

Your (**Environment Clearance**) application has been **Submitted** with following details

<b>Proposal No</b>	004205
<b>Compliance ID</b>	92762000
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/92762000/2024
<b>Reporting Year</b>	2024
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)
<b>Submission Date</b>	12-08-2024
<b>IRO Name</b>	V Geroge Jenner
<b>IRO Email</b>	tr025@ifs.nic.in
<b>State</b>	MAHARASHTRA
<b>IRO Office Address</b>	Integrated Regional Offices, Nagpur

**Note:-** SMS and E-Mail has been sent to V Geroge Jenner, MAHARASHTRA with Notification to Project Proponent.

# Six Monthly Compliance Report June 2024

## **Adlers Bioenergy Limited**

Survey No. 284/B, Post Gaurgaon, Off Latur Barshi Highway, Tal. Kalamb , Dist. Osmanabad, Maharashtra

## **Submitted To**

Ministry of Environment and Forest, Climate Change  
Regional Office (WCZ), Ground Floor, East Wing, New  
Secretariat Building, Civil Line, Nagpur 440001





**ADLERS BIO-ENERGY LIMITED**  
adding value to grain farming  
CIN : U24116PN2005PLC021751

Date : 28.02.2024

To,  
Additional Principal Chief Conservator of Forests,  
Ministry of Environment Forest and Climate Change,  
Regional Office (WCZ), Ground Floor, East Wing,  
New Secretariat Building, Civil Line, Nagpur-440001

**Sub: Submission of six monthly compliance report for 25 KLPD Grain based Distillery unit at Gaurgaon , Maharashtra for June 2024**

Dear Sir,

We are herewith submitting compliance report as per the condition mentioned in the Environmental Clearance Letter No. EC(MR)-2009/290/CR.57/TC.1 Dated: 17<sup>th</sup> February ,2010.

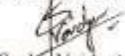
Submitting compliance report as given below,

Particulars	Description
1. Name of the Project	25 KLPD Grain based Distillery unit at Gaurgaon , Osmanabad , Maharashtra
2. Project Proponent	Adlers Bioenergy Limited
3. Current status of the project	EC received on 17 <sup>th</sup> February,2010. Project site work is completed and is under operation phase
4. Contact details of the nodal officer	Mr. Sachin Vaidya Vulcan House, 1 <sup>st</sup> Floor, Shakuntal Building, 46/10 Law College Road, Pune- 411004 Email Id: <a href="mailto:sachin.vaidya@adlersmail.com">sachin.vaidya@adlersmail.com</a>
5. Project Information sheet	Enclosure-I
6. Environmental clearance	Enclosure-II
7. Compliance condition status in the Environmental Clearance Letter No. EC(MR)-2009/290/CR.57/TC.1 Date: 17 <sup>th</sup> February ,2010.	Enclosure-III

We hope the above information is in line with your requirement.

Thanking You  
Yours faithfully,

For Adlers Bio-Energy Limited

  
(Sachin Vaidya)  
Director



Part-I  
DATA SHEET

1	<b>Project Type:</b> River Valley / Mining / Industry / Thermal / Nuclear/ Others (Specify)	Industry
2	<b>Name of the Project</b>	25 KLPD Grain based Distillery at Sy. No. 284 (B), Subhash Nagar, Village Gaurgaon, Taluka Kallamb, District Osmanabad (Maharashtra) by M/s. Adlers Bio-Energy Limited
3	<b>Clearance letter(S)/OM No. and Date</b>	EC Letter No. EC (MR)-2009/290/CR.57/TC.1 dated 17 <sup>th</sup> Feb 2010 copy attached
4	<b>Location a)</b> District (s)	Osmanabad
	State (s)	Maharashtra
	Location latitude / longitude	Latitude 18°26'22.58"N, Longitude 76° 09'22.97"E
5	<b>Address for Correspondence</b>	
	a) Address of the Managing Director (with Pin code / Telephone / Telex / Fax / Numbers)	Mr. Sachin Vaidya (Director) Vulcan House, 1 <sup>st</sup> Floor, Shakuntal Building, 46/10 Law College Road, Pune- 411004 Email Id: <a href="mailto:sachin.vaidya@adlersmail.com">sachin.vaidya@adlersmail.com</a> Mob. No. 9822297976/8668473255
6	<b>Salient Features</b>	
	a) of the Project	The project is located at Sy. No. 284 (B), Subhash Nagar, Village Gaurgaon, Taluka Kallamb, District Osmanabad (Maharashtra).
	b) of the Environmental Management Plans	Environment Management Plan Includes – Green Belt Development (Plantation with mostly indigenous plant species), Effluent is being utilized for ash quenching. Ash is rich in potash hence, it is used as a manure in farm Ash is sent to brick manufacturer/ to farmers as it is rich in potash. For air pollution control 35 m stack with ESP
7	<b>Breakup of the Project Area</b>	
	Submergence area: Forest & Non Forest	N.A.
	Others	Plot Area- 19 Ha.
8	Break up the Project affected population with the enumeration of those losing Houses/Dwelling units only, Agricultural Land & Landless Laborers /Artisans:	Project land is owned by project proponent. So no population is affected.
	a) SC,ST / Adivasi	N.A.
	b) Others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details & year of survey)	N.A.
9 (a)	Financial Details: Project cost as originally planned and subsequent revised estimates and the year of price reference.	Total Project Cost. Rs. 22 Cr.

(b)	Allocation made for environmental management plans with item wise and year wise breakup	Capital cost: 2.3 Cr. O & M cost/ Year- 30 Lakhs
c)	Payback Period	8 years
d)	Whether (c) includes the cost of environmental management as shown in the above	Yes
e)	Actual expenditure incurred on the project so far.	107.42 Cr.
f)	Actual expenditure incurred on the environmental management plans so far	2, 20, 60, 000/-
10	<b>Forest Land Requirement:-</b>	
a)	The Status of approval for diversion of forest land for non-forestry use.	N.A.
b)	The status of clearing felling	N.A.
c)	The Status of compensatory afforestation, if any comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	N.A.
11	The status of clear felling in non-forest areas (such as submergence area or reservoir, approach roads) if any with quantitative information required.	N.A.
12	<b>Status of construction</b> (Actual & / or Planned)	The project is constructed in accordance to EC
a)	Date of commencement (Actual & / or Planned)	12.12.2008
b)	Date of completion (Actual & / or Planned)	15.07.2009
13	Reasons for the delay if the project is yet to start	NIL
14.	<b>Dates of the site visits-</b> The dates on which the project was monitored by the Regional Office on previous occasions, if any	NIL
a)	Details of correspondence with project authorities for obtaining action plan/information on status of compliance to safeguards other than the routine letters for logistics support for site visit. (The monitoring report may obtain the details of all letters issued so far but the later reports may cover only the letters issued subsequently.	No show cause or closure notices received from MPCB or CPCB. We are regularly monitoring both air & water data as per CPCB guidelines & parameters are within limit.

## Post EC Compliance

**Project information as per EC Letter No. EC (MR)-2009/290/CR.57/TC.1 dated 17<sup>th</sup> Feb 2010**

	General terms and conditions	
i.	Project proponent agreed that coal will not be used	-
ii.	“Consent for Establishment” shall be obtained from Maharashtra Pollution Control Board department under Air & Water Act & a copy shall be submitted to the Environment department before start of any construction work at the site	Complied. Consent to Establish vide letter BO/RO(P&P)/EIC No. AD-0592-06/Amend/E/CC-232 dtd 08.07.2009 and Format 1.0/CC/UAN No. MPCB 2107000796 dtd 14.07.2021 has been obtained. CTO has been obtained from MPCB vide Letter No. Format-1.0/BO/CAC-CELL/UAN No. 0000059473/R/CAC-1905001180 dtd. 17.05.2019 and Format1.0/CC/UAN No.MPCBCONSENT-0000125009/CO/2204000910 dated 17.04.2022 has been obtained
iii.	No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	Complied. Factory has not developed any land without obtaining due clearance.
iv.	No additional land shall be used/ acquired for any activity of the project without obtaining proper permission.	Complied. No additional land is utilized or acquired for the proposed expansion project.
v.	No fuel other than mentioned above including coal shall be used without obtaining proper permission.	-
vi.	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.	Complied. Regular sprinkling of water is done. Sprinkling frequency: once in a day during summer season factory premises open area. Total Area Covered: 0.1-0.25 in sq.km Locality of the area covered: Road side, area near vehicles.
vii.	Regular monitoring of the air quality, including SPM & SO <sub>2</sub> levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	Monitoring reports for ambient air quality monitoring are attached in Annexure 1
viii.	A detailed scheme for Rainwater harvesting shall be prepared and implemented to recharge groundwater.	Complied. Three rain water harvesting recharge pits and check dams are constructed. Rain water harvesting tank photograph is attached in Annexure 2
ix.	Periodic monitoring of groundwater shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Ground water monitoring for nearby study area has been conducted. Ground water monitoring reports are Annexure 1.

