

MINUTES OF ENVIRONMENTAL PUBLIC HEARING OF M/S M V K AGRO FOOD PRODUCT LIMITED, IN RESPECT OF PROPOSED PROJECT 120.0 KLPD MOLASSES/SYRUP TO ETHANOL BASED DISTILLERY UNIT ALONGWITH 2.5 MW CO-GENERATION UNIT WAS HELD ON 03rd FEBRUARY 2023 AT 11.30AM AT THE SITE OF M/S M V K AGRO FOOD PRODUCT LIMITED, AT GUT NO. 44, 45, 46, KUSUMNAGAR, MOUJE - WAGHALWADA, TALUKA-UMARI, DISTRICT - NANDED, MAHARASHTRA (431 807)

The Environmental Public Hearing of M/s. MVK Agro Food Product Ltd, for their proposed project of 120 KLPD Molasses/Syrup to Ethanol based Distillery was held on 03rd February, 2023 at 11.30 AM at the factory site Gat No. 44,45,46, Kusumnagar, Mouje Waghalwada, Tal. Umari , Dist. Nanded .

The Notice regarding the Environmental Public Hearing was published in Local Marathi News Paper in Dainik Sakal & in English National Newspaper Times of India on dated 28/12/2022 are hereby attached as **Annexure – I**.

The Environmental Public Hearing was held on 03rd February, 2023 at 11.30 AM at Factory Site under the Chairmanship of Smt. Santhoshi Devkule, Additional District Magistrate, Nanded, Shri. Dilip. K. Khedkar, Regional Officer, Maharashtra Pollution Control Board, Aurangabad, Member & Shri. Rajendra U. Patil, Sub-Regional Officer, Maharashtra Pollution Control Board, Nanded worked as convener of Public Hearing panel was formed as per MPCB Office Order No. MPCB/JD(WPC)/ENV-PH/B-221118FTS0118 dtd. 18/11/2022 are hereby attached as **Annexure – II**.

The member of public hearing panel environmentalist group, other participant villagers, agriculturist, the representative of project proponent, chairman & convener of said were present at the factory site for the said public hearing. The attendance data sheet for the participants/public present during the said public hearing are attached as **Annexure-III**

• **Purpose & Procedure:-**

The Member of public Hearing panel, the Environmentalist group & other participant, convener has initiated Public Hearing by welcoming the Chairman, Member, Regional Officer, MPCB, Aurangabad, local Citizen & Environmental group who were present for the said Public Hearing, that the said Public Hearing is conducted as per the MoEF, Gol Notification 14th September 2006 & amended 1st December 2009 accordingly the said notification. The notice for the Public Hearing was given in two local widely circulated newspaper i.e. in Marathi

newspaper Dainik Sakal & in English newspaper. The Times of India on dated 28th December 2022.

The copies of Environmental Management plan (EMP)/Executive Summary containing silent features of the project both in English, Marathi & other information/ documents were made available to the public by making these documents available in the various Government Offices as well as local Grampanchayat as per Gol Noitification 14th September 2006, suggestion, views comments & objection of Public Hearing were called in E- mail & in written within 30 days from the publication of this notice. This office has received 03 nos. of suggestions by email & 06 nos. of suggestion by written.

The Public Hearing panel was constituted vide MPCB office order No. MPCB/JD(WPC)/ENV-PH/B-221118FTS0118 dtd. 18/11/2022.

Thereafter, convener of the Public Hearing panel was requested to the project proponent to give their presentation about the project & the Environmental issued related with it.

Accordingly, representative of project proponent gave presentation of project & the Environmental issues as follows.



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1.0 Introduction

The proposed activity of molasses/syrup based distillery will be established by M/s MVK Agro Food Product Ltd.; the company is registered under the provision of Companies Act, 2013 Bearing Corporate Identity no: U15316MH2018PLC304795, dated: 02.02.2018. The copy of company registration is attached as *Annexure-1*. The registered office of the company is located at 20, Nava Mondha, Umari and District Nanded in state of Maharashtra.

2.0 Project Location

The proposed activity of distillery unit will be held on existing company premises engaged in manufacturing of sugar and co-gen activity at Gut no. 44, 45 & 46, Kusumnagar Village, Waghalwada, Umri, Nanded, Maharashtra.

As per geographical co-ordinates of the project site, the proposed activity is covered under SOI Toposheet no- 56F/9, while the study area of the project (10 km radius) is falling under SOI toposheet no: 56F/9, 56F/13, 56E/12 & 56E/16. The project is located at elevation of 387 meters above mean sea.

3.0 Project Description

Currently, project proponent has experience in running 2500 TCD sugar unit with 3.0 MW Co-gen plants. It shall be noted that, the proposed 120 KLPD distillery will be established on the vacant plot of existing Sugar and Co-gen unit.

As per Environmental Impact Assessment Notification published by MoEF&CC vide S.O. 1533 dated 14th September, 2006 and its amendments till date, the proposed activity of the company requires prior Environmental Clearance as proposed activity is falling under schedule 5(g) of the EIA notification; since it is an Molasses based distillery with production rate of 120 KLPD, the project is to be appraised by EAC as Category A project.

Salient features of proposed project are presented in **Table No. 1**.

