

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

OANo.172of2021

IN THE MATTER OF:

Poonam Yadav

Applicant

Versus

M/s Ecogreen Energy Pvt. Ltd. & Ors

Respondent(s)

with

OANo.109/2022

Vivek Kamboj & Anr

Applicant

Versus

Union of India & Ors

Respondent(s)

INDEX

Sr. No.	Particulars	Page
1.	Action Taken Report	1-14
2.	Copy of Ground Water Samples Testing Reports-Annexure-R/1(Dated 19.01.2024)	15-16
3.	Copy of Ground Water Samples Testing Reports-Annexure-R/2 (Dated 01.03.2024)	17-21
4.	Copy of Ground Water Samples Testing Reports of MC Faridabad-Annexure-R/3	22-41
5.	Medical Report- Annexure-R/4	42-44
6.	Copy of Report of Haryana Agriculture University - Annexure-R/5	45-46
7.	Copy of Sample Report - Annexure- R/6	47

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

OA No.172 of 2021

IN THE MATTER OF:

Poonam Yadav

Applicant

Versus

M/s Ecogreen Energy Pvt. Ltd. & Ors

Respondent(s)

with

OA No.109/2022

Vivek Kamboj & Anr

Applicant

Versus

Union of India & Ors

Respondent(s)

**ACTION TAKEN REPORT BY NARHARI SINGH BANGER,
COMMISSIONER, MUNICIPAL CORPORATION OF
GURUGRAM.**

Most Respectfully Showeth:-

1. That in compliance of order dated 09.01.2024, 22/02/2024 and 12/03/2024 the present report is being submitted to place on record the latest status of progress at Bandhwari site and disposal of waste in compliance of the aforesaid orders. Action taken upon on the issues highlighted in the orders of this Hon'ble Tribunal are summarized in the succeeding paragraphs.
2. That with regard to contamination of ground water, a committee has been constituted comprising of representative of Haryana State Pollution Control Board (HSPCB), MCG officials, Ex-Sarpanch of Bandhwari and

KB

applicant Ms. Vaishali Rana to collect samples of ground water of nearby villages i.e. Bandhwari, Mangar, Balola-Baliawas, Gawal Pahari and Mandi. The samples were collected on 19.01.2024 & 23.01.2024 in the presence of Committee. Sample test reports are annexed as **Annexure-R/1**). There after, in-view of hearing proceeding on 22/02/2024 in the present matter, more samples of ground water were collected by HSBCB and MCG officials on 01/03/2024 of the other villages in vicinity of District Gurugram. Sample report are attached as (**Annexure-R/2**), same has stated that ground water of the villages which are far away from Bandhwari landfill site having parameters like turbidity, TKN (Total Kjeldhal Nitrogen), conductivity and suspended solids are more than the prescribed limit. Similarly 10 samples at Faridabad have also been taken by HSPCB and MCF official & report of the same suggest that the parameter like TSS, TDS, Fluoride, Phosphate, Calcium, Magnesium, Total Hardness and Nitrogen are on higher side than the prescribed limits in IS 10500:2012. Copy of the test reports are attached as **Annexure-R/3**.

The above mentioned locations are far away (20-25 KM) from Bandhwari and there is no possibility of contamination of water due to leachate of Bandhwari. It can therefore be concluded that water sample parameters collected from surrounding areas of Bandhwari are much better as compared to the water sample parameters of areas in Gurugram and Faridabad, which are 20-25 km away from Bandhwari. The parameter which are beyond permissible limits are not due to the leachate of Bandhwari and the parameters keep changing from time to time due to various geological factors including increase/ decrease of water level.

Further, MCG is in the process of engaging the expert services of

AS

The Energy Resources Institute (TERI), New Delhi for conducting detailed study of possibility of contamination of groundwater due to seepage of leachate and to suggest the remedial action, if any contamination is detected.

3. Further, to assess the adverse impact on the health of villagers, after due publication in local Newspapers about the health camps, health camps have been organized on 24.01.2024, 25.01.2024, 29.01.2024, 07.02.2024, 08.02.2024 & 15.03.2024 in the surrounding villages of Sanitary Landfill Site i.e. Bandhwari, Mangar, Balola-Baliawas, Gawal Pahari and Mandi after publication in the Newspapers. Health of 721 nos. of persons has been checked by medical team of Health Department. No serious illness has been detected in any person, by the medical team. However, petitioner submitted during the hearing on 12/03/2024 that there are 07 nos. cancer patients, who were identified in village Bandhwari and Gawal Pahari. In this context, no medical document and prior history of the patients, if any has been annexed in support of his contentions. However, it is humbly submitted that there can be multiple reasons of cancer disease in a person like smoking, alcohol consumption and bad eating habits etc. Further on the direction of Chief Medical Official, Gurugram, the Principal Medical Officer (PMO) Gurugram constituted a team of specialists on 29.03.2024 comprising of Physician, ENT Surgeon, General Surgeon, Microbiologist, to examine the patients mentioned by the applicant and to submit a report. The report of the above medical team has been received and is attached as **Annexure R/4**. The observations of applicant in the OA 109/2022, Vivek Kamboj & Anr. vs. Union of India & Ors. during course of hearing on 09/01/2024 are replied to as under: -

A. No segregation of waste is being undertaken and unsegregated mixed waste is being dumped at the site

The segregation of waste has been disrupted, as the concessionaire M/s Ecogreen Energy Pvt. Ltd. has failed to deliver the services as per provisions made in the concessionaire agreement. Due to failure of the concessionaire on multiple fronts, a preliminary notice of termination was issued on 04.12.2023 in view of provisions in the concessionaire agreement. Since, no improvement in the work is observed during the stipulated period and decision of termination is under consideration at Govt. level. Municipal Corporation, Gurugram and Municipal Corporation, Faridabad invited tenders for engagement of agencies for primary collection of waste in segregated manner, thus, the work will be allotted after the termination. It will be ensured that waste is collected in segregated manner by the agencies to be engaged.

