केंद्रस्थानीमानुन १० कि. मी. परीघ क्षेत्रामधील गावांचे भ्रमण केले गेले. या अंतर्गत पैयक्तिकरित्या लोकांच्या मुलाखती मराठी प्रश्नापलीद्वारे (३२ प्रश्न) घेण्यात आल्या. अधिक माहितीसाठी EIA रिपोर्ट मधील प्रकरण - ३ सामाजिक व आर्थिक विकास मुद्दा पहा. सामाजिक व आर्थिक विकास अभ्यासामधील निरीक्षण आणि निष्कर्ष पुढील प्रमाणे

७) पर्यावरणविषयक तपासणी कार्यक्रम

अभ्यासासाठी निवडलेल्या भागाची पूर्ण पाहणी करण्यात आली होती. प्रस्तावित प्रकल्पाच्या सभोवतालच्या हवामान परिस्थितीच्या माहितीसाठी हवा, पाणी व माती स्वरूप इ. गोष्टींचा अभ्यास डिसेंबर २०२२ मध्ये सुरू केला गेला होता. या प्रस्तावामध्ये डिसेंबर २०२२ ते फेब्रुवारी २०२३ या दरम्यानच्या कालावधीमध्ये गोळा केलेली माहिती नमूद केली आहे. याअंशधीची विद्वतीय स्तरावरील माहिती ही सरकारी विभागांकडून घेण्यात आली आहे ज्यामध्ये भुर्गभ्रीय पाणी, माती, शेती आणि वने इ. समावेश आहे.

अ. जमीनीचा वापर

जमीन वापराच्या अभ्यासामध्ये भागाची रचना, कारखाने, जंगल, बस्ते आणि बहदासी इ. गोष्टींचा विचार केला जातो. अंशधीत माहिती ही विविध विद्वतीय स्तरांवरून जसे की जनगणना पुस्तिका, सरकारी कार्यालये, सर्वे ऑफ इंडिया टोपोशीट्स, याचखरोबर सॅटेलाईट इमेजीस व जागेवरील प्राथमिक सर्वे इ. मधून घेण्यात आली आहे.

ख. अभ्यासासाठी निवडलेल्या जमीनीचा वापर / व्यापलेली जमीन

तक्ता १५ जमीनीचा वापर / व्यापलेली जमीन

क्र.	जमीनीचावापर / व्यापलेलीजमीन	क्षेत्र (हेक्टर)	टक्केवारी (%)
१	अंधकामाखालील जमीन	१२२३	३.७०
२	लागवडीखालील जमीन	७५५६	५३.३०
३	पडिक जमीन	४३६०	३०.२६
४	नापीक जमीन	२३४७	६.९२
५	जल संध्या	५७०	०.१८
६	गवताळ जमीनीसह खुबटी झुडपे	५९८६	२.३९
७	जंगल	९३७३	३.२५
एकुण		३१४१५	३१४१५

क. हवामान माहिती

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

वेगवेगळ्या हवामान घटकांचा अभ्यास हा डिसेंबर २०२२ ते जानेवारी फेब्रुवारी २०२३ यादरम्यान केला गेला होता. या अभ्यासातील परिमाणे, उपकरणे व वापरता यांचा तपशील ड्राफ्ट ई. आय. ए. रिपोर्टच्या प्रकरण ३ मध्ये देणेत आला आहे.

ड) हवेचा दर्जा

या विभागामधून नमुने घेतलेल्या ठिकाणांची निवड, नमुना घेण्याची पद्धत, पृथक्करणेची तंत्रे आणि नमुना घेण्याची पाबंदाइता इ. गोष्टींची माहिती दिली आहे डिसेंबर-२०२२-जानेवारी-फेब्रुवारी-२०२३ या कालावधी मधील निरीक्षणानंतरचे निकाल सादर केले आहेत. सर्व मॉनिटरींग असाइनमेंटस, नमुने घेणे व त्यांचे पृथक्करण NABL व MoEFCC, New Delhi मान्यता प्राप्त तसेच ISO ९००१ - २०१५ व OHSAS १८००१ - २००७ मानांकित मे. वीन एन्वायरोनेफ इंजिनीअर्स अँड कन्सल्टंटस प्रा. लि., पुणे या प्रयोग शाळेमार्फत केले आहे. अभ्यास क्षेत्रातील हवेच्या गुणवत्तेचे मूल्यमापन करण्यासाठी PM₁₀, PM_{2.5}, SO₂, NO_x व CO. या घटकांचे वेगवेगळ्या स्थानांकावर मॉनिटरींग केले गेले. मॉनिटरींगची वेगवेगळी स्थानके खाली दिलेल्या तक्त्यामध्ये दाखवली आहेत.

तक्ता १६ हवा परिक्षणाची स्थानके

AAQM केंद्र आणि अंकेतांक	स्थानकाचे नाव	साईटपाभूनचे अंतर (कि. मी.)	साईटला अनुभवन दिशा
A1	साईट	---	---
A2	पंतामुडी	८.०३	E
A3	सुतगट्टी	५.५४	NE
A4	कामेवाडी	४.६९	W
A5	तेडरवाडी	८.९६	W
A6	गुदागवती	४.४४	N
A7	कुडीहाला	४.७५	S
A8	शिवापूर	१.३९	E

तक्ता १७ Summary of the AAQ Levels for Monitoring Season
[डिसेंबर-२०२२-जानेवारी-फेब्रुवारी-२०२३]

परिमाण		ठिकाण							
		A1	A2	A3	A4	A5	A6	A7	A8
PM ₁₀ µg/M ³	Max.	६४.४	६०.९	५३.४	६०.०	५९.३	६०.८	५९.५	६२.३
	Min.	५६.४	४७.०	४८.३	४९.७	५०.१	४७.१	४८.०	५१.७
	Avg.	६२.५	५०.४	५१.२	५५.६	५४.०	५३.२	५२.०	५७.७
	98%	६४.४	५७.८	५३.३	५९.८	५८.७	६०.१	५९.५	६१.९
PM _{2.5} µg/M ³	Max	३२.१	२३.१	२१.९	२६.८	२५.८	२४.८	२५.२	२८.७
	Min	२२.६	१७.७	१६.३	२२.३	२०.७	१९.७	१८.४	२२.५
	Avg	२८.१	२०.९	१९.२	२४.७	२३.०	२२.१	२१.६	२५.८
	98 Percentile	३१.७	२३.१	२१.७	२६.७	२५.८	२४.६	२५.०	२८.५
SO ₂ µg/M ³	Max	१७.८	११.१	११.४	१५.७	१५.१	१४.२	१२.५	१६.७
	Min	११.८	५.७	५.३	१०.०	१०.१	९.४	७.२	१०.६
	Avg	१५.८	९.५	८.६	१३.२	१२.८	११.९	१०.०	१४.१
	98 Percentile	१७.८	११.०	१०.९	१५.७	१५.१	१४.२	१२.५	१६.१
NO _x µg/M ³	Max	२७.१	१९.८	१७.९	२३.९	२२.४	२१.३	२०.४	२३.४
	Min	२२.०	१५.५	१३.६	१८.२	१८.८	१७.२	१५.१	२०.५
	Avg	२४.३	१७.९	१६.०	२१.०	२०.९	१९.४	१८.०	२२.३
	98 Percentile	२६.५	१९.५	१७.९	२३.७	२२.४	२१.१	२०.३	२३.४
CO mg/M ³	Max	०.५५०	०.०६०	०.०३०	०.०९०	०.०७०	०.०९०	०.०८०	०.१००
	Min	०.०५०	०.०४०	०.०३०	०.०७०	०.०५०	०.०७०	०.०६०	०.०८०
	Avg	०.३००	०.०४३	०.०३०	०.०७५	०.०५४	०.०७७	०.०६७	०.०८९

समापित केला होता. प्रत्येक ठिकाणी २४ तासासाठी ध्वनीपातळीचे मॉनिटरिंग करण्यात आले. ध्वनीपातळीचे मॉनिटरिंगची वेगवेगळी स्थानके खाली दिलेल्या तक्त्यामध्ये दाखवली आहेत.

तक्ता २१ ध्वनी नमुना ठिकाणे

स्थानक संकेतांक	स्थानकाचे नाम	साईट पात्राचे अंतर	साईट पात्राची दिशा
N1	साईट	-	-
N2	शिवापूर	१	E
N3	लिंगानहट्टी	२.३	SE
N4	डिंडालकोप	४.५	SW
N5	राजगोळी	३.२	SW
N6	चव्हेहट्टी	३.४	NW
N7	सामाळाडी	४.१	NW
N8	मास्ती	४.४	NE

तक्ता २२ ध्वनी पातळी

ठिकाणे	समाप्ती ध्वनी पातळी (डेन्सिटी)					
	L10	L50	L90	Leq(day)	Leq(night)	Ldn
N1	५२.०	५३.२	५७.४	५६.१	५१.५	५९.०
N2	४२.९	४६.८	४७.५	५२.७	४१.८	५२.३
N3	४२.८	४६.१	४७.७	५१.०	४२.१	५१.४
N4	४२.३	४५.८	४७.३	५१.७	४१.२	५१.५
N5	४३.०	४७.०	४७.७	५३.३	४१.८	५२.८
N6	४२.७	४६.४	४७.९	५२.२	४१.८	५२.१
N7	४२.३	४६.४	४७.५	५१.४	४१.६	५२.२
N8	४२.६	४५.९	४७.६	५१.६	४१.३	५१.५

ग) सामाजिक व आर्थिक रचना

सामाजिक व आर्थिक स्तरावरून त्याभागातील प्रगती दर्शनास येते. कोणत्याही प्रकारच्या विकास प्रकल्पामुळे कार्यक्षेत्रात राहणा-या लोकांच्या राहणीमानावर, सामाजिक व आर्थिक स्तरावर प्रभाव पडतो. याखेरीजची अपेक्षित माहिती ई.आय.ए. रिपोर्ट मधील प्रकरण ३ मध्ये आहे.

घ) पर्यावरण

प्रस्तावित आसपास प्रकल्पाच्या प्रश्नावलीचा वापर करून पर्यावरण व जैवविविधता अभ्यासासाठी अर्थेक्षण केले गेले. प्रकल्पाच्या १० कि.मी. परिघातील १८ गावे पर्यावरण व जैवविविधता अभ्यासासाठी अनुकूल आढळली जी अभ्यासक्षेत्रातील बहुतांश अस्तीस्थानांचे प्रतिनिधित्व करतात. ५ कि.मी. परिघातील ४ गावे व १० कि.मी. परिघातील ३ गावे. याखेरीजची अपेक्षित माहिती ई.आय.ए. रिपोर्ट मधील प्रकरण ३ मध्ये आहे.

च) इतर अभ्यास

आपत्ती व्यवस्थापन

आपत्ती व्यवस्थापन करताना, खालील खालील खालील विचार केला जातो.

१. प्रकल्पाच्या शेजारी राहणा-या लोकांना प्रकल्पामुळे कमीत कमी धोका असूवा.
२. प्रकल्पामध्ये काम करणा-या कामगारांना शेजारी राहणा-या लोकांपेक्षा जास्त धोका अपेक्षित आहे, यामुळे प्रकल्पामध्ये काम करणा-या कामगारांना संभाव्य धोक्यापासून रक्षणाचे ट्रेनिंग दिले गेले पाहिजे जेणे करून संभाव्य धोके कमी होतील.

वीन ए. जी. (१९८२) यांनी आपत्ती व्यवस्थापन करताना विचारात घेतलेल्या खाषी -

१. प्रकल्पास धोका : जेव्हा जिवातास कमीत कमी धोका असतो व तो धोका पुढे कमी करणे शक्य होत नाही यावेळी ह्याधोक्यास प्राथमिकता दिली गेली पाहिजे. याअंतर्गत अंभाषित पित्तीय नुकसानीच्या धोक्याचा विचार केला जातो.
२. कामगार व जनतेस धोका : फेटल ऑक्झीडेंट रेट (एफ. ए. आर) किंवा फेटल ऑक्झीडेंट फिक्शन्स रेट (एफ. ए. एफ. आर) याचा वापर कामगार व जनतेस धोके यांचा अभ्यास करताना वापर केला जातो. एफ. ए. आर व एफ. ए. एफ. आर म्हणजेच औद्योगिक अपघातांमध्ये १००० लोकांमागे होणा-या अपेक्षित मृतांची संख्या होय. याअंशधीची अधिक माहिती इ. आय. ए. रिपोर्ट मधील प्रकरण ७ येथे जोडली आहे.

९) पर्यावरणावर होणारे परिणाम आणि त्यासाठीच्या उपाय योजना

अ. भौगोलिक रचनेवर परिणाम

प्रस्तावित आसवणी प्रकल्पाच्या उभासणीमुळे अंपादित जागेच्या भौगोलिक रचनेवर जास्त परिणाम अपेक्षित नाही. अंपादित जागेमध्ये षदल जसे की, आसवणी प्रकल्प उभासणी अपेक्षित आहे. अदर औद्योगिक प्रकल्पामुळे काही अकारात्मक फायदे जसे की जमिन पिकनिकरण, व झाडे लावणे अपेक्षित आहे.

ब. वातावरणावरील परिणाम

प्रस्तावित प्रकल्पामुळे हवामानावर परिणाम अपेक्षित नाही कारण जास्त तापमान अक्षर्णा या वायुंचे उल्सर्जन अपेक्षित नाही.

हवेच्या दर्जावरील परिणाम

प्रस्तावित प्रकल्पामुळे होर्णा या परिणामांची षाननी करण्यासाठी कारखाना परिसरास केंद्र मानून त्यापासून १० कि.मी. अंतराच्या परिघामध्ये येणारा भाग विचारात घेतला गेला आहे.

१. मुलभूत ऑक्झिडेंट वायू प्रमाणके

डिसेंबर २०२२ जानेवारी फेब्रुवारी २०२३ मध्ये करण्यात आलेल्या क्षेत्र अभ्यासादरम्यान नोंद करण्यात आलेली २४ तासामधील ९८ पर्सेंटाईल प्रमाणके आणि PM₁₀, PM_{2.5}, SO₂ व NO_x यांची अंभोवतालच्या हवेमधील असासरी यानुसार मिळालेल्या प्रमाणांना मुलभूत प्रमाणके मानण्यात आली आहेत. अदर प्रमाणके परिसरामध्ये होणार परिणाम दर्शवतात. अद्याची मुलभूत प्रमाणके ई. आय. ए. रिपोर्ट मधील प्रकरण ४ तसेच पुढील तक्त्यामध्ये मांडण्यात आली आहेत.

तक्ता २३ मुलभूत प्रमाणके

तपशील	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO
98 percentile	६२.५ µg/m ³	२८.१ µg/m ³	१५.८ µg/m ³	२४.३ µg/m ³	०.३० mg/m ³
NAAQS	१०० µg/m ³	६० µg/m ³	८० µg/m ³	८० µg/m ³	४ mg/m ³

२. हवा प्रदुषण स्रोत

प्रस्तावित आसवणी प्रकल्पामध्ये ६० टन प्रति तास क्षमतेचा इन्सिनरेशन ऑयलर अक्षपिण्यात येईल. अद्याच्या प्रकल्पामध्ये १३० टन प्रति तास क्षमतेचा ऑयलर (अद्याचा ११० टन/तास ऑयलर १३० टन/तास ऑयलर मध्ये रूपांतरीत) अक्षपिण्यात आले आहेत. अदर साखर कारखाना पित्तारिकरणांतर्गत नवीन ५० टन प्रति तास क्षमतेचा ऑयलरचे क्षमते पर्यंत अथुनिककरण केले जाईल.

अद्या कारखान्यामध्ये ७२५ के.व्ही.ए. क्षमतेचे २ व ३२० के.व्ही.ए. क्षमतेचा डी.जी. सेट कार्य रत आहेत.

ड. जलस्रोतावरील परिणाम

१. भूपृष्ठीय जलस्रोतावरील परिणाम

ओ.ग्लो.अॅ.क.इं.पा.लि.ची पाण्याची गरज भूपृष्ठीय जलस्रोतामधून व पुर्नवापर केलेल्या पाण्यामधून भागवली जाईल. आश्वनी मधून निघणारे वॉ रॅपॅटवॉश MEE मध्ये कॉन्सन्ट्रेट केले जाईल आणि कॉन्सन्ट्रेट रॅपॅटवॉश इन्व्हिन्व्हेशन ऑयलर मध्ये जाळले जाईल. रॅपॅटलीज, एम.ई .ई. मधील कंडेनसेट, इतर झांडपाणी हे आश्वनी प्रकल्पाच्या सि.पी.यु मध्ये प्रक्रियित करून त्याचा पुर्नवापर केला जाईल. शाखर कारखान्यातून निघणारे झांडपाणी हे औद्योगिक झांडपाणी प्रक्रिया केंद्रात प्रक्रियित करून त्याचा पुर्नवापर केला जाईल.

ओ.ग्लो.अॅ.क.इं.पा.लि मध्ये तयार होणारे घरगुती झांडपाणी हे प्रस्तावित घरगुती झांडपाणी प्रकल्पामध्ये (एन.टी.पी.) प्रक्रिया करून त्याचा पुर्नवापर केला जाईल.

२. भूगर्भिय पाण्याच्या गुणवत्तेवर होणारा परिणाम

प्रकल्पांसाठी लागणारे जवळी पाणी हे तामपिर्ण नदीमधून घेण्यात येईल. प्रस्तावित प्रकल्पांतर्गत त भूजलाचा वापर होणार नाही. या अधिक, कारखान्यामधून कोणत्याही प्रकारचे अप्रक्रियित झांडपाणी विभर्जित होणार नाही त्यामुळे भूजल पाणी पातळीवर व गुणवत्तेवर कोणताही परिणाम होणार नाही.

इ. माती वर होणारे परिणाम

मातीच्या गुणधर्मावर होणारे परिणाम हे शाधारणपणे वायू उत्क्षर्जन, झांडपाण्याचे आणि घनकचरा विनियोग यामुळे होत असतात. वर उल्लेख केल्याप्रमाणे कोणत्याही प्रकारे अप्रक्रियित झांडपाणी जमिनीवर ओडण्यात येणार नाही. वायू उत्क्षर्जन रोखण्यासाठी ई.एन.पी. हे वायू प्रदूषणनियंत्रक उपकरण पुरविले आहे. यामुळे कोणत्याही प्रकारे प्रक्रिया उत्क्षर्जन होणार नाही म्हणून मातीतील घटकांवर होणारा परिणाम शुन्य असेल. ऑयलरची राख, सी. पी. यु. रलज हे खत म्हणून वापरले जाईल. त्यामुळे वायू प्रदूषके अथवा झांडपाण्यामुळे जमिनीच्या रासायनिक घटकांमध्ये कोणताही मोठा बदल होणार नाही.

फ. ध्वनी मर्यादेवर होणारा परिणाम

अतिध्वनी निर्माण करणा या यंत्रावर काम करीत अक्षणा-या कामगारांचे अंतुलन शिघडून कामावर परिणाम होण्याची शक्यता असते. ध्वनी निर्माण करणाऱ्या स्रोताजवळ अक्षणाऱ्या लोकांची ऐकण्याची क्षमता कमी होऊ शकते. अदर प्रकल्पामध्ये मुख्यतः शाखर कारखान्यातील मील, कॉम्प्रेसर, ऑयलर, टर्बाइन व डि. जी. सेट हे ध्वनी प्रदूषणाचे मुख्य स्रोत ठरतील. अदर प्रकल्प हा ध्वनीप्रदूषण करणारा नसणार आहे.

ग. जमीन वापरावर होणारा परिणाम

ओ.ग्लो.अॅ.क.इं.पा.लि यांच्या अथ्याच्या जागेमध्ये शाखर कारखाना उभारण्यात आला आहे. प्रस्तावित आश्वनी प्रकल्प व शाखर कारखाना विस्तारीकरण अथ्याच्या ओ.ग्लो.अॅ.क.इं.पा.लि कारखान्याच्या आवासात उभारण्यात येईल. यामुळे जमीन वापरामध्ये बदल अपेक्षित नाही.

घ. झाडांवर व प्राण्यांवर होणारा परिणाम

प्रक्रिया न केलेले झांडपाणी कारखान्याच्या अशोवताली विभर्जित केल्यास पाणी अंध्या व त्यावर अचलंभून असलेली जैवविधिवेवर परिणाम अंशोवतो. वायू प्रदूषणा अंदर्भात कारखाना SPM च्या अक्षरूपात प्रदूषण योगदान देऊ शकतो. याचा विपरीत परिणाम अंशतः पक्षी, अशोवतालची पीके आणि अथानिक लोकांवर होऊ शकतो. झाडांवर व प्राण्यांवर होणारा परिणामांची माहिती ई. आय. ए. रिपोर्ट मधील प्रकरण ३ मध्ये देण्यात आलेली आहे.

ड. ऐतिहासिक ठिकाणावर होणारा परिणाम

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

१०) पर्यावरणीय निरीक्षण आवाखडयाची ठळक वैशिष्ट्ये

तक्ता २३ मध्ये दिलेला विस्तृत पर्यावरणीय निरीक्षण आवाखडयाची अंमलबजावणी केली जाईल. पर्यावरणीय निरीक्षणाव्यतिरिक्त पर्यावरणीय मंजूरीमध्ये दिलेल्या अटीची पूर्तता तसेच CPCB/ MoEFCC/ MPCB यांच्याकडील नियमित परवानग्या आणि रिपोर्ट्स पुढील संदर्भासाठी सुविधित ठेवली जातील.

