Feel Organic

Shop : SK Properties, Bhabat Road Zirakpur
Opp. Dev Shopping Complex, Zirakpur
Distt. SAS Nagar, Punjab - 140603
E-mail.: feelorganic99@gmail.com

Date: 28.11.2022

To
The Additional Director
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
Bays Nos. 24-25, Sector 31 A,
Dakshin Marg,
Chandigarh – 160030
(Mail ids.: eccompliance-nro@gov.in and ronz.chd-mef@nic.in)

Subject: Submission of six monthly compliance report for period ending 30.09.2022 for the Project namely "Formaldehyde manufacturing unit with production capacity of 100 MT/day " located at Khasra No. 345, Village Seehpur, H. B. No. 176, Tehsil-Derabassi, District- SAS Nagar, Punjab

Respected sir,

With reference to the EIA Notification & its amendments regarding submission of six monthly compliance report, we are hereby submitting the six monthly compliance report for period ending 30.09.2022 for the above said project through mail for your perusal.

Kindly acknowledge the receipt of the same.

Thanking you

Sincerely,
For **M/s FEEL ORGANIC**

For FEEL ORGANIC
Auth. Signatory

(Authorized Signatory)
Name: Devinder Kumar Dhir
Contact No.: 9311743737
Designation: Partner
Email: feelorganic99@gmail.com

CC: Member Secretary, SEIAA Punjab, Directorate of Environment and Climate Change, C/o Punjab State Council for Science & Technology, MGSIPA Complex, Sector 26- Chandigarh-160019. (Uploaded on Parivesh Portal)

2022

SIX MONTHLY COMPLIANCE REPORT
(Period ending 30.09.2022)

For

Formaldehyde manufacturing unit with production capacity of 100 MT/day

By

M/s Feel Organic

At

Khasra No. 345, Village Seehpur, H.B. No. 176, Tehsil- Derabassi, District- SAS Nagar, Punjab

Prepared by:

Eco Paryavaran Laboratories and Consultants Private Limited

E-207, Industrial Area, Phase-VIIIB (Sector-74), Mohali (SAS Nagar), Punjab 160071

Tele No.: 0172-4616225 **email:** simran@ecoparyavaran.org

M: 098140-03103, 088720-43178

www.ecoparyavaran.org

Ministry of Environment, Forest and Climate Change
Northern Regional Office,
Chandigarh-160030

DATA SHEET

1.	**Project Type**	Industry Project
2.	**Name of the Project**	Formaldehyde manufacturing unit with production capacity of 100 MT/day
3.	**Clearance letter (s)/O.M No. & dates**	Environmental Clearance is granted by MoEF&CC; vide Letter No. IA-J-11011/461/2021-IA-II dated 24th June 2022. Copy of the same is attached along as **Annexure 1.**
4.	**Location**	Khasra No. 345, Village Seehpur, H. B. No.- 176, Tehsil- Derabassi Dist. SAS Nagar, Punjab-140103.
	a) District (s)	District- SAS Nagar
	b) State (s)	Punjab
	c) Latitudes/ Longitudes	30°26'14.60"N and 76°53'45.94"E
5.	**Address for correspondence**	Mr. Devinder Dhir (Partner) SK Properties, Bhabat Road Zirakpur, Opp. Dev Shopping Complex, Zirakpur, Distt. SAS Nagar, Punjab, SAS Nagar, Punjab-140603.
6.	**Salient features**	
	a) of the project	As per the Environmental Clearance, the total plot area of the project is 0.83 Acers (3,340 sq.m.). And no R& R is involved in the Project. The proposed production capacity of Formaldehyde (CAS No. - 50-00-0) is 100 MT/ day. 10. The PP reported that the power requirement will be 175 KVA and will be met from the Punjab State Power Corporation Limited (PSPCL).
	b) of the environmental management plans	During operational phase. The total water requirement for the project will be 86 KLD of which fresh water requirement of 82 KLD will be met from the bore well. The reused water is 4 KLD. Effluent of 13.7 KLD will be generated once in three months will be stored in storage tank of capacity 15 KLD and 7.3 KLD of fresh water RO reject will be generated, both will be treated in Evaporator of capacity 10 KLD. 2