Table 1: Salient Features of Project

Sr. No.	Component	Details
1	Name & Address of Company	M/s MVK Agro Food Product Ltd. Gut no. 44, 45 & 46, Kusumnagar Village, Waghalwada, Umri, Nanded, Maharashtra.
2	Product Type	Ethanol Manufacturing using Molasses and Cane Syrup
3	Project Type	New

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4	Schedule of project as per EIA Notification, 2006	5(g)	
5	Category of Project*	'A'	
		* - Applicability of General Condition - No Any Since the project is for manufacturing of molasses based ethanol with >100 KLPD capacity, the project will be appraised as 'A' Category project	
Plot Area Details			
6	Particulars	Area in Sq. m.	% of Total Plot Area
a	Green Belt	30,975.00	37.00
b	Parking Area	12,425.00	15.00
c	Total Built-up Area	23,285.00	28.00
d	Area Under Internal Roads	8,283.00	10.00
f	Open Space	7,862.00	10.00
g	Total Plot Area	82,830.00	100.00
Production Details			
7			
a	Rectified Spirit (RS)/ Extra Neutral Alcohol/ Ethanol	120 KLPD	
b	By-product	Fusel Oil : 0.24 Tons/Day CO ₂ Gas : 70 Tons/Day	
Budgetary Estimation			
8			
a	Project Cost (Indian Rs.)	110.50 Crore	
b	EMP Cost (Indian Rs.)	Capital: 2996.5 Lakh, Recurring/Annum: 178.43 Lakh	
Power Requirement			
9			
a	Proposed Connected Load	2.5 MW	
b	Source	In-House TG Set Turbine	
Fuel Requirement			
10			

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a	Baggase & Biogas	212.17 MT/Day & 17500 M ³ /Day
b	High Speed Diesel	73 l/hr.
11	Diesel Generator (D.G.) Details	
	Capacity & No.	2 x 160 kVA
12	Boiler Details	
a	Steam Boiler	1 x 30 TPH
13	CO₂ Bottling Plant	
	CO ₂ Bottling Plant Capacity	70 TPD
14	Stack Details	
a	Boiler Stack (from ground level)	40 meters (APCD: ESP)
c	D.G	2 X Stack of 2.6 m above roof for 160 kVA D.G.
15	Man Power	Skilled: 60 Unskilled: 40 Total: 100
16	Water Requirement	
	Particular	Quantity (m³/day)
	During Molasses Based Production	1 st Cycle for Distillery unit: 2387.9
		2 nd Cycle for Distillery unit: 468.8
	During Cane Syrup Based Production	1 st Cycle for Distillery unit: 1965.9
		2 nd Cycle for Distillery unit: 479.8
17	Effluent Load on CPU	
	Particulars	Quantity (m³/day)
	During Molasses Based Production	1290
	During Cane Syrup Based Production	850.8
18	CPU Capacity	
a	Capacity of CPU	CPU capacity : 1300 m ³ /day
19	Details of Hazardous Wastes	

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Sr. No.	Particulars	Category *	UOM	Quantity	Method of Disposal/Management
a	Used/Spent Oil	5.1	KL/A	0.1	Disposal through MPCB authorised recycler
*Schedule I of The Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.					
20	Details of Non-Hazardous Solid Wastes				
Sr. No.	Particulars	Category	UOM	Quantity	Method of Disposal/Management
a	Boiler Ash	-	TPD	4.24	Sell to brick manufacturing unit
b	Yeast Sludge	-	TPD	28.04 (Max)	Sold/ Use as manure
c	CPU Sludge	-	TPD	18.90 (Max)	
d	Spent wash powder	-	TPD	63 (Max)	

4.0 Description of the Environment

Primary baseline environmental monitoring studies in 10-km radius study area were conducted through NABL approved laboratory – **Shreeji Aqua Laboratories** during December 2021 - February 2022.

4.1 Topography, Land use & its Classification

The physical setting of study area shows an irregular pattern. Regionally, there is relatively good variation with respect to relief features. The area shows a variation of approximately 50m-70m from North East to South West and approximately 60-80 m from North West to South East. The Elevation from 235 m to 418 m MSL are observed in the study area.

The main river in the study area is the Godavari River. Presence of Naigaon Nala was observed towards the South West of Godavari River. The region also shows the presence of Jod Nadi which is relatively drier in nature. The water resource in the region is not that rich in the 10 km radius study area. Majority of water distribution originates from the Godavari River, due to which farming is done well in the surrounding area. Hence the area is dominated by agricultural activities close to water source and the remaining regions are dominated by Wastelands. Dendritic to sub dendritic type of pattern is present in study area. The area as a whole represents a relatively undulated region.

4.2 Soil Environment

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The soil samples were derived from 8 different locations within the study area of the project. Analysis results of the same, revealed that the pH values of soil samples were varying in range of 7.20 to 7.50; which indicated Neutral to slightly alkaline nature of soil samples. The organic matter content in soils was varying between the range from 1.29-3.56 percent. The values for Nitrogen at all locations varied between 794.1 to 1390.6 kg/ha. & maximum concentration of Nitrogen was observed at location S1. Concentration of Phosphate were found to be in the range of 182.5 to 328.5 kg/ha. whereas highest concentration was observed at location S6, while the lowest concentration was observed at location S2. Concentration of potassium amongst all locations was found to be ranging between 223.7 to 381 kg/ha. Heavy metals viz.As, Cr, Hg & Pb were below detection limit.

4.3 Air Environment

Ambient Air quality for criteria pollutants viz. PM10, PM2.5, NO_x, SO₂ and CO was monitored at eight (8) locations in study area whereas additional parameters viz. NH₃, C6H6, BaP, O₃, Pb and Ni, along with criteria pollutants were monitored at proposed project location.