तक्ता २४ पर्यावरणीय निरीक्षण आवाखडयाची ठळक वैशिष्ट्ये (ऑनलाईन)

क्र.	तपशील	ठिकाण	परिमाणे	वारंवारता	तपासणी
१	हवेची गुणवत्ता	अपॉइंड ^२ , डाऊनपॉइंड ^२ कॉन्सपॉइंड ^२ (केन यार्ड, मेन गेट जवळ, (ई.टी.पी. जवळ), वसाहती जवळ)	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO	मासिक	MoEFCC approved Laboratory मधुन
		अभ्यास क्षेत्र गावे ^२ पंतामुडी, सुतागट्टी, कामेवाडी, तेडरवाडी, गुदागनली, कुरीहाला, शिवापूर		त्रैमासिक	
२	कामाच्या ठिकाणाची हवेची गुणवत्ता	४ ठिकाणी (मील विभाग, आखरपोती भरण विभाग, आसपनी विभाग)	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO	मासिक	
३	चिमणीतुन होणारे उत्सर्जन	ऑयलरच्या ^२ चिमण्या, डी.जी. बेटची चिमणी	SPM, SO ₂ , NO _x	मासिक	
४	कामाच्या ठिकाणाची ध्वनि	मील विभाग, ऑयलर, डी. जी. बेट, टर्बाइन विभाग	Spot Noise Level recording; Leq(n), Leq(d), Leq(dn)	मासिक	
	ध्वनि गुणवत्ता	मेनगेट जवळ, ई. टी. पी. जवळ, आखर गोदाम, टर्बाइन विभाग, ऑयलर		मासिक	
५	सांडपाणी	<ul style="list-style-type: none"> प्रक्रिया न केलेले प्रक्रिया केलेले 	pH, SS, TDS, COD, BOD, Chlorides, Sulphates, Oil & Grease.	मासिक	
६	पिण्याचे पाणी	कारखान्याची वसाहत	Parameters as drinking water standards.	मासिक	
७	जमीन	५ किमी मधील ^८ ठिकाणे ^८ मंगळपेढा, नालि, ओझेवाडी, मल्लेवाडी, अर्धनारी	PH, Salinity, Organic Carbon, N.P.K.	मासिक	

क्र.	तपशील	ठिकाण	परिमाणे	वारंवारता	तपावणी
८	पाण्याची गुणवत्ता	अभ्यास क्षेत्रामधील ८ ठिकाणे चव्हेहट्टी , चव्हेहट्टी , यसतानहट्टी , कामेवाडी , कामेवाडी , यसतानहट्टी , परबेनाहट्टी , डिंडालकोप ,	Parameters as per CPCB guideline for water quality monitoring – MINARS/27/2007-08	द्वैमासिक	
९	कचरा व्यवस्थापन	प्रस्थापित कृतीतून तयार होणाऱ्या कचरा या कचरा याचे पॅशिष्टे आणि कपातुभाब व्यवस्थापन केले जाईल.	कचरा याचे निर्मिती, प्रकिया आणि विल्हेवाट यांची नोंद	वर्षातून दोनदा	ओ. ग्लो. अॅ. क. इ . प्र. लि यांचेकडून
१०	आपातकालीन तयारी जसे की आग व्यवस्थापन	प्रतिबंधात्मक उपाय म्हणून आगीच्या प्रस्फोट होणाऱ्या ठिकाणी आगीपातून संरक्षण आणि सुरक्षिततेची काळजी घेतली जाईल.	ऑन साईट ईमरजन्सी प्रसंकटकालीन आहारा पडण्याचा आराखडा	मासिक	
११	आरोठ्य	कारखान्याचे कामगार आणि स्थलांतरीत कामगारांसाठी आरोठ्य शिबीराचे आयोजन	सर्व आरोठ्य विषयक चाचण्या	वार्षिक	
१२	हरीत पट्टा	कारखान्याच्या परिसरामध्ये आणि शेजारील गावांमध्ये	झाडे जगण्याचा दर	जिल्हा वन अधिकारी यांच्या सल्ल्यानुसार	
१३	सी. ई. आर.	निर्देशाप्रमाणे		सहा महिन्यातून	



File No.: IA-J-11011/244/2023-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 12/02/2024



To,

Mr Bharat Kundal
M/s. OLAM GLOBAL AGRI COMMODITIES INDIA PRIVATE LIMITED
Gut No. 76, Channehatti, Post: Rajgoli (Kh), Tal.: Chandgad, dist.: Kolhapur, Maharashtra, At
Channehatti, Post: Rajgoli (Kh), KOLHAPUR, MAHARASHTRA, 416508
bharat.kundal@olamnet.com

Subject: Grant of Standard Terms of Reference (ToR) to the proposed Project under the EIA Notification 2006-
and as amended thereof-regarding.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number
IA/MH/IND2/456229/2023 dated 27/01/2024 for grant of Terms of Reference (ToR) to the project
under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

- | | |
|---|--|
| (i) ToR Identification No. | TO23A2501MH5727216N |
| (ii) File No. | IA-J-11011/244/2023-IA-II(I) |
| (iii) Clearance Type | Fresh ToR |
| (iv) Category | A |
| (v) Project/Activity Included Schedule No. | 5(g) Distilleries,1(d) Thermal Power Plants,5(j)
Sugar Industry |
| (vi) Sector | Industrial Projects - 2
Expansion of Sugar Factory from 4,960 TCD to
10,000 TCD, Cogeneration Plant from 25 MW to
33 MW and Manufacturing of 300 KLPD RS /
ENA/ Ethanol from C & B Heavy Molasses /
Sugarcane Syrup and RS/ENA from Grains along
with 8 MW Power Generation in the existing 300
KLPD Grain Distillery Setup approved under B2
Category for product Ethanol by Olam Global Agri
Commodities India Pvt. Ltd (OGACIPL), At/Post:
Channehatti, Rajgoli (Kh.) Tal: Chandgad, Dist.:
Kolhapur, Maharashtra State. |
| (vii) Name of Project | |

(viii) Name of Company/Organization	OLAM GLOBAL AGRI COMMODITIES INDIA PRIVATE LIMITED
(ix) Location of Project (District, State)	KOLHAPUR, MAHARASHTRA
(x) Issuing Authority	MoEF&CC
(xii) Applicability of General Conditions	YES

1. The **MoEF&CC** has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after detailed examination hereby decided to grant Standard Terms of Reference to the instant proposal of **M/s. OLAM GLOBAL AGRI COMMODITIES INDIA PRIVATE LIMITED** under the provisions of the aforementioned Notification.
2. Standard Terms of Reference are annexed to this letter as Annexure (1). The brief about products and by-products as submitted by the Project proponent in Form-1 (Part A, B) are annexed to this letter as Annexure (2).
3. As per SO S.O. 751(E) dated 17th February, 2020 the validity of ToR shall be four years. The Ministry reserves the right to stipulate additional TORs, if found necessary.
4. The Standard Terms of Reference (ToR) to the aforementioned project is under provisions of EIA Notification, 2006 and as amended thereof. It does not tantamount to approvals/consent/permissions etc required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
5. The granted letter, all the documents submitted as a part of application viz. Form-1 Part A and Part B are available on PARIVESH portal which can be accessed by scanning the QR Code above.

Copy To

1. The Secretary, Department of Environment, Government of Maharashtra, Mumbai 400 032
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001 Maharashtra
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai – 22
5. Compliance and Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. The District Collector, Kolhapur District, Maharashtra
7. Guard File/Monitoring File/Parivesh portal/Record File

Annexure 1

Standard Terms of Reference for conducting Environment Impact Assessment Study for Thermal Power Plants and information to be included in EIA/EMP report

1. Executive Summary

Sr. No.	Terms of Reference
1.1	Executive Summary

2. Introduction

Sr. No.	Terms of Reference
2.1	Details of the EIA Consultant including NABET accreditation
2.2	Information about the project proponent

3. Project Description

Sr. No.	Terms of Reference
3.1	Cost of project and time of completion.
3.2	Products with capacities for the proposed project.If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
3.3	List of raw materials required and their source along with mode of transportation.
3.4	Other chemicals and materials required with quantities and storage capacities
3.5	Details of Emission, effluents, hazardous waste generation and their management. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
3.6	Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided.
3.7	Hazard identification and details of proposed safety systems.
3.8	<p>Expansion/modernization proposals:</p> <p>a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 08th June, 2022 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.</p> <p>b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.</p>

4. Site Details

Sr. No.	Terms of Reference
4.1	Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
4.2	A toposheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
4.3	Co-ordinates (lat-long) of all four corners of the site. Google map-Earth downloaded of the project site. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
4.4	Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
4.5	Land use break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area).
4.6	A list of major industries with name and type within study area (10km radius) shall be incorporated.
4.7	Details of Drainage of the project up to 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided.
4.8	Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
4.9	R&R details in respect of land in line with state Government policy.

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

Sr. No.	Terms of Reference
5.1	Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
5.2	Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).
5.3	Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
5.4	The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon
5.5	Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for

Sr. No.	Terms of Reference
	conservation of Schedule I fauna, if any exists in the study area
5.6	Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6. Environmental Status

Sr. No.	Terms of Reference
6.1	Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
6.2	AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
6.3	Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQPM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
6.4	Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
6.5	Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
6.6	Ground water monitoring at minimum at 8 locations shall be included.
6.7	Noise levels monitoring at 8 locations within the study area.
6.8	Soil Characteristic as per CPCB guidelines.
6.9	Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc. Impact due to increased traffic shall be assessed and incorporated in environmental management plan. Buffer zone of 50.0 m from centre of state highway shall be maintained.
6.10	Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule- I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
6.11	Socio-economic status of the study area.

7. Impact and Environment Management Plan

Sr. No.	Terms of Reference
7.1	Assessment of ground level concentration of pollutants from the stack emission based on site specific

Sr. No.	Terms of Reference
	meteorological features. In case the project is located on a hilly terrain, the AQIP Modeling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modeling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
7.2	Water Quality modeling - in case of discharge in water body
7.3	Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor cum- rail transport shall be examined.
7.4	A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
7.5	Details of stack emission and action plan for control of emissions to meet standards.
7.6	Measures for fugitive emission control
7.7	Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
7.8	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
7.9	Action plan for the green belt development plan in 33 % area i.e., land with not less than 2,500 trees per ha. mentioning details of species, width of plantation, planning schedule, density of the plantation etc. shall be included. At least 20 varieties of species shall be proposed as part of greenbelt. No invasive or alien or non-native tree species shall be selected for plantation. The green belt shall be around the project periphery and a scheme for greening of the roads used for the project shall also be incorporated.
7.10	Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources. Industry shall construct a rain water storage pond and the accumulated water to be used as fresh water thereby reducing fresh water consumption. Dimensions of rain water storage pond/tank proposed shall be given.

8. Occupational health

Sr. No.	Terms of Reference
8.1	Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.
8.2	Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour

Sr. No.	Terms of Reference
	vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
8.3	Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved.
8.4	Annual report of health status of workers with special reference to Occupational Health and Safety.

9. Corporate Environment Policy

Sr. No.	Terms of Reference
9.1	Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
9.2	What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
9.3	Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report.

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

Sr. No.	Terms of Reference
10.1	undefined

11. Enterprise Social Commitment (ESC)

Sr. No.	Terms of Reference
11.1	As per Ministry's OM No. 22-65/2017-IA.III dated 30.09.2020 PP shall address Public Hearing issues and submit item-wise details along with time bound action plan which shall be included in the Environmental Management Plan in lieu of Corporate Environment Responsibility. Socio-economic development activities need to be elaborated upon.
11.2	Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
11.3	A tabular chart with index for point wise compliance of above TOR.

12. Specific Conditions

Sr. No.	Terms of Reference
12.1	List of existing distillery units in the study area along with their capacity and sourcing of raw material.
12.2	Number of working days of the distillery unit.
12.3	Details of raw materials such as molasses/grains, their source with availability.
12.4	Details of the use of steam from the boiler.
12.5	Surface and Ground water quality around proposed spent wash storage lagoon, and compost yard.
12.6	Plan to reduce spent wash generation within 6-8 KL/KL of alcohol produced.
12.7	Proposed Effluent treatment system for molasses/grain based distillery (spent wash, spent lees, condensate and utilities) as well as domestic sewage and scheme for achieving zero water conservation.
12.8	Proposed action to restrict fresh water consumption within 10 KL/KL of alcohol production.
12.9	Details about capacity of spent wash holding tank, material used, design consideration. No. of peizometers to be proposed around spent wash holding tank.
12.10	Details of solid waste management including management of boiler ash, yeast, etc. Details of incinerated spent wash ash generation and its disposal.
12.11	Details of bio-composting yard (if applicable).
12.12	Action plan to control odour pollution.
12.13	Arrangements for installation of continuous online monitoring system (24x7 monitoring device)
12.14	PP shall utilize treated effluent from the sugar unit in the distillery instead of using fresh water in order to reduce fresh water requirement in the distillery unit. Provision of ETP for treating distillery effluent and CPU for sugar unit shall be made. Filter press shall be provided for sludge management.

Standard Terms of Reference for conducting Environment Impact Assessment Study for Sugar Industry and information to be included in EIA/EMP report

1. Statutory compliance

Sr. No.	Terms of Reference
1.1	The proposed project shall be given a unique name in consonance with the name submitted to other Government Departments etc. for its better identification and reference.
1.2	Vision document specifying prospective long term plan of the project shall be formulated and submitted.

Sr. No.	Terms of Reference
1.3	Latest compliance report duly certified by the Regional Office of MoEF&CC for the conditions stipulated in the environmental and CRZ clearances of the previous phase(s) for the expansion projects shall be submitted.

2. Details of the Project and Site

Sr. No.	Terms of Reference
2.1	The project proponent needs to identify minimum three potential sites based on environmental, ecological and economic considerations, and choose one appropriate site having minimum impacts on ecology and environment. A detailed comparison of the sites in this regard shall be submitted.
2.2	Executive summary of the project indicating relevant details along with recent photographs of the proposed site (s) shall be provided. Response to the issues raised during Public Hearing and the written representations (if any), along with a time bound Action Plan and budgetary allocations to address the same, shall be provided in a tabular form, against each action proposed.
2.3	Harnessing solar power within the premises of the plant particularly at available roof tops and other available areas shall be formulated and for expansion projects, status of implementation shall also be submitted.
2.4	The geographical coordinates (WGS 84) of the proposed site (plant boundary), including location of ash pond along with topo sheet (1:50,000 scale) and IRS satellite map of the area, shall be submitted. Elevation of plant site and ash pond with respect to HFL of water body/nallah/River and high tide level from the sea shall be specified, if the site is located in proximity to them.
2.5	Layout plan indicating break-up of plant area, ash pond, green belt, infrastructure, roads etc. shall be provided.
2.6	Land requirement for the project shall be optimized and in any case not more than what has been specified by CEA from time to time. Item wise break up of land requirement shall be provided.
2.7	Present land use (including land class/kism) as per the revenue records and State Govt. records of the proposed site shall be furnished. Information on land to be acquired including coal transportation system, laying of pipeline, ROW, transmission lines etc. shall be specifically submitted. Status of land acquisition and litigation, if any, should be provided.
2.8	If the project involves forest land, details of application, including date of application, area applied for, and application registration number, for diversion under FCA and its status should be provided along with copies of relevant documents.

Sr. No.	Terms of Reference
2.9	The land acquisition and R&R scheme with a time bound Action Plan should be formulated and addressed in the EIA report.
2.10	Satellite imagery and authenticated topo sheet indicating drainage, cropping pattern, water bodies (wetland, river system, stream, nallahs, ponds etc.), location of nearest habitations (villages), creeks, mangroves, rivers, reservoirs etc. in the study area shall be provided.
2.11	Topography of the study area supported by toposheet on 1:50,000 scale of Survey of India, along with a large scale map preferably of 1:25,000 scale and the specific information whether the site requires any filling shall be provided. In that case, details of filling, quantity of required fill material; its source, transportation etc. shall be submitted.

3. Ecology biodiversity and Environment

Sr. No.	Terms of Reference
3.1	A detailed study on land use pattern in the study area shall be carried out including identification of common property resources (such as grazing and community land, water resources etc.) available and Action Plan for its protection and management shall be formulated. If acquisition of grazing land is involved, it shall be ensured that an equal area of grazing land be acquired and developed and detailed plan submitted.
3.2	Location of any National Park, Sanctuary, Elephant/Tiger Reserve (existing as well as proposed), migratory routes / wildlife corridor, if any, within 10 km of the project site shall be specified and marked on the map duly authenticated by the Chief Wildlife Warden of the State or an officer authorized by him.
3.3	A mineralogical map of the proposed site (including soil type) and information (if available) that the site is not located on potentially mineable mineral deposit shall be submitted.
3.4	The water requirement shall be optimized (by adopting measures such as dry fly ash and dry bottom ash disposal system, air cooled condenser, concept of zero discharge) and in any case not more than that stipulated by CEA from time to time, to be submitted along with details of source of water and water balance diagram. Details of water balance calculated shall take into account reuse and re- circulation of effluents.
3.5	Water body/Nallah (if any) passing across the site should not be disturbed as far as possible. In case any Nallah / drain is proposed to be diverted, it shall be ensured that the diversion does not disturb the natural drainage pattern of the area. Details of proposed diversion shall be furnished duly approved by the concerned Department of the State.
3.6	It shall also be ensured that a minimum of 500 m distance of plant boundary is kept from the HFL of river system / streams etc. and the boundary of site should also be located 500 m away from railway track and National Highways.

Sr. No.	Terms of Reference
3.7	Hydro-geological study of the area shall be carried out through an institute/ organization of repute to assess the impact on ground and surface water regimes. Specific mitigation measures shall be spelt out and time bound Action Plan for its implementation shall be submitted
3.8	Detailed Studies on the impacts of the ecology including fisheries of the River/Estuary/Sea due to the proposed withdrawal of water / discharge of treated wastewater into the River/Sea etc shall be carried out and submitted along with the EIA Report. In case of requirement of marine impact assessment study, the location of intake and outfall shall be clearly specified along with depth of water drawl and discharge into open sea.
3.9	Source of water and its sustainability even in lean season shall be provided along with details of ecological impacts arising out of withdrawal of water and taking into account inter-state shares (if any). Information on other competing sources downstream of the proposed project and commitment regarding availability of requisite quantity of water from the Competent Authority shall be provided along with letter / document stating firm allocation of water.
3.10	Detailed plan for rainwater harvesting and its proposed utilization in the plant shall be furnished. In addition, wherever ground water is drawn, PP shall submit detailed plan of Water charging activity to be undertaken.
3.11	Feasibility of near zero discharge concept shall be critically examined and its details submitted.
3.12	Optimization of Cycles of Concentration (COC) along with other water conservation measures in the project shall be specified.
3.13	Plan for recirculation of ash pond water and its implementation shall be submitted.
3.14	Detailed plan for conducting monitoring of water quality regularly with proper maintenance of records shall be formulated. Detail of methodology and identification of monitoring points (between the plant and drainage in the direction of flow of surface / ground water) shall be submitted. It shall be ensured that parameter to be monitored also include heavy metals. A provision for long-term monitoring of ground water table using Piezometer shall be incorporated in EIA, particularly from the study area.
3.15	Hazards Characterization: Past incidents of hazard events within 10km radius of project area with detailed analysis of causes and probability of reoccurrence

4. Environmental Baseline study and mitigation measures

Sr. No.	Terms of Reference
4.1	One complete season (critical season) site specific meteorological and AAQ data (except monsoon season) as per latest MoEF&CC Notification shall be collected along with past three year's meteorological data for that particular season for wind speed analysis and the dates of

Sr. No.	Terms of Reference
	monitoring shall be recorded. The parameters to be covered for AAQ shall include PM10, PM2.5, SO2, NOx, CO and Hg. The location of the monitoring stations should be so decided so as to take into consideration the upwind direction, pre-dominant downwind direction, other dominant directions, habitation and sensitive receptors. There should be at least one monitoring station each in the upwind and in the pre - dominant downwind direction at a location where maximum ground level concentration is likely to occur.
4.2	In case of expansion project, air quality monitoring data of 104 observations a year for relevant parameters at air quality monitoring stations as identified/stipulated shall be submitted to assess for compliance of AAQ Standards (annual average as well as 24 hrs).
4.3	A list of industries existing and proposed in the study area shall be furnished.
4.4	Cumulative impacts of all sources of emissions including handling and transportation of existing and proposed projects on the environment of the area shall be assessed in detail. Details of the Model used and the input data used for modelling shall also be provided. The air quality contours should be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any. The windrose and isopleths should also be shown on the location map. The cumulative study should also include impacts on water, soil and socio-economics.
4.5	Radio activity and heavy metal contents of coal to be sourced shall be examined and submitted along with laboratory reports.
4.6	Fuel analysis shall be provided. Details of auxiliary fuel, if any, including its quantity, quality, storage etc should also be furnished.
4.7	Quantity of fuel required, its source and characteristics and documentary evidence to substantiate confirmed fuel linkage shall be furnished. The Ministry's Notification dated 02.01.2014 regarding ash content in coal shall be complied. For the expansion projects, the compliance of the existing units to the said Notification shall also be submitted
4.8	Details of transportation of fuel from the source (including port handling) to the proposed plant and its impact on ambient AAQ shall be suitably assessed and submitted. If transportation entails a long distance it shall be ensured that rail transportation to the site shall be first assessed. Wagon loading at source shall preferably be through silo/conveyor belt.
4.9	For proposals based on imported coal, inland transportation and port handling and rail movement shall be examined and details furnished. The approval of the Port and Rail Authorities shall be submitted.
4.10	Details regarding infrastructure facilities such as sanitation, fuel, restrooms, medical facilities, safety during construction phase etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase should be adequately catered for and details furnished.

5. Environmental Management Plan

Sr. No.	Terms of Reference
5.1	EMP to mitigate the adverse impacts due to the project along with item - wise cost of its implementation in a time bound manner shall be specified.
5.2	A Disaster Management Plan (DMP) along with risk assessment study including fire and explosion issues due to storage and use of fuel should be prepared. It should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the proposed activities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures should be provided. Measures to guard against fire hazards should also be invariably provided. Provision for mock drills shall be suitably incorporated to check the efficiency of the plans drawn.
5.3	The DMP so formulated shall include measures against likely Fires/Tsunami/Cyclones/Storm Surges/ Earthquakes etc, as applicable. It shall be ensured that DMP consists of both On-site and Off-site plans, complete with details of containing likely disaster and shall specifically mention personnel identified for the task. Smaller version of the plan for different possible disasters shall be prepared both in English and local languages and circulated widely.
5.4	Details of fly ash utilization plan as per the latest fly ash Utilization Notification of GOI along with firm agreements / MoU with contracting parties including other usages etc. shall be submitted. The plan shall also include disposal method / mechanism of bottom ash along with monitoring mechanism.