B. Slow progress in processing the legacy waste

That with regard to **Legacy Waste** processed till 31th March 2024 and to be processed there after, it is submitted that: -

- | | | |
|----|--|--------------|
| a) | Total legacy waste assessed in January 2023 = | 30.43Lac MT, |
| b) | Fresh waste received from Jan 2023 to Dec 2023 = | 6.06 Lac MT |
| c) | Fresh waste received from Jan 2024 to Mar 2024 = | 1.30 Lac MT |
| d) | Waste Processed from Jan 2023 to Dec 2023= | 16.50 Lac MT |
| e) | Waste Processed from Jan 2024 to Mar 2024= | 4.88 Lac MT |
| f) | Waste Processed in March 2024 = | 2.33 Lac MT |
| g) | Balance waste to be processed = | 16.41 Lac MT |

In compliance of the directions of Hon'ble NGT, the scope of 4 agencies already working at Bandhwari site has been enhanced by 2.0 Lacs MT i.e. (i) M/s Bhumi Green Energy (1 lac MT), (ii) M/s Green Concrete

13

Construction (0.36 lacs MT), (iii) M/s Aadarsh Bharat Enviro Pvt. Ltd. (0.36 lacs MT) and (iv) M/s Daya Charan & Company (0.28 lacs MT) after taking approval from High Powered Works Committee (HPWC) on 12.01.2024. All these agencies have processed the enhanced quantity of waste. Additionally, the work of processing of legacy waste has also been allotted to 3 agencies i.e. (i) M/s Bhumi Green Energy for 5 lacs MT, (ii) M/s Alfa Therm for 5 lacs MT and (iii) M/s Daya Charan & Company for 3 lacs MT, after taking approval from High Powered Works Committee (HPWC) on 23.01.2024. Further, the processing capacity of all the agencies as on 31.03.2024 is mentioned as under: -

Sr. No	Name of agency	Total number of Trommels made operational as on 08.02.2024	Optimum Processing Capacity
1.	M/s Bhumi Green Energy	11 (03 processing units)	Capacity = 5000 TPD
2.	M/s Daya Charan & Company	09 (05 processing units)	Capacity = 5000 TPD
3.	M/s Alfa Therm	13 (05 processing units)	Capacity = 4800 TPD
4.	M/s Zigma Global Enviro. Pvt. Ltd.	05 (02 processing units)	Capacity = 1200 TPD
	Total	38 (15 processing units)	Total Capacity = 16000 TPD

C. No processing of waste is taking place by bulk waste generators, leading to dumping of waste at Bandhwari landfill

That in MCG 393 Bulk Waste Generators (BWGs) are processing their waste within their own premises and about 153.8 TPD of fresh waste is being processed by these BWGs. Further, 181 Bulk Waste Generators are also processing 28 TPD waste within their own premises in Municipal Corporation Faridabad. Commissioner, Municipal

Handwritten signature

Corporation, Gurugram constituted teams headed by Joint Commissioner of concerned zone for implementation of BWG's norms as per the SWM Rules, 2016. For non-compliance of the norms, MCG has penalized 341 BWGs with a penalty of Rs. 29,43,000/- and MCF has penalized 217 BWGs being imposing a penalty of Rs. 54,25,000/-

D. The averment that leachate is being treated at STPs is misleading and false

That with regard to Leachate Management, it is submitted that the legacy leachate stored at Bandhwari SLF site has been disposed off. It is further submitted that approximately 400 KLD leachate is being generated at dump site which increases during rainy season, depending upon the quantum of rainfall, moisture content and meteorological conditions. Although, treatment of fresh leachate @ of 480 KLD in 02 DTRs (capacity of 200 KLD each) and 150 KLD leachate treatment plant at the end of M/s Ecogreen Energy Pvt. Ltd is a challenge at present due to the failure of concessionaire M/s Eco Green Energy Pvt. Ltd. issue of notice to terminate the agreement is under consideration. However, shifting of the leachate through tankers is being ensured by the Municipal Corporation, Gurugram for treatment at 120 MLD (120000 KLD) STP of GMDA at Behrampur, Gurugram. There is no discharge of leachate on the land surrounding to Bandhwari SLF. The samples are being tested on daily basis by GMDA at inlet and outlet of STP and same have also been got tested by HSPCB and reports are found satisfactory. It is further submitted that about 500 KLD leachate is being disposed off in 120 MLD STP at Behrampur. This quantity of the leachate is 0.4% of total capacity of the STP, which is very less and practically, there is no effect on the

13

- treatment process. Further, as pointed out by Hon'ble NGT, mechanism of disposal has been strengthened, as GMDA verifies the disposal at STP before release of any payment to the agency operating the tankers.
4. Additionally, significant progress has been made and reported by Municipal Corporation Faridabad in the development for setting up decentralized waste processing units at Mujeri and Pratapgarh (with combined capacity of 300TPD). At Mujeri, all development works, including the construction of platform for garbage, platform for trommel, drains, leachate tank, and installation of weighbridge, have been successfully completed. The trommel has also been installed at the site, and garbage processing operations have commenced w.e.f 07.02.2024. Furthermore, at Pratapgarh, despite facing widespread public protests and work stoppages for several months, the Municipal Corporation Faridabad (MCF) has persevered in managing on-site issues. Consequently, development works at Pratapgarh MSW processing site were successfully resumed on 03.01.2024 with police assistance. Presently, the development works at the site have been completed, and trommels are being installed at the site. The Bio-remediation work has been started w.e.f. 01.04.2024 at site.
5. That on 12/03/2024 the petitioner submitted response against the affidavit of C & S ULB, Haryana and MCG on 22/02/2024. The deponent wishes to place on record the additional material regarding latest progress achieved in legacy waste processing, fresh waste processing, permissible use of bio-soil received as fraction after processing of legacy waste, additional ground water sampling & analysis reports. The samples of Bio-soil got tested from ICAR Lab and Haryana Agriculture University,



Hisar Lab. As per the test report all the parameters except PH are found in the permissible limit and this bio-soil can be utilized for filling as well as agriculture purpose as there is no harmful substance found. As per guidelines, slightly high PH can be improved of bio-soil by mixing gypsum by the farmers on recommendation of Agriculture University.