- **Particulate Matter (PM2.5)**

The maximum of PM_{2.5} (31.5 µg/m³) during the study period was recorded at location A8, whereas the minimum value (30.1 µg/m³) concentration was recorded at A4 & A5 location. The average concentration of PM_{2.5} during the study period was computed to be in the range of 27.53-29.73 µg/m³.

- **Particulate Matter (PM10)**

The highest 24-hourly concentration was recorded at sampling location A3. At the same time minimum concentration was observed at location A7. The average concentration of PM₁₀ can be said to be ranged between 49.67-52.89 µg/m³.

- **Sulphur Dioxide (SO₂)**

The ambient air monitoring results indicate that the highest concentration of SO_x is experienced at A1. The presence of narsi- umri road and fuel burning within village are the principle source of emission for SO_x. The average concentration of SO_x recorded during the study period ranged between 13.6-17.01 µg/m³ respectively.

- **Oxides of Nitrogen (NO_x)**

The highest value of NO_x during the monitoring period was observed at location A1 while the minimum average was recorded at A6. The average concentrations were in the range of 18.65-20.28 µg/m³. The maximum 24 hourly value of NO_x was recorded at the monitoring location A1 (22.5 µg/m³) whereas the minimum concentration of NO_x was recorded at location A7 (21.5 µg/m³).

- **Carbon Monoxide (CO)**

The anthropogenic source of CO is due to incomplete combustion of fuel majorly in absence of air. The maximum concentration of CO estimated at all locations during the study period can be observed is 0.09 mg/m³.

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All the parameters were found to be within the desired limits specified by NAAQ Standard.

4.4 Noise Environment

Ambient noise levels were monitored at eight (8) locations in the study area during the study period.

Industrial Zone

The day time noise level at the project premises was observed to be 52.84 dB (A) while during night time the noise level was recorded to be 43.02 dB (A). It shall be noted that the noise levels during the day time as well as night time were estimated to be under the prescribed standards by CPCB.

Residential Zone

The minimum noise level recorded during the daytime was observed at location N8, whereas the maximum noise levels can be observed at location N2. The location N7 is well populated in the surroundings. It shall be noted that the permissible limits for noise did not exceed at any of the locations selected for sampling.

4.5 Ground Water Environment

The above results revealed that values/ concentrations of various parameters amongst all the samples were in the range of pH – 7.30 to 7.50, TDS – 412.6 to 472.6 mg/l, Sulphates – 62.3 to 84.9 mg/l, Phosphates – 1.84 to 2.18 mg/l, Total Hardness – 168.9 to 191.9 mg/l, Nitrate – 14.3 to 21.6 mg/l, Bicarbonate – 22.4 to 33.9 mg/l, Calcium – 41.66 to 51.4 mg/l, Sodium – 48.9 to 61.9 mg/l, Potassium 24.6 to 37.9 mg/l, Magnesium – 15.6 to 18.4 mg/l, COD - <5.0 mg/l, BOD - <1.0 mg/l, whereas concentrations of Arsenic, Lead were <0.01 mg/l and that of Cadmium, Iron, Chromium, Mercury, Nickel & Zinc were below detection limit. Total Coliforms & E. Coli were absent in all samples.

Observations during ground water sampling revealed that any of the sampled ground water sources were not subjected to releases, domestic activities like bathing, cattle washing etc. However as evidenced during sampling & field visits the study area was subjected to tremendous agricultural runoff which may be attributed to found concentrations of Nitrogen, Sulphates & Phosphates in ground water samples.

Further to assess the prevailing quality of ground water in study area, the analysis results are compared with the IS 10500 : 2012 viz. Drinking Water Standards by Bureau of Indian Standards which revealed that parameters viz. pH, Chlorides, Sulphates, Total Hardness, Nitrate, Arsenic, Calcium, Cadmium, Iron, Lead, Chromium, Mercury, Nickel, Zinc, Fluorides, Total Coliforms and E. Coli were within acceptable concentrations whereas TDS & Magnesium were within permissible concentrations, However though the concentrations of COD, BOD, Sodium, Potassium & Phosphates being not specified in standards based on the specified standards it is can

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be interpreted that prevailing ground water in study area is fit for human consumption use, thus it can be concluded that the prevailing ground water in study area is by & large not polluted.

4.6 Surface Water Environment

Surface water samples were derived from 4 locations in different surface water bodies within study area, analysis results of the same revealed that pH values amongst all samples varied in the range of 7.20 to 7.50, Total Hardness concentration varied in the range of 124.6 mg/l to 164.8 mg/l & maximum concentration was recorded at SW6, TDS concentration varied in the range of 312.9 to 398.7 mg/l whereas maximum concentration 398.7 mg/l was recorded at SW6 & minimum concentration 312.9 mg/l at SW3. Electrical Conductivity was found to be ranging in between 482.6 to 613.9 μ S/cm. The concentrations of Dissolved Oxygen, BOD & COD were found to be varying in the range of 3.4 to 3.9 mg/l, 3.0 to 5.0 mg/l & 10 to 17.3 mg/l respectively whereas the concentrations of Phosphates, Nitrate & Ammonical Nitrogen varied in the range of 3.21 to 4.12 mg/l, 11.6 to 24.6 mg/l & 0.01 to 0.28 mg/l respectively.