		KLD of treated water from septic tank will be utilized for green area demand. 2 KLD of condensate from Evaporator will be reused in cooling water demand. The plant will be based on Zero Liquid Discharge system.). DG set of 200 KVA (1 No.), will be used as standby during power failure. Stack (3 m) will be provided as per CPCB norms to the proposed DG set. 0.8 TPH oil fired boiler with a stack of height of 9 m will be installed for controlling the particulate emissions within the statutory limit of 115 mg/Nm3 for the proposed boiler.
7.	**Break-up of the project area**	
	a) Submergence area: Forest and Non-forest	Not applicable
	b) Others	Not applicable
8.	**Break-up of project affected population with enumeration of those losing houses/dwelling units only, agricultural land only both dwelling units and agricultural land and landless labourers/ artisans.**	Not applicable
	a) SC/ST/Adivasis	Not applicable
	b) Others *(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures. If a survey has been carried out give details and year of survey)*	Not applicable
9.	**Financial details:**	
	a) Project cost as originally planned and subsequent revised estimates and the year of price reference.	Original planned project cost: Rs. 500 Lakh

<table>
<tr><td></td><td>b) Allocations made for environmental management plans with item wise and year wise break up.</td><td>Rs 60.66 lakhs will be allocated as capital cost, Rs. 12 lakhs/annum will be incurred as recurring cost.
<table>
<tr><th>S. No.</th><th>Description</th><th>Capital Cost/annum (in Lakhs)</th><th>Recurring Cost/annum (in Lakhs)</th></tr>
<tr><td>1.</td><td>Air Pollution control</td><td>5.0</td><td>1.0</td></tr>
<tr><td>2.</td><td>Industrial water pollution control</td><td>25.0</td><td>2.0</td></tr>
<tr><td>3</td><td>Domestic water Pollution Control</td><td>5.0</td><td>0.50</td></tr>
<tr><td>4.</td><td>Green Belt Development</td><td>8.66</td><td>5.0</td></tr>
<tr><td>5.</td><td>Waste Management (HW Storage and Disposal)</td><td>2.0</td><td>0.75</td></tr>
<tr><td>6.</td><td>Rain Water Recharging (Pond Adoption)</td><td>10.0</td><td>2.0</td></tr>
<tr><td>7.</td><td>Miscellaneous</td><td>5.0</td><td>0.75</td></tr>
<tr><td></td><td>Total</td><td>60.66</td><td>12.0</td></tr>
</table></td></tr>
<tr><td></td><td>c) Benefit cost ratio/internal rate of return and the year of assessment</td><td>Will be calculated and submitted.</td></tr>
<tr><td></td><td>d) Whether (c) includes the cost of environmental management as shown in b) above.</td><td>Yes</td></tr>
<tr><td></td><td>e) Actual expenditure incurred on the project so far.</td><td>Rs. 12,65,730/- has been spent on the project till 30th September, 2022.</td></tr>
<tr><td></td><td>f) Actual expenditure incurred on environmental management plans so far.</td><td>Rs. 2,16,310/- has been spent on the project till 30th September, 2022.</td></tr>
<tr><td>10.</td><td>Forest land requirement:</td><td></td></tr>
<tr><td></td><td>a) the status of approval for diversion of forest land for non-forestry use</td><td>Not Applicable.</td></tr>
<tr><td></td><td>b) the status of clear felling, if any</td><td>Not Applicable.</td></tr>
</table>

	c) the status of compensatory afforestation, if any.	Not Applicable.
	d) Comments on the viability & sustainability of compensatory Afforestation programme in the light of actual field experience so far.	Not Applicable.
11.	**The status of clear felling in non-forest areas** *(such as submergence area of reservoir, approach road)* **if any, with quantitative information**	Not applicable
12.	**Status of construction:**	30% Photographs **Annexure 2.**
	a) Date of commencement (actual and/or planned)	9th July, 2022
	b) Date of completion (actual and/or planned)	April, 2023
13.	**Reasons for the delay, if the project is yet to start**	Not applicable