6. Green belt development

Sr. No.	Terms of Reference
6.1	Detailed scheme for raising green belt of native species of appropriate width (50 to 100 m) and consisting of at least 3 tiers around plant boundary not less than 2000 tree per ha with survival rate of more than 85% shall be submitted. Photographic evidence must be created and submitted periodically including NRSA reports in case of expansion projects. A shrub layer beneath tree layer would serve as an effective sieve for dust and sink for CO ₂ and other gaseous pollutants and hence a stratified green belt should be developed.
6.2	Over and above the green belt, as carbon sink, plan for additional plantation shall be drawn by identifying blocks of degraded forests, in close consultation with the District Forests Department. In pursuance to this the project proponent shall formulate time bound Action Plans along with financial allocation and shall submit status of implementation to the Ministry every six months

7. Socio-economic activities

Sr. No.	Terms of Reference
7.1	Socio-economic study of the study area comprising of 10 km from the plant site shall be carried out through a reputed institute / agency which shall consist of detail assessment of the impact on livelihood of the local communities.
7.2	Action Plan for identification of local employable youth for training in skills, relevant to the project, for eventual employment in the project itself shall be formulated and numbers specified during construction & operation phases of the Project.
7.3	If the area has tribal population, it shall be ensured that the rights of tribals are well protected. The project proponent shall accordingly identify tribal issues under various provisions of the law of the land.
7.4	A detailed CER plan along with activities wise break up of financial commitment shall be prepared in terms of the provisions OM No. 22-65/2017-IA.III dated 30.09.2020. CER component shall be identified considering need based assessment study and Public Hearing issues. Sustainable income generating measures which can help in upliftment of affected section of society, which is consistent with the traditional skills of the people shall be identified.
7.5	While formulating CER schemes it shall be ensured that an in-built monitoring mechanism for the schemes identified are in place and mechanism for conducting annual social audit from the nearest government institute of repute in the region shall be prepared. The project proponent shall also provide Action Plan for the status of implementation of the scheme from time to time and dovetail the same with any Govt. scheme(s). CER details done in the past should be clearly spelt out in case of expansion projects.
7.6	R&R plan, as applicable, shall be formulated wherein mechanism for protecting the rights and livelihood of the people in the region who are likely to be impacted, is taken into consideration. R&R plan shall be formulated after a detailed census of population based on socio economic surveys who were dependant on land falling in the project, as well as, population who were dependant on land not owned by them.
7.7	Assessment of occupational health and endemic diseases of environmental origin in the study area shall be carried out and Action Plan to mitigate the same shall be prepared.
7.8	Occupational health and safety measures for the workers including identification of work related health hazards shall be formulated. The company shall engage full time qualified doctors who are trained in occupational health. Health monitoring of the workers shall be conducted at periodic intervals and health records maintained. Awareness programme for workers due to likely adverse impact on their health due to working in non-conductive environment shall be carried out and precautionary measures like use of personal equipments etc. shall be provided. Review of impact of various health measures undertaken at intervals of two to three years shall be conducted with an excellent follow up plan of action wherever required.

8. Corporate Environment Policy

Sr. No.	Terms of Reference
8.1	Does the company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
8.2	Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
8.3	What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions. Details of this system may be given.
8.4	Does the company has compliance management system in place wherein compliance status along with compliances / violations of environmental norms are reported to the CMD and the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.

9. Miscellaneous

Sr. No.	Terms of Reference
9.1	All the above details should be adequately brought out in the EIA report and in the presentation to the Committee.
9.2	Details of litigation pending or otherwise with respect to project in any Court, Tribunal etc. shall invariably be furnished.
9.3	In case any dismantling of old plants are envisaged, the planned land use & land reclamation of dismantled area to be furnished.

10. Additional TOR for Coastal Based Thermal Power Plants Projects (TPPs)

Sr. No.	Terms of Reference
10.1	Low lying areas fulfilling the definition wetland as per Ramsar Convention shall be identified and clearly demarcated w.r.t the proposed site.
10.2	If the site includes or is located close to marshy areas and backwaters, these areas must be excluded from the site and the project boundary should be away from the CRZ line. Authenticated CRZ map from any of the authorized agencies shall be submitted.
10.3	The soil levelling should be minimum with no or minimal disturbance to the natural drainage of the area. If the minor canals (if any) have to be diverted, the design for diversion should be such that the diverted canals not only drains the plant area but also collect the volume of flood water from the surrounding areas and discharge into marshy areas/major canals that enter into creek. Major canals should not be altered but their embankments should be strengthened and

Sr. No.	Terms of Reference
	desilted.
10.4	Additional soil required for levelling of the sites should as far as possible be generated within the site itself in such a manner that the natural drainage system of the area is protected and improved.
10.5	Marshy areas which hold large quantities of flood water to be identified and shall not be disturbed.
10.6	No waste should be discharged into Creek, Canal systems, Backwaters, Marshy areas and seas without appropriate treatment. Wherever feasible, the outfall should be first treated in a Guard Pond and then only discharged into deep sea (10 to 15 m depth). Similarly, the Intake should be from deep sea to avoid aggregation of fish and in no case shall be from the estuarine zone. The brine that comes out from Desalinization Plants (if any) should not be discharged into sea without adequate dilution.
10.7	Mangrove conservation and regeneration plan shall be formulated and Action Plan with details of time bound implementation shall be specified, if mangroves are present in Study Area.
10.8	A common Green Endowment Fund should be created by the project proponents out of EMP budgets. The interest earned out of it should be used for the development and management of green cover of the area.
10.9	Impact on fisheries at various socio economic level shall be assessed.
10.10	An endowment Fishermen Welfare Fund should be created out of CER grants not only to enhance their quality of life by creation of facilities for Fish Landing Platforms / Fishing Harbour / cold storage, but also to provide relief in case of emergency situations such as missing of fishermen on duty due to rough seas, tropical cyclones and storms etc.
10.11	Tsunami Emergency Management Plan shall be prepared wherever applicable and Plan submitted prior to the commencement of construction work.
10.12	There should not be any contamination of soil, ground and surface waters (canals & village pond) with sea water in and around the project sites. In other words necessary preventive measures for spillage from pipelines, such as lining of Guard Pond used for the treatment of outfall before discharging into the sea and surface RCC channels along the pipelines of outfall and intake should be adopted. This is just because the areas around the projects boundaries could be fertile agricultural land used for paddy cultivation.

Standard Terms of Reference for conducting Environment Impact Assessment Study for Distilleries and information to be included in EIA/EMP report

1. Environmental Status

Sr. No.	Terms of Reference
1.1	iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.

2. Specific Conditions

Sr. No.	Terms of Reference
2.1	Complete process flow diagram describing each unit, its processes and operations in production of sugar, along with material and energy inputs and outputs (material and energy balance).
2.2	Details on water balance including quantity of effluent generated, recycled & reused. Efforts to minimize effluent discharge and to maintain quality of receiving water body.
2.3	Details of effluent treatment plant, inlet and treated water quality with specific efficiency of each treatment unit in reduction in respect to fall concerned / regulated environmental parameters.
2.4	Number of working days of the sugar production unit.
2.5	Details of proposed source-specific pollution control schemes and equipments to meet the national standards.
2.6	Collection, storage, handling and transportation of molasses.
2.7	Collection, storage and handling of bagasse and press mud.
2.8	Fly ash management plan for coal based and bagasse and action plan
2.9	Details on water quality parameters such as Temperature, Colour, pH, BOD, COD, Total Kjeldhal Nitrogen, Phosphates, Oil & Grease, Total Suspended Solids, Total Coli form bacteria etc.
2.10	Details on existing ambient air quality and expected, stack and fugitive emissions for PM10, PM2.5, SO ₂ *, NO _x *, etc., and evaluation of the adequacy of the proposed pollution control devices to meet standards for point sources and to meet AAQ standards. (*-As applicable)

Additional Terms of Reference

1. Risk assessment study shall be carried out of hazardous chemical storage. Location of alcohol bulk storage tanks shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant i.e., the risk should be tolerable (acceptable) at the boundary.
2. Industry shall determine the distance of fire hydrant while finalizing its location from ethanol storage

tanks or any other hazardous storage substance shall be based on dispersion of Thermal Radiation so that during any unforeseen situation fire hydrant is always available to operate manually.

3. Total Fresh water requirement during off season shall not exceed 4 kL per kL of alcohol produced which will be met from ground water for non crushing season. During the Sugar crushing season, entire treated water from the Sugar unit shall be utilized in the Distillery, reducing the fresh water demand to zero. No ground water recharge shall be permitted within the premises.

4. Air cooled condensers shall be provided with sugar unit. PP shall provide the details of source for feed stock i.e., sugarcane juice/ molasses and also provide availability of sufficient feed stock for operating the proposed plant.

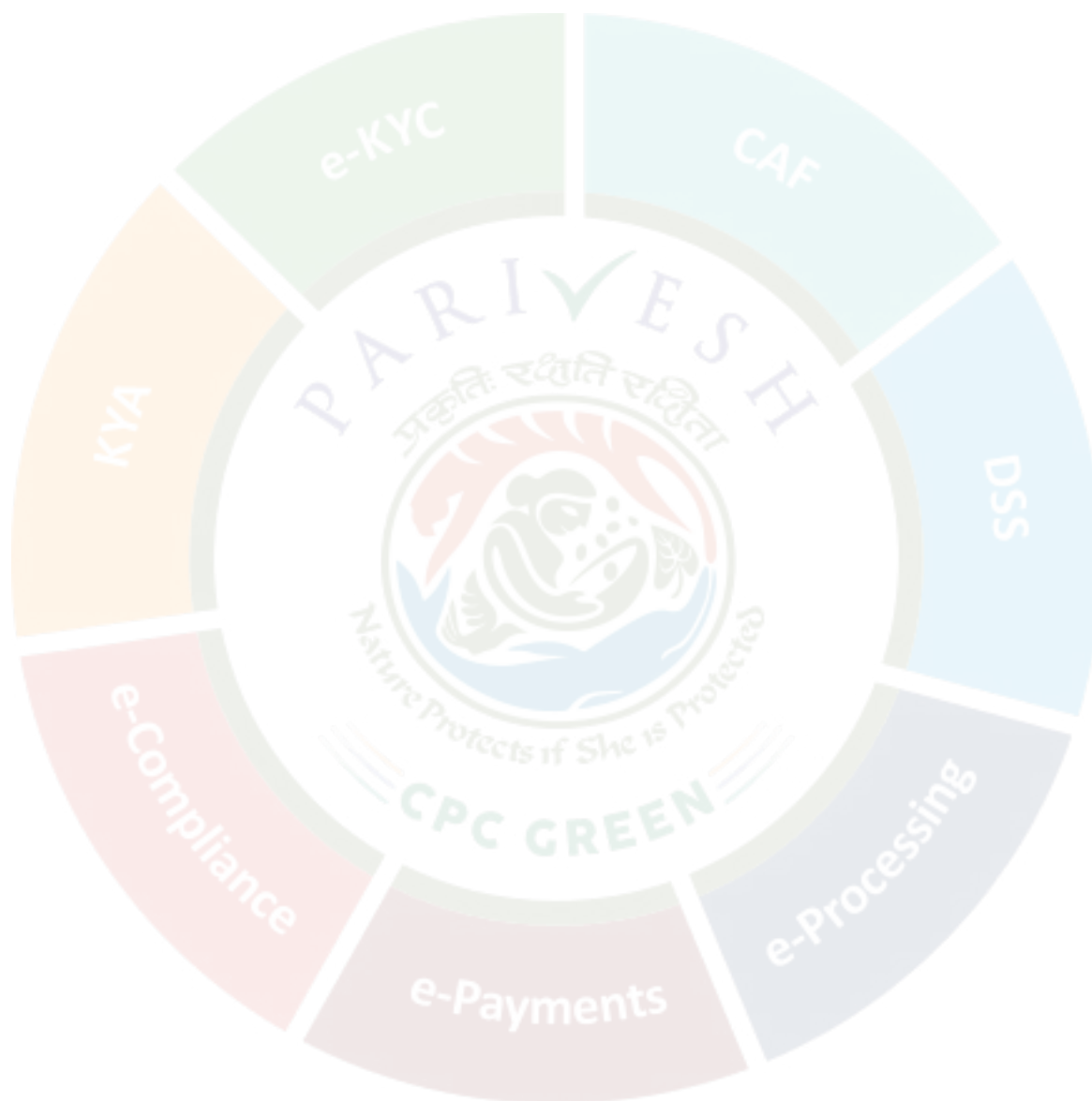
5. EIA/EMP report shall include details such as (i) Details of advertisements for Public Hearing (ii) Copy of forwarding letter of SPCB to MoEF&CC (iii) Legible copy of public hearing proceedings duly signed by the presiding officer (iv) Attendance sheets (v) Action plan to address the issues raised during public along with budget allocation and time line. (vi) Copy of written grievances/submissions if any. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Sugar	Product	19350	21150	40500	MT/M	Road	NA
Molasses	By-Product	5940	6060	12000	MT/M	Road	Molasses will be used in own proposed Distillery Unit
Bagasse	By-Product	44640	45360	90000	MT/M	Conveyor Belt	Bagasse is used in own boiler as fuel
Pressmud	By-Product	4500	3000	7500	MT/M	Road	NA
Electricity	Product	25	8	33	Mega Watt (MW)	Transmission Lines	NA
RS / ENA/ Ethanol from Molasses or Sugarcane Juice	Product	0	9000	9000	KL/M	Road	NA
RS/ENA from Grain	Product	0	9000	9000	KL/M	Road	NA
Ethanol from Grain under B2 Category	Product	9000	0	9000	KL/M	Road	NA
CO2 Gas	By-Product	6750	0	6750	MT/M	Cleaned, Compressed, Bottled and Sold	NA
DDGS	By-Product	7500	0	7500	MT/M	Road	NA
Electricity Generation on Distillery boiler	By-Product	0	8	8	Mega Watt (MW)	Transmission Lines	NA

Send Approval Copy To (In case of multiple use comma as separator)



OLAM GLOBAL AGRI COMMODITIES INDIA PVT. LTD. RAJAGOLI (KH)



AREA STATEMENT

SR.NO	DISCRIPTION	AREA
1	TOTAL PLOT AREA	550000
2	TOTAL BUILT UP AREA	129447.15
3	TOTAL GREEN BELT AREA	257713.2
4	TOTAL PARKING AREA	83522.02
5	AREA UNDER ROAD	71793.86
6	OPEN SPACE	7523.77

GROUND COVERAGE AREA STATEMENT

S.N	DISCRIPTION	SQM
1	B1 RESIDENTIAL COI O'VY	2140.9675
2	B2 ADM V BUILDING	437.3835
3	B3 CANTFFN	450
4	B4 WATLR TRLATN/LNT PLAN	2093.6611
5	B5 COGFV COOINC TOWFR	1646.7015
6	B6 TG BUILDING	795.0232
7	B7 BOIIFR	2261.4073
8	B8 COGLV CONTROL ROOM	1464.8216
9	B9 SUGAR GODDOWN-1	4622.7656
10	B10 SUGAR GODDOWN 2	4586.4581
11	B11 BAGASSE STORAGE	2163.6319
12	B12 SUGAR/LTP	5792.6754
13	B13 SUGAR GODDOWN-3	3600
14	B14 WORK SHIP	188.8792
15	B15 MILL HOUSE	3592.1011
16	B16 PALL ROOM	479.8358
17	B17 STORE	308.0591
18	B18 CANL CARRLR	1392.5581
19	B19 EVAPORATION STATION	2637.5157
20	B20 ROLLING & SUGAR HOIJSF	2770.581
21	B21 PANEL ROOM	720.0758
22	B22 COOINC TOWFR	354.9564
23	B23 RAW WATER TANK	2021.7619
24	B24 PUMP HOUSE	179.6333
25	B25 VCC ROOM	291.2133
26	B26 MOI ASSFS STORAGE TANK	629.0175
27	B27 SWITCHYARD	6808
	TOTAL	54433.8587
28	B#1 WEIGH BRIDGE	250.35
29	B#2 MOI ASSFS STORAGE TANK	663.07
30	B#3 DISTILLRY MOLASSLS TANK 3	1294.71
31	B#4 DISTILLRY MOI ASSFS TANK-2	1312.92
32	B#5 CLANNING GRAIN SILO 1,2	4377.46
33	B#6 LIQUIFACTON & FFR/FNATION SFCTION	3796.36
34	B#7 DISTILLRY MOLASSLS TANK 1	1312.92
35	B#8 DRFR & FVAP SFCTION	1923.93
36	B#9 DISTILLATION SFCTION	1108.8
37	B#10 ADYTA STORAGE SFCTION	12561.34
38	B#11 BUILDING HODLSL	2963.23
39	B#12 DDCS GODDOWN	600
40	B#13 BODLR SFCTION	4106.28
41	B#14 ASH SILO	61.7
42	B#15 FLRYLNATION COOLING TOWLR	1133.93
43	B#16 DISTILLATION COOLING TOWER	1330.33
44	B#17 ARLA FOR CPL	8045.21
45	B#18 RAW WATER RESERVOIR	3835.93
46	B#19 RAIN WATLR HARV LSTING BUND	2000
47	B#20 WORK SHOP	313.51
48	B#21 ADMIN BUILDING	465.83
49	B#22 CLOSED COAL SHED	627.01
50	B#23 MILL HOUSL	6743.42
51	B#24 EVAPORATION SFCTION	953.2
52	B#25 PAN HOIJSF	3000
53	B#26 TG BUILDING	1724.69
54	B#27 SUGAR FTP FXPA VISION	4864.58
55	B#28 RAW SPEN WASH TANK	3189.3
	TOTAL	75013.2
	SUB TOTAL	129447.1582

LEGEND

1	EXISTING BUILT UP	
2	PROPOSED BUILT UP	
3	EXISTING GREEN BELT	
3	PROPOSED GREEN BELT	
4	PARKING	
5	EXISTING ROAD	
6	WATER STORAGE TANK	
7	OPEN SPACE	



Appendix B - Certificate of Incorporation

GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS

Central Registration Centre

Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that OLAM GLOBAL AGRI COMMODITIES INDIA PRIVATE LIMITED is incorporated on this Seventeenth day of August Two thousand twenty-one under the Companies Act, 2013 (18 of 2013) and that the company is limited by shares.

The Corporate Identity Number of the company is U51229HR2021FTC097076.

The Permanent Account Number (PAN) of the company is **AADCO5437H** *

The Tax Deduction and Collection Account Number (TAN) of the company is **RTKO02920B** *

Given under my hand at Manesar this Seventeenth day of August Two thousand twenty-one .



Digital Signature Certificate
KAMAL HARJANI

For and on behalf of the Jurisdictional Registrar of Companies
Registrar of Companies
Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on www.mca.gov.in

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

OLAM GLOBAL AGRI COMMODITIES INDIA PRIVATE LIMITED
2nd Floor, Tower-A, DLF Building No. 8, DLF Cyber City, Phase II,
Gurugram, Gurgaon, Haryana, India, 122002



* as issued by the Income Tax Department

Government of Maharashtra
Village Abstract No.7 (Right record & register)

[Maharashtra Land & Revenue right record & register (Preparation and Maintenance) Rules 1971, rules 3,5,6&7]

Village name: -Channehatti

Taluka Chandgad.

Dist- Kolhapur

Land survey no.	Division	Type of land	Khata No.	Owner Name	Area	Charge	Mutation No.	Other Rights
76/1	Class 1		540	Olam Global Agri Commodities India, Pvt. Ltd	52.80.00	12.31	(447)	Non-Agriculture use
Land survey No. Local Name								According to the order dated 12.10.2006 of Hon.Tahasildarso Chandigad, eligible for the condition 1 to 22 are classified under non-agriculture (197)
Unit Of Area	Hector	R						Pending Mutation: No
A) Cultivable Area Arable Land Irrigate Land	52	80.00						Earlier Mutation No.447 Dated - 18/04/2022
Total Cultivated Land	52	80.00						
B. Barren Land Class (A) Class (B) Total Barren Land	0	00.00						
Charges								
Total	Rupees	Paisa						
	12	31						
	12	31						

Village Abstract No.12 (Right record & register)

[Maharashtra Land & Revenue right record & register (Preparation and Maintenance) Rules 1971, rules 29]

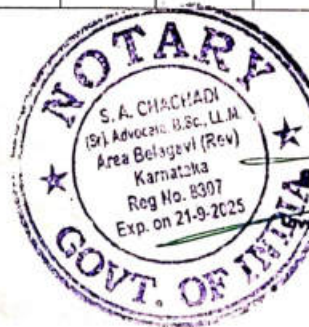
Village name: -Channehatti

Taluka Chandgad.