Concentrations of elements such as Calcium, Sodium & Potassium were found to be in the range of 32.4 to 42.9 mg/l, 38.9 to 49.8 mg/l & 9.84 to 15.9 mg/l respectively.

To ascertain the best suited use of sampled surface water bodies, the analysis results were compared with the Designated Best Use Water Quality Criteria & the analysis revealed that sampled surface water bodies in study area be suited for Class "E" Water i.e., Irrigation, Industrial Cooling, Controlled waste disposal.

4.7 Biotic Environment

Project site flora & fauna:

Project site and surrounding area of site comes under dry deciduous and southern thorn forest types (Chmapion and Seth 1968). Mixed forest consisting of various varieties of species the occurrence of which is considerably influenced by biotic interferences and management. Major tree species occurring in the forest can be listed as Teak, Anjan, Arjun, Bel, Babul, Khair etc. Growth of plants quite stunted because of poor soil quality but growth of grasses is abundant in all areas. Major land is covered with scrub forest which is uneconomic and thorny species.

Biological environment of the area was studied during the study period. No endangered species have been sighted in the area. No Wildlife Sanctuary, National Park, Biosphere Reserves, Wildlife Corridors exists within study area of 10 km radius.

Species of concern category - None

Schedule I Species - None

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Study area flora & fauna:

Flora:

Proposed project site:

The dominant species in this area are khair, babhul, bor, palas, hiver, Acacia catechu, Zizipus jujuba etc. etc.

Fauna:

Faunal diversity studied during field visit and categorised as per the respective groups and occurrence as well. Photographic evidence of same provided as per the requirement of project. Godavari river is closer to proposed project site (Within 10 Km radius) and good diversity of bird's species has been observed. Few water bodies also present within 10 km radius and harbours a great diversity. Detailed faunal investigation with checklist and photographs enlisted below,

Based on field survey, total 140 plants species have been recorded, out of which 52 Tree species, 20 Shrubs species and 55 Herbs and 9 Climber species are identified in entire study area. Total 12 species of odonates of which 9 were dragonflies and 3 were tiny damselflies, 7 species of bugs and 7 species of beetles have been reported during entire field visit from different habitats on project site. 22 species of butterflies found during the field survey which shows greater diversity of butterflies. 82 bird species were recorded in the study area, most of them around the water bodies and grassland. Mammals observed during field survey were 7 species which are mostly common, no threatened taxa have been reported from proposed project site.

4.8 Socio-Economic Environment

The 10 km study area includes seven Taluka of Nanded District. There are total 74 villages in the study area. The study area is essentially urban in nature. The socio economics of study area is studied through primary and secondary survey. The socio-economic aspects of the study area are summarized in the table given below.

Table 2: Summary of Socio-Economic Aspects

Demographic Parameters	Details
No. of States	1
No. of District	1
No. of Tehsil	7
No. of Villages	74
Total Area of surveyed village (ha)	47097.08
Total No. of Households	24410
Total Population	47964
Child Population	6619
Scheduled Castes	9123

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Scheduled Tribes	4545
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Source: Primary Census Abstract & DCHB 2011, Nanded District, State Maharashtra

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5.0 Anticipated Environmental Impacts and Mitigation Measures

Table 3: Summary of Impacts & Mitigations

Sr. No	Environmental Parameters	Aspect Attributes	Anticipated Impacts	Proposed Mitigation Measures
Construction Phase				
1.	Air Quality	Dust during handling of cement/concrete/stone aggregates & other construction materials.	<p>The estimated dust generation would be around 6.903 tons/month due to proposed construction activity.</p> <p>Exposure of construction workers to such dusts may lead to short term respiratory problems, whereas, prolonged & continuous exposure may lead to malfunctioning of lungs.</p> <p>The anticipated construction period will be 8 months after grant of all Environmental Clearance, Consent To Establish & all other Statutory Permissions.</p>	<p>Proper loading and unloading of the materials to ensure minimum dust. Managing & covering the stockpiles. Regular sprinkling of water on the working site, Installing wind barriers around working site & all around the plot boundary for containing the dust.</p>
2.	Noise Levels	Noise generated from construction machineries like Poclain, Lift Crane, Jack Hammer Drill, Digger, Compactor, Roller etc. & by use of construction equipments like Jack Hammer, Cutter, Drill Concrete	<p>It is anticipated that the cumulative noise levels by all construction machineries, equipments & activities at propagating at plant boundary will be in the range of 14.78 dBA to 22.90 dBA & propagating intensity of noise at</p>	<p>PPEs viz. Ear Plugs/Muffs will be provided to workers, Construction activities will be limited from 9.00 AM to 5.00 PM, Installation of noise barriers around project plot will further minimize the intensity of propagating noise.</p>

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3.	Water Quality	vibrator etc. and by arrival & depart of transport vehicles. Surface runoff water used for construction activities mainly for concrete mixing, sprinkling etc. Sanitation waste water by construction workers.	distance of 100 m from plot will be 22.02 dBA, thus significant impacts outside plant premises are not anticipated. If such runoff water & sanitation waste water finds way to surrounding soils & water body, may lead to contamination of surrounding soils & increased turbidity & contamination in water body.	The surface runoff water generated during construction activities will be properly filtered and utilised for gardening or sprinkling & Mobile sanitation facilities will be provided to workers which will be periodically cleaned through night soil tankers.
4.	Construction & Demolition Wastes Management	Proposed project being a green field project, demolition waste will not occur however inert construction wastes such as: Cardboards, Wooden Boxes, Wooden planks, Metal rods, HDPE bags, Felled Concrete, Stones, Aggregates & debris will be anticipated to be generated. Excavated/Dug soil/earth will be generated during site preparation activities.	Haphazard handling of such wastes may lead to advent of Rodents, Reptiles within project plot, thereby causing dangers to workers working on site. Disposal of such wastes on land will lead to degradation of soils.	Excavated/ dug soil/earth will be stored appropriately in dedicated space within project plot & will be used for green belt development activity along with mix of new soil. Inert construction wastes viz. Cardboards, Wooden Boxes, Wooden planks, Metal rods, HDPE bags will be stored in dedicated space & sold to recyclers.