x.	Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like ear plugs etc. shall be provided.	Noise quality within factory premises and nearby villages has been monitored attached as Annexure 1
xi.	The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. On all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989	Noise quality near study area and project site has been monitored and attached as Annexure 1
xii.	Green Belt shall be developed and maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO / Agriculture Dept.	Total green belt developed on site till date is 12 Ha. Photographs of greenbelt development is attached in Annexure 3. Plant species have been selected in consultation with DFO. There are around 15000 trees present in the existing premises.
xiii.	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.	Risk Zone Area: Boiler house, Distillation section, raw material storage area, effluent treatment area. Safety measures like first aid boxes, firefighting system like fire hydrant, fire extinguisher are provided. Fire hydrant main pumps, hydrant valves have been installed in the premises. Photographs of firefighting system and safety measures attached as Annexure 4.
xiv.	Occupational health surveillance of the workers shall be done on a regular basis & record maintained as per Factories Act.	Complied. Occupational health surveillance of the workers is done on a regular basis & records are maintained as per Factories Act.
xv.	Project proponent shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Complied. Safety measures like first aid boxes, firefighting system like fire hydrant, fire extinguisher are provided at various locations in project site.
xvi.	The project authorities must strictly comply with the rules & regulations with regard to handling & disposal of hazardous wastes in accordance with the Hazardous Waste (Management & Handling) Rules, 2003. Authorization from the MPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.	Complied. The rules & regulations with regard to handling & disposal of hazardous wastes in accordance with the Hazardous Waste (Management & Handling) Rules, 2003 are completely followed. Hazardous waste generated if any is handed over to authorized vendor for further disposal.
xvii.	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, in any, in the on-site management plan shall be ensured.	Mock drills are being conducted once in every 6 months. Mock drill schedule and training details with photographs are attached as Annexure 4. Mock drill is conducted for all staff, security guards and all workers who are working in the high-risk area (Boiler house, Distillation, TG house,)

xviii.	A separate environmental cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Structure of existing environmental cell is as below, S.D.Bapat (MD) B.Sc, MBA C.K.Jadhav D.M.(B.Sc.Chemist) Ashok Aher (Env. Officer)  Sudhin Kakatkar (B.Sc.) lab Chemist
xix.	Transportation of ash will be through closed containers and all measures shall be taken to prevent spilling of the ash.	Ash is transported through covered containers to avoid spilling. ➤ Ash (0.650 TPD) from the boiler is sold to brick manufacturers for recycling.
xx.	Separate silos will be provided for collecting and storing bottom ash & fly ash.	Separate ash storage of capacity 30 T is provided for storage of Ash. However ash is immediately disposal on daily basis.
xxi.	Separate funds shall be allocated for implementation of environmental protection measures / EMP along with item-wise break-ups. These costs shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditures should be reported to the MPCB & this department.	Total capital cost earmarked towards environmental pollution control measures is Rs. 2.3 Crores.  ESP and accessories Capital cost: 100 Lakhs Air pollution control equipment: 35 Lakhs Solid waste handling system: 10 Lakhs Greenbelt development: 5 Lakhs
xxii.	The project management shall advertise at-least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter informing that the project has been accorded environmental clearance and copies of the clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://envis.maharashtra.gov.in">http://envis.maharashtra.gov.in</a>	Advertisement was given in the local newspaper, however evidence for the same is not available
xxiii.	Project Management should submit half-yearly compliance reports in respect of the stipulated prior environmental clearance terms & conditions in hard and soft copies to the MPCB & this department, on 1 <sup>st</sup> June & 1 <sup>st</sup> December of each calendar year.	Half-yearly compliance reports have not been submitted however only monitoring reports have been submitted. The same shall be submitted regularly here after.
xxiv.	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation & the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied. NA

xxv.	The proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office at MoEF, the respective Zonal Office of CPCB & the SPCB. The criteria pollutant levels namely, SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored & displayed at a convenient location near the main gate of the factory in the public domain.	Complied. Monitoring reports are submitted regularly to respective MPCB & RO offices. The criteria pollutant levels namely, SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored & displayed at a convenient location near the main gate of the factory in the public domain.
xxvi.	The proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office at MoEF, the respective Zonal Office of CPCB & the SPCB.	Complied. Monitoring reports are submitted regularly to respective MPCB & RO offices.
xvii.	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective regional Officers of MoEF by e-mail.	Complied. The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated is submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and the same is also put on the website of the company along with the status of compliance of EC conditions and is sent to the respective regional Officers of MoEF by e-mail.
xviii.	The Environmental Clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.	Noted

Government of Maharashtra

EC (MR)-2009/290/CR.57/TC.1  
Environment department  
Room No. 217, 2<sup>nd</sup> floor,  
Mantralaya Annexe,  
Mumbai 400 032  
Dated: 17<sup>th</sup> February, 2010.

To,  
M/s. Adlers Bio-Energy Ltd.  
Gaurgaon, gat no. 284 Tal: Kalamb,  
District: Osmanabad.

**Subject: 25 KLPD Grain Based Distillery Unit at Gaurgaon, gat no. 284, Tal: Kalamb,  
District: Osmanabad - Environmental clearance regarding.**

Sir,

This has reference to your communication no. Adlers/EC/004205/2008-09 dated 7<sup>th</sup> February, 2010 on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee in its 14<sup>th</sup> meeting and recommended for prior Environment Clearance to State Level Environment Impact Assessment Authority (SEIAA) subject to submission of additional information on the points raised by SEAC. Subsequent information submitted by you, has also been considered by State Level Environment Impact Assessment Authority in its 19<sup>th</sup> meeting held on 27<sup>th</sup> January, 2010.

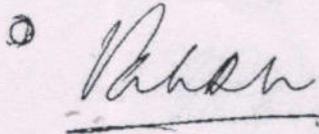
2. It is noted that the proposal is for grant of environmental clearance for 25 KLPD Grain Based Distillery Unit at Gaurgaon, gat no. 284, Tal: Kalamb, District: Osmanabad The project considered by SEAC under Category ' B2 ' of EIA Notification 2006, and screening category is 1(d).

**Project information from documents submitted by you & considered by SEAC & SEIAA is summarized as below:**

**Project:** The system to be adopted by the proposed grain based distillery is based on Batch Fermentation Technology. The process involves:

- Milling
- Mashing, cooking & liquefaction
- Fermentation
- Distillation
- Solid separation
- Evaporation

Name of the Project : 25 KLPD Grain Based Distiller Unit  
Type of Project : Distillery



**Project Proponent** : M/s. Adlers Bio-Energy Ltd  
**Location of the project** : Gaurgaon, gat no. 284 Tal: Kalamb, District: Osmanabad  
Latitude: 18° 3' to 18° 17' N  
Longitude 76° 10' to 76° 17' E  
**Land** : 47 acres  
**Estimated cost of the project** : Rs. 22 Crores

**Production capacity:**

- Alcohol : 25,000 liters/ day

**Raw material requirement:**

- Cereal Grain flour having @ 62 % starch content & 66 -68 MTPD wt starch to produce 25,000 LPD of ENA @ 96 % v/v
- Yield 96.0 vol. %, liter/MT from 62 % starch 415 liters @ 96 % v/v
- Impure spirit cut: not to exceed 6 % of the ENA production.
- Efficiencies : Liquefaction: 97-98 %; Fermentation,: 90 % Distillation: 98.5%

**Water Requirement:**

Total Water requirement: 545 m<sup>3</sup>/ day;  
From MIDC: 250 M3/day

**Wastewater generated:** Plant operation: 103 m<sup>3</sup>/ day. Entire effluent would be treated in Effluent Treatment Plant.

**Solid Waste Management:**

- Suspended solids: 2.0 – 2.5 MT/day
- Boiler ash : 560 – 650 Kg/day

Disposal: sludge can be used as manure.

Fly ash can be used as land filling & manufacturing of bricks.

**Air pollution control measures:**

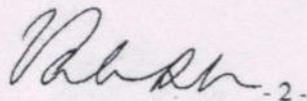
- Water sprinkling on road
- Conveyor belts would be covered with enclosures
- Water spraying system for storage
- Use of low sulphur content coal
- 35 m tall stack with continuous emission monitoring system.
- High efficiency ESP to limit SPM emission to less than 100 Mg/nm<sup>3</sup> with one field out.

**Green belt development:** 30 acers land will be provided for green belt.

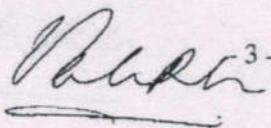
**Environmental Management Plan:** Capital cost will be Rs. 2, 20, 60,000/-

3. The proposal has been considered by SEIAA in its 19<sup>th</sup> meeting dated on 27<sup>th</sup> January, 2010 & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :-

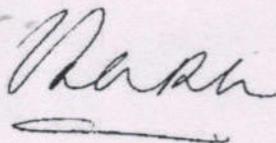
- (i) Project proponent agreed that coal will not be used.
- (ii) "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.

-2-

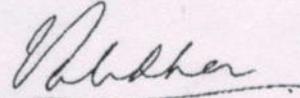
- (iii) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
- (iv) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (v) No fuel other than mentioned above including coal shall be used without obtaining proper permission.
- (vi) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (vii) Regular monitoring of the air quality, including SPM & SO<sub>2</sub> levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- (viii) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (ix) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- (x) Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- (xi) The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. On all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
- (xii) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xiii) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
- (xiv) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xv) Project Proponent shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xvi) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003. Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (xvii) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xviii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xix) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xx) Separate silos will be provided for collecting and storing bottom ash and fly ash.