Dist.- Kolhapur

Gut No.76/1

Year	Seasons	Khata No.	crop total area					Barren Land		Remark
			Type Of Crop	Crop Name	Irrigated	Non-Water Irrigate	Source of Irrigation	Type	Area	
1	2	3	4	5	6	7	8	9	10	11
2022	Total Year	540						Use for Industrial	52.80.00	



ATTESTED
[Signature]
S. A. CHICHADI
B.Sc., LL.B. (Spl.), LL.M.
Advocate & Notary (Govt. of India)
REI AGAVI

13 MAY 2023



महाराष्ट्र शासन

गाव नमुना सात (अधिकार अगिलेख पत्रक)

[महाराष्ट्र जमीन महसुल अधिकार अगिलेख आणि नोंदवद्दा (तयार करणे व सुस्थितीत ठेवणे) नियम १९७१ यातील नियम ३,५,६ आणि ७]

गाव :- चन्नेहट्टी (५६८१३७)

तालुका :- चंदगड

जिल्हा :- कोल्हापूर



ULPIN : 35647171649

गट क्रमांक व उपविभाग

७६/१

35647171649

भूधारणा पद्धती		भोगवटादार वर्ग - १		शेताचे स्थानीक नाव :			
क्षेत्र, एकक व आकारणी	खाते क्र.	भोगवटादाराचे नाव	क्षेत्र	आकार	पो.ख.	फेरफार क्र	कुळ, खंड व इतर अधिकार
क्षेत्राचे एकक हे.आर.पी.मी	४७८	[ओलम अॅग्री इंडिया लिमिटेड]	५२.८०.००	१२.३९		(४०९)	कुळाचे नाव व खंड
अ) लागवड योग्य क्षेत्र	५२७	[ओलम अॅग्री इंडिया प्रा लि]				(४४७)	इतर अधिकार
जिरायत	५२.८०.००						प्रकृषिक वापर - औद्योगिक (गावठाणा बाहेरील)
बागायत	-	ओलम ग्लोबल एग्री कम्प्रीटीज इंडीया प्रा लि	५२.८०.००	१२.३९		(४४७)	मा.तहसिलदारसो चंदगड यांचे दिनांक
एकुण							१२/१०/२००६ चे आदेशानुसार १ ते २२ अटीस पत्र
ला.यो. क्षेत्र	५२.८०.००						राहून बिगरशेती कडे वर्ग (१९७)
ब) पोटखराब क्षेत्र							[जमीन अधिमाज्य प्रत] (४३४)
(लागवड अयोग्य)							[जमीन अधिमाज्य प्रत] (४३४)
वर्ग (अ)	-						प्रलंबित फेरफार : नाही.
वर्ग (ब)	-						शेवटचा फेरफार क्रमांक : ४४७ व दिनांक :
एकुण							१८/०४/२०२२
पो.ख.क्षेत्र	०.००.००						
एकुण क्षेत्र	५२.८०.००						
(अ+ब)							
आकारणी	१२.३९						
जुडी किंवा विशेष							
आकारणी							
जुने फेरफार क्र : (१) (१८७) (३१०) (३३५) (३५३) (४०९) (४३४)							सीमा आणि भुमापन चिन्हे



हा गाव नमुना क्रमांक ७ दिनांक २३/०६/२०२२-२२:३७:२९ PM रोजी डिजिटल स्वाक्षरीत केला आहे व गाव नमुना क्रमांक १२ चा डेटा स्वयंप्रमाणित असल्यामुळे ७/१२ अगिलेखावर वर कोणत्याही सही शिक्क्याची आवश्यकता नाही.

पृष्ठ क्र. १/२

७/१२ डाउनलोड दि. : १०/०५/२०२३ : ११:०९:३५ AM. वैधता पडताळणीसाठी <https://digitalsatbara.mahabhumi.gov.in/dsk/> या संकेत स्थळावर जाऊन 3412100001175075 हा क्रमांक वापरावा.



गाव नमुना बारा (पिकांची नोंदवही)

[महाराष्ट्र जमीन महसूल अधिकार कमिश्नर आणि नोंदवह्या (तयार करणे व सुस्थितीत ठेवणे) नियम १९७१ यातील नियम २९]

गाव :- चन्नेहट्टी (५६८१३७)

तालुका :- चंदगड

जिल्हा :- कोल्हापूर

गट क्रमांक व उपविभाग

७६/१

वर्ष	हंगाम	खाते क्रमांक	पिकाखालील क्षेत्राचा तपशील					लागवडीसाठी उपलब्ध नसलेली जमीन		शेरा
			पिकाचा प्रकार	पिकांचे नाव	जल सिंचित	अजल सिंचित	जल सिंचनाचे साधन	स्वरूप	क्षेत्र	
(१)	(२)	(३)	(४)	(५)	(६)	(७)	(८)	(९)	(१०)	(११)
२०१९	खरीप							घरपड	५२.८०००	
२०२१	संपूर्ण वर्ष	५४०						औद्योगिक क्षेत्र पड	५२.८०००	

टीप : ** सदरची नोंद मोबाइल ॲप द्वारे घेणेत आलेली आहे



Government of Maharashtra
Village Abstract No.7 (Right record & register)

[Maharashtra Land & Revenue right record & register (Preparation and Maintenance) Rules 1971,rules 3,5,6&7]
Village name: -Channehatti Taluka Chandgad. Dist- Kolhapur
Village Name:-Channehatti Taluka Chandgad. Dist.- Kolhapur

Land survey no.	Division	Type of land	Khata No.	Owner Name	Area	Charge	Mutation No.
76/2/1	Class 1		542	Olam Global Agri Commodities India Pvt. Ltd	15.20.60		(454)
Land survey No. Local Name							
Unit Of Area	Hector	R					
A) Cultivable Area							
Arable Land	15	20.60					
Irrigate Land							
Total Cultivated Land	15	20.60					
B. Barren Land							
Class (A)	0	00.00					
Class (B)							
Total Barren Land							
	Rupees	Paisa					
Total Charges	03	54					
	03	54					

Other Rights

Brench of Condition

Transaction against condition.

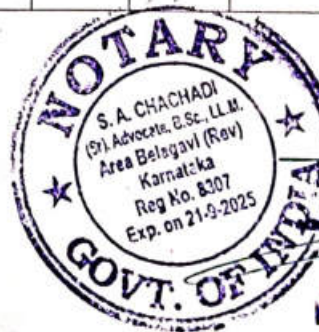
Pending Mutation: No

Earlier Mutation No.454 Dated 05/05/2022

Village Abstract No.12 (Right record & register)

[Maharashtra Land & Revenue right record & register (Preparation and Maintenance) Rules 1971,rules 29]
Village name: -Channehatti Taluka Chandgad. Dist.- Kolhapur
Gut No.76/2/1

Year	Seasons	Khata No.	crop total area					Barren Land		Remark
			Type Of Crop	Crop Name	Irrigated	Non-Water irrigate	Source of Irrigation	Type	Area	
1	2	3	4	5	6	7	8	9	10	11
2022	Kharip							Grass Field	15.20.60	



ATTESTED
S. A. Chachadi
S. A. CHACHADI
B.Sc. LL.B. (Spl.) LL.M.
Advocate & Notary (Govt. of India)
RJY AGAM

13 MAY 2023



महाराष्ट्र शासन

गाव नमुना सात (अधिकार अमिलेख पत्रक)

[महाराष्ट्र जमीन महसुल अधिकार अमिलेख आणि नोंदवद्धा (तयार करणे व सुस्थितीत ठेवणे) नियम १९७१ यातील नियम ३,५,६ आणि ७]

गाव :- घन्नेहट्टी (५६८१३७)

तालुका :- घंदगड

जिल्हा :- कोल्हापूर



ULPIN : 11365410608

गट क्रमांक व उपविभाग

७६/२/१

11365410608

भुगतराणा पद्धती भोगवटदार वर्ग -१		गोताचे स्थानीक नाव :					
क्षेत्र, एकक व आकारणी	खाले क्र.	भोगवटदाराचे नाव	क्षेत्र	आकार	पौ.ख.	फेरफार क्र	कुळ, खंड व इतर अधिकार
क्षेत्राचे एकक हे.आर.पौ.मी	४७८	<u>ओलम ग्लोबल इन्डिया लिमिटेड</u>	१५.२०.६०	३.४६		(४०९)	कुळाचे नाव व खंड
अ) लागवड योग्य क्षेत्र	५२७	<u>ओलम ग्लोबल इन्डिया प्रा लि</u>				(४०९)	इतर अधिकार
जिरायत	१५.२०.६०						गर्तमग
बागायत	-	ओलम ग्लोबल एंटी कर्पोरेटीव्ह इंडीया प्रा लि	१५.२०.६०	३.५४		(४०९)	शर्ती विरुद्ध व्यवहार (२०७)
एकुण							[जमीन अधिग्रहण मार्ग] ४५६)
ला.पौ. क्षेत्र	१५.२०.६०						[जमीन अधिग्रहण मार्ग] ४५६)
ब) पोटखराब क्षेत्र (लागवड अयोग्य)							प्रलंबित फेरफार : नाही.
वर्ग (अ)	-						गोवटचा फेरफार क्रमांक : ४५६ व दिनांक :
वर्ग (क)	-						३१/०३/२०२२
एकुण							
पौ.ख.क्षेत्र	०.००.००						
एकुण क्षेत्र (अ+ब)	१५.२०.६०						
आकारणी	३.५४						
जुडी किंवा आकारणी	विशेष						
जुने फेरफार क्र : (१) (३१७) (३३७) (३५३) (३७५) (४५६)							सीमा आणि भुगापन चिन्हे



हा गाव नमुना क्रमांक ७ दिनांक ३१/०३/२०२२ ०२:३९:५४ PM रोजी डिजिटल स्वाक्षरीत केला आहे व गाव नमुना क्रमांक १२ चा डेटा स्वयंप्रमाणित असल्यामुळे ७/१२ अधिनेखार वर कोणत्याही स्वी शिक्क्याची आवश्यकता नाही.

७/१२ आजमतीत दि. : १०/०५/२०२३ : ११:११:२३ AM वेळाला पदावळणीसाठी <https://dgp.maharashtra.gov.in/dar/> या संकेत स्थळावर जाऊन 3412100001166293 हा क्रमांक वापरता.

पृष्ठ क्र. १/२



गाव नमुना बारा (पिकांची नोंदवही)

[महाराष्ट्र जमीन महसूल अधिकार अधिलेख आणि नोंदवह्या (तयार करणे व सुस्थितीत ठेवणे) नियम १९७१ यातील नियम २९]

गाव :- चन्नेहट्टी (५६८१३७)

तालुका :- चंदगड

जिल्हा :- कोल्हापूर

गट क्रमांक व उपविभाग

७६/१

वर्ष	हंगाम	खाते क्रमांक	पिकाखालील क्षेत्राचा तपशील					लागवडीसाठी उपलब्ध नसलेली जमीन		शेरा
			पिकाचा प्रकार	पिकांचे नाव	जल सिंचित	अजल सिंचित	जल सिंचनाचे साधन	स्वरूप	क्षेत्र	
(१)	(२)	(३)	(४)	(५)	(६)	(७)	(८)	(९)	(१०)	(११)
२०१९	खरीप							घरपड	५२.८०००	
२०२१	संपूर्ण वर्ष	५४०						औद्योगिक क्षेत्र पड	५२.८०००	

टीप : ** सदरची नोंद मोबाइल ॲप द्वारे घेणेत आलेली आहे

Government of Maharashtra
Village Abstract No.7 (Right record & register)

[Maharashtra Land & Revenue right record & register (Preparation and Maintenance) Rules 1971,rules 3,5,6&7]

Village name: -Channehatti

Taluka Chandgad.

Dist.- Kolhapur

Land survey no.	Division	Type of land	Khata No.	Owner Name	Area	Charge	Mutation No.	Other Rights Brench of Condition Transaction against condition [207] Other The land used for agriculture. Not for any other purpose without prior permission [455] Pending Mutation: No Earlier Mutation No.454 Dated 05/05/2022
76/2/2	Class 1		543	Olam Global Agri Commodities India Pvt. Ltd	12.46.00		(454)	
Land survey No. Local Name								
Unit Of Area	Hector	R						
A) Cultivable Area								
Arable Land	12	46.00						
Irrigate Land								
Total Cultivated Land	12	46.00						
B. Barren Land								
Class (A)	0	00.00						
Class (B)								
Total Barren Land								
	Rupees	Paisa						
Total	02	90						
Charges	02	90						

Village Abstract No.12 (Right record & register)

[Maharashtra Land & Revenue right record & register (Preparation and Maintenance) Rules 1971,rules 29]

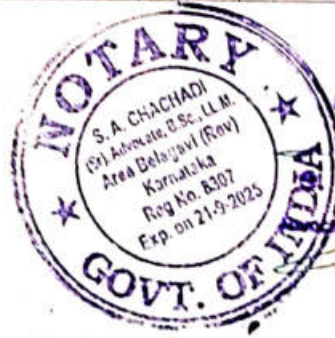
Village name: -Channehatti

Taluka Chandgad.

Dist.- Kolhapur

Gut No.76/2/2

Year	Seasons	Khata No.	crop total area					Barren Land		Remark
			Type Of Crop	Crop Name	Irrigated	Non-Water irrigate	Source of Irrigation	Type	Area	
1	2	3	4	5	6	7	8	9	10	11
2022	Kharip							Grass Field	12.46.00	



ATTESTED
[Signature]
S. CHACHADI
B.Sc., LL.B., (Sp.) LL.M.
Notary & Notary (Govt. of India)
Belagavi

13 MAY 2023



महाराष्ट्र शासन

गाव नमुना शीट (अधिकार अधिलेख पत्रक)

[महाराष्ट्र जमीन महसूल अधिकार अधिलेख आणि नोंदवहा (तापार करणे व सुविधीत ठेवणे) नियम १९७१ यातील नियम ३५,६ अर्थात]

गाव :- चन्हेडणी (५६८१३७)

सामूहिक :- चंभगड

जिल्हा :- कोल्हापूर



ULFNR : 12594190021

मह. क्रमांक व उपविभाग

७१/२/२

12594190021

भूतारणा पद्धती		भोगवटादार वर्ग - १		शेताचे स्थानीक नाव :			
क्षेत्र, एकक व आकारणी	खाते क्र.	भोगवटादाराचे नाव	क्षेत्र	आकार	पो.ख.	फेरफार क्र.	मूळ, खंड व इतर अधिकार
शेताचे एकक हे.आर.पो.मी	४७८	[ओलम ग्लोबल इंडिया लिमिटेड]	३२.४६.००	२.९०		(४०९)	कुळचे नाव व खंड
अ) लागवड योग्य क्षेत्र जिरायत १२.४६.०० बागायत - एकुण ला.यो. क्षेत्र १२.४६.००	५२७	[ओलम ग्लोबल इंडिया प्रा लि]				(४०९)	इतर अधिकार अर्जापत्र अतीथिच्छ व्यवहार (२०७) (जमीन अधिभाव्य माली) ४५५)
ब) पोटखराब क्षेत्र (लागवड अयोग्य) वर्ग (अ) - वर्ग (ब) - एकुण पो.ख.क्षेत्र ०.००.००		ओलम ग्लोबल ईवी कम्पोडीटीज इंडीया प्रा लि	१२.४६.००	२.९०		(४०७)	अतीथिच्छ व्यवहार (२०७) (जमीन अधिभाव्य माली) ४५५) इतर अतिथिच्छा वापर शेतीकडे करणेचा आहे. पूर्ण परमानवी खेरीज शेती व्यतिरिक्त अन्य कारणाकडे वापर करणेचा नाही. (४५५)
एकुण क्षेत्र (अ+ब)							प्रलंबित फेरफार : नाही.
आकारणी							शेवटचा फेरफार क्रमांक : ४५५ व दिनांक : ३१/०३/२०२२
जुडी किंवा आकारणी							
जुने फेरफार क्र : (१) (२०७) (३१०) (३३५) (३५३) (४३७) (४५५)							शीगा आणि भुमापन चिन्हे



हा गाव नमुना क्रमांक ७ दिनांक ३१/०३/२०२२ ३:३६:१६ PM रोजी डिजिटल स्वाक्षरीत केला आहे व गाव नमुना क्रमांक १२ चा डेटा स्वयंप्रमाणित असल्यामुळे ७/१२ अधिलेखावर वर कोणत्याही सही शिक्क्याची आवश्यकता नाही.

७/१२ डाऊनलोड दि. : १०/०५/२०२३ : ११:१२:५९ AM. पेटता पडताळणीसाठी <https://digitalshiksha.mahatrust.gov.in/dse/> या संकेत स्थळावर जाऊन 3412100001166291 हा क्रमांक वापरावा.

पृष्ठ क्र. १/२



गाव नमुना बारा (पिकांची नोंदवही)

[महाराष्ट्र जमीन महसूल अधिकार अभिलेख आणि नोंदवह्या (तयार करणे व सुस्थितीत ठेवणे) नियम १९७१ यातील नियम २९]

गाव :- चन्नेहटी (५६८१३७)

तालुका :- चंदगढ

जिल्हा :- कोल्हापूर

गट क्रमांक व उपविभाग

७६/२/२

वर्ष	हंगाम	खाते क्रमांक	पिकाखालील क्षेत्राचा तपशील					लागवडीसाठी उपलब्ध नसलेली जमीन		जेरा
			पिकाचा प्रकार	पिकांचे नाव	जल सिंचित	अजल सिंचित	जल सिंचनाचे साधन	स्वरूप	क्षेत्र	
(१)	(२)	(३)	(४)	(५)	(६)	(७)	(८)	(९)	(१०)	(११)
२०१९	खरीप							पडळ	१२.४६००	
२०२०	खरीप							गवत पड	१२.४६००	
२०२१	संपूर्ण वर्ष	५४३						गवत पड	१२.००००	
			निर्मळ	नाचणी			०.४६००			

टीप :- ** सदरची नोंद मोबाइल ॲप द्वारे घेणेत आलेली आहे

Government of Maharashtra
Village Abstract No.7 (Right record & register)

[Maharashtra Land & Revenue right record & register (Preparation and Maintenance) Rules 1971,rules 3,5,6&7]

Village name: -Rajgoli Bk (568136)

Taluka Chandgad.

Dist.- Kolhapur

Land survey no.	Division	Type of land	Khata No.	Owner Name	Area	Charge	Mutation No.	Other Rights
757	Class 1							Loan- Co-operation society e-karar
Land survey No. Local Name			541	Olam Global Agri Commodities India Pvt. Ltd	1.20	0.24	(1646)	Declared Loan Rs.50,000/- (586)
Unit Of Area	Hector	R	630	Sushila Mahadev Patil Sunanda Gundu Patil Ramchandra Mahadev Patil Shivaji Mahadev Patil Basavant Mahadev Patil	4.70.30	0.94	(1609)	Loan- Co-operation society e-karar
A) Cultivable Area			9558	Anand Jakkappa Patil	3.014.30	0.63	(1552)	Mortgage-Bank Of Maharashtra - Rs.3,00,000/- Ananda (758)
Arable Land	15	31.00	9748	Atharv Kallappa Patil Kallappa Patil -Gradian	1.27.30	0.25	(927)	
Irrigate Land			9749	Shrivardhn Rajesh Patil Rajesh Patil-Gradian	1.27.60	0.25	(927)	Pending Mutation: No
Total Cultivated Land	15	31.00	9750	Ketan Dhondiba Patil Kallappa Patil- Gradian	1.27.50	0.25	(927)	Earlier Mutation No: 1646, Dtd.29/04/2022
B. Barren Land	4	33.00	9751	Santaram Ningappa Patil	0.88.00	0.18	(946)	
Total (A+B)	19	64.00	10027	Anil Kallappa Patil	1.56.00	0.31	(1551)	
			10028	Dinesh Yashawant Patil Ganesh Yashawant Patil Yashavant Pati-Gradian	0.78.00	0.16	(1552)	
Charges	Rupees	Paisa						
	3	06						
	3	06						

Village Abstract No.12 (Right record & register)

[Maharashtra Land & Revenue right record & register (Preparation and Maintenance) Rules 1971,rules 29]

Village name: -Channehatti

Taluka Chandgad.

Dist.- Kolhapur

Gut No.76/1

Year	Seasons	Khata No.	Type Of Crop	crop total area				Barren Land		Remark
				Crop Name	Irrigated	Non-Water Irrigate	Source of Irrigation	Type	Area	
1	2	3	4	5	6	7	8	9	10	11
2022	Kharip								15.31.00	Grass Field



ATTESTED
[Signature]
S. A. CHACHADI
B.Sc., LL.M.
Advocate & Notary (Govt. of India)
BEI ALGAVI

13 MAY 2023



महाराष्ट्र शासन

गाव नमुना सात (अधिकार अधिलेख पत्रक)

[महाराष्ट्र अधीन महसूल अधिकार अधिलेख अर्जिनेख अर्जिनेख (नया कारणे व मुम्बिनीन देवणे) नियम, १९७१ चालील नियम १५.१ अर्जिनेख ४]

गाव :- राजगोळी बुद्रुक (568136)

तालुका :- चंद्रगड

जिल्हा :- कोल्हापूर

गट क्रमांक व उपविभाग : 757

अद्यतन दिनांक : 06/05/2022

शेरा, एकक व आकारणी	गटाने क्र.	भोगवटदाराने नाव	क्षेत्र	अकार	पा.श.	फ.पा.	कुळ, मूढ व इतर अधिलेख
सहाय्य एकक	५४१	अजित म्हाळुकर हीरा कानाहीराज इरीया प्रा लि	१.२०.००	०.२४		(१६४६)	कुळ व मूढ व इतर अधिलेख
अ) लागवड लाग्य क्षेत्र	६३०	[५६४४०] - राजगोळी बुद्रुक	४.७०.३०	०.९४		(१६०९)	इतर अधिलेख
भोगवट	१५.३१.००	सुरिगता म्हाळुकर पाटील				(१६०९)	शेरा - राजगोळी बुद्रुक
भोगवट	-	मुनेरा गुरु पाटील				(१६०९)	शेरा - राजगोळी बुद्रुक
एकूण लाग्य क्षेत्र	१५.३१.००	राधेश म्हाळुकर पाटील				(१६०९)	शेरा - राजगोळी बुद्रुक
अ) पोट-भोगवट क्षेत्र		शिवाजी म्हाळुकर पाटील				(१६०९)	शेरा - राजगोळी बुद्रुक
(लागवड अक्षय)		बसवत म्हाळुकर पाटील				(१६०९)	शेरा - राजगोळी बुद्रुक
ग) (अ)	४.३३.००	-----	४.७०.३०	०.९४			३,००,०००/- (७५८)
ग) (ब)		[१०४४०] - राजगोळी बुद्रुक	४.२०.००	०.२४		(१५४९)	जमिनी (७५८)
एकूण पोट क्षेत्र	४.३३.००	शिवाजी म्हाळुकर					
एकूण क्षेत्र (अ + ब)	१९.६४.००	अजित म्हाळुकर पाटील	३.१४.३०	०.६३		(१५५२)	प्रत्येक क्षेत्रात : नाही.
अकारणी	३.०६	[१०६७६] - राजगोळी बुद्रुक	०.०४.००			(१३१२)	संपन्न क्षेत्रात : १६४६ व दिनांक : २९/०४/२०२२
श्री विकासा क्षेत्र	-	अर्चन कल्याण पाटील	१.२७.३०	०.२५		(९२७)	
अकारणी	-	अ.पा.क. कल्याण पाटील				(९२७)	
		श्रीधर राजेश पाटील	१.२७.६०	०.२५		(९२७)	
		अ.पा.क. राजेश पाटील				(९२७)	
		केलन पोद्दीबा पाटील	१.२७.५०	०.२५		(९२७)	
		अ.पा.क. पोद्दीबा पाटील				(९२७)	
		सततम विनायक पाटील	०.८८.००	०.१८		(९४६)	
		[१००९६] - राजगोळी बुद्रुक				(१६४६)	
		अजित कल्याण पाटील	१.५६.००	०.३१		(१५५१)	
		दिनेश चणवत पाटील अ पा क चणवत अकारणी	०.७८.००	०.१६		(१५५२)	
		मणेश चणवत पाटील	०.७८.००	०.१६		(१५५२)	
		-----	१.५६.००	०.३२			

दुसरे परतका क्र. (१) (७५८) (८९५) (९२७) (९४६) (११८३) (११८८) (१३१२) (१४४०) (१५४९) (१५५१) (१५५२)

शेरा आणि भूखण्ड क्रमांक :

खालील नमूद टीप हि गाव नमुना सात बारा चा भाग नाही .