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				<p>Felled Concrete, Stones, Aggregates & debris will be used as filling material for internal roads in consonance with Construction & Demolition Wastes Management Rules 2016.</p>
<p>Operational Phase</p>				
1.	Air Quality	<p>Utilities stack emissions viz. Particulate Matter, SO₂, NO_x & CO from boiler & D.G operations & Process emissions viz. CO₂ & VOC's.</p> <p>VOC emission generation due to the handling and storage of the Ethanol.</p> <p>Emissions from material transport vehicles.</p>	<p>The anticipated maximum concentration of PM₁₀ & PM_{2.5} from steam boiler operations will be 0.09 & 0.06 µg/m³, maximum concentration of SO₂ will be 1.21 & that of NO_x will be 2.96 g/m³ which are likely to be carried in downwind direction.</p> <p>Anticipated health effects: People in downwind localities if prone to continuous & prolonged emissions may be susceptible to adverse health impacts related to respiratory & pulmonary due to particulate matter. Carbon monoxide decreases the oxygen carrying capacity of the blood by reducing the haemoglobin.</p> <p>The anticipated process generations are CO₂- 70 TPD,</p>	<p>1. ESP will be attached to stack of 40 m height based on CPCB calculations.</p> <p>2. D.G will be provided with a stack of 2.6 m above roof as per CPCB guidelines for proper dispersion of emissions.</p> <p>3. CO₂ Bottling plant is proposed for recovery of process emission.</p> <p>4. Provision of closed feeding system for solvents.</p> <p>5. The roads within the premises will be paved to avoid the dust generation from vehicular activity.</p>

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2.	Noise Quality	Operation of Steam Boilers, Cooling Towers, Pumps, Blowers & material transport vehicles.	<p>Which will be sent to CO2 recovery plant.</p> <p>The health effects related to VOC's are eye, nose and throat irritation, headaches.</p> <p>Environmental effects:</p> <p>The air emissions in long course of time may affect the immediate surrounding vegetation stature physically (leaf senescence, hampered growth etc.) & biologically thus may affect the overall surrounding ecology.</p>	<p>6. It will be ensured that all the transportation vehicles have a valid PUC (Pollution under Control) Certificate.</p> <p>7. Regular sweeping of all the roads & floors will be done to avoid fugitive dust.</p> <p>8. The proposed thick green belt of 10 m width along the plant periphery will help to capture the fugitive emissions.</p> <p>9. Industry to ensure that at no point of time the air emission concentrations exceed the prescribed CPCB/Consented standards.</p>	<p>1. Acoustic enclosures will be provided to high noise generating equipments for attenuation of noise level during operation.</p> <p>2. Steam boilers will be placed in a confined space viz. boiler house where the surrounding walls will</p>

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Executive Summary for Proposed 120 KLPD Molasses / Syrup to Ethanol Based Distillery along with 2.5 MW Co-gen Unit at Gut no. 44, 45 & 46, Kusumnagar Village, Waghalwada, Umri, Nanded, Maharashtra.

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3.	Water Quality	<p>1. Effluent from process, washings, Backwashes.</p> <p>2. Boiler & Cooling Tower blow-downs.</p> <p>3. Domestic wastewater.</p>	<p>Temporary/Permanent hearing loss, Mental disturbances Increase in heart rate Reduced workers performance due to psychiatric disorder and Tinnitus in case of high level of noise exposure on regular basis.</p> <p>The intensity of propagating noise at a distance of 100 m from plot boundary will be 4.88 dBA, thus significant impacts outside plant premises are not anticipated.</p> <p>The anticipated treated effluent characteristics are: pH - 7.5 to 8.0, TSS < 100 mg/lit., BOD < 100 mg/lit., COD < 250 mg/lit., TDS < 2100 mg/lit. and Oil & Grease < 10 mg/lit.</p> <p>Accidental/Deliberate release of treated/un-treated effluents in surface water bodies may lead to contamination/ eutrophication/ acidification/ toxification of the subjected water bodies and in of case land may lead to complete</p>	<p>acts as a barrier for propagating noise.</p> <p>3. PPE's viz. Ear muffs/plugs will be provided to workers working near noise generating equipments.</p> <p>4. The proposed thick green belt of 10-20 m width along the plant periphery will help to further minimise the intensity of propagating noise out of plant premises.</p>
				<p>For efficient treatment of the spent wash separated using analyser column, MEE followed by Spent wash dryer will be installed; The condensate from MEE unit will be collected and it will be further treated in CPU of 1300 KL Capacity along with other effluent streams like Spent Lees, Blowdowns from Boiler and Cooling Towers, Sealing water, WTP reject and Washing effluent.</p>