6. That in furtherance of order dated 22.02.2024 passed by this Hon'ble Tribunal allowing one weeks time to applicant to file reply in response to report(s) uploaded on the website, reply of applicant has been received on 07.03.2024. The para wise response to same is as under:

1. That the contents of para no.1 of the reply are denied to the extent those are contrary to tenor of present affidavit. It is humbly submitted that Urban Local Bodies Department along with Municipal Corporation of Gurugram & Faridabad are committed for proper disposal of waste and are cautious for compliance of statutory norms. It is submitted that as on today, no leachate is overflowing in the surrounding area of Bandhwari Sanitary Landfill Site and same was not overflowing on the dates when the submissions dated 10.02.2024 and 19.02.2024 were submitted before this Hon'ble Tribunal. The steps taken to handle the leachate discharged in past, due to heavy rain have already been placed on record by way of previous reports, contents of them are not being repeated herein for the sake of brevity. It is further submitted that despite provision to collect the leachate at site, in case leachate is being discharged outside the site due to reasons beyond control i.e. heavy rain etc., the Municipal Corporation of Gurugram is committed to take remedial measures immediately.
2. The contents of para no.2 are a matter of record.

13

3. The contents of para po.3 are a matter of record.
4. The contents of Para no.4 are a matter of record.
5. That the contents of para no.5 of the reply are incorrect and denied to the extent that those are contrary to submissions made in Status Report(s)/Action Taken Report(s) submitted on behalf of answering respondent. It is humbly submitted that at present no leachate is overflowing beyond the boundaries of Bandhwari SLF. For collection of leachate, a peripheral drain had been excavated and lined with HDPE liner and leachate is being collected in leachate collection tanks through this drain & pumping system.
6. That the contents of para no. 6 of the reply are incorrect and denied. The submissions made in affidavit and Action Taken Report is reiterated. It is submitted that as on today, no leachate is overflowing in the surrounding area of Bandhwari Sanitary Landfill Site and same was not overflowing on the dates when the affidavit dated 10.02.2024 and Action Taken Report dated 19.02.2024 were submitted before this Hon'ble Tribunal.
- 7-11. That the photographs stated to be taken on 22.02.2024 are the photographs of a low lying area at a distance of about more than 1 Km from Bandhwari Landfill Site. The area shown in photograph is low lying area, where rainwater might accumulate after the rainfall in the area on 19.02.24 and 20.02.24. It seems that the dirty rainwater accumulated in the low lying area has been mistaken as leachate. However, the accumulated water has also been cleared from the area .It is denied that leachate is reaching to the sites upto more than a



kilometer away from SLF site. The mentioning of high figures to portray the high quantum of leachate in para no.10 of reply are incorrect. For collection of leachate, a peripheral drain had been excavated and lined with HDPE liner and leachate is being collected in leachate collection tanks through this drain & pumping system.

12. That applicant has given a suggestion and MCG is already in the process of setting up of de-centralized processing facilities.

13-18. That the contents of affidavits and Action Taken Report referred by the applicant are being reiterated. The Analysis Reports received from the HSPCB were annexed with the affidavit and Action Taken Report. It has neither been the motive to make incorrect averment nor same was made. In fact, the issue is that whether ground water is contaminated due to a seepage of leachate from Bandhwari or not. It is submitted that more ground water samples of other villages which are beyond the vicinity of Bandhwari have also been collected by HSPCB for testing & for comparative analysis. The IS 10500:2012 states that there are two different parameters for drinking water i.e. acceptable limit and permissible limit in absence of alternate source. The applicant has relied only upon the acceptable limit. Most of the parameters of drinking water are within the permissible limits in absence of alternate source. The comparison is already mentioned at point no. 2 above.

19. That the contents of para no. 19 are matter of record.

20. That the contents of para no.20 are denied for want of knowledge.

21. That the contents of para no.21 are denied for want of knowledge. No

medical document and prior history of the patient, if any has been annexed in support of his contentions. However, it is humbly submitted that there can be multiple reasons of cancer disease in a person like smoking, alcohol consumption and bad eating habits etc. Hence, the reason specific cannot be established without investigation from medical experts. The Medical/ Health Camps will be organized by MCG regularly.

Further on the direction of Chief Medical Official, Gurugram, the Principal Medical Officer (PMO) Gurugram constituted a team of specialists on 29.03.2024 comprising of Physician, ENT Surgeon, General Surgeon, Microbiologist, to examine the patients mentioned by the applicant and to submit a report. The report of the above medical team has been received and is attached as Annexure R/4.

22. That in response to para 22 of the reply of applicant it is submitted that wide publicity of medical camps was done by MCG through muniyadi and newspapers. The applicants were also informed about the medical camps. The camps were conducted by health department of Haryana and medical checkup of the residents of the villages was conducted who has presented themselves for the same.