<sup>3-</sup>

- (xxi) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
- (xxii) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://envvis.maharashtra.gov.in>
- (xxiii) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1<sup>st</sup> June & 1<sup>st</sup> December of each calendar year.
- (xxiv) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xxv) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the factory in the public domain.
- (xxvi) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
- (xxvii) The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
- (xxviii) The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.
4. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
5. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations by the power plant.



6. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
7. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.



(Valsa R Nair Singh)  
Secretary, Environment  
department & MS, SEIAA

Copy to:

1. Shri. Ashok Basak, IAS (Retd.), Chairman, SEIAA, 502, Charleville, 'A' Road, Churchgate, Mumbai- 400 020, Maharashtra.
2. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEAC, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerla.
3. The Secretary, Energy department, Govt. of Maharashtra, Mantralaya, Mumbai - 400032., Maharashtra
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Regional Office, MPCB, Aurangabad
7. Collector, Osmnabad,
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
9. Director(TC-1), Dy. Secretary(TC-2), Scientist-1, Environment department
10. Select file (TC-3).

# MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701

Fax: 24024068 /24023515

Website: <http://mpcb.gov.in>

E-mail: [mpcb@vsnl.net](mailto:mpcb@vsnl.net)



Kalpataru Point, 2<sup>nd</sup> - 4<sup>th</sup> Floor,  
Opp. Cine Planet Cinema,  
Near Sion Circle, Sion (E)  
Mumbai - 400 022

Red/LSI

Date: 17/05/2019

Consent No: Format -1.0/BO/CAC-CELL/UAN No. 0000059473/R/CAC-1905001180

To,  
M/s. Adlers Bio-Energy Ltd.,  
Survery No. - 284/B, A/p- Gurgaon,  
Tal. - Kallamb, Dist. - Osmanabad.

**Subject : Renewal of Consent to Operate of Grain Based Distillery, Blending & Bottling Plant under Red category.**

**Ref** : 1. Consent granted by the Board to existing 30 KLPD Distillery vide no. BO/JD(WPC)/EIC No. AD-17750-15/R/CC-4302 dtd. 23.03.2016.  
2. Minutes of the CAC meeting held on 05.03.2019.

**Your application: 0000059473.**

**Dated: 17.06.2018.**

**For: Renewal of Consent to Operate for 25 KLPD Grain Based Distillery, Blending & Bottling Plant under Red category,** under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, & III annexed to this order:

1. The consent is granted for a period from 01.01.2019 to **31.12.2023.**
2. **Total Capital investment of the industry is Rs. 107.42 Crs.**  
(As per C.A. Certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity	UoM
1	Alcohol (ENA)	750	KL/M
2	DWGS	18.2	MT/D
3	CO2	20	MT/D
4	Indian made Foreign Liquor (IMFL) (Only Blending and Bottling)	18000	Ltrs./D
5	Country Liquor (only Blending and Bottling)	18000	Ltrs./D

**(Distillery Capacity shall not exceed 25 KLPD)**

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

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	42	As per Schedule -I	Zero Liquid Discharge
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.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler	1	As per Schedule-II
2.	D.G. Set (750 KVA)	1	As per Schedule-II
3.	D.G. Set (125 KVA)	1	As per Schedule-II

6. Conditions under Hazardous Waste (M, H & T M) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type of Waste	Category	Quantity	UOM	Disposal
The applicant shall not generate any Hazardous Waste					

7. Non-Hazardous Solid Wastes:

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	Boiler Ash	0.4	MT/D	----	Sale to Brick manufacturing

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

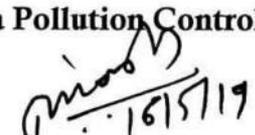
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.

10. Industry shall operate online monitoring system which is installed as per the Directions of CPCB and shall connect/ upload the online monitoring data at MPCB and CPCB server.

11. Industry shall submit/extend bank guarantee of Rs. 5 lakhs towards O & M of pollution control systems and compliance of consent conditions

12. The Consent is issued as per Board's Office Order No. E-736/2019 dtd. 06.05.2019

For and on behalf of the  
Maharashtra Pollution Control Board

  
(P. K. Mirashe)  
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs)	DD/DR. No.	Date	Drawn On
01	Rs. 5,00,000/-	PSBI6847634968	31.10.2018	Punjab National Bank
02	Rs. 5,00,000/-	PSBI6969511555	06.12.2018	Punjab National Bank
03	Rs. 6,24,200/-	PSBI7044613439	28.12.2018	Punjab National Bank

Copy to:

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

**Schedule-I**

**D) Terms & Conditions for compliance of Water Pollution Control**

- 1) A] As per your application, you have provided Effluent Treatment Plant with capacity 40 CMD, comprising of comprises of PH correction tank, aeration tank, Intermediate settling tank, MBBR I & II, secondary settling tank, clarified water tank, pressure sand filter, activated carbon filter and organic scavenging and softener.
- 2) B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr. No.	Parameters	Standards prescribed by Board
		<b>Limiting Concentration in mg/l, except for pH</b>
01	pH	5.5-9.0
02	Oil & Grease	10
03	BOD (3 days 27oC )	30
04	Sulphate	1000
05	Suspended Solids	100
06	COD	250
07	Chloride	600
08	Total Dissolved Solids	2100

- C] The treated trade effluent of distillery uit 40 CMD shall be 100% recycled./ reused to achieve Zero Liquide Discharge and the treated effluent from bottling plant 2 CMD shall be disposed on land for gardening / irrigation. In no case, at any time effluent finds its way to any water body directly or indirectly.
- 3) A] As per your consent application, for the sewage generation you have provided septic tank & soak pit.
- B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.
- |     |                         |                      |            |              |
|-----|-------------------------|----------------------|------------|--------------|
| (1) | <b>Suspended Solids</b> | <b>Not to exceed</b> | <b>100</b> | <b>mg/l.</b> |
| (2) | <b>BOD 3 days 27°C</b>  | <b>Not to exceed</b> | <b>100</b> | <b>mg/l.</b> |
- C] The treated sewage 12 CMD shall be disposed on land for gardening/irrigation.
- 4) The industry shall create Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
- 5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines if applicable.



II) Water Consumption of the Unit: -

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, boiler feed etc.,	390
2.	Domestic purpose	25
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	63
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	—

*Handwritten signature*  
Maharashtra Pollution Control Board

## Schedule-II

### Terms & conditions for compliance of Air Pollution Control

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

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO <sub>2</sub> Kg/Day
1.	Boiler (50 TPH)	Wet scrubber	30	Bagasse	35 MT/Dday	0.2 %	140
2.	D. G. Set (750 KVA)	Acoustic Enclosure	5.0	Diesel	50 Lit/Hr.	1.0 %	24
3.	D. G. Set (125 KVA)	Acoustic Enclosure	5.0	Diesel	20 Lit/Hr.	1.0 %	10

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

Particulate matter	Not to exceed	150 mg/Nm <sup>3</sup>
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4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

### Schedule-III Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Consent to Renewal	Rs. 5.0 Lakhs	15 days	Towards O & M for achieving consented standards of Effluent Stack emission.	31.12.2023	30.04.2024



**Schedule-IV**  
**General Conditions**

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly.
- 3) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW (MH&TM) Rules 2008, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 8) The industry should comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M, H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30<sup>th</sup> June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).**
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website ([www.mpcb.gov.in](http://www.mpcb.gov.in)).
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 16) Conditions for D.G. Set
  - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.

- b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
- f) D.G. Set shall be operated only in case of power failure.
- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 17) The industry should not cause any nuisance in surrounding area.
- 18) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 19) The applicant shall maintain good housekeeping.
- 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31<sup>st</sup> March of the year and number of trees planted by September end.
- 21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 22) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 24) The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 27) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
- 28) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

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# MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437  
Fax: 24023516  
Website: <http://mpcb.gov.in>  
Email: [cac-cell@mpcb.gov.in](mailto: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/CC/UAN No.MPCB-  
CONSENT-0000125009/CO/2204000910

Date: 17/04/2022

To,  
M/s. ADLERS BIO ENERGY LTD, SURVEY NO. 284/B, AT  
POST GAURGAON, OFF LATUR BARSHI HIGHWAY, TAL.  
KALAMB, DIST. OSMANABAD



Your Service is Our Duty

**Sub: Consent to 1st Operate for mfg of Ethanol (RS to Ethanol) in existing Grain Based Distillery of 25 KLPD.**

**Ref:** 1. Existing consent granted vide no. Format1.0/CC/UAN No.MPCB-  
CONSENT-0000113667/CE-2107000796 dated 14.07.2021  
2. Minutes of 18th CC Meeting dtd. 08.03.2022.

