



ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਰੋਕਥਾਮ ਬੋਰਡ
PUNJAB POLLUTION CONTROL BOARD

No.4362

Dated 29-09-2022

To

The Registrar General,
National Green Tribunal,
Faridkot House, New Delhi.

Subject: Status Report in compliance to order dated 31.03.2022 passed by the Hon'ble Green Tribunal in Original Application No. 169 of 2021 titled as H.C. Arora Vs State of Punjab & Ors.

Ref: Order dated 31.03.2022 passed by the Hon'ble Green Tribunal in Original Application No. 169 of 2021 titled as H.C. Arora Vs State of Punjab & Ors.

The Hon'ble National Green Tribunal has taken cognizance of an application filed by Sh. H.C. Arora with grievance against failure of the State Authorities to take remedial measures against contamination of ground water in Village Aloarakh, Block Bhawanigarh, District Sangrur, wherein reference has been to media report dated 08.07.2021 published in the Hindustan Times titled as "Sangrur tube well spews out polluted water; PPCB blames dismantled factory". The application was registered as Original Application No. 169 of 2021 titled H.C. Arora Vs State of Punjab & Ors. The Original Application No. 169 of 2021 was disposed of by the Hon'ble Green Tribunal vide order dated 31.03.2022 with a direction to file status report of compliance as on 31.08.2022 on or before 30.09.2022 by email to Registrar General, National Green Tribunal. The relevant extract of order dated 31.03.2022 passed in OA No. 169 of 2021 is reproduced herein below for kind perusal:

"Chief Secretary may constitute a credible executing/ monitoring Committee to get the remediation plan executed and to monitor its timely and proper execution. Status report of compliance as on 31.08.2022 may be forwarded to Registrar General, NGT on or before September 30, 2022 by

email. District Magistrate, Sangrur may place the information in public domain and appropriately caution the inhabitants about contaminated water in the interest of public health. PPCB and State GWB may regularly monitor the quality of contaminated water."

2. That in compliance to the order dated 31.03.2022 of the Hon'ble NGT, the Chief Secretary, Punjab vide order dated 07.04.2022 has constituted an executing/ monitoring committee consisting of following officers to get the remedial plan executed and to monitor its timely and proper execution.

- a) Principal Secretary, Science Technology and Environment, as Chairperson;
- b) Chairman, Punjab Pollution Control Board, as member;
- c) Deputy Commissioner, Sangrur, as member;
- d) Secretary/Additional Secretary, Punjab Water Regulation & Development Authority, as member; and
- e) Member Secretary, Punjab Pollution Control Board as convener member.

A copy of order dated 07.04.2022 of Chief Secretary, Punjab is enclosed herewith as **Annexure-'A'**.

3. After the constitution of the monitoring/ executing committee by Chief Secretary, Punjab, the Secretary to Government of Punjab, Department of Science, Technology & Environment has convened a meeting of concerned officers on 05.05.2022, wherein, the Chairman & Other Officers of the Punjab Pollution Control Board, Additional Deputy Commissioner, Sangrur and Additional Secretary, Punjab Water Regulation and Development Authority had participated. In the meeting, the orders of Hon'ble NGT were examined and it was observed that certain actions are required to be taken with regard to the contaminated site, such as Marking the contaminated tube-wells as Water not fit for Drinking; Declaration of the Site as "Contaminated Site"; Execution of short term and long-term remediation plans; A detailed study by an expert agency; To place the information in public domain; Regular monitoring of quality of contaminated water.

After detailed deliberations, following decisions were taken by the Committee: -


- A. The Deputy Commissioner, Sangrur shall provide the Board in English as well as in Punjabi indicating that "Water not fit for drinking" at five no. tube-wells, which has been found contaminated by the Joint Committee, so that this water is not used for drinking purposes. Thereafter, the photographs of the Boards installed at tube-wells shall be taken for further submission of the same to the Hon'ble NGT.
- B. The Punjab Pollution Control Board shall co-ordinate with CPCB for declaration of site as contaminated site and shall follow due procedure to declare the site under reference as contaminated site.
- C. The Punjab Pollution Control Board shall call Expression of Interest (EOI) with cost effective remedial plan within 15 days (with 30 days' time to the applicants to submit EOI), so that actual contamination at site under reference can be adjudged.
- D. The Deputy Commissioner, Sangrur shall place the information on the official website of District Administration and also carry out Munadi in the nearby villages to make the public aware with regard to contamination of ground water of 5 no. tube-wells within 7 days. Thereafter, the Deputy Commissioner shall submit the information i.e. screen shot of web site showing information in public domain and proof of report in Rojnamcha regarding Munadi to the Member Secretary, Punjab Pollution Control Board, Patiala for further submission of the same to the Hon'ble NGT.
- E. The Punjab Pollution Control Board shall write a letter to ground water wing of Irrigation Department for regular monitoring of quality of contaminated water within 7 days.