टीप :- या ७/१२ वरील नमूद एकूण क्षेत्रफळ व भोगवटदारांच्या नावासमोर नमूद क्षेत्रफळांची एकूण बेरीज सकतदरमानी मेळत नाही. याबाबत संबंधितानी क्षेत्राची खाली करून पुढील व्यवहार करावा.

गाव नमुना घारा (पिकांची नोंदवही)

[महाराष्ट्र अधीन महसूल अधिकार अधिलेख अर्जिनेख अर्जिनेख (नया कारणे व मुम्बिनीन देवणे) नियम, १९७१ चालील नियम २९]

गाव :- राजगोळी बुद्रुक (568136)

तालुका :- चंद्रगड

जिल्हा :- कोल्हापूर

गट क्रमांक व उपविभाग : 757

वर्ष	हंगाम	खाता क्रमांक	पिकाखालील क्षेत्राचा तपशील									लागवडीसाठी उपलब्ध नसलेली जमीन	जल सिंचनाचा साधन	शेरा	
			मिश्र पिकाखालील क्षेत्र			निर्भळ पिकाखालील क्षेत्र			स्वरूप	क्षेत्र					
			घटक पिके व प्रत्येकखालील क्षेत्र	पिकाचे नाव	जल सिंचित	अजल सिंचित	पिकाचे नाव	जल सिंचित			अजल सिंचित				
(१)	(२)	(३)	*४	*५	*६	(७)	(८)	(९)	(१०)	(११)	(१२)	(१३)	(१४)	(१५)	(१६)
						ह.आर. चौ.शे	ह.आर. चौ.शे		ह.आर. चौ.शे	ह.आर. चौ.शे			ह.आर. चौ.शे		
२०१९-२०	खरीप											पट्ट	१५.३१००		
२०२०-२१	खरीप											रस्तापट	१.००००		
												गळन पट्ट	३.३३००		
												गळन पट्ट	१५.३१००		
२०२१-२२	खरीप											गळन पट्ट	१५.३१००		

टीप : *४ - विक्रयाचा संकेत क्रमांक, *५ - जल सिंचित, *६ - अजल सिंचित

"या प्रमाणित प्रतीसाठी की घडणूक १५/- रुपये मिळाले."
दिनांक :- ०६/०५/२०२२
सांकेतिक क्रमांक :- २७३४००१२०४२९०९००००५२०२२१३

(नाव :- अक्षयकुमार अजित कोटी)
मलाठी साक्षात :- राजगोळी बुद्रुक :- चंद्रगड जि :- कोल्हापूर



तहसिलदार कार्यालय, चंदगड

दिनांक :- ०१/११/२०११

वाचले :-

- १) मा. सहाय्यक संचालक, नगर रचना कोल्हापूर यांचेकडील जा.क्रं. रेखांकन अं.मं/चनहट्टी/ता.चंदगड/ग.नं. ७६ पै/ससं-को/२९७७/दि. २९/९/२०११.
- २) इकडील आदेश क्रं/बिनशेती एसआर /१६/२००६ दि. १२/१०/२००६.

-: अंतिम रेखांकन मंजूरी आदेश :-

मौजे चन्नेहट्टी, ता. चंदगड येथल गट नं. ७६/१ पैकी हे ५२.८० आर क्षेत्राचे औद्योगिक वापराचे सुधारित रेखांकनास अंतिम मंजूरीबाबत मे. हेमरस टेक्नॉलॉजिस लि. चन्नेहट्टी यानी इकडील कार्यलयाकडे प्रस्ताव दाखल केला होता. त्याप्रमाणे इकडील क्रं./जमिन/कावि/३१४/२०११ दि. १३/०७/२०११ ने मा. सहाय्यक संचालक नगररचना कोल्हापूर यांचेकडे अंतिम रेखांकन मंजूरीसाठी सदरचा प्रस्ताव सादर केला होता. त्यास अनुसरून वाचले क्रं. १ नुसार मा. सहा. संचालक नगररचना कोल्हापूर यांनी सदर रेखांकनास अंतिम मंजूरी देणेत आलेबाबत रेखांकन प्रतिसह इकडे कळविले आहे.

वरील वाचले क्रं. १ नुसार मा. सहा. संचालक नगररचना कोल्हापूर यांनी दिले सदर रेखांकनाच्या अंतिम मंजूरी मधील अ.नं. १ ते ११ अटी व शर्ती तसेच खाली नमूद केले अ.नं. १ ते २३ अटीस अधिन राहून महाराष्ट्र जमीन महसूल अधिनियम १९६६ चे कलम ४४ अन्वये प्रधान केले अधिकारास अनुसरून मी तहसिलदार चंदगड सदर अंतिम रेखांकनास मंजूरी देत आहे.

अटी व शर्ती :-

- १) अर्जदार यांनी सदर आदेश मिळाले पासून एक वर्षाच्या आत मंजूर अराखडयाप्रमाणे मुदतीत वापर केला पाहिजे.
- २) रेखांकनातील भुखंडामध्ये फक्त **औद्योगिक** कारणासाठी वापर अनुज्ञेय राहिल अन्य कारणासाठी वापर करणेचा झालेस त्यासाठी इकडील आगावू परवानगी घेतली पाहिजे.
- ३) सदर जमिनीवरील बिनशेती सारा दर चौरस मिटर ०.०५ पै. या प्रमाणे व त्यावरील उपकर येणे आवश्यक आहे.
- ४) रेखांकनातील जागेची मोजणी तालुका निरीक्षक भुमि अभिलेख चंदगड यांचेकडून करून घेणे आवश्यक आहे.
- ५) मोजणी वेळी निदर्शनास आलेल्या क्षेत्रानुसार आकार बदलण्यास पात्र राहिल.
- ६) प्रस्तावित रेखांकनातील रस्ते अस्तित्वात रस्त्याशी तसेच लगतच्या मंजूर रेखांकनातील रस्त्याशी जुळवून घेणे अर्जदार यांचे वर बंधनकारक राहिल.
- ७) रेखांकनातील रस्ते रस्त्याकडेच्या गटारी अर्जदार यांनी स्वखर्चाने योग्य प्रकारे विकसीत करून ती १ रु. नाममात्र किंमतीस स्थानिक ग्रामपंचायत कडे हस्तांतरीत करणे अर्जदारावर बंधनकारक राहिल.
- ८) रेखांकनातील भुखंडामध्ये बांधकाम अथवा विकास करण्यापुर्वी स्थानिक प्राधिकाऱ्यांची मंजूरी घेणे आवश्यक आहे.
- ९) रेखांकनातील कोणत्याही भुखंडाचे पुर्व परवानगी शिवाय विभाजन करता येणार नाही.
- १०) रेखांकनातील रस्ते सार्वजनिक कारणासाठी खुले राहतील.
- ११) विषयांकित जागेच्या मालकी व हद्दी बाबत भविष्यात कांही वाद उत्पन्न झाल्यास त्यास, सर्वस्वी अर्जदार जबाबदार राहिल.
- १२) अर्जदारांनी पुरविलेली कोणतीही माहिती / कागदपत्रे चुकीची अथवा दिशाभूल करणारी आढळल्यास मंजूरीची शिफारस रद्द समजणेत यावी.
- १३) जमिनीचा बिगरशेतीकडे वापर केले पासून शासन /जिल्हाधिकारी यांनी निश्चित केलेल्या दराप्रमाणे अकृषिक सारा व स्थानिक उपकर सरकार जमा करणेचा आहे. हमी मुदती नंतर अकृषिक आकारणी बदलण्यास पात्र राहिल.

- १४) जमिनीचा वापर बिनशेतीकडे चालू केले पासून एक महिनेचे आत तहसिलदार चंदगड व गा. का. तलाठी **मौजे चन्नेहट्टी** ता. चंदगड यांना कळविणे बंधनकारक राहिल. त्यामध्ये कसूर झालेस जमिनीचे वापरात बदल व अकृषिक आकारणी महाराष्ट्र जमिन महसूल अधिनियम १९६६ चे कलम ४६ अन्वये कारवाईस पात्र राहिल.
- १५) अकृषिक सान्याचा दर दिनांक ३१/०७/२०१२ पर्यंत राहिल व त्यानुसार बदलण्यास पात्र राहिल.
- १६) **औद्योगिक** कारणासाठी नियोजित इमारतीची उंची रस्त्याच्या भुपृष्ठभागापासून १३ मिटर पेक्षा जास्त नसावी.
- १७) नियोजित इमारत बांधकामामध्ये कांही फेरफार करणेचे झालेस खात्याची पुर्व परवानगी घेणेची जबाबदारी संबंधिताची राहिल.
- १८) प्रस्तावित जमिनीमध्ये जाणे-येणे साठी जोड रस्त्याची आवश्यकता असेल तर इमारत बांधकाम करणेपूर्वी या खात्याकडे स्वतंत्रपणे अर्ज करून जोड रस्त्यास लेखी परवानगी घ्यावी.
- १९) रेखांकनात मोकळी दाखविलेल्या रस्त्यावर कोणतेही बांधकाम न करता कायम स्वरूपात मोकळी ठेवावी व ते विनामोबदला स्थानिक प्राधिकरणाकडे हस्तांतरण करणेचे आहे.
- २०) मा. सहाय्यक संचालक नगररचना कोल्हापूर यांनी दिलेल्या रेखांकन मंजूरीतील भुखंडा व्यतिरिक्त भूखंडाचे पोट भाग (तुकडे) करण्यास परवानगी देण्यात येणार नाही.
- २१) लगतच्या जमिनीचे रेखांकन जेव्हा तयार करण्यात येईल तेव्हा उपरोक्त रेखांकन (लेआऊट) मधील रस्त्याच्या लगतच्या जमिन मालकाकडून प्रवेश म्हणून वापर करण्यात येईल.
- २२) वरील पैकी कोणत्याही अटीचा संबंधिताकडून भंग झालेस तसेच सदर प्रकरणी हजर केलेले कागदपत्रे खोटी असलेचे निदर्शनास आल्यास बिगरशेतीकडे केलेली शिफारस रद्द करणेचे अधिकार खात्याने राखून ठेवले आहेत.
- २३) सदर रेखांकन मंजूरी आदेश दर दहा वर्षानी बदलास पात्र राहिल.

सदरील बिनशेती आदेशावेळी अस्तित्वात असलेल्या इतर कोणत्याही कायद्यातील योग्य तरतुदी लागू राहतील आणि त्या कायद्यातील बदला नुसार पात्र राहिल. म्हणजेच कु. का. क. १९४८ महाराष्ट्र ग्राम पंचायत कायदा वैगेरेची सर्व कायदे अर्जदार यांना लागू राहतील.



(Signature)
११/१२/१९
तहसिलदार चंदगड

प्रति,

हेमरस टेक्नॉलॉजिस लि. चन्नेहट्टी, ता. चंदगड यांना, मूळ मंजूर अंतिम रेखांकन प्रतिसह रवाना.

प्रत,

- १) उपअधिक्षक भूमिअभिलेख चंदगड यांना पुढील योग्य त्या कार्यवाहीसाठी.
- २) गा. का. तलाठी चन्नेहट्टी यांना पुढील योग्य त्या कार्यवाहीसाठी.

(Signature)
तहसिलदार चंदगड

- Read : 1) Letter outward no. rekhankan a.m./channhatti/tal.chandgad/
g.n.76p/ss-ko/2977 dt. 29/9/2011
2) Our order No. Binseti S.R./16/2006 dt. 12.10.2006

FINAL ORDER FOR SANCTION OF PLANS

A proposal was submitted by Hemarus Technologies Ltd; Rajgoli Khurd, Channehatti, Tal. Chandgad for sanction of layout plans for industrial use of 52.80 hector land out of at G.No. 76/1 and vide our letter jamin/KV/314/2011 dt. 13.7.2011 it was submitted to Director, Town Planning, Kolhaur for final permission. As per the No.1), the Director, Town Planning has informed to give final sanction for the layout plans.

As per No.1) and as per the terms and conditions 1 to 11 as mentioned as under and as per the terms and conditions 1 to 23 of Section 44 of Maharashtra Land Revenue Act 1966, 1, Tehsildar, Chandgad is giving final sanction of the layout plans:

Terms and conditions:

- 1) The applicant has to use the premises within one year as per the sanction layout plan.
- 2) The said land is to be used only for industrial purpose and if it is required for other purpose, prior permission should be taken.
- 3) Land revenue Rs. 0.05 per sq meter and other taxes for the NA land should be paid.
- 4) It is binding on the applicant to survey the land from Inspector, Land Survey Dept, Chandgad.
- 5) The land tax can be changed after the survey of the actual land.
- 6) It is binding on the applicant to take into account the existing roads and nearby proposed roads on the land as per the sanction layout plan.
- 7) It is binding on the applicant to get developed the gutters and open space as mentioned in the plan and transfer it to local Gram Panchyat @ Rs. 1/- nominal charge.
- 8) It is necessary to take permission from the local officials before construction or development as per the layout plan.
- 9) No land of the sanction layout plan is to be divided without taking prior approval.
- 10) The roads and open space mentioned in the layout plan is open for public use.



- 13) The land revenue and local taxes have to be paid as per the rates fixed by the Govt/District Collector for the NA land. The rate for change in NA tax would be applicable afterwards.
- 14) It is **binding** to inform The Talathi/Tehsildar, Chandgad use of NA land within one month from the date of NA filing action would be taken under Section 44 of Land Revenue Act, 1966.
- 15) The rate for land revenue tax for Non-agricultural will be up to 31/7/2012 and it will be eligible to change afterwards.
- 16) The height of the proposed building for the purpose of industrial use, should not be 13 Mtrs. and above.
- 17) If any changes are required to be done in the proposed layout plans, it is necessary to obtain permission from the concerned.
- 18) If connecting roads are required for movement of men and materials, it is necessary to take written prior permission from the concerned departments by separate applications.
- 19) The empty places shown in the sanctioned layout plan is to be kept empty and no construction is to be done on the same and the same should be transferred to the authorities without any amount.
- 20) No divisions or sub divisions should be made of the sanctioned layout plans which has been sanctioned by the Director, Town Planning, Kolhapur.
- 21) When the adjoining land owner go for layout out plans for his land, he will be allowed to use the roads for his entrance.
- 22) If the above terms & conditions violated or if it is found that wrong documents have been submitted then the permission would be cancelled and further rights will be reserved with the department.
- 23) In every 10 years, there will be change in the sanction layout plans.

The existing provisions as and when amended will be applicable under the act of NA order. Therefore, as per the K.K.K. 1948 Act, Maharashtra Gram Panchyat Rules, etc. will also be applicable.

Sd/-
Tehsildar, Chandgad

To,

-Hemant Technologies Ltd

CC : 1) Dy. Suptd. Land Survey Dept. Chandgad - For further necessary action
2) Talathi, Channehatti



ATTESTED

M. S. Patil





सत्यमेव जयते

File No: IA-J-11011/244/2023-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 08/12/2023



To,

Mr Bharat Kundal
M/s. OLAM GLOBAL AGRI COMMODITIES INDIA PRIVATE LIMITED
Gut No. 76, Channehatti, Post: Rajgoli (Kh), Tal.: Chandgad, dist.: Kolhapur, Maharashtra,
Channehatti, Post: Rajgoli (Kh), KOLHAPUR, MAHARASHTRA, 416508
bharat.kundal@olamnet.com

Subject:

Establishment of 300 KLPD Grain based distillery in the existing premises of 4,960 TCD Sugar Factory & 25 MW Co-generation Plant located at: Gat No. 76/1, 76/2/1, 76/2/2, 757, At/Post: Channehatti, Rajgoli (Kh.) Tal: Chandgad, Dist.: Kolhapur, Maharashtra State by M/s. Olam Global Agri Commodities India Pvt. Ltd. – Consideration of Environment Clearance reg.

Sir/Madam,

This is in reference to your application for Grant of EC under the provision of the EIA Notification 2006-regarding in respect of project Establishment of 300 KLPD Grain based Distillery by Olam Global Agri Commodities India Pvt. Ltd (OGACIPL), At/Post: Channehatti, Rajgoli (Kh.) Tal: Chandgad, Dist.: Kolhapur, Maharashtra State submitted to Ministry vide proposal number IA/MH/IND2/434419/2023 dated 26th September, 2023 .

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23C2505MH5700867N
(ii) File No.	IA-J-11011/244/2023-IA-II(I)
(iii) Clearance Type	EC
(iv) Category	B2
(v) Project/Activity Included Schedule No.	5(g) Distilleries
(vi) Sector	Industrial Projects - 2 Establishment of 300 KLPD Grain based Distillery by Olam Global Agri Commodities India Pvt. Ltd (OGACIPL), At/Post: Channehatti, Rajgoli (Kh.) Tal: Chandgad, Dist.: Kolhapur, Maharashtra State
(vii) Name of Project	OLAM GLOBAL AGRI COMMODITIES INDIA PRIVATE LIMITED
(viii) Name of Company/Organization	

(ix) Location of Project (District, State)	KOLHAPUR, MAHARASHTRA
(x) Issuing Authority	MoEF&CC
(xii) Applicability of General Conditions	yes
(xiii) Applicability of Specific Conditions	no

3.The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for establishment of 300 KLPD Grain based distillery in the existing premises of 4,960 TCD Sugar Factory & 25 MW Co-generation Plant located at: Gat No. 76/1, 76/2/1, 76/2/2, 757, At/Post: Channehatti, Rajgoli (Kh.) Tal: Chandgad, Dist.: Kolhapur, Maharashtra State by M/s. Olam Global Agri Commodities India Pvt. Ltd.

4. As per the MoEF&CC Notification S.O. 2339(E), dated 16th June, 2021, a special provision in the EIA Notification, 2006-(Schedule 5 (ga), Category B2) is made, wherein for all applications made for Grain based distilleries with Zero Liquid Discharge producing ethanol; solely to be used for Ethanol Blended Petrol Programme of the Government of India shall be considered under B2 Category and appraised at Central Level by Expert Appraisal Committee (EAC) with condition that the project proponent shall file a notarized affidavit that ethanol produced from proposed project shall be used completely for EBP Programme.

5.The details of products and capacity are placed at **Annexure-II**.

6. Ministry has issued Environmental Clearance for 50 KLPD Molasses Distillery Unit and 25 MW Cogeneration Plant vide File No. F. No. J-11011/412/2006-IA-II (I) dated 06.07.2007. But 50 KLPD Distillery Unit is not implemented on site and same is certified by IRO; Nagpur. Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEF&CC, Nagpur vide File No- EC-2195/RON/2023-NGP/12182 dated 15.09.2023.

There is a non-compliance regarding submission of six monthly compliance report, partial compliance related to spent wash generation and advertisement of existing EC granted in 2007. Further, there is a general observation regarding implementation of green belt development plan & CSR/CER/EMP works with 30% funds. PP has submitted Action Taken report to IRO, MoEF&CC; Nagpur on 16.09.2023 through email informing that industry uploaded six monthly compliances, monitoring reports, on Industry website and copy of advertisements done in 2007 were not traceable. Industry has not complied with spent wash generation and its disposal practice as distillery unit was not established on site. Further, Industry has submitted action plan for densification of greenbelt by February, 2024. EAC found the compliance status satisfactory but warned PP that Industry should ensure that six monthly compliance reports are submitted regularly.

Existing 4,960 TCD Sugar Factory is operational on the basis of Consent to Operate as Environmental Clearance is not applicable since threshold limit for applicability of EC is 5000 TCD. Latest CTO (Air and Water) has been issued on 02.02.2023 and is valid till 31.07.2024. Certified CTO compliance report has been issued dated 12.07.2023 from MPCB; Kolhapur.

7.Standard ToR and Public Hearing is not applicable as the project falls under category B2 as per OM dated 16th June, 2021. It was informed that there is no litigation pending against the project.

8.Total land area required is 55 hectares. Greenbelt will be developed in total area of 25.77 hectares i.e., 47% of total project area. The estimated project cost is Rs. 299.10 Crores. Capital cost of EMP would be Rs. 37.05 Crores and recurring cost for EMP would be Rs. 3.82 Crores per annum. Industry proposes to allocate Rs. 4.5 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 478 persons as direct & indirect.

9.There is no presence of National Parks, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. Suthgatti Reserved Forest is at 0.5 Km; East, Daddi Reserved Forest is at 1.6 Km; North, Chinchani Reserved Forest is at 4.7 Km; East, Managutti Reserved forest is at 5.36 Km; NE, Kataballi Reserved forest is at 5.7 Km; NE, Benkanholli Reserved Forest is at 7.3 Km; NE from project site. Water bodies: Ghatprabha River is at a distance of 1.6 Km from site flows in North direction and Tamraparni River is at a distance of 3.5 Km from site flows in West direction of project site.