Your application No.MPCB-CONSENT-0000125009 Dated 03.11.2021

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

- The consent to operate is granted for a period up to 31/08/2023**
- The capital investment of the project is Rs.3.8397 Crs. (As per C.A Certificate submitted by industry Existing-Rs. 107.42 Crs + Expansion/Increase in C.I. - Rs. 3.8397 Crs.)**
- Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Rectified Spirit (RS) to Ethanol	750	KL/M

**(Existing Grain Based Distillery Capacity shall not exceed 25 KLPD)**

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

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	0	As per Schedule-I	Not Applicable
2.	Domestic effluent	0	As per Schedule-I	Not Applicable

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

<i>Sr No.</i>	<i>Stack No.</i>	<i>Description of stack / source</i>	<i>Number of Stack</i>	<i>Standards to be achieved</i>
NA				

6. **Non-Hazardous Wastes:**

<i>Sr No</i>	<i>Type of Waste</i>	<i>Quantity</i>	<i>UoM</i>	<i>Treatment</i>	<i>Disposal</i>
NA					

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

<i>Sr No</i>	<i>Category No./ Type</i>	<i>Quantity</i>	<i>UoM</i>	<i>Treatment</i>	<i>Disposal</i>
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. Industry shall install online continuous monitoring system as per CPCB guidelines & data to be transmitted directly from Data Logger to Board server .
11. The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent. (Operate/Renewal)



**Received Consent fee of -**

<i>Sr.No</i>	<i>Amount(Rs.)</i>	<i>Transaction/DR.No.</i>	<i>Date</i>	<i>Transaction Type</i>
1	15000.00	TXN2111000247	03/11/2021	Online Payment
2	15000.00	TXN2204000420	05/04/2022	Online Payment

**Copy to:**

1. Regional Officer, MPCB, Aurangabad and Sub-Regional Officer, MPCB, Latur  
- They are directed to ensure the compliance of the consent conditions.  
- They are directed to extend the existing B.G of the industry
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CC-CAC desk - for record & website updation.

## **SCHEDULE-I**

### **Terms & conditions for compliance of Water Pollution Control:**

#### **1. Conditions for Trade effluent:**

- A] Industry shall provide CPU for recycle/reuse of treated effluent.
- B] 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

#### **2. Conditions for Sewage/ Domestic effluent:**

- i. You shall provide sewage treatment plant for the treatment of 0 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	100
3.	TSS	100

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

3. 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:

<b>Sr. No.</b>	<b>Purpose for water consumed</b>	<b>Water consumption quantity (CMD)</b>
1.	Industrial Cooling, spraying in mine pits or boiler feed	0.00
2.	Domestic purpose	0.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
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 provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO <sub>2</sub>
NA	NA	NA	0	NA	0 --NA--	--	--

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 <sup>3</sup>
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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	Consent to Operate	5.0 Lakhs	extend the Existing	Towards O&M of PCS and compliance of Consent condition	31.08.2023	31.12.2023

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

8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. The PP shall provide personal protection equipment as per norms of Factory Act
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website ([www.mpcb.gov.in](http://www.mpcb.gov.in)).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.

23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
25. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

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**This certificate is digitally & electronically signed.**

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# **Annexures**

Format No. EME/LAB/Format 7.8/TR

**Test Report**

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address		Sample Details	
M/s. Alders Bio-Energy Ltd., Survey No ~ 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	Sample Code	MITCON/2024-25/May/5020/1	
	Name of Sample	Ground water	
	Sample Details	Gaurgaon bore Well	
	Container Details	2 lit Plastic Can + 100 ml Sterile bottle	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025 (Part I)	
	Sample Collected On	20/05/2024	
	Date of Sample Receipt	21/05/2024	
	Analysis Start Date	21/05/2024	
End Date of Analysis	27/05/2024		

**ANALYSIS RESULTS**

Sr. No	Parameters	Results	Unit	IS:10500:2012 Required Standards	Test Methods
<b>CHEMICAL POTABILITY</b>					
1.	pH at 25 °C	7.28	-	6.50 to 8.50	APHA 4500 H+, A, 4-95, 23 <sup>rd</sup> Ed.2017.
2	Temperature	25.7	°C	N.S.	APHA 2550 B,2-69 to 2-70 ,23 <sup>rd</sup> Ed.2017.
3	Electrical Conductivity at 25 °C	664	µS/cm	N.S.	APHA 2510 B,2-56 to 2-58 ,23 <sup>rd</sup> Ed.2017.
4	Turbidity	<1.0	NTU	≤ 1	IS: 3025 Part-10 (Rev.1,RA:2012)
5	Total Dissolved Solids	402	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23 <sup>rd</sup> Ed.2017.
6	Total Solids	405	mg/l	N.S.	APHA 2540 C, 2-68 to 2-69, 23 <sup>rd</sup> Ed.2017.
7	Total suspended Solids	<5	mg/l	N.S	APHA 2540 D ,2-70 to 2-71 23 <sup>rd</sup> Ed 2017
8	Acidity as CaCO <sub>3</sub>	<5	mg/l	N.S.	IS 3025 (part 22),1986,(Rev 1R.A.2014)
9	Total Alkalinity as CaCO <sub>3</sub>	131.15	mg/l	≤ 200	APHA 2320 B, 2-37 to 2-3923 <sup>rd</sup> Ed.2017..
10	Total Hardness as CaCO <sub>3</sub>	154.14	mg/l	≤ 200	APHA 2340 C ,2-48 to 2-50,23 <sup>rd</sup> Ed.2017.
11	Calcium as Ca	28.50	mg/l	≤ 75	APHA 3500 Ca B, 3-.69 to 3-70,23 <sup>rd</sup> Ed.2017.
12	Magnesium as Mg	12.16	mg/l	≤ 30	APHA 3500 Mg B, 3-.86 ,23 <sup>rd</sup> Ed.2017.
13	Chloride as Cl <sup>-</sup>	38.14	mg/l	≤ 250	APHA 4500 Cl B,4-75 to 4-76,23 <sup>rd</sup> Ed.2017.
14	Sulphates as SO <sub>4</sub>	31.10	mg/l	≤ 200	APHA 4500 SO4-E,4-199 to 4-200 23 <sup>rd</sup> Ed.2017.
15	Nitrate as NO <sub>3</sub>	4.20	mg/l	≤ 45	APHA 4500 NO <sub>3</sub> - B 4-127 23 <sup>rd</sup> Ed.2017.
16	Ammonical Nitrogen as NH <sub>4</sub> -N	<0.1	mg/l	N.S.	APHA 4500 NH <sub>3</sub> F, 4-119 to 4-120 23 <sup>rd</sup> Ed.2017.
17	Total Kjeldahl Nitrogen as NH <sub>3</sub> -N	<1	mg/l	N.S.	APHA 4500 N org B and 4500 N-NH <sub>3</sub> C
18	salinity	0.065	ppt	N.S.	By Calculation
19	Fluoride as F	<0.1	mg/l	≤ 1.0	APHA 4500 F-D 4-90 to 4-91 ,23 <sup>rd</sup> Ed.2017.
20	Total Phosphorous	<1	mg/l	N.S.	APHA 4500 P-C4-162, 23 <sup>rd</sup> Ed.2017.
21	Silica as SiO <sub>2</sub>	8.20	mg/l	N.S.	APHA 4500 SIO <sub>2</sub> , C 4-175 to 4-177 ,23 <sup>rd</sup> Ed.2017.

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**Test Report****Report Number : MITCON/2024-25/May/5020****Issue Date: 27/05/2024**

22	Sodium as Na	7.0	mg/l	N.S.	APHA 3111B, 3-20 to 3-21 , 23 <sup>rd</sup> Ed.2017.(AAS)
23	Potassium as K	1.65	mg/l	N.S.	APHA 3111B, 3-20 to 3-21 ,23 <sup>rd</sup> Ed.2017. (AAS)
24	Hexavalent Chromium (as Cr6+)	<0.02	mg/l	N.S.	APHA 3500 Cr-B 3-71 23 <sup>rd</sup> Ed.2017.
25	Iron (as Fe)	<0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 to 3-21 , 23 <sup>rd</sup> Ed.2017.
26	Copper (as Cu)	<0.04	mg/l	≤ 0.05	APHA 3111 B, 3-18 to 3-21 , 23 <sup>rd</sup> Ed.2017. (AAS)
27	Nickel	<0.01	mg/l	≤ 0.01	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
28	Zinc as Zn	<0.05	mg/l	≤ 5	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
29	Manganese	<0.1	mg/l	≤ 0.1	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
30	Chromium	<0.03	mg/l	≤ 0.05	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
31	Lead	<0.01	mg/l	≤ 0.01	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
32	cadmium	<0.003	mg/l	≤ 0.003	APHA 3111 B, 3-18 TO 3-2123 <sup>rd</sup> Ed.2017.(AAS)
33	Phenol	<0.001	mg/l	≤ 0.001	IS 3025 (Part 43)(Rev 1:R.A: 2014
<b>BACTERIOLOGICAL POTABILITY</b>					
01	Total Coliforms	Absent	per100 ml	Absent	IS: 1622 (R.A 1 2014)
02	Faecal coliform	Absent	per100 ml	Absent	IS: 1622 (R.A 1 2014)

For MITCON Consultancy &amp; Engineering Services Ltd.