A copy of the minutes of the meeting held on 05.05.2022 under the Chairmanship of Secretary to Government of Punjab, Department of Science, Technology & Environment is placed at **Annexure-B**.

4. The decisions taken by the Committee during its meeting on 09.05.2022 were taken for compliance by the concerned officers/ departments. The point wise compliance of the decisions taken during meeting by the Committee is as under:

S.N	Decisions	Compliance
1.	The Deputy Commissioner, Sangrur shall provide the Board in English as well as in Punjabi indicating that "Water not fit for drinking" at five no. tube-wells, which has been found contaminated by the Joint Committee, so that this water is not used for drinking purposes. Thereafter, the photographs of the Boards installed at tube-wells shall be taken for further submission of the same to the Hon'ble NGT.	Display boards have been installed by the team consisting of Assistant Environmental Engineer of Punjab Pollution Control Board and Naib Tehsildar, Bhawanigarh, District Sangrur in English as well as in Punjabi language indicating that "Water not fit for drinking" at five no. tube -wells around the site, which have been found contaminated by the Joint Committee earlier constituted by the National Green Tribunal vide order dated 20.07.2021 passed in OA No. 169 of 2021, so that the water of the said tube wells shall not be used for drinking purposes by the people of the area. Photographs showing the installation of display boards by the team of officers are placed at Annexure-C .
2.	The Punjab Pollution Control Board shall co-ordinate with CPCB for declaration of site as contaminated site and shall follow due procedure to declare the site under reference as contaminated site.	The Punjab Pollution Control Board has written a letter bearing no. 1676 dated 06.06.2022 to the Member Secretary, Central Pollution Control Board with the request to advise as to whether the site stands notified as contaminated site and whether Board can proceed to implement the remediation plan as suggested by the Joint Committee and directed by the Hon'ble NGT or any further action is required to be taken before proceeding further in the matter. Thereafter, a

		reminder was also issued to Central Pollution Control Board vide letter no. 2661 dated 21.09.2022, but till date, no communication has been received from the Central Pollution Control Board.
3.	The Punjab Pollution Control Board shall call Expression of Interest (EOI) with cost effective remedial plan within 15 days (with 30 days' time to the applicants to submit EOI), so that actual contamination at site under reference can be adjudged.	The Punjab Pollution Control Board has called Expression of Interest (EOI) through newspapers on 22.06.2022. However, in reference to the said EOI, only one company has submitted proposal under cover, which is under consideration of the Competent Authority of the Punjab Pollution Control Board.
4.	The Deputy Commissioner, Sangrur shall place the information on the official website of District Administration and also carry out Munadi in the nearby villages to make the public aware with regard to contamination of ground water of 5 no. tube-wells within 7 days. Thereafter, the Deputy Commissioner shall submit the information i.e. screen shot of web site showing information in public domain and proof of report in Rojnamcha regarding Munadi to the Member Secretary, Punjab Pollution Control Board, Patiala for further submission of the same to the Hon'ble NGT.	The Office of Deputy Commissioner, Sangrur has placed the information on the official website of District Administration, Sangrur. Munadi was also carried out in the villages (Alorakh of Tehsil Bhawanigarh and nearby villages of (Bapokheer, Dayalgarh, Bakhtora) through chowkidar to make the general public aware with regard to the contamination of ground water of 5 no. tube-wells. The screenshot of website showing information in public domain is enclosed herewith as Annexure-D . The relevant papers relating to proof of report in Rojnamcha and Munadi (English translation of Punjabi language) are placed at Annexure-E .
5.	The Punjab Pollution Control Board shall write a letter to ground water wing of Irrigation Department for	The Punjab Pollution Control Board has written a letter bearing no. 1676 dated 06.06.2022 to Chief Engineer, Ground