10.AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.011 µg/m³, 0.003 µg/m³, 0.92 µg/m³ and 0.055 µg/m³ with respect to PM₁₀, PM_{2.5}, SO₂ and NO_x.

The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

11.Total fresh water requirement will be 831 m³ /day which will be met from Tamraparni River. NOC has been obtained by Kolhapur Irrigation division (South) vide letter no. KOPAVI(D)/Prasha-4/bisin/4758/2018 dated 20.11.2018 and valid for next 6 years. Effluent (Condensate/spent lees/blowdown etc.) of 1882 m³ /day quantity will be treated through Condensate Polishing Unit of capacity 2300 m³ /day. Raw stillage (1545 T/D: quantity of raw spent wash from distillation) will be sent to decanter followed by MEE and dryer to produce DDGS. STP of capacity 70 KLPD will be installed to treat sewage generated from factory premises. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside factory premises.

12.Power requirement will be 6 MW and will be met from existing 25 MW Cogeneration Plant. 60 TPH Bagasse fired boiler will be installed. APCE ESP with a stack height of 75 M will be installed for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm³ or 30 mg/Nm³ for the proposed boiler. Existing 725 kVA (2 Nos.) & 320 KVA DG sets are used as standby during power failure and stack height (14 m) will be provided as per CPCB norms to the proposed DG set.

13.Details of Process emissions generation and its management:

- APCE ESP with a stack height of 75 meters will be installed with the 60TPH boiler for controlling the particulate matter emissions.
- Online Continuous Emission Monitoring System will be installed with the stack and data will be transmitted to CPCB/SPCB servers.
- CO₂ (225 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and it shall be collected in bottling plant.

14.Details of solid waste/Hazardous waste generation and its management:

- DDGS (Distilled Dried Grains Stillage) (250 TPD) will be sold as cattle feed.
- Boiler ash (22 TPD) will be used for proposed brick manufacturing unit.
- CPU sludge (1.8 TPD) and STP sludge (0.06 TPD) will be used as manure.

15. As per Notification S.O 2339(E), dated 16th June,2021, PP has submitted self-certification in the form of notarized affidavit declaring that the proposed capacity of 300 KLPD will be used for manufacturing fuel ethanol only.

16.Total land of 98 Hectares (area in 2007 EC is 98 Ha) is under possession of the company and land use conversion has been completed vide letter no. Binseti/SR/13/2011 dated 01.12.2011. EAC found the information satisfactory.

17.The proposal was considered by the EAC (Meeting ID: EC/AGENDA/EAC/886758/10/2023) held on 30th October, 2023 in the Ministry, wherein the project proponent and the accredited Consultant M/s. Equinox Environments (I) Pvt. Ltd. (NABET certificate no. NABET/EIA/2124/SA 0177 and validity 10.10.2024), presented the case. The Committee **recommended** the project for grant of environmental clearance.

18.The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

19. The Committee noted that the EMP report is in compliance of the PFR. The Committee deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of environmental clearance.

20. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

21. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance for **establishment of 300 KLPD Grain based distillery in the existing premises of 4,960 TCD Sugar Factory & 25 MW Co-generation Plant located at: Gat No. 76/1, 76/2/1, 76/2/2, 757, At/Post: Channehatti, Rajgoli (Kh.) Tal: Chandgad, Dist.: Kolhapur, Maharashtra State by M/s. Olam Global Agri Commodities India Pvt. Ltd**, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions.

22. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

23. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

24. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

25. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

26. This issues with the approval of the competent authority.

Copy To

1. The Secretary, Department of Environment, Government of Maharashtra, Mumbai 400 032
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001 Maharashtra
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai – 22
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi

- 6. The District Collector, District Kolhapur, Maharashtra
- 7. Guard File/Monitoring File/Parivesh portal/Record File

Annexure 1

Specific EC Conditions for (Distilleries)

1. Specific Condition

S. No	EC Conditions
1.1	<p>1.As per the Notification S.O. 2339(E), dated 16th June, 2021, project falls in category B2 and the proposed capacity of 300 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a notarized affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for EBP Programme, or if ethanol is not being produced, or if the said distillery is not fulfilling the requirements based on which the project has been appraised as category B2 project, the EC shall stand cancelled.</p> <p>2.The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented (Annexure –III).</p> <p>3.EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.</p> <p>4.NOC from the Concerned Local authority shall be obtained before start of the construction of plant and drawing water from Surface Water (Tamrapani river). State Pollution Control Board shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent obtains such permission. Ground water shall not be used for plant operations.</p> <p>5.Total Fresh water requirement shall not exceed 831 m³/day which will be met from Tamrapani river. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.</p> <p>6.Spent Wash/stillage shall be sent to the decanter followed by the Multiple Effect Evaporator and dryer to form DDGS. DDGS to be used as cattle feed. The MEE & Drier condensate, spent lees, WTP Rejects, Boiler & Cooling tower blowdowns, washings etc., shall be treated in the ‘Condensate Polishing Unit’ (CPU). STP shall be installed to treat domestic wastewater. The plant will be based on ‘Zero Liquid Discharge’ system and no effluent/treated water will be discharged outside factory premises.</p> <p>7. APCE- ESP with a stack height of 75 m will be installed for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm³ from the proposed 60 TPH Bagasse fired boiler and the existing 110 TPH bagasse fired boiler. Coal shall not be used as fuel in the boiler. At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the</p>

S. No	EC Conditions
	<p>control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.</p> <p>8.Boiler ash (22 TPD) shall be used in proposed brick manufacturing unit. PP shall install 15% of the total power requirement in the form of solar power inside plant premises/adjacent/nearby areas.</p> <p>9.CO₂ (225 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and it shall be sold to authorized vendors/ collected in proposed bottling plant.</p> <p>10. PP shall allocate at least Rs. 1.0 Crore/annum for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.</p> <p>11.Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.</p> <p>12.The unit shall make arrangement for prevention of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms. PESO certificate shall be obtained. Location of ethanol storage tanks shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant i.e. the risk should be tolerable (acceptable) at the boundary.</p> <p>13. Company shall maintain an Emergency Response Decision support system in such a way so that identification of the detector's network for the location of the leak source and the probable leaked quantity in real-time, followed by modelling of the dispersion of the plume and consequences as forecast is done in advance and thus, no leak accident may go unattended. Accordingly, Risk Mitigation plan shall be in place.</p> <p>14.Company shall determine the distance of fire hydrant while finalizing its location from ethanol storage tanks or any other hazardous storage substance shall be based on dispersion of Thermal Radiation so that during any unforeseen situation fire hydrant is always available to operate manually.</p> <p>15.Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.</p> <p>16.The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.</p> <p>17. The existing green belt of at least 5-10 m width developed in 25.77 hectares i.e., 47 % of the total project area shall be densified @ 2500 trees per hectares, mainly along the plant periphery by February, 2024 as committed by the project proponent. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department</p>

S. No	EC Conditions
	<p>and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. No tree shall be cut or translocated for the present plant expansion.</p> <p>18.PP proposed to allocate Rs. 4.5 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan (Annexure –IV). Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.</p> <p>19.There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places. Out of the total project area, 15% shall be allotted solely for parking purposes with facilities like rest rooms etc. PP shall strengthen and maintain the road connecting the plant and the State Highway. The entry and exit to and from the highway shall through slip roads only.</p> <p>20.Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.</p> <p>21.Continuous online (24x7) monitoring system for stack emissions/effluent shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.</p> <p>22.A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. EMC head shall report directly to Head of Organization/ Director/CEO as per company hierarchy.</p> <p>23.PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.</p>

Standard EC Conditions for (Distilleries)

1. General Conditions

S. No	EC Conditions
1.1	<p>No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to</p>

S. No	EC Conditions
	add additional environmental protection measures required, if any.
1.2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.3	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
1.4	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
1.5	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
1.6	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
1.7	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
1.8	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
1.9	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
1.10	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

S. No	EC Conditions
1.11	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

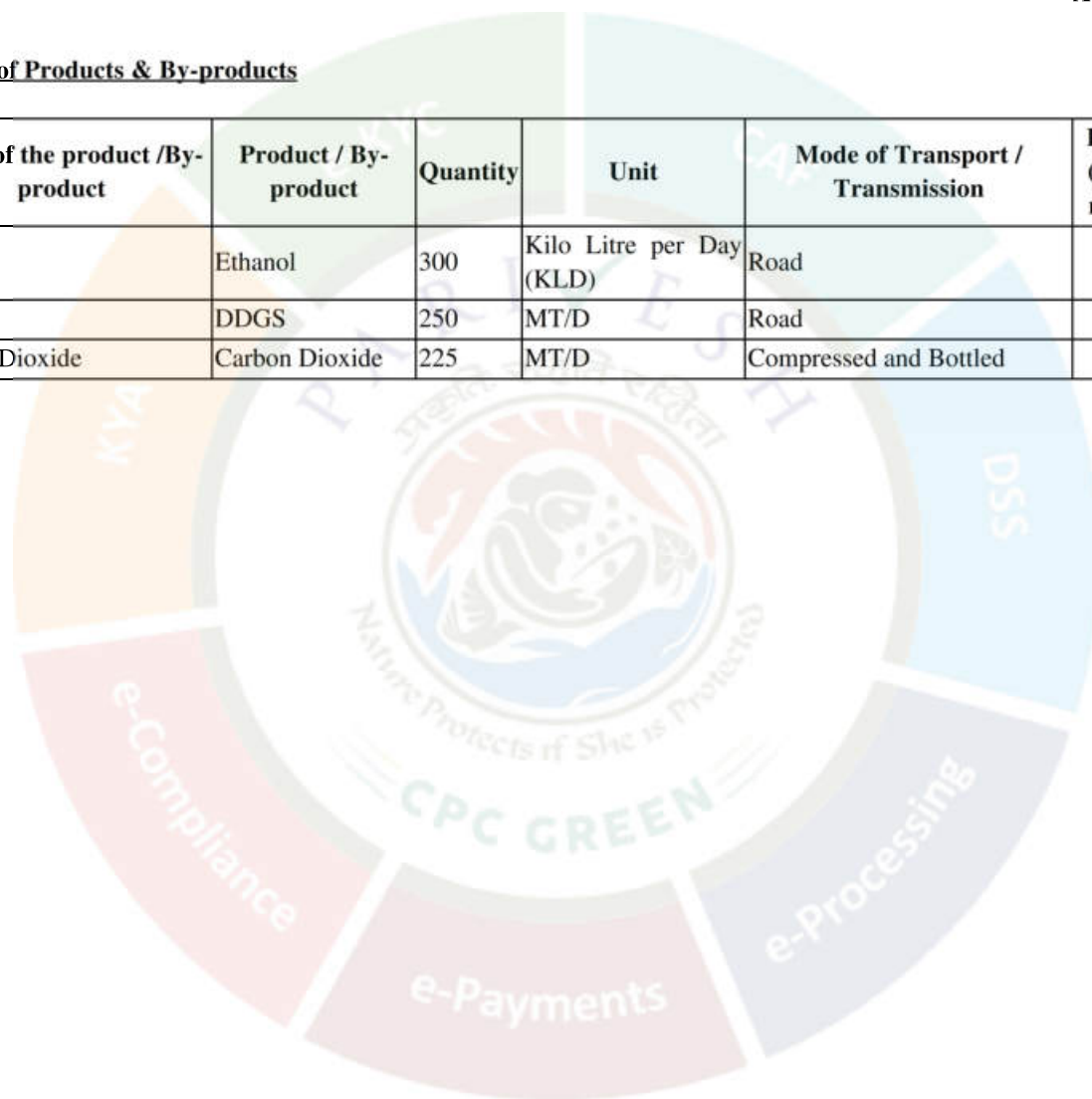
Additional EC Conditions

N/A

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Ethanol	Ethanol	300	Kilo Litre per Day (KLD)	Road	
DDGS	DDGS	250	MT/D	Road	
Carbon Dioxide	Carbon Dioxide	225	MT/D	Compressed and Bottled	



The details of products and capacity as under:

S. No.	Name of unit	Name of the product/by-product	Existing Capacity	Proposed Expansion capacity	Total capacity
1	Distillery	Ethanol	0	300 KLPD	300 KLPD
2	DWGS dryer	DDGS	0	250 TPD	250 TPD
3	Fermentation unit	Carbon di-oxide	0	225 TPD	225 TPD
4	Cane Crushing Unit	Sugar	4960 TPD	0	4960 TPD
5	Cogeneration Power Plant	Power	25 MW	0	25 MW

Annexure –III**Capital cost and recurring cost of EMP are given below:**

No.	Description	Cost Component (Rs. Lakhs)	
		Capital	Annual O & M
1	Air Pollution: APC Equipment's [ESP for boiler – 1 Nos. (Stack height 75 M), OCMS, CO ₂ bottling Plant, Ash Collection system	Rs. 700	Rs. 70
2	Water Pollution: Installation of CPU, Sugar Factory CPU, STP, MEE, OCMS and Dryer for Grain	Rs. 2,500	Rs. 250
3	Noise Pollution Control: PPE (Ear plugs, Ear Muff, Insulations, Barriers)	Rs. 50	Rs. 5
4	Occupational Health & Safety: Annual Health checkup, Occupational health center	Rs. 100	Rs. 20
5	Environmental Monitoring: Solid waste disposal (storage and disposal), Ash & CPU, Yeast Sludge	Rs. 50	Rs. 5
6	Green Belt Augmentation & Rain Water Harvesting Plan	Rs. 150	Rs. 15
7	Afforestation in Parsenahatti village; 1000 Trees X Rs.500/ No.	Rs. 5	Rs. 2
8	Coverage of Bagasse Yard	Rs. 100	Rs. 10
9	Surfacing of Internal Roads to control fugitive dust and Ash Silo	Rs. 50	Rs. 5
	Total; (12% of Capital Investment of Rs. 299.10 Cr.)	Rs. 3,705	Rs. 382

Details of extended EMP (CER) with proposed activities and budgetary allocation:

No	CER Activities	Amount
1	Non-Conventional Energy Promotions (10 Villages: Channehatti, Tiramal, Edalhond, Ganeshwadi, Rajgoli (Kh.), Rajewadi, Parsenahatti, Rajgoli (Bk.), Ninganhatti, Shivapur) : Provision of Solar Street Lights with Gadget – 1 MS Pole, 18-20 W LED Lamp, Battery, Solar Panel, Wiring etc. 10 Villages X 50 Nos./Village = 300 Solar Street Lights X Rs.30,000/- per No. = Rs.90 Lakhs	Rs. 150 Lakhs
2	Solar Photovoltaic System (10 Villages: Ganeshwadi, Rajewadi, Tiramal, Rajgoli (Bk.), Rajgoli (Kh.), Channehatti, Edalhond, Parsenahatti, Ninganhatti, Shivapur) - 150 KW @ Rs. 0.5 Lakh/KW at Grampanchayat / ZP School Building. 150 KW X Rs.50,000/- = Rs. 75 Lakh	Rs. 75 Lakhs
3	Drinking Water Supply Infrastructure (5 Villages: Ganeshwadi, Edalhond, Shivapur, Rajewadi, Channehatti) - Safe Drinking Water Units with Filtration, RO Module & Storage Tank (2 Unit/ Village @ 500 Lit/Hr) – 10 Units X Rs. 3 Lakhs = Rs. 30 Lakhs & maintenance for 3 years @ Rs. 10 Lakhs lump sum. Total – Rs. 40 Lakhs	Rs.40 Lakhs
4	Water Conservation: Promotion & Supply of "Drip Irrigation" system infrastructure to bring 25 Ha of land belonging to farmers under command within 3 years.	Rs. 40 Lakhs
5	Afforestation: (10 Villages: Rajewadi, Channehatti, Ganeshwadi, Rajgoli (Kh.), Rajewadi, Parsenahatti, Rajgoli (Bk.), Ninganhatti, Shivapur, Edalhond): Plantation of Trees in 10 Villages including supplying plants, their cultivation and maintenance for 2 years. 200 Trees / Village X 10 Villages X Rs. 500/ Tree= Rs.100 Lakh & Maintenance @ Rs.12.5 Lakhs/Yr X 2 YR = Rs. 25 Lakhs, Total – Rs.125Lakhs	Rs. 125 Lakhs
6	Educational infrastructure & facilities (4 Villages: Rajgoli (Kh.), Rajgoli (Bk.), Shivapur, Suthgatti): Assistance to local ZP & other school for library, laboratories, computers, digital literacy, wifi & online learning facilities etc.	Rs. 20 Lakhs

No	CER Activities	Amount
	(1.5% of Capital Investment Rs. 299.10 Cr.) Total	Rs.450 Lakhs



Signature Not Verified

Digitally Signed by: Dr Vimal Kumar
Hatwal
Member Secretary, MoEFCC (EC)

Date: 08/12/2023



सत्यमेव जयते

File No:J-11011/412/2006-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 20/11/2023



To,

Sh. Bharat Kundal
Gut No. 76, Channehatti, Post: Rajgoli (Kh), Tal.: Chandgad, dist.: Kolhapur, Maharashtra,
Channehatti, Post: Rajgoli (Kh), KOLHAPUR, MAHARASHTRA, 416508
bharat.kundal@olamnet.com

Subject: 50 KLD molasses based distillery unit along with 25 MW co-generation power plant at Chanatti, Rajgoli Khurd, Chandgad Kolhapur in Maharashtra by M/s. Hemarus Technologies Limited - Transfer of Environment Clearance regarding.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/MH/IND2/446513/2023 dated 30th September, 2023 for grant of transfer of Environmental Clearance (EC) to the project under the provision of para 11 of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A2501MH5115324T
(ii) File No.	J-11011/412/2006-IA II (I)
(iii) Clearance Type	Transfer of EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(g) Distilleries,1(d) Thermal Power Plants
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	50 KLD molasses based distillery unit along with 25 MW co-generation power plant at Chanatti, Rajgoli Khurd, Chandgad Kolhapur in Maharashtra by M/s. Hemarus Technologies Limited
(viii) Name of Company/Organization	
(ix) Location of Project (District, State)	KOLHAPUR, MAHARASHTRA
(x) Issuing Authority	MoEF&CC
(xi) EC Date	06/07/2007
(xiii) Details of Transferee	Gut No. 76, Channehatti, Post: Rajgoli (Kh), Tal.:

Chandgad, dist.: Kolhapur,
Maharashtra, Channehatti, Rajgoli
(Kh.), 480, 27, 416508
Hemarus Technologies Ltd., Gat No.
76, Channehatti, Rajgoli (Kh.), 480, 27, 416508

(xiv) Details of Transferor

3. This has reference to your online proposal vide No. IA/MH/IND2/446513/2023 dated 30th September, 2023 regarding transfer of environmental clearance to the above project, from M/s. Hemarus Technologies Limited to M/s. Olam Global Agri Commodities India Private Limited.

4. Ministry of Environment, Forests and Climate Change issued environmental clearance vide letter No. J-11011/412/2006-IA II (I) dated 06th July, 2007 to M/s. Hemarus Technologies Limited for 50 KLD molasses based distillery unit along with 25 MW co-generation power plant at Chanatti, Rajgoli Khurd, Chandgad Kolhapur in Maharashtra.

5. Now, the name of the company has changed from M/s. Hemarus Technologies Limited to M/s. Olam Global Agri Commodities India Private Limited **with change of ownership**. Registrar of Companies certificate is submitted which mentions CIN number U51229HR2021FTC097076 of M/s. Olam Global Agri Commodities India Private Limited & CIN number U85110AP2006PLC048909 of M/s. Hemarus Technologies Limited respectively.

6. M/s. Olam Global Agri Commodities India Private Limited (Formerly Known as M/s. Hemarus Technologies Limited) has submitted a copy of NOC given by VP & Business head-Sugar (Mr. Bharat Kundal) to transfer the above EC in the name of new company. Copy of undertaking signed by VP & Business head-Sugar (Mr. Bharat Kundal) of M/s. Olam Global Agri Commodities India Private Limited has been submitted to abide by the terms and conditions prescribed in the environmental clearance dated 06th July, 2007.

7. As per the relevant provisions of the EIA Notification, 2006, the environmental clearance for 50 KLD molasses based distillery unit along with 25 MW co-generation power plant at Chanatti, Rajgoli Khurd, Chandgad Kolhapur in Maharashtra granted by this Ministry vide letter No. J-11011/412/2006-IA II (I) dated 06th July, 2007 is hereby transferred from M/s. Hemarus Technologies Limited to M/s. Olam Global Agri Commodities India Private Limited **only for transferring the implemented part within EC validity period i.e. 25 MW Cogeneration Power Plant** on the same terms and conditions under which the prior environmental clearance was initially granted, and for the same validity period.

8. This issues with approval of the competent authority.

Copy To

1. The Secretary, Department of Environment, Government of Maharashtra, Mumbai 400 032
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001 Maharashtra
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai – 22
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. The District Collector, District Kolhapur, Maharashtra
7. Guard File/Monitoring File/Parivesh portal/Record File

Additional EC Conditions

N/A

भारत सरकार

पर्यावरण एवं वन मंत्रालय

GOVERNMENT OF INDIA

MINISTRY OF ENVIRONMENT & FORESTS

File No. J-11011/412/2006-IA II (I)

BY SPEED POST

Telefax: 011-24360488

E-mail: sansomj@gmail.com

sansom_2859@yahoo.co.in

Date: 6th July 2007

To,

Shri Vasu Rao A.N.
Vice President
Hemarus Technologies Limited
Channatti, Rajgoli Khurd
Chandgad, Kohlapur
Maharashtra

Subject: 50 KLD Molasses Based Distillery Unit along with 25 MW Cogeneration Power Plant at Chanatti, Rajgoli Khurd, Chandgad Kolhapur in Maharashtra by M/s Hemarus Technologies Ltd.- Environmental Clearance Regarding.