Compliance Report on conditions imposed in Environmental Clearance for Period ending 30.09.2022

A. Specific Conditions:

S. No.	Conditions	Reply
1.	The PP shall develop Greenbelt over an area at least 1,129.24 m2 by planting 835 trees within a year of grant of EC. The 835 saplings selected for the plantation should be of sufficient height preferably 6-ft. The budget earmarked for the plantation shall be ₹ 8.66 Lakh (Capital) and₹ 5.0 Lakh (Recurring) and shall be kept in separate account and should be audited annually. PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo- location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation, method of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	Agreed. A total of 450 to 500 trees have been planted at various places. Photographs showing the same is attached as **Annexures 3** Rs.2,16,310 have been spent on plantation of trees till 30.09.2022
2.	A separate Environmental Management Cell (having qualified person with Environmental Science/ Environmental Engineering /specialization in the project area)	Agreed. Environmental Management Cell have been constituted. Copy of the same is attached as **Annexure 4**

<table>
<tr><td></td><td>equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. The PP shall engage at least one EHS Manager, one Supervisor and Consultant for the functioning of EMC. The PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.</td><td></td></tr>
<tr><td>3.</td><td>The budget earmarked towards Environment Management Plan (EMP) is ₹ 60.66 Lakhs and the Recurring cost (operation and maintenance) will be about ₹ 12.0 lakhs per annum which includes Air pollution control [₹ 5.0 lakh (capital) ₹ 1.0 Lakh (Recurring)], Industrial Water Pollution Control (Evaporator [₹ 25.0 lakh (capital) ₹2.0 Lakh (Recurring)], Domestic Water Pollution Control (Septic Tank & Distribution pipeline) [₹ 5.0 lakh (capital) Recurring ₹ 0.50 Lakh Green Belt Development [₹ 8.66 lakh (capital) ₹ 5.0 Lakh (Recurring)], Waste Management (HW Storage and Disposal) [₹ 2.0 lakh (capital) ₹ 0.75 Lakh (Recurring)], Rain Water Recharging (Pond Adoption) [₹ 10.0 lakh (capital) ₹ 2.0 Lakh (Recurring)] and Miscellaneous [₹5.0 lakh (capital) ₹ 0.75 Lakh (Recurring)].The company shall comply with all the environmental protection measures and safeguards proposed in the</td><td>Rs 60.66 lakhs will be allocated as capital cost, Rs. 12 lakhs/annum will be incurred as recurring cost.
<table>
<tr><th>S. No.</th><th>Description</th><th>Capital Cost/annum (in Lakhs)</th><th>Recurring Cost/annum (in Lakhs)</th></tr>
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<tr><td>6.</td><td>Rain Water Recharging (Pond Adoption)</td><td>10.0</td><td>2.0</td></tr>
<tr><td>7.</td><td>Miscellaneous</td><td>5.0</td><td>0.75</td></tr>
<tr><td></td><td>Total</td><td>60.66</td><td>12.0</td></tr>
</table></td></tr>
</table>

	documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	
4.	The total water requirement will be 86 KLD (Fresh–82 KLD + recycled-4KLD) which will be met from Bore Well. The PP should ensure that Ground water utilization/ abstraction should not be above the permissible limit and only after obtaining valid NOC from CGWA/ Concerned Authority. The PP should submit the details of GW abstraction and utilization to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year. In addition to this PP shall submit the target for reduction of GW utilization to Regional Office of MoEF&CC within a period of one year.	Agreed. Ground water utilization/ abstraction will not be above the permissible limit. Permission to abstract ground water from PWRDA have been obtained. Copy of PWRDA approval is attached as **Annexure 5**

5.	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Agreed. All the environmental protection measures and safeguards proposed will be complied.
6.	No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.	Agreed. No banned chemicals will be manufactured by the project proponent.
7.	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Agreed. Modern technologies for capturing of carbon emitted will be installed.
8.	The species specific conservation plan of Schedule-I species shall be implemented within time limit and as per the approval of the Chief Wildlife Warden of the State Government.	Not applicable. The Schedule-I species were not found around 10 KM radius of the project.
9.	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The Project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation	Agreed. All necessary precautions will be taken to avoid accidents and action plan will be implemented for avoiding accidents.

	measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.	
10.	The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.	Agreed. The volatile organic compounds/Fugitive emissions will be controlled at 99.97 % with effective chillers/modern technology. During operational phase.
11.	The project proponent shall explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.	Agreed. The treated water will be recycled/reused within the premises. 2 KLD of treated water from septic tank will be utilized for green area demand. 2 KLD of condensate from Evaporator will be reused in cooling water demand. The plant will be based on Zero Liquid Discharge system.
12.	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and Effluent of 13.7 KL will be generated once in three months will be stored in storage tank of capacity 15 KLD and 7.3 KLD of fresh water RO reject will be generated, both will be treated in Evaporator of capacity 10 KLD. 2 KLD of treated water from septic tank will be utilized for green area demand	Agreed. The same will be complied.
13.	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For	Agreed. Continuous online monitoring system for stack emissions will be installed.

	online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	
14.	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.	Agreed. Raw material i.e. 46MT/Day methanol is hazardous in nature being highly inflammable. A copy of PESO approval is attached as **Annexure 9**
15.	The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.	Agreed. The occupational health centre for surveillance of the worker's health will be set up. During operational phase.
16.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.	Agreed. Training will be imparted to all employees on safety and health aspects of chemicals handling.
17.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	Agreed. The same will be taken care.
18.	The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d)	Agreed. The solvent management will be carried out as per the given condition.

	Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	
19.	Total fresh water requirement, sourced from Bore well shall not exceed 82 KLD. Prior permission in this regard shall be obtained from the concerned regulatory authority/CGWA and renewed from time to time.	Agreed. Total fresh water requirement, sourced from Bore well will not exceed 82 KLD.
20.	The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.	Agreed. The same shall be complied.
21.	The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.	Agreed. The same shall be taken care.

22.	The green belt of at least 5-10 m width shall be developed in at least 33.8% of the total project area (@2500 Trees per ha), mainly along the plant periphery/outside. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map. Trees have to be planted with spacing of 2.0 m x 2.0 m ratio and as in first year itself and subsequent years the green belt shall be monitored. The plant species can be selected that will give better carbon sequestration and dust tolerant species. As committed by PP 20% of the total plantation will be done within this monsoon. Saplings of at least 4-5 feet height will be planted to assure maximum survival rate. Complete plantation will be done within 2 years' time.	Agreed. A total of 450 to 500 trees have been planted at various places. Photographs showing the same is attached as **Annexures 3**
23.	The activities and the action plan proposed by the project proponent to address the issues raised during public hearing and socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.	Agreed. The same shall be taken care.
24.	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental Management Cell has been formed to supervise and monitor the environment related aspects of the project. Details regarding same are attached as **Annexure 4**

B. General Conditions:

S. No.	Conditions	Reply
1.	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Agreed. No further expansion or modifications in the plant will be taken without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA.
2.	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.	Agreed. The rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) will be strictly complied.
3.	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Agreed. The energy source for lighting purpose will be preferably LED based once the project is operational.
4.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act,	Agreed. The reports are attached as **Annexure 6**

	1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	
5.	The company shall undertake all relevant measures for improving the socio- economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Agreed. All relevant measures for improving the socio- economic conditions of the surrounding area being taken. Copy of appreciation letter is attached as **Annexure 10.** Photographs for the same is attached as **Annexure 11.**
6.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Agreed. Rs.60.66 lakhs will be allocated as capital cost and Rs.12 lakhs/annum will be incurred as recurring cost.
7.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	The clearance letter has been sent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body, etc. Recievings of the same is attached as **Annexure 7**
8.	The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly	Agreed. The same is being submitted.

	compliance status report shall be posted on the website of the company.	
9.	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Integrated Regional Office of MoEF&CC by e-mail.	Agreed. The same will be complied.
10.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at **https://parivesh.nic.in/**. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Agreed. Advertisement in newspapers were published in two languages was submitted ; Copy for the same is enclosed as **Annexure 8**
11.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Noted.
12.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted.