	<p>regular monitoring of quality of contaminated water within 7 days.</p> <p>Water cum Coordinator NHP, Water Resources Bhawan, Sector 68, Mohali with the request to nominate an officer of the department for regular monitoring of quality of contaminated water jointly with PPCB as per the orders dated 31.03.2022 of the Hon'ble National Green Tribunal passed in OA No. 169 of 2021. The Department of Water Resources has nominated Sh. Tarun Kumar, SDO in reference to the request of the Board. The action taken with regard to monitoring is summarized herein below:</p> <ol style="list-style-type: none"> Monitoring of contaminated tube wells was carried out by the team of officers (of Punjab Pollution Control Board and Department of Water Resources) for the months of July & August, 2022. The groundwater samples were got analyzed from Punjab Pollution Control Board Laboratory for parameters of pH, Electrical Conductance, COD, BOD, Total Hardness, Calcium, Magnesium, Chloride, Sulphate, Fluoride, Phosphate, Nitrate Nitrogen, Sodium, Potassium, SAR, Phenolic Compound, Copper, Iron, Zinc, Magnesse, Selenium, Silver, Cadmium, Lead, Arsenic, Nickel & Total Chromium. The samples of ground water with regard to parameters of CO_3, HCO_3, SiO_2 & TOC were got analyzed from Thapar Institute of Engineering &
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Technology, Patiala as the facility to analyze the said parameters was not available with the laboratory of Punjab Pollution Control Board.


iv. The perusal of the results of monitoring carried out by the team during the month of July & August, 2022 reveals that there is decrease in the concentration of BOD & COD in comparison to the analysis of ground samples carried out during Sept., 2021. No significant change in the concentration of other parameters has been observed. All the metals were found to be below detectible limit (BDL) except Iron & Zinc (whose concentration varies from 0.17 to 0.61 & 0.10 to 0.21 respectively) but were well within the permissible limits as per drinking water standards. However, the concentration of TOC varies from 3.8 mg/l to 112 mg/l and 22.7 to 150 mg/l respectively for the months of July & August, 2022. Thus, there is enhancement in the concentration of TOC in ground water samples when compared with analysis results of ground water samples collected by Central Ground Water Board during Sept., 2021.

v. The analysis results of the ground water samples collected during the monitoring for the months of July & Aug, 2022 are annexed as **Annexure-F.**

		vi. The monitoring for the month of September, 2022 has been carried out by the team and the results are awaited.
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5. The above status report is hereby submitted for kind consideration and appropriate orders in compliance to the orders dated 31.03.2022 of the Hon'ble National Green Tribunal passed in OA No. 169 of 2021.

Submitted, please.


29/9/2022

**Environmental Engineer,
Punjab Pollution Control Board,
Regional Office, Sangrur**

**Government of Punjab
Office of Chief Secretary**

Subject: Original Application No. 169/2021 H. C. Arora Versus State of Punjab & Ors. (decided on 31.03.2022 by Hon'ble NGT, New Delhi)

The National Green Tribunal, Principal Bench, New Delhi, vide orders dated 31.03.2022 (copy enclosed), in OA No. 169/2021 titled as H. C. Arora Versus State of Punjab & Others has directed the Chief Secretary Punjab in co-ordination with the concerned authorities to ensure remedial action speedily to effectuate the guaranteed right of the citizen to clean potable water. The Hon'ble Bench has further directed the Chief Secretary, Punjab also to take into account the suggestions in the additional reports referred in the Judgment dated 31.03.2022. As per ratio of the Judgment, cost of remediation is to be borne by the State in the first instance without prejudice to the recovery of amount later from the violators/erring officers.

As per directions, status report of compliance as on 31.08.2022 is to be forwarded to the Registrar General, NGT, on or before September 30, 2022, by email. District Magistrate Sangrur has been directed to place the information in public domain and appropriately caution the inhabitants about contaminated water in the interest of public health. PPCB and Punjab Water Regulation & Development Authority is advised to regularly monitor the quality of contaminated water.

As per direction of the Hon'ble National Green Tribunal, an executing/monitoring committee consisting of the following officers is constituted to get the remedial plan executed and to monitor its timely and proper execution.

1. Principal Secretary, Science Technology and Environment, as Chairperson;
2. Chairman, Punjab Pollution Control Board, as member;
3. Deputy Commissioner, Sangrur, as member;
4. Secretary/Additional Secretary, Punjab Water Regulation & Development Authority, as member; and
5. Member Secretary, Punjab Pollution Control Board as convenor member.

Chief Secretary

07.04.2022

Pl put up callm 2

PS STE

MS, PPCB

No. 483
Received 07/04/2022
Dispatch

Ref: 7/4/2022

Diary No.....
Date.....



ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਕੰਟਰੋਲ ਬੋਰਡ PUNJAB POLLUTION CONTROL BOARD

No. 1504-05

Dated. 24-5-2022

Through e-mail

To

1. Deputy Commissioner,
Sangrur.
2. Additional Secretary,
Punjab Water Regulation & Development Authority,
Chandigarh.

Subject :- **Minutes of the meeting held on May 05, 2022 under the Chairmanship of Secretary, Department of Science Technology & Environment, Chandigarh in the matter of OA No. 169 / 2021 titled as H.C. Arora Vs State of Punjab & Ors.**

A copy of the minutes of meeting held under the Chairmanship of Secretary to Govt. of Punjab, Deptt. of Science Technology & Environment, Chandigarh on the subject cited matter is enclosed herewith for information & necessary action.

DA/as above

Endst.No. 1506-08

Kearl
Member Secretary
dated 24-5-2022

A copy of the above is forwarded to the following for information :-

1. Private Secretary to Secretary to Govt. of Punjab, Deptt. of Science Technology & Environment, Chandigarh.
2. Private Secretary to Chairman, Punjab Pollution Control Board, Patiala.
3. Environmental Engineer, Punjab Pollution Control Board, Regional Office, Sangrur.

DA/as above

Kearl
Member Secretary
dated 24-5-22

ਵਾਤਾਵਰਣ ਭਵਨ, ਨਾਭਾ ਰੋਡ, ਪਟਿਆਲਾ - 147001

Vatavaran Bhawan, Nabha Road, Patiala - 147001

Phone : Chairman. : 0175-2215793, Member Secretary : 0175-2215802 (O), 2215636 (FAX)

Website : www.ppcb.gov.in | E-Mail : chairmanppcb@yahoo.in | msppcb@gmail.com |

Minutes of the meeting held on May 05, 2022 under the Chairmanship of Secretary, Department of Science Technology & Environment, Chandigarh in the matter of OA No. 169 / 2021 titled as H.C. Arora Vs State of Punjab & Ors.

The followings were present during meeting:

1. Chairman,
Punjab Pollution Control Board,
Patiala.
2. Additional Deputy Commissioner,
Sangrur.
3. Additional Secretary,
Punjab Water Regulation & Development Authority,
Chandigarh.
4. Member Secretary,
Punjab Pollution Control Board,
Patiala.
5. Chief Environmental Engineer (B),
Punjab Pollution Control Board,
1. Head Office, Patiala.
6. Senior Environmental Engineer,
Punjab Pollution Control Board,
Zonal Office- II, Patiala.
7. Environmental Engineer,
Punjab Pollution Control Board,
Regional Office, Sangrur.

At the outset, Member Secretary, Punjab Pollution Control Board, Patiala welcomed all the members present in the meeting and apprised the officers about the background of industrial unit namely M/s Mahalaxmi Orgochem, Bhawanigarh, District Sangrur and the matter in the case of OA No. 169 / 2021 titled as H.C. Arora Vs State of Punjab & Ors. pending in the Hon'ble National Green Tribunal.

It was further apprised that a five member Joint Committee

comprising of CPCB, MoEF & CC, SPCB, a nominee of Secretary, Environment Department & District Magistrate was constituted by the Hon'ble NGT. The Joint Committee in its report dated 30.3.2022 submitted to NGT, while concluding that ground water and soil has been contaminated due to illegal discharge of untreated trade effluent and dumping of hazardous waste by the industry more than 15 years ago, has suggested short term and long term remediation plans of the contaminated site under reference.

The Hon'ble NGT heard the case on 31.03.2022 and passed the orders and the operative part of the said order is as under:

"Having regard to the composition of the Committee and the material considered in the report and also in absence of any opposition by the State inspite of copy of report having been served on it, we accept the report of the Committee and issue directions in terms thereof. The Chief Secretary, Punjab, in coordination with the concerned authorities may ensure remedial action speedily to effectuate the guaranteed right of the citizens to clean potable water. The Chief Secretary may also take into account the suggestions in the additional report referred to above. The cost of remediation has to be borne by the State in the first instance without prejudice to the recovery of the amount later from the violators/erring officers. Area in question be treated as 'contaminated site' and remediation plan as per the Report of the Joint Committee may be executed within six months. If it becomes necessary, the Plan may be suitably modified in consultation with CPCB and any other Institution. Chief Secretary may constitute a credible executing/ monitoring Committee to get the remediation plan executed and to monitor its timely and proper execution. Status report of compliance as on 31.8.2022 may be forwarded to Registrar General, NGT on or before September 30, 2022 by email. District Magistrate, Sangrur may place the information in public domain and appropriately caution the inhabitants about contaminated water in the interest of public health. PPCB and State GWB may regularly monitor the quality of contaminated water".