Sir,

Kindly refer to your application No. HTL/ENVCLR/Ministry of Environment and Forest/2006/11/110 dated 10th November 2006 regarding the subject mentioned above

2. The Ministry of Environment and Forests has examined the proposal. It is noted that the proposal is to set up a new 50 KLD Molasses Based Distillery along with 25 MW Cogeneration Power Plant Unit. The cost of the project is Rs. 86.63 Crores, out of which Rs.12.315 Crores will be earmarked for environmental protection measures. The Distillery will operate only for 240 days per year. The distillery and power plant will be located in the sugar complex for which total land area is 98.00 ha out of which 25.0 ha will be reserved for distillery and 33 ha has been earmarked for green belt development. No ecologically sensitive area exists in 7 km periphery of the project site. The project does not involve any R & R. Distillery will have Semi Continuous Fermentation Process. The project will also have a Bagasse fired Boilers where 900 TPD of Bagasse shall be used as fuel. Power requirement of 1000 KWH would be met from the CPP of Sugar Unit. Water requirement of 2260 KLD would be met from the Tambraparni River. No ground water shall be used. The spent wash generated will be Bio-composted after Biomethanation. Public Hearing of the project was held on 29.09.2006.

3. The project activity is covered in 5 (g) under the EIA Notification, 2006 and is of 'A' category. The project was considered as per EIA Notification, 1994 in accordance with Para 2.2.1 (i) (a) of Interim Operational Guidelines of the Ministry dated 13th October, 2006 as the EIA/EMP were prepared and Public Hearing was already held.

Contd.



जहाँ है हरियाली।

पर्यावरण भवन, सी.जी.ओ. कॉम्प्लेक्स, लोदी रोड, नई दिल्ली - 110 003

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

A. SPECIFIC CONDITIONS:

- (i) Necessary Clearance from National Board for Wildlife or State Chief Wildlife Warden may be obtained if there is any wildlife sanctuary or eco-sensitive zone exists within 10 km radius of the project.
- (ii) The Distillery Unit shall operate only for 240 days and shall not operate during rainy season. Permission from the Ministry may be obtained for any increase in the working days. The unit will not operate during rainy season.
- (iii) Revised Guidelines of 2006 issued by CPCB for Distilleries shall be followed. Wherever the limits are different, as stipulated here, the revised limits of CPCB will prevail.
- (iv) The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- (v) For control of air emissions from 80 TPH and 110 TPH boilers, Electrostatic Precipitator of efficiency 99.998% would be installed to limit the particulate emissions within permissible limits. Boilers would be provided with stacks of 65 m and 71.0 m height for dispersion of particulates.
- (vi) Noise levels will be limited within 60 - 65 dBA.
- (vii) The company shall adopt Semi Continuous Fermentation Technology. Spent wash generation and domestic effluent generation shall not exceed 445 m³/d and 22.0 respectively. For treatment of spent wash the unit shall adopt Bio-methanation followed by Bio- Composting. It will be ensured that the spent wash generation shall not exceed 9 KI/KI of alcohol produced. Press mud requirement will be 35,600 MTA and will be available from their Sugar Unit of 3,500 TCD. Spent lees and other water discharges will be treated in the ETP. Requirement of Press mud will be 26900 MTA and compost produced will be 26000 MTA. 3600 MT of Boiler Ash and Bagacillo will be used for complete composting.

Contd.



There will be no discharge of wastewater from the distillery and zero discharge shall be strictly followed. Also separate Effluent treatment plant should be provided for the treatment of 326 m³/d effluent generating from 25 MW Power Plant. The capacity of Lagoon will be for 30 days storage as per CPCB Guidelines.

- (viii) Land and other requirements for treatment of spent wash with press mud shall be as per the CPCB guidelines. The company shall earmark an area of 20 Acres for bio-composting, storage of finished products etc. The compost yard shall be made impervious as per the CPCB guidelines.
- (ix) Water requirement shall not exceed 1170 KLD which will be met from the Tambraparni River. A copy of the water withdrawal permission shall be submitted to the Ministry.
- (x) The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. Storage shall be as per the revised guidelines of CPCB.
- (xi) Adequate numbers of ground water quality monitoring stations shall be set up around the compost plant and the project area. These monitoring stations will be provided with piezometers. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The company shall carry out regular analysis of compost, leachate for BOD and pH.
 - (i) Fly ash generated from 25 MW power plant shall be utilized as per guidelines issued by Ministry of Environment & Forests.
 - (ii) 33 Ha of land area will be developed as green belt all around the plant and compost yard to mitigate the effects of fugitive emissions. The green belt will be as per the CPCB guidelines in consultation with the local DFO.
 - (iii) Company shall adopt rainwater-harvesting measures to recharge the ground water.
 - (iv) Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health center shall be strengthened and the medical records of each employee shall be maintained separately.

B. GENERAL CONDITIONS:

- (i) No further expansion or modifications in the plant shall be carried out

Contd.



without prior approval of the Ministry of Environment and Forests.

- (ii) Ambient Air Quality Monitoring Stations shall be set up in consultation with the State Pollution Control Board in the down wind direction as well as where maximum ground level concentration of SPM, SO₂, NO_x and RSPM are anticipated. RSPM will also be monitored regularly.
- (iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA /EMP report.
- (v) A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
- (vi) The project authorities shall provide funds of Rs. 12.315 Crores as capital cost for the environment protection measures. Separate funds for recurring expenditure to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government shall be kept. Also, the implementation schedule for all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose.
- (vii) The implementation of the project vis-à-vis environmental action plans will be monitored by the concerned Regional Office of the Ministry /State Pollution Control Board/Central Pollution Control Board. A six monthly compliance status report along with the monitored data shall be submitted to the monitoring agencies and shall be posted on the Website of the Proponent.
- (viii) The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.

Contd.



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

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

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

7. The above conditions will be enforced along with the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules hereunder.


(Sanchita Jindal)
Additional Director

Copy to:

1. The Secretary, Department of Environment & Energy, Government of Maharashtra, Room No. 403, 4th Floor, Mantralaya, Mumbai-400 032, Maharashtra.
2. Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal : 462 016, Madhya Pradesh.
3. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th Floor, Matunga Scheme Road, Road No. 6, Opp. Cine Planet, Circle Sion (E), Mumbai -400022, Maharashtra.
5. JS (CCI-I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi - 110003.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
7. Guard File/Monitoring File/Record File

(Sanchita Jindal)
Additional Director

MAHARASHTRA POLLUTION CONTROL BOARD

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



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

RED/L.S.I (R60)
No:- Format1.0/CAC/UAN No.MPCB-
CONSENT-0000174836/CE/2311000375

Date: 05/11/2023

To,
M/s. Olam Global Agri Commodities India Pvt Ltd
Gat No. 76/1, 76/2/1, 76/2/2, 757 ,At/Po.: Channehatti,
Village: Rajgoli (Kh), Tal.: Chandgad, Dist.: Kolhapur,



Sub: Consent to Establish for Grain base distillery of capacity 300 KLPD

Ref: 1. Existing Renewal Sugar - Format1.0/CAC/UAN No.MPCB-
CONSENT-0000140108/CR-2302000106 dtd. 02.02.2023 valid up to
31.07.2024
2. Minutes of CAC Meeting dtd. 26.09.2023.

Your application No.MPCB-CONSENT-0000174836 Dated 27.06.2023

For: Consent to Establish 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 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent to establish is granted for a period up to commissioning of the unit or up to 5 year whichever is earlier.**
- The capital investment of the project is Rs.299.1 Crs. (As per C.A Certificate submitted by industry)**
- Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Ethanol	300	KL/D
2	DDGS	250	MT/Day
3	CO2	225	MT/Day

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

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	866	As per Schedule-I	MEE & Dryer to achieve ZLD
		1882	As per Schedule-I	CPU & recycled

Sr No	Description	Permitted	Standards to	Disposal
2.	Domestic effluent	12	As per Schedule-I	On land for irrigation.

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

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	1	Boiler (60 TPH)	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	CPU Sludge	54	MT/M	--	Use as manure
2	Boiler Ash	660	MT/M	--	Used as Manure / Sold to brick manufacturer.

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for Collection, Segregation, Storage, Transportation, Treatment and Disposal of hazardous waste:**

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
NA					

8. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
10. 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- 19/08/2010, fencing of the site to protect it from getting encroached and construction of temporary shed(s) for the guard(s) & acquisition of land not be treated as an effective step.
11. This consent is issued pursuant to the decision of the Consent Appraisal Committee Meeting held on 26.09.2023.
12. Industry shall install online continuous monitoring system as per CPCB guidelines & data to be transmitted directly from Data Logger to Board server .
13. Industry shall submit BG of Rs. 25 lakh towards compliance of consent & EC conditions
14. The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/Activity. (Establish)



Avinash
29.

e56484e2
9d38d5bb
6e9f3c58
f13e13b7
89503086
62ff5543
93e56d8c
2157ca6e

Signed by: **Dr. Avinash Dhakne**
Member Secretary
For and on behalf of,
Maharashtra Pollution Control Board
ms@mpcb.gov.in
2023-11-05 12:24:44 IST

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	598200.00	MPCB-DR-19958	30/06/2023	RTGS

Copy to:

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



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. Conditions for Trade effluent:

- A] As per your application, you have proposed to provide MEE & Dryer for process effluent and CPU for treatment of condensate, spent lees, boiler blow down etc. the treated effluent is recycled in process to achieve ZLD.
- B] Industry shall provide CPU for recycle/reuse of treated effluent.
- C] Zero Liquid discharge shall be ensured, and no wastewater/treated water shall be discharged outside the premises.
- D] Industry shall install Continuous Emission Monitoring System (OCEMS) before 1st Operate and shall transmit Online Continuous Emission Monitoring System (OCEMS) data to Board's Server directly from data logger without any intermediate server.

2. Conditions for Sewage/ Domestic effluent:

- i. You shall provide sewage treatment plant for the treatment of 12 CMD sewage generation due to expansion and provide including disinfection facility.
- ii. The industry shall operate sewage treatment system to treat the sewage/ domestic effluent so as to achieve the standards as prescribed by the board/under EP Act, 1986 and rules made thereunder from time to time whichever is stringent.

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

- iii. Treated sewage shall be used on land for gardening/ irrigation by achieving above prescribed standards.
3. The industry shall have bilateral agreement with farmers on whose land the treated effluent is used for irrigation purposes and copy of the agreements with validity shall be submitted to the Regional/Sub-Regional office of the board.
5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	1080.00
2.	Domestic purpose	15.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	1800.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0

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

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

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

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO ₂
1	Boiler (60 TPH)	ESP	60	Bagasse	30000 Kg/Hr	0.04	360.00

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

Particulate matter	Not to exceed	150 mg/Nm ³
--------------------	---------------	------------------------

6. Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
7. The industry shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office MPCB.
8. 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).
9. Industry shall provide Online Continuous Emission Monitoring System (OCEMS) i.e. flow meter and night vision camera to ensure the Zero Liquid Discharge (ZLD) of spent wash and OCEMS for Boiler stack for PM parameter.

SCHEDULE-III

Details of Bank Guarantees:

Sr. No.	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to E	25 lakh	Submit in 15 days	For compliance of consent & EC conditions	COU	up to 1st operate

BG Forfeiture History

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

BG Return details

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

SCHEDULE-IV

General Conditions:

1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
7. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding upon you.

8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
11. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. You shall operate OCEMS installed for source emission round 'O' clock and transmit data online to CPCB and MPCB server. You shall also monitor effluent quality, stack emissions and ambient air quality monthly/quarterly. You shall conduct Dioxin Furan monitoring by third party NABL Accredited agency once in year and submit report to Sub Regional Officer.
14. You shall ensure collection, and segregation of BMW regularly to treat and dispose Off within 48 hrs from generation.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. You shall not Rent, Lend, Sell, Transfer or Close Down the facility or otherwise transport the Bio Medical waste for any other purpose without obtaining prior written permission of the MPC Board.
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.

23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. You shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the facility premises.
25. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
26. The 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
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. You should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly. You shall conduct Dioxin Furan monitoring by third party NABL Accredited agency once in every year and submit report to Sub Regional Officer.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
34. You shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or 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.

35. You 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).
36. You shall create the Environmental Cell by appointing an Environmental Engineer and Chemist for looking after day-to-day activities related to compliance of CCA.
37. You should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 , Bio Medical Waste Management Rules,2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year in Form-IV by 30th June of every year
38. You should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 , Bio Medical Waste Management Rules,2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year in Form-IV by 30th June of every year

This certificate is digitally & electronically signed.



MAHARASHTRA POLLUTION CONTROL BOARD

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



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

No:- Format1.0/CAC/UAN No.MPCB-
CONSENT-0000140108/CR/2302000106

Date: 02/02/2023

To,
M/s. Olam Global Agri Commodities India Pvt. Ltd.,
(Previously known as Olam Agro India Pvt Ltd.,)
Gut No.76, Chennetti, Village Rajgoli Khurd.,
Tal. Chandgad, Dist. Kolhapur.



Your Service is Our Duty

Sub: Renewal of Consent for 4960 TCD sugar unit & 25 MW Co-generation unit.

Ref: 1. Renewal of Consent granted by the Board vide No. Format 1.0 CAC/UAN No. MPCB-CONSENT-0000092670/CR-2012001338, dated 30.12.2020, valid up to 31/07/2022.
2. Minutes of CAC Meeting dtd. 30.08.2022.

Your application No.MPCB-CONSENT-0000140108 Dated 04.07.2022

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

- The Consent to Renewal is granted upto: 31.07.2024**
- The capital investment of the industry is Rs. 372.89 Crs. (As per C.A Certificate submitted by industry).**
- Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
1	Sugar	19433	MT/M
2	Bagasse	46080	MT/M
3	Pressmud	5007	MT/M
4	Molasses	6857	MT/M
5	Electric Power (Co-generation)	25	MW

- (The cane crushing capacity of Sugar Industry shall not exceed 4960 TCD.)**
- Conditions under Water (P&CP) Act, 1974 for discharge of effluent:**

Sr No	Description	Permitted in CMD	Standards to	Disposal
1.	Trade effluent	871	As per Schedule -I	392 CMD recycle & 479 CMD on land for irrigation.
2.	Domestic effluent	119	As per Schedule - I	



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

Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	Boiler (110 TPH)	1	As per Schedule -II
2	D. G Set (725 KVA X 2)	1	As per Schedule -II
3	D.G. Set (320 KVA)	1	As per Schedule -II

6. **Conditions about Non Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Metal,Wood,Paper,Scrap	25	MT/A	NA	Sale/Reuse/Recycle
2	Fly Ash	2116	MT/M	NA	Sale
3	ETP Sludge	0.50	MT/M	NA	Manure

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2008 for treatment and disposal of hazardous waste:**

Sr No	Type of Waste	HW Category.	Quantity & UoM	Treatment	Disposal
1	5.1 Used or spent oil	5.1	6 MT/A	Recycle	Sale to Authorized recycler.

The applicant shall ensure disposal to the Actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.

a. The applicant shall properly collect, transport & regularly dispose of the hazardous waste to CHWTSDF, in compliance of the Hazardous & Other Wastes (Management & Transboundry Movement) Rules, 2016 and keep proper manifest thereof.

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 connect online CMS data as per CPCB guidelines to CPCB & MPCB Servers.
11. Industry shall install CPU within period of 6 Months.
12. This consent is issued as per the Consent Appraisal Committee meeting dated 30.08.2022.
13. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.

This consent is issued as per communication letter dated 03/11/2022 which is approved by competent authority of the board.

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	846600.00	MPCB-DR-12561	04/07/2022	NEFT
2	644960.00	MPCB-DR-16859	23/01/2023	RTGS

Copy to:

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



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have Provided Effluent Treatment Plant (ETP) consisting of Primary, Secondary, Tertiary for the treatment of industrial effluent.
- B] Industry shall provide CPU for recycle/reuse of treated effluent.
- C] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr. No.	Parameters	Limiting concentration not to exceed in mg/l, except for pH
(1)	pH	5.5-9.0
(2)	Oil & Grease	10
(3)	BOD (3 days 27 ^o C)	100
(4)	Sulphate	1000
(5)	Suspended Solids	100
(6)	COD	250
(7)	Chloride	600
(8)	Total Dissolved Solids	2100

- D] The treated effluent 479.00 CMD shall be disposed on land for irrigation on 31.00 hectares of own land /as per the bilateral agreement with farmers. In no any case treated/untreated effluent shall find its way outside the factory premises directly or indirectly.
- E] Industry shall operate Online Continuous Emission Monitoring System (OCEMS) and shall transmit Online Continuous Emission Monitoring System (OCEMS) data to Board's server directly through the data logger without any intermediate server.
- F] Trade effluent of 392.00 CMD generated from Co-gen shall be 100% recycle in process.
- G] CREP conditions for Sugar Factory
- i. Operation of ETP shall be started at least one month before starting of cane crushing to achieve desired MLSS. So as to meet prescribed standards from day one the operation of mill.
 - ii. Waste water generation shall be reduced to 100 liters per tone of cane crushed.
 - iii. Industry shall achieve zero discharge into in land surface water bodies.
 - iv. 15 days' storage capacity tank shall be provided for treated effluent to take care during no demand for irrigation.
- H] Industry to make necessary arrangement to cover the effluent collection system and to avoid the ingress of Bagasse and other material.

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

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

2) **A] As per your application, you have provided septic tank and soak pit for the treatment of 119.00 CMD sewage.**

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

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

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

3) The industry shall have bilateral agreement with the farmers on whose land the treated effluent is used for irrigation purposes and a copy of the agreements with validity shall be submitted to the Regional/Sub- Regional Office of the Board.

4) The industry shall create Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.

5) **CONDITIONS FOR MOLASSES STORAGE:**

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

(ii) The capacity of tanks for storage of molasses shall be such that it will take care of bumper production of sugar, non-lifting of molasses etc.

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

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

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

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

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

- 7) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
- 8) 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.
- 9) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters, and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	1672.00
2.	Domestic purpose	202.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	852.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Grandening	0

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

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

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

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO₂
1	Boiler	ESP	71	Bagasse or Coal 500 MT/Day	1176 MT/Day	0.20	4704.00
2	D. G Set (725 KVA X 2)	Acoustic Enclosure	6	HSD	150 Lit/Day	1.00	3.00
3	D.G. Set (320 KVA)	Accoustic Enclosure	6	HSD	50 Lit/Day	1.00	1.00

- 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.**

1 The Applicant shall provide ESP/ Bag filter/ Wet scrubber to the Bagasse fired boiler and Dust Collector to Sugar bagging section as an Air Pollution control equipments OR as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.

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

Total Particulate matter	Not to exceed	150 mg/Nm ³
--------------------------	---------------	------------------------

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

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

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

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

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

SCHEDULE-III

Details of Bank Guarantees:

Sr. No.	Consent(C2E/C20/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	25 Lakh	15 Days/ Extend	Towards compliance of Consent conditions & O & M of PCS.	31.07.2024	28.02.2025

BG Forfeiture History

Srno.	Consent (C2E/C20/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

SCHEDULE-IV

General Conditions:

- 1 The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2 The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

- 3 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 equipment, the production process connected to it shall be stopped.
- 4 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.
- 5 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.
- 6 The industry should comply with the Hazardous & Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous & Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 7 An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 8 The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 9 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.
- 10 The applicant shall bring minimum 33% of the available open land under green coverage/plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
- 11 The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 12 Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 13 The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the H&OW(M&TM) Rules 2016, which can be recycled/processed/ reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/ reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 14 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).
- 15 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.
- 16 Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
17. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.

- b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
- f) D.G. Set shall be operated only in case of power failure.
- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
- 18 The industry should not cause any nuisance in surrounding area.
- 19 The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 20 The applicant shall maintain good housekeeping.
- 21 The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 22 The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipment provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23 The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 24 The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

This certificate is digitally & electronically signed.

Appendix E - Water Lifting Permission

EXECUTIVE ENGINEER, KOLHAPUR IRRIGATION DIVISION (SOUTH)
Sinchan Bhavan, Tarabai Park, Kolhapur-416503.
Land line no:0231-2650263 E-mail: eekidsouthklp@gmail.com

Out ward no. KOPAVI(D)/Prasha 4/b sin/4758/2018

Date: 20/1/2018

To,
Vice President
Olam Agro India Pvt Ltd
C/o- Hematus Technologies Ltd, Channehatti
Rajgoli Khurd, Tal Chandgad, Dist. Kolhapur

Sub - Reservation of water quota for 2018 to 2024 period for non-irrigation

Ref - 1) Letter dt 4/10/2015 of Chief Engineer, Water Resources Dept, Pune

2) Your letter dt 14/7/2018

3) Letter of Dy Divisional Officer, Chandgad Irrigation Sub Div. dt 16/10/2018

With reference to the above, a permission has been given to the factory of Olam Agro India Pvt Ltd; Rajgoli Khurd, Tal-Chandgad for drawing water of 0.9504 million cubic meter for industrial purpose and 0.0744 million cubic meter for drinking purpose, total 1.0248 million cubic meter from Kamedadi weir of Tamraparni River through Janghatti Medium Water Project, as per the letter referred 1 as above

The earlier agreement for utilization of 1.0248 million cubic meter water has been expired on 31/10/2018 and therefore a new agreement for 6 years (2018 to 2024) is being sent herewith duly stamped and signed

The validity of the agreement will be from 1/11/2018 to 30/6/2014 which please be noted and terms and conditions mentioned therein may be strictly implemented.