M/s. MVK Agro
Food Product
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			<p>degradation of subjected land affecting, also may contaminate the ground water by way of percolation.</p> <p>Such affected soils, Surface water & ground water sources cannot be used for any purpose & depending terrestrial & aquatic ecology will be completely affected.</p> <p>Unscientific handling & disposal may lead to contamination of surrounding soils, water sources & there by affecting the ecology & health of the workers coming in direct contact with the hazardous waste like skin allergies/rashes/burns etc.</p>	<p>The CPU will be consist of Primary, Secondary and Tertiary facility.</p> <p>Domestic effluent load will be connected and treated in secondary treatment facility of CPU.</p>
4.	Solid Waste Management - Hazardous	<ol style="list-style-type: none"> 1. Hazardous waste i.e. Spent oil generated from DG and maintenance of the plant. 2. Hazardous waste generated from maintenance operations. 		<ol style="list-style-type: none"> 1. Spent oil generated from project activities will be handled, stored and disposed as per Hazardous Waste Management Rule, 2016 and its amendments till date. <p>Mainly it will be sold to MPCB authorised vendor.</p>
5	Solid Waste Management (Non Hazardous Inert Waste)	<ol style="list-style-type: none"> 1. Scrap Metal 2. Scrap Plastic 3. Office Waste 4. Canteen Waste 5. Wooden Pallets 6. Boiler Ash 7. CPU Sludge 8. Dry Spent wash powder 	<p>Hap-hazard handling & storage may lead to inadequate open space in plant premises & it may lead to rodent breeding thereby affecting the occupational health & environment.</p>	<ol style="list-style-type: none"> 1. Designated area for Scrap materials (Metal, Plastic, Wooden Pallets, Office Waste) storage will be provided in the plant. 2. Scrap materials will be recycled through scrap vendors.

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		9. Yeast Sludge		<p>3. Daily housekeeping waste and canteen waste will be disposed through vermin composting facility (off-site).</p> <p>4. Boiler ash – 4.24 TPD will be used in brick manufacturing unit</p> <p>5. CPU Sludge- 18.90 TPD, Yeast Sludge – 28.04 TPD & Spent wash powder- 63 TPD will be mixed together and will be sold as Manuare</p>
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The Sub Regional Officer, Maharashtra Pollution Control Board, Nanded & Convener of Public Hearing panel asked the participant who were present to raise their views and comments on the project to insure that the objective of the Public Hearing are fulfilled.

The proceeding is as below.

Proceeding: -

Sr. No.	Issues raised by Public	Response/commitment of project proponent	Suggestion made by Public Hearing Panel
1.		In response to the said issue the project proponent replied that the name of the project which is our existing working unit is MVK Agro Food Products Limited.	The Member of Public Hearing panel raised the issue that, In the presentation & EIA report shown the existing sugar factory, but the name of the project was not mentioned anywhere.
		The project proponent replied that, Yes, the study is carried out in the periphery of 10 km from the projected site. The purpose is to study about the Environmental Impact Assessment of the said proposed project site is not to cause any adverse impact on the surrounding area due to any incident/Environmental impact happened in the projected area in the future. For that we have followed the guidelines given in the Environmental Impact Assessment Notification & ToR (Terms of Reference)/ the directives of CPCB. He further mentioned that the name of the village where the study is carried out namely these villages are Salegaon, Waghalwada, Karkheli, Borjuni, Khalegaon, Bijegaon, Atala & briefed about the study/survey carried out for monitoring of water, air, noise and soil quality in these villages & shown in the presentation. He further agreed to mentioned/incorporate the	And he further raised the question that the study is carried out in the periphery of 10 k.m. from the project site, what is its purpose? An as mentioned that you studied in 10 villages out of 74, then the names of the villages where you studied and what you studied it should be briefed here. And he further wants to know from project proponent that who is the owner of the land of this project, if the project is purchased. Whose management, new ownership right, if it is taken on rent, the detailed information should be made available in Environment Impact Assessment (EIA) report. And he further suggested to tell the names of ten villages out of sixty villages where the study was conducted in the periphery of this project. And also the location of the water sample carried out for the water quality as well as the location of the Ambient Air Monitoring for the Air Quality should be mentioned in the presentation.

		<p>ownership rights in the EIA report.</p> <p>He replied as mentioned above these villages selected are likely at 360 degree & the monitoring were carried out as per the wind pattern/wind rose of Nanded District.</p>	
		<p>The project proponent replied that air samples were collected as per air parameters & survey is carried for air monitoring considering the suitability for each parameter and upwind and downwind directions were considered in terms of wind direction. He further said that on each monitoring locations we have provided coordinator for the same. The details name of the farmers, photos of air monitoring sites, GPS locations & information about the farmer from whom electricity connection have been obtained for air monitoring will be incorporated in the final EIA report.</p>	<p>The Member of the Public Hearing panel in opinion that, there is no need for wind patterns while collecting water samples. He further raised the question in which village monitoring was carried out should be present here? And whether water samples have been collected from rivers, bore wells, lakes & monitored in this connection the information will be given in the presentation. And he further asked the information should be provided on which locations the air monitoring was carried out. For that, mentioned the names of the farmers from whom the electricity supply was taken for the same.</p>
		<p>In this regard the project proponent replied that agreed to do so and will submit the information. However he provide the information that the survey is carried out of the project site from the villages are at distance such as Salegaon - 2.35 k.m, Waghawada - 1.5 k.m, Karkheli - 7.22 k.m, Borjuni - 4.0 k.m, Golegaon - 1.1 k.m, Bijegaon - 5.17 k.m and Atala - 4.28 k.m. and he gave the information about the direction of concern villages where the monitoring is carried out from the project site at Salegaon - North East, Waghawada - South East, Karkheli - East, Borjuni - West, Golegaon - South West, Bijegaon - South West and Atala is in the south directions.</p>	<p>The Convener of the Public Hearing panel asked to show the details about all water and air monitoring locations along with GPS location. And information about which machines were used for Ambient Air Quality Monitoring.</p> <p>Similarly, the member of the Public Hearing panel also raised the issued to project proponent whether the survey is carried out in the radius of 10.0 k.m as per the TOR? & asked about the direction of concern villages from the project site where the monitoring is carried out. From presentation it seems that the survey is done at a distance of 5.0 km to 3.0 km radius only. In view of that the Member & Convener of public hearing panel</p>