In compliance to the directions of the Hon'ble Tribunal, an Executing / Monitoring Committee has been constituted by the Worthy Chief Secretary, Punjab to get the remedial plan executed and to monitor its timely and proper execution.

Further, it was apprised that as per the orders of Hon'ble NGT following actions are required to be taken:

1. Marking the contaminated tube-wells as Water not fit for Drinking:

The Joint Committee has recommended that the water from the five tube-wells was found to be contaminated; these are required to be marked as "Water not fit for drinking", so that this water is not used for drinking purpose by District Administration. All these five tube-wells are primarily being used for agriculture purpose and are not source of drinking water supply to any residential area.

2. Declaration of the Site as "Contaminated Site":

The site under reference may be declared as "Contaminated Site" as per the Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty" published by CPCB In 2016.

3. Execution of short term and long term remediation plans:

Joint Committee has suggested short term and long term remedial plans of the contaminated site. The minimum tentative Cost for initial remediation of the contaminated site in case of short-term remediation plan estimated by the Joint Committee is Rs. 13.68 Cr, which may vary based on outcome of the actual remediation, once started. The Joint Committee in its report has recommended that the owners and directors of M/s Matharu Chemical who were party in OA no. 35 of 2013 and Execution Application no. 23 / 2020 be strictly directed by the Hon'ble NGT to bear the entire cost of remediation of the site. However, NGT in its order has directed that the cost of remediation has to be borne by the State in the first instance without prejudice to the recovery of the amount later from the violators/erring officers.

4. A detailed study by an expert agency:

The Joint Committee report has recommended that a detailed study from an expert agency is required to be carried out in order to ascertain the exact area of contamination including depth upto which hazardous waste had been dumped by the industry into the ground illegally during its operation.

In this regard, the matter was discussed and felt that an expert agency is required to be engaged by the Board in order to

establish actual quantum of contamination of soil & ground water and line of treatment to be given to the contaminated soil.

5. To place the information in public domain:

District Magistrate, Sangrur may place the information in public domain and appropriately caution the inhabitants about contaminated water in the interest of public health.

6. Regular monitoring of quality of contaminated water:

PPCB and State GWB may regularly monitor the quality of contaminated water. In this regard, the representative of Punjab Water Regulation & Development Authority present in the meeting informed that the monitoring part does not come under the preview of the Authority and only regularly work is being carried out by the Authority. Accordingly, he suggested that ground water wing of Department of Irrigation is required to be engaged for monitoring of ground water quality.

After detailed deliberation, the committee decided as under:

1. The Deputy Commissioner, Sangrur shall provide the Board in English as well as in Punjabi indicating that **"Water not fit for drinking"** at five no. tube-wells, which has been found contaminated by the Joint Committee, so that this water is not used for drinking purposes. Thereafter, the photographs of the Boards installed at tube-wells shall be taken for further submission of the same to the Hon'ble NGT.
2. The Punjab Pollution Control Board shall co-ordinate with CPCB for declaration of site as contaminated site and shall follow due procedure to declare the site under reference as contaminated site.
3. The Punjab Pollution Control Board shall call *Expression of Interest* (EOI) with cost effective remedial plan within 15 days (with 30 days' time to the applicant to submit EOI), so that actual contamination at site under reference can be adjudged.
4. The Deputy Commissioner, Sangrur shall place the information on the official website of District Administration and also carry out Munadi in the nearby villages to make the public aware with regard to contamination of ground water of 5 no. tube-wells

within 7 days. Thereafter, the Deputy Commissioner shall submit the information i.e screen shot of web site showing information in Public domain and proof of report in Rojnamcha regarding Munadi to the Member Secretary, Punjab Pollution Control Board, Patiala for further submission of the same to the Hon'ble NGT.

5. The Punjab Pollution Control Board shall write a letter to ground water wing of Irrigation Department for regular monitoring of quality of contaminated water within 7 days.

Meeting ended with vote of thanks to the Chair.

Photographs showing installation of boards indicating "Water is not fit for drinking" in English as well as Punjab on contaminated tubewells declared by Joint Committee in the matter of OA no. 169/2021 titled as HC Arora Vs. State of Punjab & Ors.




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[CITIZEN SERVICES](#)
[MEDIA GALLERY](#)
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SANGRUR


ABOUT DISTRICT

The District of Sangrur takes its name from its headquarters town, Sangrur. It is said to have been founded by one Sanghu, a Jat, about four hundred years back. Sangrur districts in Patiala Division.