23. That contents of above para nos. 21 and 22 are being reiterated.

24. That the contents of para no. 24 are incorrect and denied. Only the fractions received after processing of legacy waste have been utilized for filling in the low-lying areas. The parameters of the fractions used for filling at Sainik colony & other sites mentioned in the affidavit by

13

the applicant have been got tested from NABL accredited Lab i.e. Scientific Infra Geo investigation Lab and results are that plastic content in the fraction is only 2.51% (Sample reports are annexed at Annexure/R-6). Further, as per CPCB guidelines for disposal of legacy waste (old municipal solid waste) 2019, section 4.1 of the same provide that "the heavier mid-fractions are mostly stony inert which can be used in the lowest layers of road making or plinth-filling or in low-lying areas, but should not contain more than 3-5% plastics by weight." Also the samples of Bio-soil got tested from CRAI and Haryana Agriculture University Hisar, as per the test report all the parameter except PH are found in the permissible limit and this bio-soil can be utilized in for filling as well as agriculture purpose as there is no harmful substance found. As per discussions held with HAU ,Soil Sciences Department, PH of bio-soil can be maintained by mixing gypsum as per requirement.

25. That the contents of para no.25 are matter of record.
26. The compost/bio-soil produced by processing of legacy waste has also been got tested from Central Laboratory for Soil and Plant Analysis (a division ,of Soil Science and Agriculture Chemistry, ICAR-Indian Agricultural Research Institute, New Delhi) and Haryana Agriculture University, Hisar. The samples of Bio-soil got tested from CRAI and Haryana Agriculture University Hisar, as per the test report all the parameter accepted PH are found in the permissible limit and this bio-soil can be utilized in for filling as well as agriculture purpose as there is no harmful substance found. As per discussions held with HAU , Soil Sciences, Department, PH of bio-soil can be improved by mixing

13

gypsum by the farmers on recommendation of agriculture university.

27-28. That in reply to para 27, 28 of applicant's response, the contents of above para nos. 25, 26 are reiterated.

29-30. That it is humbly submitted that Urban Local Bodies Department along with Municipal Corporation of Gurugram & Faridabad are committed for proper disposal of waste and are cautious for compliance of statutory norms. The directions passed by this Hon'ble Tribunal shall be complied with.

31. It is further submitted that about 17 Lac MT legacy waste is yet to be processed and following fractions are expected to be obtained:

1. RDF = 3.4 Lac MT
2. Bio-soil = 9.50 Lac MT
3. Inert = 3.30 Lac MT
4. C & D = 0.80 Lac MT

As mentioned in above paras, the fractions will be disposed accordingly. However, we are in touch with various institutions and organizations for utilization of fractions to find a long term sustainable solution which are mentioned as under:

- NTPC for use of RDF in their Power Plants for co-firing in the boilers along-with conventional fuel such as coal.
- Ch. Charan Singh Haryana Agriculture University Hisar (HAU) is being contacted for suggesting the improvement required in Bio-soil to make it an organic compost by fortifying the same including mixing of organic material and minerals and to encourage the farmers to utilize the same for agriculture purpose.

13

- NHAI, PWD (B & R), GMDA, HSIIDC are also being contacted for utilization of the bio-soil in their road embankment projects.
- The National Council for Cement & Building Materials (NCCBM) is also being requested for testing the bio-soil and to find a solution, so that this can be used for manufacture of Bricks & Fire Bricks or any other construction material.
- A meeting is proposed to be held with HSPCB, DFO Gurugram (Forest Department), DFO-GMDA and MCG for utilisation of bio-soil, inert and C&D waste for construction of Ring-Bandh along the boundary of SLF Bandhwari and flood protection Bandh near Najafgarh Drain, Delhi.

It is therefore, submitted that sincere efforts are being made for treatment of legacy waste, fresh waste, leachate, as per directions of the Hon'ble Tribunal. It is prayed that directions may be passed to NTPC, NHAI, HAU, Forest Dept. and State Govt. agencies like PWD-B&R, Irrigation Dept. , GMDA, FMDA, HSVP, HSIIDC to support Municipal Corporation, Gurugram and to utilize the fractions obtained by processing of legacy waste. It is also prayed that HSPCB may be directed to do regular testing of tubewell water being supplied for drinking purpose in various villages , in the vicinity of Bandhwari .Further directions that may be passed by this Hon'ble Tribunal will also be complied with, in letter & spirit.

Place: Gurugram
Date: 03.04.2024


Commissioner,
Municipal Corporation,
Gurugram



Paid / Monitoring

Description

Report No: 523

Dated: 30.01.2024

- Tubewell water samples from :-
1. Tubewell in the premises of Mandir (Teen Murti), Bandhwari Gurugram
 2. Tubewell in premises of Hanuman Mandir, Bandhwari Gurugram
 3. Tubewell in the land of Sh. Pawan, Bandhwari Gurugram
 4. Tubewell in the land of Sh. Vipin Kalra, Bandhwari Gurugram

Description of the Sample: - Received on 20.01.2024 samples of Tubewell Water from Sh. Aparnesh Kumar, Sc 'B', Sh. Harbir, Sarpanch, Sh. Sarjeet, JEE, MCG & Sh. OP Goyal, SBM collected on 19.01.2024.