*Kadambari*  
Checked By  
(Mrs. Kadambari Deshmukh)



*Dr. Sandeep*

Authorized Signatory  
Dr. Sandeep Jadhav  
(Quality Manager/HOD)

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**Test Report**

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address		Sample Details	
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	Sample Code	MITCON/2024-25/May/5020/2	
	Name of Sample	Ground water	
	Sample Details	Nipani bore Well	
	Container Details	2 lit Plastic Can + 100 ml Sterile bottle	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025 (Part I)	
	Sample Collected On	20/05/2024	
	Date of Sample Receipt	21/05/2024	
	Analysis Start Date	21/05/2024	
	End Date of Analysis	27/05/2024	

**ANALYSIS RESULTS**

Sr. No	Parameters	Results	Unit	IS:10500:2012 Required Standards	Test Methods
<b>CHEMICAL POTABILITY</b>					
1.	pH at 25 °C	7.28	-	6.50 to 8.50	APHA 4500 H+, A, 4-95, 23 <sup>rd</sup> Ed.2017.
2	Temperature	26.4	°C	N.S.	APHA 2550 B,2-69 to 2-70 ,23 <sup>rd</sup> Ed.2017.
3	Electrical Conductivity at 25 °C	700.5	µS/cm	N.S.	APHA 2510 B,2-56 to 2-58 ,23 <sup>rd</sup> Ed.2017.
4	Turbidity	<1.0	NTU	≤ 1	IS: 3025 Part-10 (Rev.1,RA:2012)
5	Total Dissolved Solids	420.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23 <sup>rd</sup> Ed.2017.
6	Total Solids	423.0	mg/l	N.S.	APHA 2540 C, 2-68 to 2-69, 23 <sup>rd</sup> Ed.2017.
7	Total suspended Solids	<5	mg/l	N.S	APHA 2540 D ,2-70 to 2-71 23 <sup>rd</sup> Ed 2017
8	Acidity as CaCO <sub>3</sub>	<5	mg/l	N.S.	IS 3025 (part 22),1986,(Rev 1R.A.2014)
9	Total Alkalinity as CaCO <sub>3</sub>	138.10	mg/l	≤ 200	APHA 2320 B, 2-37 to 2-3923 <sup>rd</sup> Ed.2017..
10	Total Hardness as CaCO <sub>3</sub>	160.30	mg/l	≤ 200	APHA 2340 C ,2-48 to 2-50,23 <sup>rd</sup> Ed.2017.
11	Calcium as Ca	40.21	mg/l	≤ 75	APHA 3500 Ca B, 3.-69 to 3-70,23 <sup>rd</sup> Ed.2017.
12	Magnesium as Mg	20.13	mg/l	≤ 30	APHA 3500 Mg B, 3.-86 ,23 <sup>rd</sup> Ed.2017.
13	Chloride as Cl <sup>-</sup>	31.16	mg/l	≤ 250	APHA 4500 Cl B,4-75 to 4-76,23 <sup>rd</sup> Ed.2017.
14	Sulphates as SO <sub>4</sub>	27.24	mg/l	≤ 200	APHA 4500 SO4-E,4-199 to 4-200 23 <sup>rd</sup> Ed.2017.
15	Nitrate as NO <sub>3</sub>	7.22	mg/l	≤ 45	APHA 4500 NO <sub>3</sub> - B 4-127 23 <sup>rd</sup> Ed.2017.
16	Ammonical Nitrogen as NH <sub>4</sub> -N	<0.1	mg/l	N.S.	APHA 4500 NH <sub>3</sub> F, 4-119 to 4-120 23 <sup>rd</sup> Ed.2017.
17	Total Kjeldahl Nitrogen as NH <sub>3</sub> -N	<1	mg/l	N.S.	APHA 4500 N org B and 4500 N-NH <sub>3</sub> C
18	salinity	0.051	ppt	N.S.	By Calculation
19	Fluoride as F	<0.1	mg/l	≤ 1.0	APHA 4500 F-D 4-90 to 4-91 ,23 <sup>rd</sup> Ed.2017.
20	Total Phosphorous	<1	mg/l	N.S.	APHA 4500 P-C4-162, 23 <sup>rd</sup> Ed.2017.
21	Silica as SiO <sub>2</sub>	3.70	mg/l	N.S.	APHA 4500 SIO <sub>2</sub> , C 4-175 to 4-177 ,23 <sup>rd</sup> Ed,2017.

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**Test Report**

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

22	Sodium as Na	10.4	mg/l	N.S.	APHA 3111B, 3-20 to 3-21 , 23 <sup>rd</sup> Ed.2017.(AAS)
23	Potassium as K	1.14	mg/l	N.S.	APHA 3111B, 3-20 to 3-21 ,23 <sup>rd</sup> Ed.2017. (AAS)
24	Hexavalent Chromium (as Cr6+)	<0.02	mg/l	N.S.	APHA 3500 Cr-B 3-71 23 <sup>rd</sup> Ed.2017.
25	Iron (as Fe)	<0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 to 3-21 , 23 <sup>rd</sup> Ed.2017.
26	Copper (as Cu)	<0.04	mg/l	≤ 0.05	APHA 3111 B, 3-18 to 3-21 , 23 <sup>rd</sup> Ed.2017. (AAS)
27	Nickel	<0.01	mg/l	≤ 0.01	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
28	Zinc as Zn	<0.05	mg/l	≤ 5	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
29	Manganese	<0.1	mg/l	≤ 0.1	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
30	Chromium	<0.03	mg/l	≤ 0.05	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
31	Lead	<0.01	mg/l	≤ 0.01	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
32	cadmium	<0.003	mg/l	≤ 0.003	APHA 3111 B, 3-18 TO 3-2123 <sup>rd</sup> Ed.2017.(AAS)
33	Phenol	<0.001	mg/l	≤ 0.001	IS 3025 (Part 43)(Rev 1:R.A: 2014
<b>BACTERIOLOGICAL POTABILITY</b>					
01	Total Coliforms	Absent	per100 ml	Absent	IS: 1622 (R.A 1 2014)
02	Faecal coliform	Absent	per100 ml	Absent	IS: 1622 (R.A 1 2014)

For MITCON Consultancy & Engineering Services Ltd.

Checked By  
(Mrs. Kadambari Deshmukh)



Authorized Signatory  
Dr. Sandeep Jadhav  
(Quality Manager/HOD)

Client's Name & Address	Sample Details	
M/s. Alders Bio-Energy Ltd.,	Sample Code	MITCON/2024-25/May/5020/3

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**Test Report**

Report Number : MITCON/2024-25/May/5020

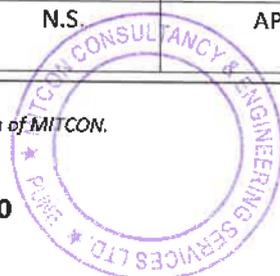
Issue Date: 27/05/2024

Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	<b>Name of Sample</b>	Ground water
	<b>Sample Details</b>	Hasegaon Bore Well
	<b>Container Details</b>	2 lit Plastic Can + 100 ml Sterile bottle
	<b>Sample Collected By</b>	MITCON
	<b>Method of sampling</b>	IS 3025 (Part I)
	<b>Sample Collected On</b>	20/05/2024
	<b>Date of Sample Receipt</b>	21/05/2024
	<b>Analysis Start Date</b>	21/05/2024
	<b>End Date of Analysis</b>	27/05/2024

**ANALYSIS RESULTS**

Sr. No	Parameters	Results	Unit	IS:10500:2012 Required Standards	Test Methods
<b>CHEMICAL POTABILITY</b>					
1.	pH at 25 °C	7.30	-	6.50 to 8.50	APHA 4500 H+, A, 4-95, 23 <sup>rd</sup> Ed.2017.
2	Temperature	26.8	°C	N.S.	APHA 2550 B,2-69 to 2-70 ,23 <sup>rd</sup> Ed.2017.
3	Electrical Conductivity at 25 °C	750.0	µS/cm	N.S.	APHA 2510 B,2-56 to 2-58 ,23 <sup>rd</sup> Ed.2017.
4	Turbidity	<1.0	NTU	≤ 1	IS: 3025 Part-10 (Rev.1,RA:2012)
5	Total Dissolved Solids	442.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23 <sup>rd</sup> Ed.2017.
6	Total Solids	445.0	mg/l	N.S.	APHA 2540 C, 2-68 to 2-69, 23 <sup>rd</sup> Ed.2017.
7	Total suspended Solids	<5	mg/l	N.S	APHA 2540 D ,2-70 to 2-71 23 <sup>rd</sup> Ed 2017
8	Acidity as CaCO <sub>3</sub>	<5	mg/l	N.S.	IS 3025 (part 22),1986,(Rev 1R.A.2014)
9	Total Alkalinity as CaCO <sub>3</sub>	146.13	mg/l	≤ 200	APHA 2320 B, 2-37 to 2-3923 <sup>rd</sup> Ed.2017..
10	Total Hardness as CaCO <sub>3</sub>	160.25	mg/l	≤ 200	APHA 2340 C ,2-48 to 2-50,23 <sup>rd</sup> Ed.2017.
11	Calcium as Ca	58.11	mg/l	≤ 75	APHA 3500 Ca B, 3.-69 to 3-70,23 <sup>rd</sup> Ed.2017.
12	Magnesium as Mg	23.20	mg/l	≤ 30	APHA 3500 Mg B, 3.-86 ,23 <sup>rd</sup> Ed.2017.
13	Chloride as Cl <sup>-</sup>	27.41	mg/l	≤ 250	APHA 4500 Cl B,4-75 to 4-76,23 <sup>rd</sup> Ed.2017.
14	Sulphates as SO <sub>4</sub>	20.22	mg/l	≤ 200	APHA 4500 SO4-E,4-199 to 4-200 23 <sup>rd</sup> Ed.2017.
15	Nitrate as NO <sub>3</sub>	5.43	mg/l	≤ 45	APHA 4500 NO3 - B 4-127 23 <sup>rd</sup> Ed.2017.
16	Ammonical Nitrogen as NH <sub>4</sub> -N	<0.1	mg/l	N.S.	APHA 4500 NH <sub>3</sub> F, 4-119 to 4-120 23 <sup>rd</sup> Ed.2017.
17	Total Kjeldahl Nitrogen as NH <sub>3</sub> -N	<1	mg/l	N.S.	APHA 4500 N org B and 4500 N-NH <sub>3</sub> C
18	salinity	0.046	ppt	N.S.	By Calculation
19	Fluoride as F	<0.1	mg/l	≤ 1.0	APHA 4500 F-D 4-90 to 4-91 ,23 <sup>rd</sup> Ed.2017.
20	Total Phosphorous	<1	mg/l	N.S.	APHA 4500 P-C4-162, 23 <sup>rd</sup> Ed.2017.
21	Silica as SiO <sub>2</sub>	7.10	mg/l	N.S.	APHA 4500 SiO <sub>2</sub> , C 4-175 to 4-177 ,23 <sup>rd</sup> Ed.2017.
22	Sodium as Na	11.6	mg/l	N.S.	APHA 3111B, 3-20 to 3-21 , 23 <sup>rd</sup> Ed.2017.(AAS)