[View More](#)

DISTRICT AT A GLANCE

- ▶ Area: 3625 Sq Km
- ▶ Population: 16,55,169
- ▶ Blocks: 8
- ▶ Assembly Constituencies: 5

WHAT'S NEW

NOTIFICATION

- ▶ [Admission Pamphlet of IKGPTU Kapurthala 2022-2023](#)
- ▶ [Preparation of District Survey Reports in the State of Punjab](#)
- ▶ [Site of M/s Mahaluxmi Orgochem Industries, Village Aloarkh, Tehsil Bhawanigarh, Distt. Sangrur has been declared as 'Contaminated Site' as per orders passed by the](#)
- ▶ [Ex-Gratia grant for Corona Death Cases](#)
- ▶ [Mediation Rules for Mediation Cell under District Consumer Disputes Redressal Commission](#)
- ▶ [Applications for Mediator in District Consumer Disputes Redressal Commission Sangrur](#)
- ▶ [Regarding the Online Single-window clearance system for Travel agent License](#)
- ▶ [Facilities for Persons with Disabilities under RPwD Act, 2016](#)
- ▶ [Regarding Do's and Don'ts on Coldwave/Frost](#)
- ▶ [Environmental clearance for Development of Delhi-Amritsar-Katra expressway](#)

TENDER

RECRUITMENT

English translation from Punjabi language

Office of the

Deputy Commissioner, Sangrur

Telephone:+911672-234004 Email: dc.sgr@punjab.gov.in



**(Sadar Kanugo
Branch)**

Office

Deputy Commissioner, Sangrur

Telephone:+911672-234004 Email: dc.sgr@punjab.gov.in

To

The Environmental Engineer
Punjab Pollution Control Board,
Regional Office, Industrial Focal Point,
Sangrur

No. 1466/ANSK

Dated 02.06.2022

Subject: OA no. 169/2021 titled as H.C. Arora Vs State of Punjab & Ors.

Ref: Your office letter no. 819 dated 13.04.2022.

With regard to the subject cited above, it is requested that as per the contents of your letter and report of halka Patwari, Munadi for the awareness of the people of village Alorakh of Tehsil Bhawanigarh and its neaby villages of Bapokheer, Dayalgarh, Bakhtara has been carried out through chowkidar. Report is being sent for necessary action, please.

**For Collector
District Sangrur**

English translation from Punjabi language

Shri Maan Ji,

It is requested that as per letter no. 819 dated 13.04.2022, the site of M/s Matharu Chemical Pvt. Ltd. Village, Aloarakh has been declared as contaminated site by the Hon'ble National Green Tribunal vide order dated 31.03.2022. Munadi for the awareness of the people of village Alorakh of Tehsil Bhawanigarh and its neaby villages of Bapokheer, Dayalgarh, Bakhtara has been carried out through chowkidar. Report in Rojnamcha regarding Munadi has also been recorded vide no. 379 dated 02.06.2022 and same is submitted in compliance to the orders, please.

Halka Alorakh
02/06/2022

Jora Singh Namberdar,
Village Alorakh (Sangrur)

Gurnam Singh Chowkidar
Village Bapokheer

Dilwara Singh Namberdar
Village Dyalgarh

PUNJAB POLLUTION CONTROL BOARD VATAVARAN BHAVAN,
NABHA ROAD, PATIALA
GROUND WATER REPORT

1. Laboratory Sample No. GW 105-109/ H.O.Lab./ G.W. Monitoring/2022-09/8/22
2. ULR Number ULR-TC70451800000000
3. Name of Industry Ground Water sample collected from M/s matharu Chemical Pvt Ltd, Village Alorakh, Tehsil Bhawanigarh, Distt Sangrur.
4. Name of Sample collecting Officer Er. Sachin Singla, AEE
5. Designation of authorizing Test EE, RO, Sangrur
6. Date & Time of Sample collection 18.07.2022
7. Date & Time of Sample receipt in Lab. 19.07.2022
8. Period of Analysis 19.07.2022 to 04.08.2022
9. Test Methods As per relevant parts of IS:3025/IS:1622 & Methods of APHA