ANALYSIS REPORT
RESULTS

No. Parameters	(1)	(2)	(3)	(4)
Colour	Colourless	Colourless	Colourless	Colourless
Odour	Odourless	Odourless	Odourless	Odourless
pH value	8.5	8.4	8.1	8.5
Suspended Solids mg/l	05	07	08	10
B.O.D. for 3 days at 27°C mg/l	ND	ND	ND	ND
C.O.D. mg/l	04	ND	08	ND
Oil & Grease mg/l	ND	ND	ND	ND
Conductivity us/cm	1060	1070	1090	710
Total Dissolved Solids mg/l	530	535	540	350
Chlorides as Cl mg/l	54.1	322	160	87.0
Sulphide as S mg/l	ND	ND	ND	ND
Total Hardness as CaCO ₃ mg/l	308	776	506	476
Fluoride as F mg/l	0.4	0.6	0.4	0.4
Iron as Fe mg/l	ND	ND	ND	ND
Phosphate as P mg/l	ND	ND	ND	ND
Nickel as Ni mg/l	ND	ND	ND	ND
Total Chromium as Cr mg/l	ND	ND	ND	ND
Calcium as Ca mg/l	68.0	204	112	74.0
Magnesium mg/l	33.0	64.2	55.0	71.0
Sulphate as SO ₄ mg/l	16.0	67.0	28	23.0
Sodium mg/l	72.6	117.0	76.0	70.0
Dissolved Oxygen, mg/l	6.2	5.8	6.0	6.0
Boron as B mg/l	ND	ND	ND	ND
Nitrite (NO ₂) mg/l	ND	ND	ND	ND
Nitrate (NO ₃) mg/l	12.0	40.0	55.0	102
TKN (Total Kjeldhal Nitrogen) mg/l	ND	ND	ND	ND
Turbidity NTU	3.2	0	0	04
Fecal Coliform, MPN/100ml	ND	ND	ND	ND

Sample Collected/Not Collected by us
Sample Consumed in testing

HSPCB/Lab/GR/2024/ 2137
Copy to M.S./R.O.

LAB INCHARGE

Dated 30.1.24



Paid / Monitoring

Report No: 525
Dated: 30.01.2024

Description

Borewell water samples from :-

1. Borewell from Police Station, Village-Banger, Gurugram
2. Borewell from Farm House, Village-Banger, Gurugram
3. Borewell from Govt. School, Baliyawas, Gurugram
4. Borewell from Ram Mandir, Gawal Pahri, Gurugram
5. Borewell from Village-Mandir, Vidya Chowk, Mandir, Gurugram

Description of the Sample: - Received on 23.01.2024 samples of Tubewell Water from Sh. Aparnesh Kumar, Sc 'B', Sh. Sarjeet, JEE, MCG & Sh. OP Goyal, SBM collected on 23.01.2024.

ANALYSIS REPORT

Sr. No	Parameters	RESULTS				
		(1)	(2)	(3)	(4)	(5)
	Colour	Colourless	Colourless	Colourless	Colourless	Colourless
	Odour	Odourless	Odourless	Odourless	Odourless	Odourless
	pH value	8.0	8.0	7.9	8.0	8.0
	Suspended Solids mg/l	08	07	10	21	08
	B.O.D. for 3 days at 27°C mg/l	ND	ND	ND	ND	ND
	C.O.D. mg/l	04	04	04	ND	04
	Oil & Grease mg/l	ND	ND	ND	ND	ND
	Conductivity us/cm	680	1750	960	1050	910
	Total Dissolved Solids mg/l	340	870	530	520	450
0.	Chlorides as Cl mg/l	78	79	153	154	57
1.	Sulphide as S mg/l	ND	ND	ND	ND	ND
2.	Total Hardness as CaCO ₃ mg/l	552	544	514	446	438
3.	Fluoride as F mg/l	0.4	0.5	0.4	0.3	0.5
4.	Iron as Fe mg/l	ND	ND	ND	ND	ND
5.	Phosphate as P mg/l	ND	ND	ND	ND	ND
6.	Nickel as Ni mg/l	ND	ND	ND	ND	ND
7.	Total Chromium as Cr mg/l	ND	ND	ND	ND	ND
8.	Calcium as Ca mg/l	119	143	163	120	115
9.	Magnesium mg/l	61	45	25	34	36
0.	Sulphate as SO ₄ mg/l	32	35	30	30	35
1.	Sodium mg/l	82	83	60	23	81
2.	Dissolved Oxygen, mg/l	5.8	6.0	5.7	5.9	6.1
3.	Boron as B mg/l	ND	ND	ND	ND	ND
4.	Nitrite (NO ₂) mg/l	ND	ND	ND	ND	ND
5.	Nitrate (NO ₃) mg/l	36	25	11	07	59
6.	TKN (Total Kjeldhal Nitrogen) mg/l	ND	ND	ND	ND	ND
7.	Turbidity NTU	02	0	07	02	04
8.	Fecal Coliform, MPN/100ml	ND	ND	ND	ND	ND

Sample Collected/Not Collected by us
Sample Consumed in testing

HSPCB/Lab/GR/2024/ 2139
Copy to M.S./R.O.

LAB INCHARGE
Dated 30.1.24

1534



Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan Ist Floor Gurgaon

Tel-2332596 Annexure K/2

Paid / Monitoring

- Description
1. Groundwater samples Village-Lokra, 28.276518, 76.791218
 2. Groundwater samples Village-Pataudi, 28.322022, 76.786687
 3. Groundwater samples Village-Mehchana, 28.392707, 76.749712

Report No: 540
Dated: 12.03.2024

Description of the Sample: - Received on 01.03.2024 samples of Tubewell Water from Sh. Sidharth Bhargava, AEE collected on 01.03.2024.