TEST REPORT

TC-7477

ULR No. : TC747722000009587F		**Test Report No. :**	EL261122NS003
Type of Sample : Soil.		**Date of Reporting :**	30/11/2022
Customer	Formaldehyde Manufacturing Unit M/s Feel Organic Located at Vill. Seehpur, Teh. Derabassi, S.A.S Nagar, Punjab	**Work Order No. & Date**	EMS/T/4676 Dt.: 17/11/2022
		Customer reference No. (If any)	NA
Sampling Protocol	USEPA/600/R-92/128	**Mode of Collection of Sample**	Sampling by laboratory
Date of Sampling	26/11/2022	**Date of Receipt of Sample**	26/11/2022
Sampling Location	At Project Site	**Testing Location**	Permanent Facility
Testing Protocol	IS Method	**Period of Analysis**	26/11/2022 To 30/11/2022
Sample Description	Brown coloured soil.		
Packing, Markings, Seal & Qty.	10 Kg Poly Bag Marked 'B/26/01'		

RESULTS

I. Chemical Testing

1. Pollution & Environment (Soil)

S.No.	Test Parameter	Unit	Result	Test Method
1	pH	--	8.32	IS:2720 (Part-26) Cl-2,
2	Conductivity	mmhos/cm	0.286	IS:14767
3	Moisture Content	%	9.3	IS:2720 (Part-II) Sec-1
4	Organic Matter	%	1.61	IS: 2720 (Part XXII) Sec-1,
5	Texture	--	Sandy Clay Loam	IS:2720 (Part-4) Cl 2,4,
6	Bulk Density	gm/cc	1.49	IS: 2720 (Part-7)

Remarks : NA

OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

End of Report

Eco Paryavaran Laboratories & Consultants Pvt. Ltd. E-207 Phase VIII-B (sector-74) Mohali (Pb.) 160071

Umesh Kumar
Authorized Signatory-Chemical

TEST REPORT

TC-7477

ULR No. : TC747722000009613F		**Test Report No. :**	EL281122NN003
Type of Sample : Ambient Noise		**Date of Reporting :**	30/11/2022
Customer	Formaldehyde Manufacturing Unit M/s Feel Organic Located at Vill. Seehpur, Teh. Derabassi, S.A.S Nagar, Punjab	**Work Order No. & Date**	EMS/T/4676 Dt.: 17/11/2022
		Customer reference No. (If any)	NA
Sampling Protocol	IS 9989-1989, RA 2008.	**Mode of Collection of Sample**	Sampling by laboratory
Date of Sampling	26/11/2022	**Date of Receipt of Sample**	28/11/2022
Sampling Location	At Project Site	**Period of Analysis**	28/11/2022 To 28/11/2022
Testing Protocol	IS 9989-1989, RA 2008.		
Testing Location	On Site & Permanent Facility		

RESULTS

I- Chemical Testing

1. Atmospheric Pollution (Ambient Noise Level)

S.No.	Test Parameters	Units	Results	Method
1	Ambient Day Time Noise Levels	dB(A)	68.1	LAB SOP: EL/SOP/AN/01, Issue No.-04, Nov 10

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in 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

Day time shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

Remarks : NA

OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

End of Report

Eco Paryavaran Laboratories & Consultants Pvt. Ltd. E-207 Phase VIII-B (sector-74) Mohali (Pb.) 160071

Umesh Kumar
Authorized Signatory-Chemical

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Eco Paryavaran Laboratories & Consultants Pvt. Ltd.