Signature
Dy Executive Engineer
Kolhapur Irrigation Division (South)
Kolhapur

Encl- Agreement 1 copy

CC - Dy Divisional Officer, Chandgad Irrigation Sub Division

CC - Irrigation Branch, Regional Office



TRUE COPY
V. N. PATIL
Advocate and Notary
Govt. of India, Regd. No. 15650
R/o: "SAVALI" Nittur
Chandgad, Dist. Kolhapur-416508

कार्यकारी अभियंता, कोल्हापूर पाटबंधारे विभाग (दक्षिण),
सिंचन भवन, ताराबाई पार्क, कोल्हापूर-४१६००३
☎ ०२३१-२६५०२६३ E-mail : eekidsouthklp@gmail.com

जा.क्र.कोपावि(द)/प्रशा-४/बिसि/ ४७५८/२०१८

दि. २०/११/२०१८

प्रति,

व्हाईस प्रेसिडेंट,
ओलम अॅग्रो इंडिया प्रायव्हेट लि.,
द्वारा- हेमरस टेक्नॉलॉजी लि. चनेहट्टी,
राजगोळी खुर्द ता. चंदगड, जि.कोल्हापूर.

विषय:- सन २०१८-१९ या वर्षाकरीता बिगर सिंचन पाण्याचा कोटा आरक्षित करणेबाबत.
संदर्भ:- १) मा. मुख्य अभियंता, जलसंपदा विभाग, पुणे यांचे पत्र जा.क्र. मुअ/काअ-२/
मुदका/७१७१/६७१२ दि. ०४/१०/२००५
२) आपले कार्या. पत्र ओलम अॅग्रो/ पाणी परवाना/१३८ दि. १४/०७/२०१८
३) उपविभागीय अधिकारी, चंदगड पाटबंधारे उपविभाग, चंदगड यांचे पत्र जा.क्र.
चंपाउविचं/ वि सिं /८५९ दि. १६/१०/२०१८

उपरोक्त विषयास अनुसरून जंगमहट्टी मध्यम प्रकल्पांतर्गत ताम्रपर्णी नदीतून कामेवाडी को प बंधा-यामधून ओलम अॅग्रो इंडिया प्रायव्हेट लि., राजगोळी खुर्द ता. चंदगड, जि. कोल्हापूर कारखान्यास औद्योगिक पाणी वापरासाठी ०.९५०४ द.ल.घ.मी. व पिण्यासाठी ०.०७४४ द.ल.घ.मी. अशा एकूण १.०२४८ द.ल.घ.मी. पाणी आरक्षणास प्रदेश कार्यालयाचे संदर्भ १ अन्वये कायमस्वरूपी पाणी घेणेस मान्यता देणेत आली आहे.

वरीलप्रमाणे १.०२४८ द.ल.घ.मी. पाणी वापरासाठी या पूर्वीच्या कराराची मुदत दि. ३१/१०/२०१८ अखेर संपलेने सदर करारनाम्याचे पुढील सहा वर्षाकरीता (सन २०१८ ते २०२४) करारनामा साक्षांकित करून एक प्रत सोबत पाठवणेत येत आहे.

सदर करारनाम्याची मुदत दि. १/११/२०१८ ते ३०/६/२०२४ अखेर राहिल याची कृपया नोंद घ्यावी. करारनाम्यात नमूद केलेल्या अटी व शर्ती यांची काटेकोर अंमलबजावणी करणेत यावी.

स्थळ प्रत का.अ.यांना मान्य.
सोबत- करारनामा - १ प्रत.

roukyache
उप कार्यकारी अभियंता,
कोल्हापूर पाटबंधारे विभाग (दक्षिण),
कोल्हापूर.

प्रत:- उपविभागीय अधिकारी, चंदगड पाटबंधारे उपविभाग, चंदगड यांना माहितीसाठी व कार्यवाहीसाठी
प्रत:- सिंचन शाखा, विभागीय कार्यालय.



महाराष्ट्र MAHARASHTRA

2017

AE 260361



मुद्रांक विक्रेत्याचे नाव : महादेव धोंडीबा भोसले
 (अवकाशाचा पत्ता) - घर नं. ६१९ चंद्रगड
 आसपासीय परवाना नं. : २६०५००९
 मुद्रांक विक्री क्रमांक : १५८६ दिनांक : ३०/१०/१८
 कारण : अग्रिम
 मुद्रांक विकत घेणाऱ्याचे नाव : _____

Sub Office Treasury Chandgad
 30 OCT 2018
 Sub Treasury Officer Chandgad

रक्कम रूपये :- ५००/-
 मुद्रांक विक्रेत्याची सही :-
 मुद्रांक विकत घेणाऱ्याची सही :-



APPLICABLE TO Private Bodies only)

AGREEMENT (For non-Irrigation water Supply)

An agreement made on the 1 day of October Two Thousand Eighteen between OLAM AGRO INDIA PRIVATE LIMITED the users such as Private Company (Which expression herein – after referred to as “The Company”, shall, unless excluded by or it be repugnant to the context or meaning there of be deemed to include its successors and assigns) registered under the Indian Companies Act 1913 (VII of 1913) the companies Act 1956 (I of 1956) and having its registered office at Ground Floor, Building No.8, Tower A, DLF Cyber City, Phase II , Gurgaon 122002, Haryana. Here in after referred to as “The Company” of the one part and the Governor of Maharashtra here in after referred to as “The Government” (which shall, unless exclude its successors and assigns) of the other part.

For OLAM AGRO INDIA PVT. LTD.

BHARAT KUNDAL
 VICE PRESIDENT



महाराष्ट्र MAHARASHTRA

2017

AE 260360

मुद्रांक विक्रेत्याचे नांव : महादेव घोडीया भोसले

वसत्यादाता पत्ता : नगर नं. ६११ चंदगड

कार्यक्रमाचा पत्रव्यवस्था नं. : २६०५००९

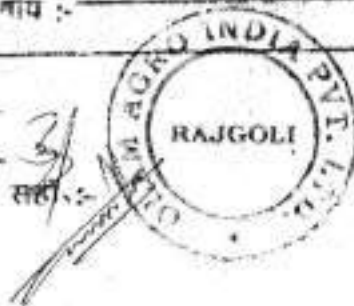
मुद्रांक विक्री क्रमांक : १५२६ दिनांक : २७/७/१७

कारण : इंधन

मुद्रांक विक्रीत रजनाव्याचे नांव : _____



रक्कम रुपये : ५००/-
 मुद्रांक विक्रेत्याची सही : _____
 मुद्रांक विक्रीत घेणा-याची सही : _____



Whereas the Company has constructed a pumping station on the company's land at Gat No.76, Channehatti, Po.:Rajgoli (KH). Tal: Chandgad, Dist: Kolhapur-416503 for drawing water from the source Tamraparni River (hereinafter referred to as "The Said Source") for the use by the Company's Sugar, Co-Generation, Distillery Plant (here in after referred to as "the Said Plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

For OLAM AGRO INDIA PVT. LTD.

BNARAT KUNDAL
 VICE PRESIDENT

AND where as the company has applied to the Government for permission to draw 1.0248 M. Cu.M. of water per year from said source.

AND whereas the company has paid Rs. ---- to the Government towards the proportional cost of capital outlay of the project.

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

AND WHEREAS UNDER the said terms and conditions the company has deposited with the Executive Engineer Kolhapur Division to the Government a sum of Rs.15,50,892/- (Industrial and domestic use) **as security equivalent to 2 months company's probable annual water charges based on yearly sanctioned and as communicated** in cash or in form of fixed deposit receipt or a bank guarantee issued by a scheduled/ nationalized bank having its main branch office situated locally for the due observance and performance by the company of the terms and conditions of this agreement AND WHEREAS the company has accordingly prior to the execution of these project deposited with the Government Rs. ---- as security for the due observance and performance by the company of the terms and condition herein contained AND WHEREAS it has been agreed that the said amount will not carry any interest if deposited in cash.

Definition:

Quota: Quota means yearly demand sectioned and communicated to Olam Agro India Pvt. Ltd. by the Executive Engineer.

Corporation:

Corporation means the River basin corporation like Maharashtra Krishna Valley Development Corporation (MKVDC), Godavari Marathwada Irrigation Development Corporation (GMIDC), Tapi Irrigation Development Corporation (TIDC), Konkan Irrigation Development Corporation (KIDC) and Vidharba Irrigation Development (VIDC) Municipal Corporation Municipalities etc.

MIDC: MIDC means Maharashtra Industrial Development Corporation.

MJP: MJP means Maharashtra Jeevan Pradhikaran.

Yearly Applicable Demand: Yearly Applicable Demand means the water demand communicated by the USER for the period from 1st July to 30th June to the Executive Engineer and sanctioned by Irrigation department every year in the month of September along with its bifurcation for Industrial, Domestic and Agricultural use.



USER: User means water using agency like individual companies User / Industry, Entrepreneur.

NOW THIS AGREEMENT WITNESETH AS FOLLOWS:

- 1) a) In consideration of the company making payment to the Government as hereinafter specified and observing and performing the connivance and conditions herein contained Government do here by grants to the company permission to draw the following quota of water for the specified purpose.

Sr. No.	Description / Use	Quantity (Mcum) per year
1.	Total sanctioned quota	1.0248
1.1	For Industry using potable water bottling plant	--
1.2	For other than water as raw material Industrial use	0.9504
1.3	For Domestic use.	0.0744
1.4	For Agriculturist use (nursery/gardening) within the company's premises)	--

And use the same for the purpose of the company's said plant or project for supply to residential colonies and for agricultural use (nursery/ gardening) for a term of one years commencing from 1st day of November 2018 on the following terms conditions.

(b) The quota assigned for domestic use and for agricultural use shall not exceed 110% each of the individual water demand. In the case wherein the water used for domestic and agricultural use exceeds 10% in each case the excess use shall be charged at industrial applicable rate specified in clause 11 of this agreement.

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



- 2) The permission hereby granted shall be subject to the provisions of the Maharashtra Irrigation Act 1976 and the Bombay Canal Rules 1934 and subsequent revision, if any, in force and any executive orders issued in this behalf by Government and any statutory amendment thereof from time to time and for the time being in force.
- 3) Nothing herein contained shall be deemed to imply any guarantee on Part of the Government as to the availability or otherwise of any specific quantity of water and Government shall not be responsible for the non-supply or in adequate supply of water on any account whatsoever.
However in case of inadequate or **non-supply due to shortage of water or reason beyond the control of the department**, bill shall be charges as per actual of water lifted / supplied during such period.
- 4) The company shall use the water drawn from the said river for purposes of the company's said plant and for supply to the residential colonies constructed by the company within the area of the said plant for providing housing to its employees and workers (hereinafter referred to as "the said residential colonies"). The company shall not sell the water from the said river to any other person, firm or company, corporation or other body. In the event of the company selling water drawn from the said river then the Government without prejudice to its right will forth with revoke the license. Government shall be entitled to recover from the company the proceeds of any such sale made by the company.
- 5) Government shall be entitled to utilize water of the said river available after meeting the reasonable requirements of the company as to each matter the decision of the Government shall be final and binding on the company, for such purpose as Government deems fit.
- 6) The permission here by granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners nor shall it in any way, prejudice Government right to hereafter launch or implement in public interest any new scheme or schemes on its own subject however to the safeguarding of its reasonable demand referred to in clause (5) above.



7) The company shall not construct the pickup weir in the Tamraparni river bed of the said river unless the proposals, plans, drawing, specifications, estimates and all other details thereof or previously submitted to and approved in writing by an officer authorized in that behalf by the Government and while granting its approval to the construction of the pickup weir Government may impose such conditions as it may in its discretion think fit.

8) (a) For ascertaining the quantity of water drawn by **the company**, the company shall forthwith at its own cost and after obtaining prior approval in writing thereto of the Executive Engineer, install independent pipelines fitted with separate electronic water measuring devices for use of water of the said independent intention (hereinafter referred to as the said electronics devices) at such places as is indicated by the Executive Engineer. All the pipe line layout showing location of the metering equipment from the said sources for different purposes shall be got jointly verified and got approved from Executive Engineer Irrigation Department. Layout from the said sources shall be made with the prior written approval from the Executive Engineer. In the event of the company failing to install and keep in proper working order the said electronics measuring devices for use of water for

the said plant and supply to the said residential colonies as aforesaid the company shall be liable to pay for the full sanctioned water quota as mentioned in clause 8 (d) I and II. During such period 125% of the proportionate sanctioned quantity will be charged at the prevailing rates for the said plant. The said electronics measuring devices shall always be kept under the lock and seal of the Executive engineer. The company shall at all times, during the substance of this agreement at its own cost maintain the said electronics measuring devices in proper working order and condition.

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

(c) If at any time in the opinion of the Executive Engineer the said electronic measuring devices are found defective the same shall be tested for its accuracy and cost of such testing shall be borne and paid by the said company. If on such testing



the said electronic measuring devices are found to be defective the company shall forthwith get the same repaired and set right at its own cost and in the event of the company failing to do so within 30 (thirty) days thereafter the Executive Engineer may proceed to do so and account at the cost of the company.

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

- (i) If the said electronic measuring devices remain out of order for a period of less than 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken 100% of the yearly sanctioned demand as communicated in clause no. 11 or average for the last six months whichever is **higher**.
- (ii) If the said electronic measuring devices remain out of order for a period of exceeding 30 days then the quantity of water deemed to be drawn by the USER during the said period shall be taken 110% of the yearly sanctioned demand as communicated in clause no. 11 or average for the last six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order.

The aforesaid provisions will also apply when the quantity of water drawn by the company cannot be measured on account of removal the electronic measuring devices for repairs for the same in the opinion of the Executive Engineer not working properly.

- (iii) If electronic meter meant for domestic or for agricultural use in not fitted or remains out of order or is removed the water charges will be levied as per the rates specified for the industrial use for the total quota as referred in clause (19a) of this agreement.



- 9) Billing should be done on bi-monthly basis. The bill for the water drawn by the company during the previous calendar month shall be sent in duplicate / triplicate by the Executive Engineer to the office of the company within 15 days after the end of the water consumption month / the company shall thereafter duly pay the same by a demand draft drawn in the name of Executive Engineer, Kolhapur Irrigation Division(south), Kolhapur for and on behalf of the Government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the company fails to pay the amount within this stipulated time (15 days from the date of receipt of bill and shall not allow the same to fall in arrears. If the company fails to pay the amount within this stipulated time (15 days from the date of receipt of the bill that is before the end of current month) extra **10% per annum** of the amount due will be charged. If the delay in the payment of water charges exceeds 6 months, the irrigation department reserves right to terminate the water supply with a notice of 15 days in advance.
- 10) The cost of all works in connection with arrangement for water supply including the cost of measuring devices and its installation and maintenance, shall be borne by the company.
- 11) Subject to the provisions of clause (8) here of the company shall pay to the Government at the time and in the manner specified in clause (12) here of water charges for the quantity of water drawn by the company from said river as measured by said electronic devices as following rates namely.

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

- (i) Provided however that after expiry of two years from date of company starts drawing water from the said river in any month the quantity of water drawn by the company is less than 90% of the quantity of water specified in clause (1)



hereof or for average of the quantity of water drawn by the company during the period of previous three months including the month in question whichever is greater.

- (ii) For any unforeseen reason, if the company / agency would like to reduce increase the demand of water made earlier / entered in the agreement they will be required to make the revised annual demand before commencement of the year that is 1st day of November. On acceptance of such revised demand the company will be charged as per changed demand for the period specified other condition remaining same. A supplementary agreement on hundred rupees stamp paper for this changed quantity which will form part of main agreement.
- (iii) No penal rate will be levied for the quantity limited 15% excess of the sanctioned one. For quantity used **in excess of this 15 %** without prior sanction a penal rate of 50 % will be charged over the basic rate. The delay in payment on account of this also will be governed by clause (9) above.
- (iv) For any unforeseen reason (such as sudden closure of this units or sudden rise in production etc.). There could be abrupt fluctuation in the demand on the both side such cases will be decided at Government level only by giving due consideration to the availability of water in the particulars sub-basin and so on.
- (v) In addition to the payment of water charges referred to above the company shall also pay to the Government local fund cess at the rate of 20 paisa per every rupee of basic water charges.
- (vi) Water bills : The bi-monthly bills for the period from November to August (for 10 months) shall be prepared on the basis of actual quantity of water lifted at the prevailing rate. The bill for the months of September and October (11th & 12th month) shall be prepared by taking review of annual sanctioned demand and the terms and conditions of the agreement and then shall be adjusted and paid accordingly. While adjusting so it shall be considered that the 90% of annual sanctioned demand has been lifted / used.



The water lifted in excess up to 10% of sanctioned demand shall be charged at single rate and excess above 10% (without prior permission) will be charged at penal rate of 1.25 times of the normal rate as mentioned in the relevant clause. However the local cess shall be charged on single rate only.

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

(b) In the case of disputes regarding quantity of water billed or rate at which the bill is prepared the company / firm / individual water user shall first pay the complete amount of the bill and then claim for the refund of any excess bill charges giving the reason / justification or wrong billing. However the decision of Superintending Engineer Irrigation in this regards shall be final and binding on the company.

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

- 14) The USER shall not discharge the effluent in any Nalla or River and shall not pollute directly or indirectly any portion of the said Nala / River even by septic tank effluents. **If any water sources are polluted** by any industry as identified by Irrigation / Pollution Control Board / MIDC / MJP **the company shall be charged 2 times the scheduled rate with a penalty of rupees 5,000/- per such incident per day till its rectified. The opinion of Maharashtra Pollution Control Board in respect of degree of pollution will be binding on the company.**



The company shall recycle the effluent water for the use such as gardening, recreation, cooling, cleaning, washing and manufacturing process etc. So that at least 50% reductions in consumption of fresh water is achieved.

- 15) The effluent disposal arrangement made by the company / Industry shall be got approved by the company from the Maharashtra Pollution Control Board / Environment Department of the Government prior to commencing the operation pumping / drawing water from the source.
- 16) The company shall at all times allow an officer of Irrigation Department of the Government authorized in the behalf to inspect the said works as well as the account and copies taken of entries from the records maintained by the company.
- 17) Any notice or other documents to be given to or served upon the company may be given or served on behalf of the Government by the Executive Engineer, Kolhapur and any such notice or document shall be deemed to have been duly given to or served upon the company or sent by registered post to the registered company if it is delivered at the registered office of the company or sent by registered post to the registered address for the time being of the company.
- 18) The said sum of Rs. 15, 50,892/- (Rupees Fifteen lakh fifty thousand eight hundred ninety two only) deposit in the form of cash by the company with the Executive Engineer, Kolhapur Division to the Government as aforesaid shall be held by the Government as security for the due observance and performance by the company of the covenants, terms and conditions herein contained. In case of default in the part of the company to perform and observe any of the said covenants terms and conditions it shall be lawful for the Government in its absolute direction to forfeit the whole of the security deposit or any part thereof without prejudice nevertheless to any rights and remedies which the Government may have against the company under these presents for such breach and the company under these presents for such breach & the company shall forthwith pay up the amount so forfeited and shall always maintain the original amount of deposit throughout the period of



this agreement. On the expiry of the terms of this agreement. The said security deposit of Rs. 15,50,892/- (Rupees Fifteen lakh fifty thousand eight hundred ninety two only) or such part thereof shall not have been appropriated as aforesaid shall be refunded to the company.

- 19) All amounts due to the Government by the company under this agreement shall be deemed to be arrears of land revenue and may without prejudice to any other rights and remedies of the Government be recovered from the company as arrears of land revenue.
- 20) On the expiry of the terms of this agreement, Government may renew this agreement within 90 days for such further period and on such terms and condition as Government may at its absolute discretion deem fit.
- 21) The costs incurred in the execution of the incidental charges for this agreement including stamp duty shall be borne and paid by the company.
- 22) Permission for extra water over and above the sanctioned quota will be granted only when the written permission for expansion etc. is produced by the company from the industrial department.
- 23) The agreement supersedes all the previous agreements entered into by the USER with the Government in connection with supply of water from Tamraparni River.
- 24) The company should submit their water indent for every rotation to Executive Engineer, Kolhapur irrigation Division (South), Kolhapur on or before starting the rotation where the source is located on canal. The company should also furnish exact quantity of water actually drawn in each rotation after completion of the rotation.



The company will have to make an arrangement at its own cost for adequate storage (balancing Tank) of not less than two months requirement of water in case of perennial canal, five months requirement in case of 8 monthly canal system, four months requirement in case of water source from seasonal river/nalla and one month water requirement in case of perennial water source of river / nalla so as to take care of the closure period. But if unexpectedly the

closure period is increased by more than the specified period stipulated herein the company will have to make an alternative arrangement for its water requirement at its own cost.

26) IF THE COMPANY COMMITS A BREACH OF ANY OF THE TERMS AND CONDITIONS THEREOF GOVERNMENT SHALL BE ENTITLED TO CANCEL THIS PERMISSION AND DISCONTINUE THE SUPPLY OF WATER WITHOUT PAYMENT ANY COMPENSATION WHATSOEVER OF THE COMPANY.

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

28) The user shall not discharge the effluent of quality below the standards specified by the Maharashtra state Pollution Control board such certificate of quality standard from Maharashtra State Pollution Control Board is required to be produced by the user and submit to water resources department every three months. In absence of such certificate, consumption of water quality will be charged at penalty rate vide G. R. No. Marathi

पापव-२०१३/प्र.क्र.४६६/२०१३/सि.ज. (महसुल) मंत्रालय, मुंबई-४०००३१
दि- १२ नोव्हेंबर २०१३.



Executive Engineer
Kollhapur Irrigation Division (South)
Kollhapur.

IN WITNESS WHERE OF THE Common Seal of the Olam Agro India limited as hereunto affixed and the Executive Engineer Kolhapur Division has for and on behalf of Governor of Maharashtra hereto set his hand and affixed the seal of his office the day and year first herein above written. THE COMMON SEAL OF _____



Was pursuant to a resolution
Of the Board of Directors of
The company dated the _____
Hereto affixed in the presence of _____

For OLAM AGRO INDIA PVT. LTD.

BHARAT KUNDAL
VICE PRESIDENT

1. _____

2. _____

Two directors of the company who in token thereof have here to set their respective hands in the presence of:-

1) William J.C

2) _____

SIGNED SEALED AND DELIVERED by Executive Engineer Kolhapur Division for and on behalf of the Governor of Maharashtra in the presence of

1. B.D. Patole

2. _____


Executive Engineer,
Kolhapur Irrigation Division (South),
Kolhapur.