ANALYSIS REPORT

RESULTS

Sr. No.	Parameters	(1)	(2)	(3)	Prescribed Limit
1.	Colour	Colourless	Colourless	Colourless	--
2.	Odour	Odourless	Odourless	Odourless	--
3.	pH value	7.3	7.4	7.3	6.5-8.5
4.	Suspended Solids mg/l	12	08	11	--
5.	B.O.D. for 3 days at 27°C mg/l	BDL	BDL	BDL	2.0
6.	C.O.D. mg/l	BDL	BDL	BDL	--
7.	Oil & Grease mg/l	BDL	BDL	BDL	--
8.	Conductivity us/cm	1406	980	1520	--
9.	Total Dissolved Solids mg/l	708	476	780	2000
10.	Chlorides as Cl mg/l	260	58	375	1000
11.	Sulphide as S mg/l	BDL	BDL	BDL	0.05
12.	Total Hardness as CaCO ₃ mg/l	434	132	202	600
13.	Fluoride as F mg/l	BDL	1.0	BDL	1.5
14.	Iron as Fe mg/l	BDL	BDL	BDL	0.3
15.	Phosphate as P mg/l	BDL	BDL	BDL	--
16.	Nickel as Ni mg/l	BDL	BDL	BDL	--
17.	Total Chromium as Cr mg/l	BDL	BDL	BDL	--
18.	Calcium as Ca mg/l	117	21	42	200
19.	Magnesium mg/l	34	19	24	100
20.	Sulphate as SO ₄ mg/l	24	13	12	400
21.	Dissolved Oxygen, mg/l	7.3	7.5	7.0	6.0
22.	Boron as B mg/l	BDL	BDL	BDL	1.0
23.	Nitrite (NO ₂) mg/l	BDL	BDL	BDL	--
24.	Nitrate (NO ₃) mg/l	24	10	32	45
25.	TKN (Total Kjeldhal Nitrogen) mg/l	3.0	BDL	2.8	--
26.	Turbidity NTU	12	32	15	5.0
27.	Fecal Coliform, MPN/100ml	BDL	BDL	BDL	50

Sample Collected/Not Collected by us
Sample Consumed in testing

HSPCB/Lab/GR/2024/2468
Copy to M.S./R.O.

LAB INCHARGE

Dated 12/03/2024



Paid / Monitoring

- Description
1. Groundwater samples Village-Jamalpur, 28.374878, 76.834301
 2. Groundwater samples Village-Wazirpur, 28.420905, 76.914932
 3. Groundwater samples Village-Narsingpur, 28.412173, 76.493452

Report No: 541
Dated: 12.03.2024

Description of the Sample: - Received on 01.03.2024 samples of Tubewell Water from Sh. Sidharth Bhargava, AEE collected on 01.03.2024.

ANALYSIS REPORT

Sr. No.	Parameters	RESULTS			Prescribed Limit
		(1)	(2)	(3)	
1.	Colour	Colourless	Colourless	Colourless	--
2.	Odour	Odourless	Odourless	Odourless	--
3.	pH value	7.4	7.3	7.2	6.5-8.5
4.	Suspended Solids mg/l	07	12	09	--
5.	B.O.D. for 3 days at 27°C mg/l	BDL	BDL	BDL	2.0
6.	C.O.D. mg/l	BDL	BDL	BDL	--
7.	Oil & Grease mg/l	BDL	BDL	BDL	--
8.	Conductivity us/cm	1410	1180	3770	--
9.	Total Dissolved Solids mg/l	712	564	1890	2000
10.	Chlorides as Cl mg/l	286	130	1302	1000
11.	Sulphide as S mg/l	BDL	BDL	BDL	0.05
12.	Total Hardness as CaCO ₃ mg/l	390	188	920	600
13.	Fluoride as F mg/l	BDL	BDL	0.8	1.5
14.	Iron as Fe mg/l	BDL	BDL	BDL	0.3
15.	Phosphate as P mg/l	BDL	BDL	BDL	--
16.	Nickel as Ni mg/l	BDL	BDL	BDL	--
17.	Total Chromium as Cr mg/l	BDL	BDL	BDL	--
18.	Calcium as Ca mg/l	42	44	70	200
19.	Magnesium mg/l	18	21	181	100
20.	Sulphate as SO ₄ mg/l	90	14	106	400
21.	Dissolved Oxygen, mg/l	7.3	7.1	6.5	6.0
22.	Boron as B mg/l	BDL	BDL	BDL	1.0
23.	Nitrite (NO ₂) mg/l	BDL	BDL	BDL	--
24.	Nitrate (NO ₃) mg/l	09	28	16	45
25.	TKN (Total Kjeldhal Nitrogen) mg/l	2.8	BDL	3.6	--
26.	Turbidity NTU	46	10	42	5.0
27.	Fecal Coliform, MPN/100ml	BDL	BDL	BDL	50

Sample Collected/Not Collected by us
Sample Consumed in testing

HSPCB/Lab/GR/2024/2470
Copy to M.S./R.O

LAB INCHARGE
Dated 12/03/2024

1536



Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan 1st Floor Gurgaon

Tel-2332596

Paid / Monitoring

- Description
- Groundwater samples Village-Begumpur, 28.416805, 77.012045
 - Groundwater samples Village-Kherki Daula, 28.401346, 76.956937

Report No: 542
Dated: 12.03.2024

Description of the Sample: - Received on 01.03.2024 samples of Tubewell Water from Sh. Sidharth Bhargava, AEE collected on 01.03.2024.