Results

Sr. no.	Parameters	From Tubewell of Sh. Amrit Singh S/o Sh. Rajwant Singh	From Tubewell of Sh. Kulwinder Singh S/o Charan Singh	Farm Tubewell of Sh. Dilbag Singh S/o of Jagar Singh	From tubewell of Sh. Kulwinder Singh S/o Sh. Gurnam Singh	Tubewell of Sh. Rajwant Singh S/o Sh. Faggar Singh (pig Farm)
1	pH	7.3	7.2	7.5	7.7	7.3
2	Electrical Conductance $\mu\text{S}/\text{cm}$	1943	1610	843	689	647
3	Chemical Oxygen Demand mg/l	184	303	22	BDL	BDL
4	BOD mg/l	8	14	BDL	BDL	BDL
5	Total Hardness mg/l	526	516	272	300	360
6	Calcium mg/l	128	120	61	67	80
7	Magnesium mg/l	50	52	29	32	39
8	Chloride mg/l	264	189	58	24	22
9	Sulphate mg/l	288	278	58	38	41
10	Fluoride mg/l	0.3	0.2	0.2	0.1	0.1
11	Phosphate mg/l	0.29	0.35	BDL	BDL	BDL
12	Nitrate Nitrogen mg/l	0.95	0.83	0.61	0.32	0.28
13	Sodium mg/l	216	182	109	78	54
14	Pottassium mg/l	18	20	23	23	15
15	SAR	4.1	3.5	2.9	2.0	1.2
16	Phenolic Compound mg/l	BDL	BDL	BDL	BDL	BDL
17	Copper mg/l	BDL	BDL	BDL	BDL	BDL
18	Iron mg/l	BDL	BDL	0.17	0.41	0.47
19	Zinc mg/l	BDL	BDL	0.11	0.18	0.15
20	Magnesse mg/l	BDL	BDL	BDL	BDL	BDL
21	Selenium mg/l	BDL	BDL	BDL	BDL	BDL
22	Silver mg/l	BDL	BDL	BDL	BDL	BDL
23	Cadmium mg/l	BDL	BDL	BDL	BDL	BDL
24	Lead mg/l	BDL	BDL	BDL	BDL	BDL
25	Arsenic mg/l	BDL	BDL	BDL	BDL	BDL
26	Nickel mg/l	BDL	BDL	BDL	BDL	BDL
27	Total Chromium mg/l	BDL	BDL	BDL	BDL	BDL

BDL means below method Detection Limit.

--End of Report--

Endst. No: 16893-95.

Dt. 05/8/22

A copy of the above is forwarded to the:-

1. The Chief Environmental Engineer (Water), Punjab Pollution Control Board, Ludhiana
2. The Senior Environment Engineer, Punjab Pollution Control Board, Zonal Office-2, Patiala.
3. The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Sangrur.

Asst. Scientific Officer



Avantha Centre for Industrial Research & Development

(Partners in Industrial Progress)

Thapar Technology Campus, Bhadson Road, Patiala-147 004 (Punjab)

Email: bhardwaj@avantharesearch.org, csc@avantharesearch.org

Tel. +91(175) 2393588, 2393590 URL: www.avantharesearch.org

AVANTHA

TEST REPORT


Customer's Address	Punjab Pollution Control Board, Kheti Daftar, Focal Point, Sangrur, Punjab	Report No.	22/ACIRD/136
		Date	22.07.2022
		PI No. & Date	E13610 dated 16.07.2022
		Party's Ref.	Letter No. 2948 on dt. 15.07.2022
Sample Description	Kind Attn: Mr. Sachin Singla		
	Effluent sample(s) submitted by customer	Date of Receipt	16.07.2022
		Date of Start	18.07.2022
		Date of Completion	22.07.2022
No. of Sample(s)		10 05	

TEST RESULTS

S. N.	Test Parameter	Unit	Results					Test Method
			GW-1	GW-12	GW-3	GW-4	GW-5	
1	CO ₃	mg/l	ND	ND	ND	ND	ND	IS: 3025 (P-23)
2	HCO ₃	mg/l	337	350	356	343	294	
3	SiO ₂	mg/l	46.3	35.5	27.6	24.5	32.1	APHA: 4500 Si C
4	TOC	mg/l	112.0	52.5	18.8	3.8	19.6	APHA: 5310 D

ND: Not detected

-----End of Report-----


(Dr. Nishi Kant Bhardwaj)
Authorized Signatory

This report contains ONE page(s) only

Note 1:

- The above results refer only to the tested sample(s) and applicable parameters submitted by customer; Endorsement of products is neither inferred nor implied.
- Samples will be destroyed after one month from the date of issue of test report unless otherwise specified.
- The report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without special permission in writing.
- In case any reconfirmation of contents of the test report is required, please contact the authorized signatory of the test report within 15 days of the issue of the report.

Note 2: The feedback form is attached. Please fill the same and revert to the authorised signatory so that we can improve upon our services.