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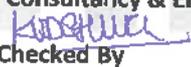
**Test Report**

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

23	Potassium as K	<1.0	mg/l	N.S.	APHA 3111B, 3-20 to 3-21 ,23 <sup>rd</sup> Ed.2017. (AAS)
24	Hexavalent Chromium (as Cr6+)	<0.02	mg/l	N.S.	APHA 3500 Cr-B 3-71 23 <sup>rd</sup> Ed.2017.
25	Iron (as Fe)	<0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 to 3-21 , 23 <sup>rd</sup> Ed.2017.
26	Copper (as Cu)	<0.04	mg/l	≤ 0.05	APHA 3111 B, 3-18 to 3-21 , 23 <sup>rd</sup> Ed.2017. (AAS)
27	Nickel	<0.01	mg/l	≤ 0.01	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
28	Zinc as Zn	<0.05	mg/l	≤ 5	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
29	Manganese	<0.1	mg/l	≤ 0.1	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
30	Chromium	<0.03	mg/l	≤ 0.05	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
31	Lead	<0.01	mg/l	≤ 0.01	APHA 3111 B, 3-18 TO 3-21, 23 <sup>rd</sup> Ed.2017.(AAS)
32	cadmium	<0.003	mg/l	≤ 0.003	APHA 3111 B, 3-18 TO 3-2123 <sup>rd</sup> Ed.2017.(AAS)
33	Phenol	<0.001	mg/l	≤ 0.001	IS 3025 (Part 43)(Rev 1:R.A: 2014
<b>BACTERIOLOGICAL POTABILITY</b>					
01	Total Coliforms	Absent	per100 ml	Absent	IS: 1622 (R.A 1 2014)
02	Faecal coliform	Absent	per100 ml	Absent	IS: 1622 (R.A 1 2014)

For MITCON Consultancy &amp; Engineering Services Ltd.

  
Checked By  
(Mrs. Kadambari Deshmukh)



  
Authorized Signatory  
Dr. Sandeep Jadhav  
(Quality Manager/HOD)

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Format No. EME/LAB/Format 7.8/TR

**Test Report**

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address	Sample Details	
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	Sample Code	MITCON/2024-25/May/5020/4
	Name of Sample	Soil
	Sample Details	Factory gate
	Container Details	1 kg plastic bag
	Sample Collected By	MITCON
	Sample Collected On	20/05/2024
	Date of Sample Receipt	21/05/2024
	Analysis Start Date	21/05/2024
	End Date of Analysis	27/05/2024

**ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Test Method
01	Texture	Silt Loam	-	ISRIC Soil Analysis Manual
02	Percentage Of Different Components			
	sand	39	%	ISRIC Soil Analysis Manual
	Silt	35	%	
	Clay	36	%	
03	Soil Moisture	4.36	%	IS 2720 Part II:1973
04	Bulk Density	1.12	gm/cm <sup>3</sup>	IS 2720 (Part XXIX):1975
05	Water Holding Capacity	42.3	%	IS 14765:2000
06	pH	7.76	-	IS 2720 (Part 26) 1987,Rev..2,Reaff 2011
07	Conductivity	718.8	µs/cm	IS 14767,2000,Reaff 2016
08	Organic Carbon	0.54	%	IS 2720 (Part 22)
09	Calcium (as Ca)	65.21	mg/kg	ISRIC Soil Analysis Manual
10	Magnesium (as Mg)	31.4	mg/kg	ISRIC Soil Analysis Manual
11	Available Nitrogen	147.54	kg/ha	ISRIC Soil Analysis Manual
12	Phosphorous (as P)	17.40	kg/ha	ISRIC Soil Analysis Manual
13	Potassium (as K)	150.41	kg/ha	ISRIC Soil Analysis Manual
14	Iron (as Fe)	1.15	mg/kg	ISRIC Soil Analysis Manual
15	Zinc (as Zn)	0.63	mg/kg	ISRIC Soil Analysis Manual
16	Copper (as Cu)	<0.04	mg/kg	ISRIC Soil Analysis Manual
17	Sodium	27.4	mg/kg	ISRIC Soil Analysis Manual
18	Manganese (as Mn)	0.36	mg/kg	ISRIC Soil Analysis Manual
19	Total Chromium (as Cr)	<0.05	mg/kg	ISRIC Soil Analysis Manual
20	Nickel (as Ni)	0.27	mg/kg	ISRIC Soil Analysis Manual
21	Cadmium (as Cd)	<0.05	mg/kg	ISRIC Soil Analysis Manual
22	Lead (as Pb)	<0.1	mg/kg	ISRIC Soil Analysis Manual
23	Sodium Absorption Ratio	1.50	-	EME/LAB/SOIL/SAR

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)

Authorized Signatory

Dr. Sandeep Jadhav

(Quality Manager/HOD)

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**Test Report**

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address	Sample Details	
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	Sample Code	MITCON/2024-25/May/5020/5
	Name of Sample	Soil
	Sample Details	Nipani
	Container Details	1 kg plastic bag
	Sample Collected By	MITCON
	Sample Collected On	20/05/2024
	Date of Sample Receipt	21/05/2024
	Analysis Start Date	21/05/2024
	End Date of Analysis	27/05/2024

**ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Test Method
01	Texture	Silt Loam	-	ISRIC Soil Analysis Manual
02	Percentage Of Different Components			
	sand	37	%	ISRIC Soil Analysis Manual
	Silt	35	%	
	Clay	28	%	
03	Soil Moisture	9.12	%	IS 2720 Part II1973
04	Bulk Density	1.10	gm/cm <sup>2</sup>	IS 2720 (Part XXIX)1975
05	Water Holding Capacity	41.4	%	IS 14765:2000
06	pH	7.76	--	IS 2720 (Part 26) 1987,Rev..2,Reaff 2011
07	Conductivity	709.5	µs/cm	IS 14767,2000,Reaff 2016
08	Organic Carbon	0.42	%	IS 2720 (Part 22)
09	Calcium (as Ca)	72.3	mg/kg	ISRIC Soil Analysis Manual
10	Magnesium (as Mg)	27.4	mg/kg	ISRIC Soil Analysis Manual
11	Available Nitrogen	131.7	kg/ha	ISRIC Soil Analysis Manual
12	Phosphorous (as P)	17.6	kg/ha	ISRIC Soil Analysis Manual
13	Potassium (as K)	154.5	kg/ha	ISRIC Soil Analysis Manual
14	Iron (as Fe)	2.07	mg/kg	ISRIC Soil Analysis Manual
15	Zinc (as Zn)	0.74	mg/kg	ISRIC Soil Analysis Manual
16	Copper (as Cu)	0.40	mg/kg	ISRIC Soil Analysis Manual
17	Sodium	30.4	mg/kg	ISRIC Soil Analysis Manual
18	Manganese (as Mn)	0.16	mg/kg	ISRIC Soil Analysis Manual
19	Total Chromium (as Cr)	<0.05	mg/kg	ISRIC Soil Analysis Manual
20	Nickel (as Ni)	0.26	mg/kg	ISRIC Soil Analysis Manual
21	Cadmium (as Cd)	<0.05	mg/kg	ISRIC Soil Analysis Manual
22	Lead (as Pb)	<0.1	mg/kg	ISRIC Soil Analysis Manual
23	Sodium Absorption Ratio	1.58	-	EME/LAB/SOIL/SAR

For MITCON Consultancy & Engineering Services Ltd.