ANALYSIS REPORT
RESULTS

Sr. No.	Parameters	(1)	(2)	Prescribed Limit
1.	Colour	Colourless	Colourless	--
2.	Odour	Odourless	Odourless	--
3.	pH value	7.4	7.6	6.5-8.5
4.	Suspended Solids mg/l	08	11	--
5.	B.O.D. for 3 days at 27°C mg/l	BDL	BDL	2.0
6.	C.O.D. mg/l	BDL	BDL	--
7.	Oil & Grease mg/l	BDL	BDL	--
8.	Conductivity us/cm	1890	1220	--
9.	Total Dissolved Solids mg/l	924	658	2000
10.	Chlorides as Cl mg/l	265	166	1000
11.	Sulphide as S mg/l	BDL	BDL	0.05
12.	Total Hardness as CaCO ₃ mg/l	308	158	600
13.	Fluoride as F mg/l	BDL	BDL	1.5
14.	Iron as Fe mg/l	BDL	BDL	0.3
15.	Phosphate as P mg/l	BDL	BDL	--
16.	Nickel as Ni mg/l	BDL	BDL	--
17.	Total Chromium as Cr mg/l	BDL	BDL	--
18.	Calcium as Ca mg/l	52	28	200
19.	Magnesium mg/l	42	22	100
20.	Sulphate as SO ₄ mg/l	124	30	400
21.	Dissolved Oxygen, mg/l	7.2	7.4	6.0
22.	Boron as B mg/l	BDL	BDL	1.0
23.	Nitrite (NO ₂) mg/l	BDL	BDL	--
24.	Nitrate (NO ₃) mg/l	BDL	40	45
25.	TKN (Total Kjeldhal Nitrogen) mg/l	BDL	BDL	--
26.	Turbidity NTU	48.0	5.0	5.0
27.	Fecal Coliform, MPN/100ml	BDL	BDL	50

Sample Collected/Not Collected by us
Sample Consumed in testing

HSPCB/Lab/GR/2024/2472
Copy to M.S./R.O

LAB INCHARGE

Dated 12/03/2024



20

Tel-2332596

1537

**Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan Ist Floor Gurgaon**

Paid / Monitoring

- Description
1. Groundwater samples Village-Khera Khurampur, 28.447893, 76.783488
 2. Groundwater samples Village-Basunda Tripati, 28.402553, 76.776265
 3. Groundwater samples Village-Fazilpur Badli, 28.409233, 76.826253

Report No: 539
Dated: 12.03.2024

Description of the Sample: - Received on 01.03.2024 samples of Tubewell Water from Sh. Sidharth Bhargava, AEE collected on 01.03.2024.

**ANALYSIS REPORT
RESULTS**

Sr. No.	Parameters	(1)	(2)	(3)	Prescribed Limit
1.	Colour	Colourless	Colourless	Colourless	--
2.	Odour	Odourless	Odourless	Odourless	--
3.	pH value	7.2	7.2	7.3	6.5-8.5
4.	Suspended Solids mg/l	10	06	11	--
5.	B.O.D. for 3 days at 27°C mg/l	BDL	BDL	BDL	2.0
6.	C.O.D. mg/l	BDL	BDL	BDL	--
7.	Oil & Grease mg/l	BDL	BDL	BDL	--
8.	Conductivity us/cm	910	990	1160	--
9.	Total Dissolved Solids mg/l	456	522	584	2000
10.	Chlorides as Cl mg/l	130	94	192	1000
11.	Sulphide as S mg/l	BDL	BDL	BDL	0.05
12.	Total Hardness as CaCO ₃ mg/l	285	172	316	600
13.	Fluoride as F mg/l	BDL	1.0	BDL	1.5
14.	Iron as Fe mg/l	BDL	BDL	BDL	0.3
15.	Phosphate as P mg/l	BDL	BDL	BDL	--
16.	Nickel as Ni mg/l	BDL	BDL	BDL	--
17.	Total Chromium as Cr mg/l	BDL	BDL	BDL	--
18.	Calcium as Ca mg/l	54	22	72	200
19.	Magnesium mg/l	36	28	32	100
20.	Sulphate as SO ₄ mg/l	11	16	25	400
21.	Dissolved Oxygen, mg/l	6.9	7.0	7.1	6.0
22.	Boron as B mg/l	BDL	BDL	BDL	1.0
23.	Nitrite (NO ₂) mg/l	BDL	BDL	BDL	--
24.	Nitrate (NO ₃) mg/l	22	18	24	45
25.	TKN (Total Kjeldhal Nitrogen) mg/l	BDL	BDL	3.2	--
26.	Turbidity NTU	06	04	05	5.0
27.	Fecal Coliform, MPN/100ml	BDL	BDL	BDL	50

Sample Collected/Not Collected by us
Sample Consumed in testing

HSPCB/Lab/GR/2024/2466
Copy to M.S./R.O.

LAB INCHARGE

Dated 12/03/2024

1538



Laboratory Of The
Haryana State Pollution Control Board
Vikas Sadan Ist Floor Gurgaon

Tel-2332596

Paid / Monitoring

Description
Tubewell at Govt. Boys High School, Sec-6, Gurugram
28.472168, 77.026953

Report No: 538
Dated: 12.03.2024

Description of the Sample: - Received on 01.03.2024 samples of Tubewell Water from Sh. Aparnesh Kumar, Sc 'B', Sh. Sarjeet, JEE, MCG collected on 01.03.2024.

ANALYSIS REPORT
RESULTS

Sr. No.	Parameters	(1)	Prescribed Limit
1.	Colour	Colourless	--
2.	Odour	Odourless	--
3.	pH value	7.3	6.5-8.5
4.	Suspended Solids mg/l	08	--
5.	B.O.D. for 3 days at 27°C mg/l	BDL	2.0
6.	C.O.D. mg/l	BDL	--
7.	Oil & Grease mg/l	BDL	--
8.	Conductivity us/cm	1052	--
9.	Total Dissolved Solids mg/l	530	2000
10.	Chlorides as Cl mg/l	28	1000
11.	Sulphide as S mg/l	BDL	0.05
12.	Total Hardness as CaCO ₃ mg/l	224	600
13.	Fluoride as F mg/l	BDL	1.5
14.	Iron as Fe mg/l	BDL	0.3
15.	Phosphate as P mg/l	BDL	--
16.	Nickel as Ni mg/l	BDL	--
17.	Total Chromium as Cr mg/l	BDL	--
18.	Calcium as Ca mg/l	48	200
19.	Magnesium mg/l	25	100
20.	Sulphate as SO ₄ mg/l	48.2	400
21.	Dissolved Oxygen, mg/l	7.0	6.0
22.	Boron as B mg/l	BDL	1.0
23.	Nitrite (NO ₂) mg/l	BDL	--
24.	Nitrate (NO ₃) mg/l	BDL	45
25.	TKN (Total Kjeldhal Nitrogen) mg/l	BDL	--
26.	Turbidity NTU	56	5.0
27.	Total Coliform, MPN/100ml	BDL	50