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			suggested to the project proponent to do so the survey of 10 Km radius, if such information not available with you.
		The project proponent replied that the level of P.M. 10- 98% observed at project site. The information of air pollution levels, Air Quality monitoring Results of labour camp is mentioned on page no. 130 of EIA report as shown during the presentation. Similarly the information about air pollution monitoring locations & observations of AAQM prior to monitoring is mentioned on page no. 128 is shown in the presentation. And on page no 137 of the information about noise pollution level is mentioned in the EIA report shown in the presentation.	The Member of Public Hearing panel inquired about air pollution levels, AAQM of labor camp and monitoring of noise pollution in EIA report.
		The project proponent replied that the average value of 24 hours is (Average Value) given. At the time of survey and observation, it was 52.84 decibels, because it was not sugarcane crushing season and the factory was closed. So, it can be less. The noise dispersion is going to happen in boiler, CPU, D.G Set. According to the area will be confirmed after commencement of the project.	The Member of Public Hearing panel raised objections and brought to the noticed that when two people are simply talking the sound level can be noted around 55 decibels. Whereas the sound level findings shown by you all are shown to be less than 52 decibels and the findings of noise levels given by you cannot come anywhere, but only if there is a Silent Zone. After the commencement of the project, this survey will be considered as a Base Line. However, the noise results should be confirmed.
		The project proponent replied that the vehicular traffic may cause noise pollution during Transportation of these vehicles while sending material. The Syrup and molasses will be supplied through pipelines only. Similarly, the boiler will be	The Convenor of Public Hearing panel suggested what measures to be taken for turbine noise & other sources of noise in the surrounding area.

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		installed in the enclosed area, so that the noise pollution occurred in the boiler area will be within the limits. Also replied that DG set will be operated in the enclosed RCC area. Similarly, Dispersion Modeling has been created.	
		The project proponent replied that a boiler with a capacity of 30 TPH would be commissioned.	The Member of Public Hearing panel raised issue that if at all ESP or blower fitted with the boiler, the noise levels will be up to 100 decibels. Now there is a concept that there should be an Open Boiler House. What precautions will you take then? It is not mentioned in the report. Similarly, there is not mentioned about the capacity of the boiler. So the information should be given.
		The project proponent replied that the location is being prepared & we will provide maximum boundary width of 10 meters & 37% green belt.	The Member of Public Hearing panel asked to show the location of green belt & suggested to develop green belt 33% is mandatory, he further informed that boundary line should be in meters and the green belt that comes should be in circumference it is binding to layout along with periphery green belt should be developed of the boundary wall from all the sides & layout should be designed accordingly.
		The project proponent agreed to modify layout accordingly.	The Convener of Public Hearing panel suggested the project proponent that rainwater harvesting system & green belt should be modify in the layout & mentioned accordingly.
2	<p>Shri Madhavrao Nagorao Hivrale, Resident of village Shinganapur, Tal. Umri, Dist. Nanded raised the following issue</p> <p>What measures will be initiated against the pollution caused by the proposed project in the area?</p>	The project proponent replied that in order to avoid air pollution in the project, most advanced ESP system will be attached to the chimney/stack of the project. It gives 99.9% efficiency. Hence, the pollutants will not be emitted outside the chimney & The waste water generated in the project will be treated, recycled and reused in the project only after processing in CPU (Condensate Polishing Unit) to achieve Zero Liquid Discharge. Therefore, not a	

		single drop of water will be released outside the project. Hence, the project will not cause any water pollution.	
		The project proponent replied that it is our full responsibility to fulfill the promises made in the hearing. He assured that we will take care to ensure that the project does not cause any pollution. The treated effluent from the project will not be discharged outside the project. In order to prevent air pollution, the latest ESP system will be implemented. Similarly, since the boiler will be installed in a closed RCC cabin, there will be no problem of noise pollution.	The Member of Public Hearing panel suggested that if Project Environmental Consultant give assurances in public hearings, then whose responsibility will be to implement it, whether Environmental Consultant or Project Proponent?
		The project proponent replied that every year various measures have been taken to increase the ground water level. The Golegaon lake is about one k.m. distance only. The silt was removed and It is noticed that water level was increased. Similarly, We are removing silt from different lakes in the area, widening and deepening of drains in the area. We were implementing rain water harvesting scheme.	The Convener of Public Hearing panel asked to inform about the steps to be taken for increase of ground water level.
	<p>Shri Vyankatrao Digambar Hambarde, Resident of village Bijegaon, Tal. Umri, Dist. Nanded raised the following issue</p> <p>How many people will get job opportunities due to the establishment of this project? Similarly, will the local people/Bhumiputra here get job opportunities?</p>	The project proponent replied that at least 100 people will get job opportunities. The people residing in the radius of 10 k.m. from the project area will be an opportunity for the jobs. If the person has required educational qualification, the Job opportunity will be given to that concerned person. But if local person don't have the required educational qualification we will be consider from the outside. In the existing plant presently the people from Golegaon, Salegaon, Karegaon villages are working here.	
	<p>Shri Sunanda Reddy, an Environmentalist, Telangana State has</p>		

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support the project & inform

My best wish for expansion and commissioning of new distillery project. I am the first environmentalist in India who support industries.