*(Signature)*  
Checked By  
(Mrs. Kadambari Deshmukh)



*(Signature)*  
Authorized Signatory  
Dr. Sandeep Jadhav  
(Quality Manager/HOD)

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**Test Report**

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address	Sample Details	
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	Sample Code	MITCON/2024-25/May/5020/6
	Name of Sample	Soil
	Sample Details	gaurgaon
	Container Details	1 kg plastic bag
	Sample Collected By	MITCON
	Sample Collected On	20/05/2024
	Date of Sample Receipt	21/05/2024
	Analysis Start Date	21/05/2024
	End Date of Analysis	27/05/2024

**ANALYSIS RESULTS**

Sr. No	Parameters	Results	Unit	Test Method
01	Texture	Silt Loam	-	ISRIC Soil Analysis Manual
02	Percentage Of Different Components			
	sand	38	%	ISRIC Soil Analysis Manual
	Silt	37	%	
	Clay	25	%	
03	Soil Moisture	10.6	%	IS 2720 Part II 1973
04	Bulk Density	1.08	gm/cm <sup>2</sup>	IS 2720 (Part XXIX) 1975
05	Water Holding Capacity	57.4	%	IS 14765:2000
06	pH	7.40	--	IS 2720 (Part 26) 1987, Rev..2, Reaff 2011
07	Conductivity	736.50	µs/cm	IS 14767, 2000, Reaff 2016
08	Organic Carbon	0.29	%	IS 2720 (Part 22)
09	Calcium (as Ca)	90.30	mg/kg	ISRIC Soil Analysis Manual
10	Magnesium (as Mg)	30.16	mg/kg	ISRIC Soil Analysis Manual
11	Available Nitrogen	115.20	kg/ha	ISRIC Soil Analysis Manual
12	Phosphorous (as P)	18.14	kg/ha	ISRIC Soil Analysis Manual
13	Potassium (as K)	130.21	kg/ha	ISRIC Soil Analysis Manual
14	Iron (as Fe)	1.80	mg/kg	ISRIC Soil Analysis Manual
15	Zinc (as Zn)	0.34	mg/kg	ISRIC Soil Analysis Manual
16	Copper (as Cu)	<0.04	mg/kg	ISRIC Soil Analysis Manual
17	Sodium	34.6	mg/kg	ISRIC Soil Analysis Manual
18	Manganese (as Mn)	0.36	mg/kg	ISRIC Soil Analysis Manual
19	Total Chromium (as Cr)	<0.05	mg/kg	ISRIC Soil Analysis Manual
20	Nickel (as Ni)	<0.01	mg/kg	ISRIC Soil Analysis Manual
21	Cadmium (as Cd)	<0.05	mg/kg	ISRIC Soil Analysis Manual
22	Lead (as Pb)	<0.1	mg/kg	ISRIC Soil Analysis Manual
23	Sodium Absorption Ratio	1.72	-	EME/LAB/SOIL/SAR

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)

Authorized Signatory

Dr. Sandeep Jadhav  
(Quality Manager/HOD)

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## Test Report

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address	Reference No.	MITCON/2024-25/May/5020/8
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	Date of Monitoring	20/05/2024
	Type of Monitoring	Ambient Air
	Test Location	Near Factory Gate
	Monitoring Done By	MITCON
	Date of Analysis	21/05/2024

## OBSERVATION

Ambient Temp.°C	Dry Bulb Temp.°C	Wet Bulb Temp.°C	Relative Humidity % RH	Sampling Time In Hrs.	Sampling Duration In Min
34	34	21	36	11:00	480

## RESULT

Sr. No.	Description	Unit	Results	NAAQ Standards	Standard method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.32	≤ 80	IS:5182(Part 2)-2001
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	21.41	≤ 80	IS:5182(Part 6)-2006
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	64.26	≤ 100	IS:5182(Part 23)-2006
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	25.70	≤ 60	USEPA(40CFR ch-1)Appendix L to part 50
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	24.6	≤ 180	IS 5182(Part 9)-1974
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	Methods of air sampling and analysis method no 822 3rd Ed:1989
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.73	≤ 4.0	Manual instruction
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	BDL	≤ 400	Methods of air sampling and analysis method no 401 3rd Ed 1989
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182(Part 11):2006
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182(Part 12):2004
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	Methods of Air sampling and analysis method no 302 3rd Ed:1989
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	Methods of Air sampling and analysis method no 822 3rd Ed:1989

## REMARKS/OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL - Below detectable Limit.

For MITCON Consultancy &amp; Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory

Dr. Sandeep Jadhav  
(Quality Manager/HOD)

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## Test Report

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address	Reference No.	MITCON/2024-25/May/5020/9
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	Date of Monitoring	20/05/2024
	Type of Monitoring	Ambient Air
	Test Location	Village Gaurgaon
	Monitoring Done By	MITCON
	Date of Analysis	21/05/2024

## OBSERVATION

Ambient Temp.°C	Dry Bulb Temp.°C	Wet Bulb Temp.°C	Relative Humidity % RH	Sampling Time In Hrs.	Sampling Duration In Min
34	34	21	36	11:45	480

## RESULT

Sr. No.	Description	Unit	Results	NAAQ Standards	Standard method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	10.52	≤ 80	IS:5182(Part 2)-2001
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	16.12	≤ 80	IS:5182(Part 6)-2006
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	59.24	≤ 100	IS:5182(Part 23)-2006
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	24.28	≤ 60	USEPA(40CFR ch-1)Appendix L to part 50
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	27.4	≤ 180	IS 5182(Part 9)-1974
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	Methods of air sampling and analysis method no 822 3rd Ed:1989
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.72	≤ 4.0	Manual instruction
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	BDL	≤ 400	Methods of air sampling and analysis method no 401 3rd Ed 1989
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182(Part 11):2006
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182(Part 12):2004
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	Methods of Air sampling and analysis method no 302 3rd Ed:1989
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	Methods of Air sampling and analysis method no 822 3rd Ed:1989

## REMARKS/OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL - Below detectable Limit.

For MITCON Consultancy &amp; Engineering Services Ltd.

  
Checked By  
(Mrs. Kadambari Deshmukh)

  
Authorized Signatory  
Dr. Sandeep Jadhav  
(Quality Manager/HOD)

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## Test Report

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address	Reference No.	MITCON/2024-25/May/5020/10
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gargaon, Tal – Kallamb, Dist – Osmanabad.	Date of Monitoring	20/05/2024
	Type of Monitoring	Ambient Air
	Test Location	Village Nipani
	Monitoring Done By	MITCON
	Date of Analysis	21/05/2024

## OBSERVATION

Ambient Temp.°C	Dry Bulb Temp.°C	Wet Bulb Temp.°C	Relative Humidity % RH	Sampling Time In Hrs.	Sampling Duration In Min
34	34	21	36	12:20	480

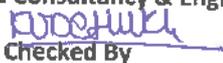
## RESULT

Sr. No.	Description	Unit	Results	NAAQ Standards	Standard method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	14.23	≤ 80	IS:5182(Part 2)-2001
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	20.44	≤ 80	IS:5182(Part 6)-2006
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	60.12	≤ 100	IS:5182(Part 23)-2006
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	29.63	≤ 60	USEPA(40CFR ch-1)Appendix L to part 50
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	24.6	≤ 180	IS 5182(Part 9)-1974
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	Methods of air sampling and analysis method no 822 3rd Ed:1989
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.13	≤ 4.0	Manual instruction
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	BDL	≤ 400	Methods of air sampling and analysis method no 401 3rd Ed 1989
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182(Part 11):2006
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182(Part 12):2004
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	Methods of Air sampling and analysis method no 302 3rd Ed:1989
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	Methods of Air sampling and analysis method no 822 3rd Ed:1989

## REMARKS/OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL - Below detectable Limit.

For MITCON Consultancy &amp; Engineering Services Ltd.

  
Checked By  
(Mrs. Kadambari Deshmukh)



  
Authorized Signatory

Dr. Sandeep Jadhav  
(Quality Manager/HOD)

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## Test Report

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address	Reference No.	MITCON/2024-25/May/5020/11
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	Date of Monitoring	20/05/2024
	Type of Monitoring	Workzone Air
	Test Location	Boiler House Area
	Monitoring Done By	MITCON
	Date of Analysis	21/05/2024

## OBSERVATION

Ambient Temp.°C	Dry Bulb Temp.°C	Wet Bulb Temp.°C	Relative Humidity % RH	Sampling Time In Hrs.	Sampling Duration In Min
34	34	21	36	11:35	60

## RESULTS

Sr. No.	Description	Unit	Results	The Factories Act 1948, Standards
1	Suspended Particulate Matter	µg/M <sup>3</sup>	14.30	N.S.
2	Sulphur Dioxide	µg/M <sup>3</sup>	5.23	≤ 5000
3	Oxides of Nitrogen	µg/M <sup>3</sup>	11.40	≤ 6000
4	Carbon Monoxide	ppm	3.0	≤ 50
5	Carbon Dioxide	%	0.07	N.S.

## REMARKS / OBSERVATIONS:

- All above results are within The Factories Act, 1948 Standards.
- N.S. – Not Specified.