(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

TC-7477

TEST REPORT

ULR No. :	TC747722000009612F	**Test Report No. :**	EL281122NA003
Type of Sample :	Ambient Air Quality	**Date of Reporting :**	30/11/2022
Customer	Formaldehyde Manufacturing Unit M/s Feel Organic Located at Vill. Seehpur, Teh. Derabassi, S.A.S Nagar, Punjab	**Work Order No. & Date**	EMS/T/4676 Dt.: 17/11/2022
		Customer reference No. (If any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	**Mode of Collection of Sample**	Sampling by laboratory
Date of Sampling	26/11/2022	**Date of Receipt of Sample**	28/11/2022
Sampling Location	At Project Site	**Period of Analysis**	28/11/2022 To 30/11/2022
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	**Environmental Conditions**	Clear sky
Testing Location	On Site & Permanent Facility		

RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Respirable Suspended Particulate Matter (as PM10)	µg/m³	85	100	IS: 5182 (Part-23)
2	Particulate Matter (as PM2.5)	µg/m³	46	60	Lab SOP: EL/SOP/AAQ/01, Issue No. 03, Jan 01
3	Sulphur Dioxide (as SO2)	µg/m³	15	80	IS: 5182 (Part-2)
4	Nitrogen Dioxide (as NO2)	µg/m³	32	80	IS: 5182 (Part-6)
5	Ammonia (as NH3)	µg/m³	29	400	Lab SOP: EL/SOP/AAQ/02, Issue No. -03, Jan 01
6	Ozone (as O3)	µg/m³	18	180	IS: 5182 (Part-9)
7	Carbon Monoxide (as CO) ,	mg/m³	0.82	04	IS: 5182 (Part-10), NDIR Method

Remarks :

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TEST REPORT

TC-7477

ULR No. : TC747722000009590F		**Test Report No. :**	EL261122NW003
Type of Sample : Water (Ground Water)		**Date of Reporting :**	30/11/2022
Customer	Formaldehyde Manufacturing Unit M/s Feel Organic Located at Vill. Seehpur, Teh. Derabassi, S.A.S Nagar, Punjab	**Work Order No. & Date**	EMS/T/4676 Dt.: 17/11/2022
		Customer reference No. (If any)	NA
Sampling Protocol	IS:17614 (P-1) 2021	**Mode of Collection of Sample**	Sampling by laboratory
Date of Sampling	26/11/2022	**Date of Receipt of Sample**	26/11/2022
Sampling Location	At Project Site	**Testing Location**	Permanent Facility
Testing Protocol	IS:10500-2012 (IInd Revision)	**Period of Analysis**	26/11/2022 To 30/11/2022
Sample Description	Clear, colourless liquid.		
Packing, Markings, Seal & Qty.	2 litre Plastic & 250ml Glass Bottle Marked 'B/26/01'		

RESULTS

I -Chemical Testing

1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Acceptable limit	Permissible limit in absence of alternate source	Test Method
1	Colour	Colour Units	BDL(DL5)	5	15	IS: 3025 (Part-4)Cl 2.0
2	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025 (Part-5)
3	pH @ 25°C	-	7.33	6.5-8.5	No relaxation	IS:3025 (Part-11)
4	Taste	-	Agreeable	Agreeable	Agreeable	IS: 3025 (Part-8)
5	Turbidity	NTU	BDL(DL1)	1	5	IS 3025 (Part-10)
6	Chloride as Cl	mg/l	32	250	1000	IS: 3025 (Part-32)
7	Iron as Fe	mg/l	0.17	1.0	No relaxation	APHA-23rd Ed -3500Fe-B Phenanthroline Method
8	Total hardness as CaCO3	mg/l	255	200	600	IS :3025 (Part-21)

II -Biological Testing

1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Acceptable limit	Permissible limit in absence of alternate source	Test Method
1	Total coliform	CFU/100ml	Absent	Absent	-	IS:15185
2	E.coli.	CFU/100ml	Absent	Absent	-	IS:15185

Simranjit Kaur
Authorized Signatory-Biological

Umesh Kumar
Authorized Signatory-Chemical

E-207 Phase VIII-B (sector-74) Mohali (Pb.) 160071

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TC-7477

ULR No. :	TC747722000009590F	**Test Report No. :**	EL261122NW003
Type of Sample :	Water (Ground Water)	**Date of Reporting :**	30/11/2022

Remarks : NA

OTHER INFORMATION

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