Your consultant has already prepared EIA report. It is very good and satisfactory.

Whatever you plant plantation, instead of normal plants, fruit bearing plants, medicinal plants take up. It is very useful in future and medicinal value plants will control air pollution. I am requesting you within the CSR Fund, you can do it. No extra fund is required.

Also, I am requesting, if possible, carry survey for health status of the people, crops production status and ground water availability status. It is very useful in future to take precautionary measures to maintain ecological balance; If it is possible, please do carry though it is not mandatory.

I am also requesting to form a Co-ordination Committee with village sarpanches, human groups with the management and officials to take CSR budget. Meeting will decide "Demand Oriented Work." Credibility comes to the management.

I am also requesting this is "Farmers' Friendly Industry." As a practical environmentalist, I am demanding Ministry of Environment, if there is possibility, please exempt



<p>the public hearing process for such industries</p> <p>Recently in Corona epidemic, the interim dates have been exempted from the public hearing. Recently Nagpur High Court Bench have taken decision to exempt the public hearing for minor metal for the public utility, Actually, the pollution can occur in industries like fertilizers, pesticides, vehicular pollution and what are habits of the food taking processes, these 4-5 items are affecting the pollution. This is only 1/10th of the pollution. Very minor pollution due to this project. Once again my best wishes to the project. I am requesting MoEF & CC, Govt. of India to give unconditional permission to this project.</p>		
<p>Shri S. Chandrashekhar, an Environmentalist, Telangana State has raised issue that</p> <p>Local people should be given 100% job opportunities in the project, CSR fund should be spent for development work in surrounding villages</p> <p>I recommend Ministry of Environment, Forests and Climate Change, Government of India, New Delhi to approve the project.</p>		
<p>Shri Bhaurao Bhosale, Resident of village Waghawada, Tal. Umri, Dist. Nanded raised the following issue</p> <p>On behalf of all the citizens of the area, I say that the project undertaken will</p>		

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<p>provide job opportunities to the local farmers and workers of the surrounding area. Similarly, measures will be taken to prevent pollution. After starting the project, every project owner has to implement pollution prevention measures.</p> <p>However, we are sure that all the Directors of the Company will implement the anti-pollution measures. There is no doubt that this project will get the support of the local people. I satisfy to all these matters.</p>		
<p>Shri Anand Bhimrao Kadam, Resident of village Bahegaon, Tal. Umri, Dist. Nanded raised the following issue</p> <p>The factory is for our poor people. Due to this industry, the local people have become economically stable. If there is pollution, we will tolerate it, because we want development. However, we will support this industry. Hence, it is a request to allow the factory.</p>		<p>The Convener of Public Hearing panel say that Here now in the discussions, some of the participants are saying before the Environment Public Hearing Committee that they will tolerate if there is pollution, but it won't be happen. We should advise the company management that the company management should take preventive measures so that there should not be any kind of pollution. The factory is bound to follow all the terms and conditions stipulated in the consent granted by the Maharashtra Pollution Control Board. And operated & maintained pollution control system manage & handle properly then there will be no issue about the pollution. However, to control the pollution is the responsibility of the project proponent.</p> <p>Also further informed that management has to follow four things- Management, Handling, Operation and Maintenance. Negligence here leads to the further questions. However, the time should not come like the feeling expressed by the local people that they will tolerate the pollution. If everyone follows their responsibility, the question will not arise. All of us are sensible citizens and should follow the responsibilities. Also, the Project Management should handle all the pollution control systems efficiently.</p>

**Shri Shri Sarshe Bapuji
Champatrao Resident of
village Dholwadi, Tal.
Umri, Dist. Nanded raised
the following issue**

There was no sugarcane factory in this area. Due to this, the farmers were facing a lot of problems. A sugar factory was 30 km away from here. From there the sugarcane crop of the farmers started to deliver there and the farmers started getting cash money. The instructions given in the meeting will be followed strictly. There will be no pollution. Project Administration has rectified the errors. The establishment of this project will only benefit the local farmers.

The Chairman the public Hearing Panel in his concluding remark assured that all the points raised in the public Hearing will be in corporate in the minutes and clarified that the processing of public Hearing will be submitting ministry of Environment and climate change Govt. of Maharashtra.

The Member of the Environment Public Hearing Committee thanked all the local people, project officials and environmentalists and declared that the meeting is concluded.

The meeting ended extending thanks to the Chair.


(Mr. R. U. Patil)

Convener,

Environment Public Hearing Committee
Sub Regional Officer, MPCB, Nanded


(Dr. D. K. Khedkar)

Member,

Environment Public Hearing Committee
Regional Officer, MPCB, Aurangabad


(Smt. Santoshi Devkule)

Chairperson ,

Environment Public Hearing Committee
Additional District Magistrate, Nanded