For MITCON Consultancy &amp; Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



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## Test Report

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address	Reference No.	MITCON/2024-25/May/5020/12
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	Date of Monitoring	20/05/2024
	Type of Monitoring	Source Emission
	Test Location	S-1 Boiler 20 TPH (Coal Base)
	Monitoring Done By	MITCON
	Date of Analysis	21/05/2024

## OBSERVATION

Sr. No.	Parameters	Unit	Results
01	Time of Sampling	Hrs	15:30
02	Material of Stack	--	MS
03	Stack Height from G.L.	Mtr.	35.0
04	Type of Stack	--	Round
05	Flue Gas Temperature	°K	435
06	Differential Pressure	mmWG	1.7
07	Velocity	M/s	4.99
08	Dimensions of Stack (ID)	Mtr.	1.5
09	Stack Area	M <sup>2</sup>	1.766
10	Gas Volume	NM <sup>3</sup> /Hr	20952.43

## RESULT

Sr. No.	Description	Unit	Results	MPCB Limits
01	Particulate Matter	Mg/NM <sup>3</sup>	86.2	≤ 150.00
02	Sulphur Dioxide	Mg/NM <sup>3</sup>	120.0	--
03	Sulphur Dioxide	Kg/day	64.05	≤ 140.00
04	Oxides Of Nitrogen	Mg/NM <sup>3</sup>	143.8	--
05	Carbon Monoxide	Mg/NM <sup>3</sup>	246.2	--

## REMARKS/OBSERVATIONS:

- All above results are within MPCB limits.

For MITCON Consultancy &amp; Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory

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**Test Report**

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

<b>Client's Name &amp; Address</b>	<b>Reference No.</b>	MITCON/2024-25/May/5020/13
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	<b>Date of Monitoring</b>	20/05/2024
	<b>Type of Monitoring</b>	Source Emission
	<b>Test Location</b>	S-2 750 KVA DG Set
	<b>Monitoring Done By</b>	MITCON
	<b>Date of Analysis</b>	21/05/2024

**OBSERVATION**

Sr. No.	Parameters	Unit	Results
01	Time of Sampling	Hrs	16:00
02	Material of Stack	--	MS
03	Stack Height from G.L.	Mtr.	5.0
04	Type of Stack	--	Round
05	Flue Gas Temperature	°K	465
06	Differential Pressure	mmWG	8.5
07	Velocity	M/s	10.70
08	Dimensions of Stack (ID)	Mtr.	0.200
09	Stack Area	M <sup>2</sup>	0.0314
10	Gas Volume	NM <sup>3</sup> /Hr	846.65

**RESULT**

Sr. No.	Description	Unit	Results	MPCB Limits
01	Particulate Matter	Mg/NM <sup>3</sup>	52.3	≤ 150.00
02	Sulphur Dioxide	Mg/NM <sup>3</sup>	84.3	---
03	Sulphur Dioxide	Kg/day	1.70	≤ 24.00
04	Oxides Of Nitrogen	Mg/NM <sup>3</sup>	50.5	---
05	Carbon Monoxide	%	09.2	---

**REMARKS/OBSERVATIONS:**

- All above results are within MPCB limits.

For MITCON Consultancy & Engineering Services Ltd.

*Kadambari Deshmukh*  
 Checked By  
 (Mrs. Kadambari Deshmukh)



*Sandeep Jadhav*  
 Authorized Signatory  
 Dr. Sandeep Jadhav  
 (Quality Manager/HOD)

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## Test Report

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address	Reference No.	MITCON/2024-25/May/5020/14
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	Date of Monitoring	20/05/2024
	Type of Monitoring	Source Emission
	Test Location	S-3 400 KVA DG Set
	Monitoring Done By	MITCON
	Date of Analysis	21/05/2024

## OBSERVATION

Sr. No.	Parameters	Unit	Results
01	Time of Sampling	Hrs	16:45
02	Material of Stack	--	MS
03	Stack Height from G.L.	Mtr.	5.0
04	Type of Stack	-	Round
05	Flue Gas Temperature	°K	463
06	Differential Pressure	mmWG	5.2
07	Velocity	M/s	8.65
08	Dimensions of Stack (ID)	Mtr.	0.150
09	Stack Area	M <sup>2</sup>	0.01766
10	Gas Volume	NM <sup>3</sup> /Hr	587.40

## RESULT

Sr. No.	Description	Unit	Results	MPCB Limits
01	Particulate Matter	Mg/NM <sup>3</sup>	53.6	≤ 150.00
02	Sulphur Dioxide	Mg/NM <sup>3</sup>	54.3	---
03	Sulphur Dioxide	Kg/day	0.50	≤ 10.00
04	Oxides Of Nitrogen	Mg/NM <sup>3</sup>	42.5	---
05	Carbon Monoxide	%	21.4	---

## REMARKS/OBSERVATIONS:

- All above results are within MPCB limits.

For MITCON Consultancy &amp; Engineering Services Ltd.

*Kadambari*  
Checked By  
(Mrs. Kadambari Deshmukh)



*SD*  
Authorized Signatory  
Dr. Sandeep Jadhav  
(Quality Manager/HOD)

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**Test Report**

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

<b>Client's Name &amp; Address</b>	<b>Reference No.</b>	MITCON/2024-25/May/5020/15
<b>M/s. Alders Bio-Energy Ltd.,</b> Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	<b>Date of Monitoring</b>	20/05/2024
	<b>Type of Monitoring</b>	Workzone Noise
	<b>Monitoring Done By</b>	MITCON
	<b>Time Of Monitoring</b>	16:00 pm Hrs.

**READINGS**

Sr. No.	Test Location	Unit	Readings
01	Dispatch Area	dB(A)	66.7
02	Boiler House Area	dB(A)	87.4
03	Turbine Area	dB(A)	86.2
04	Maintenance Area	dB(A)	67.5

**REMARKS / OBSERVATIONS:**

- **Limits:** The Maharashtra Factories Rule 1963, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours' exposure.

For MITCON Consultancy &amp; Engineering Services Ltd.

  
Checked By  
(Mrs. Kadambari Deshmukh)



**Authorized Signatory**  
Dr. Sandeep Jadhav  
(Quality Manager/HOD)

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Format No. EME/LAB/Format 7.8/TR

**Test Report**

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

<b>Client's Name &amp; Address</b>	<b>Reference No.</b>	MITCON/2024-25/May/5020/16
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gargaon, Tal – Kallamb, Dist – Osmanabad.	<b>Date of Monitoring</b>	20/05/2024
	<b>Type of Monitoring</b>	Ambient Noise
	<b>Monitoring Done By</b>	MITCON
	<b>Time Of Monitoring</b>	10:30 am Hrs. & 22:35 pm Hrs.

**READINGS**

Sr. No.	Test Location	Unit	Readings	
			10:30 am Hrs. (Day Time)	22:35 pm Hrs. (Night Time)
01	Near Main Gate	dB(A)	62.4	53.4
02	Village Gargaon	dB(A)	55.3	44.6
03	Village Nipani	dB(A)	56.7	45.5

**REMARKS / OBSERVATIONS:**

- All above results are within MPCB Limits.
- Limits: Maharashtra Pollution Control Board has prescribed 75 dB (A) as an upper limit of Noise Level during daytime & 70 dB (A) as an upper limit during night time.

Area	Category of Area	Limit dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

For MITCON Consultancy &amp; Engineering Services Ltd.

*Kadambari Deshmukh*  
Checked By  
(Mrs. Kadambari Deshmukh)



*Sandeep Jadhav*  
Authorized Signatory  
Dr. Sandeep Jadhav  
(Quality Manager/HOD)

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**Test Report**

Report Number : MITCON/2024-25/May/5020

Issue Date: 27/05/2024

Client's Name & Address	Reference No.	MITCON/2024-25/May/5020/17
M/s. Alders Bio-Energy Ltd., Survey No – 284/B, A/p – Gaurgaon, Tal – Kallamb, Dist – Osmanabad.	Date of Monitoring	20/05/2024
	Type of Monitoring	DG Set Insertion loss
	Monitoring Done By	MITCON
	Time Of Monitoring	16:36 pm Hrs.

**READINGS**

Sr. No.	M/C Code#	Description	Test Location	Unit	Readings	Insertion loss $\geq 25$ dB
01	DG S # 2	750 KVA	Inside Acoustic Enclosure	dB(A)	102.0	27.0
			Outside Acoustic Closure From 0.5 meter away	dB(A)	75.0	
02	DG S #3	400 KVA	Inside Acoustic Enclosure	dB(A)	101.1	25.9
			Outside Acoustic Closure From 0.5 meter away	dB(A)	75.2	

**REMARKS / OBSERVATIONS:**

- **Limits:** Maharashtra Pollution Control Board has prescribed in consent, acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standard, whichever is on higher side.

For MITCON Consultancy &amp; Engineering Services Ltd.

*Kadambari*  
Checked By  
(Mrs. Kadambari Deshmukh)



*ND*  
Authorized Signatory  
Dr. Sandeep Jadhav  
(Quality Manager/HOD)

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## SITE PHOTOGRAPHS



## Annexure 2: Rain Water Harvesting Recharge pits



### **ANNEXURE 3: GREENBELT DEVELOPMENT**







## Annexure 4 : Mock Drill Photographs



## Annexure 5 : ETP photographs





**Annexure 6 : Photographs of air pollution control equipment**