**PUNJAB POLLUTION CONTROL BOARD VATAVARAN BHAVAN,
NABHA ROAD, PATIALA
GROUND WATER REPORT**

- | | |
|--|---|
| 1. Laboratory Sample No. | GW 133-36/ H.O.Lab./ G.W. Monitoring/2022 |
| 2. ULR Number | ULR-TC70451800000005246 |
| 3. Name of Industry | Ground Water sample collected in the vicinity of M/s Matharu Chemical Pvt Ltd, Tehsil Bhawanigarh, Distt Sangrur. |
| 4. Name of Sample collecting Officer | Er. Mohit Singla, AEE |
| 5. Designation of authorizing Test | EE, RO, Sangrur |
| 6. Date & Time of Sample collection | 26.08.2022 |
| 7. Date & Time of Sample receipt in Lab. | 29.08.2022 |
| 8. Period of Analysis | 29.08.2022 to 12.09.2022 |
| 9. Test Methods | As per relevant parts of IS:3025/IS:1622 & Methods of APHA |

Results

Sr. no.	Parameters	From Tubewell of Sh. Amrit Singh S/o Sh. Rajwant Singh	From Tubewell of Sh. Kulwinder Singh S/o Charan Singh	From Tubewell of Sh. Dilbag Singh S/o Jagtar Singh	From tubewell of Sh. Kulwinder Singh S/o Sh. Gurnam Singh
1	pH	7.2	7.3	7.9	7.5
2	Electrical Conductance $\mu\text{S}/\text{cm}$	1917	1564	740	684
3	Chemical Oxygen Demand mg/l	168	204	BDL	BDL
4	BOD mg/l	9	11	BDL	BDL
5	Total Hardness mg/l	414	410	245	230
6	Calcium mg/l	70	78	64	66
7	Magnesium mg/l	42	52	21	16
8	Chloride mg/l	234	165	32	30
9	Sulphate mg/l	278	245	56	49
10	Fluoride mg/l	0.2	0.2	0.2	0.1
11	Phosphate mg/l	0.4	0.3	0.1	0.1
12	Nitrate Nitrogen mg/l	1.0	0.7	0.2	0.2
13	Sodium mg/l	210	160	90	75
14	Potassium mg/l	15	13	12	12
15	SAR	6.2	4.5	2.6	2.4
16	Phenolic Compound mg/l	BDL	BDL	BDL	BDL
17	Copper mg/l	BDL	BDL	BDL	BDL
18	Iron mg/l	0.61	0.55	0.14	0.37
19	Zinc mg/l	0.21	0.19	0.10	0.12
20	Manganese mg/l	BDL	BDL	BDL	BDL
21	Selenium mg/l	BDL	BDL	BDL	BDL
22	Silver mg/l	BDL	BDL	BDL	BDL
23	Cadmium mg/l	BDL	BDL	BDL	BDL
24	Lead mg/l	BDL	BDL	BDL	BDL
25	Arsenic mg/l	BDL	BDL	BDL	BDL
26	Nickel mg/l	BDL	BDL	BDL	BDL
27	Total Chromium mg/l	BDL	BDL	BDL	BDL

BDL means below method Detection Limit.

--End of Report--

Endst. No: 19441-43

Dt. 13-9-22

A copy of the above is forwarded to the:-

1. The Chief Environmental Engineer (Water), Punjab Pollution Control Board, Ludhiana
2. The Senior Environment Engineer, Punjab Pollution Control Board, Zonal Office-2, Patiala.
3. The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Sangrur.

for Asst. Scientific Officer

13/9/22

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(Partners in Industrial Progress)

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AVANTHA

TEST REPORT

Customer's Address	Punjab Pollution Control Board, Kheti Daftar, Focal Point, Sangrur, Punjab	Report No.	22/ACIRD/196
		Date	30.08.2022
		PI No. & Date	E19604 dated 27.08.2022
		Party's Ref.	Letter on dated 26.08.2022
Sample Description	Effluent sample(s) submitted by customer	Kind Attn: Mr. Sachin Singla	
		Date of Receipt	27.08.2022
		Date of Start	28.08.2022
		Date of Completion	30.08.2022
		No. of Sample(s)	4

TEST RESULTS

S. N.	Test Parameter	Unit	Results				Test Method
			GW-1	GW-2	GW-3	GW-4	
1	CO ₃	mg/l	ND	ND	ND	ND	IS: 3025 (P-23)
2	HCO ₃		331	368	356	380	
3	SiO ₂		38.7	37.0	20.5	27.8	APHA: 4500 Si C
4	TOC		150.0	97.7	22.7	86.4	APIHA: 5310 D

ND: Not detected

-----End of Report-----

(Dr. Nishi Kant Bhardwaj)
Authorized Signatory

This report contains ONE page(s) only

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