Sample Collected/Not Collected by us
Sample Consumed in testing

HSPCB/Lab/GR/2024/2474
Copy to M.S./R.O

LAB INCHARGE
Dated 12/03/2024



REGIONAL LABORATORY
Haryana State Pollution Control Board
Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 426 M
Date : 01/04/2024
Issued To : Regional Officer, Ballabgarh/Member Secretary HSPCB
Sample Type : Ground Water
Sample collected on dated : 20/03/2024
Sample Collected by : Sh. Ujjwal Kumar, AEE & Ankit Goel, JEE, MCF
Sample received on dated : 21/03/2024
Sample Location : Tubewell at Location Lat :- 28.416073, Long :- 77.314262 (Sector-16 A) (TW 7)
Sample Quantity : 2 Litre
Date of Analysis started : 21/03/2024
Dated of analysis completed : 01/04/2024

RESULTS				
Sr. No.	Parameter	Protocol used	Result	Unit
1.	pH	APHA 4500 H ⁺ B 24 th Edition 2023	7.52	----
2.	Conductivity	APHA 2510 B 24 th Edition 2023	5620	μS/cm
3.	Total Suspended Solids	APHA 2540 - D 24 th Edition 2023	15	mg/L
4.	Total Dissolved Solids	APHA 2540 - C 24 th Edition 2023	3080	mg/L
5.	Oil & Grease	APHA 5520-B 24 th Edition 2023	BDL (DL=4)	mg/L
6.	T-Alkalinity	APHA 2300-B-Titration Method 24 th Edition 2023	384	mg/L
7.	Nitrate as NO ₃	4500- NO ₃ -B- UV Spectrophotometric APHA 24 th Edition 2023	ND	mg/L
8.	Nitrite as NO ₂	4500- NO ₂ -B- Colorimetric Method APHA 24 th Edition 2023	ND	mg/L
9.	Iron as Fe	IS 3025 (Part 23) 1986 (Reaffirmed 2019)	BDL (DL=0.01)	mg/L
10.	Nickel as Ni	3120-Ni-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
11.	Zinc as Zn	APHA 3120-Zn-ICP Method 24 th Edition 2023	BDL (DL=0.007)	mg/L
12.	Copper as Cu	APHA-Cu-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
13.	Chloride as Cl	APHA 4500-Cl-B 24 th Edition 2023	304.6	mg/L
14.	Fluoride	APHA 4500 F 24 th Edition 2023	15.48	mg/L
15.	Phosphate as P	IS 3025 (Part-31):1988 (Reaffirmed 2003)	3.7	mg/L
16.	Sulphate as SO ₄	IS 3025 (Part-24):1986 (Reaffirmed 2009)	58	mg/L
17.	Calcium as Ca	APHA 3500-Ca (B) 24 th Edition 2023	185.1	mg/L
18.	Magnesium as Mg	APHA 3500-Mg (B) 24 th Edition 2023	112.02	mg/L
19.	Total Hardness	APHA 2340-C 24 th Edition 2023	924	mg/L
20.	Total Nitrogen	APHA 4500-N _{org} -B (24 th Edition 2023)	ND	mg/L
21.	Total Chromium as Cr	APHA Cr-ICP Method (24 th Edition 2023)	BDL(DL=0.005)	mg/L

Notes:

- 1. The results relate only to the items tested.
- 2. The test report shall not be reproduced except in full without approval of the laboratory.
- 3. The results apply to the sample as received.
- 4. If sample not preserved, results may vary.
- 5. Sample not preserved for parameter D.O

Sample analyzed by:


 Varsha Schrawat / Mohit Kumar / Narendra Hooda
 Analyst / Analyst / Sc-'B'


 Dr. S.K Sheoran, Sc-'C'
 Lab Incharge
 Regional Laboratory Faridabad

HSPCB/LAB/F/2024/ 84-85

Dated: 1-4-24

ofc



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 427 M
 Date : 01/04/2024
 Issued To : Regional Officer, Ballabgarh/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 20/03/2024
 Sample Collected by : Sh. Ujjwal Kumar, AEE & Ankit Goel, JEE, MCF
 Sample received on dated : 21/03/2024
 Sample Location : Tubewell at Location Lat :- 28.419815, Long :- 77.314908 (Sector-19) ((TW 8)
 Sample Quantity : 2 Litre
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024

RESULTS				
Sr. No.	Parameter	Protocol used	Result	Unit
1.	pH	APHA 4500 H ⁺ B 24 th Edition 2023	7.30	----
2.	Conductivity	APHA 2510 B 24 th Edition 2023	6430	μS/cm
3.	Total Suspended Solids	APHA 2540 - D 24 th Edition 2023	25	mg/L
4.	Total Dissolved Solids	APHA 2540 - C 24 th Edition 2023	3550	mg/L
5.	Oil & Grease	APHA 5520-B 24 th Edition 2023	BDL (DL=4)	mg/L
6.	T-Alkalinity	APHA 2300-B-Titration Method 24 th Edition 2023	468	mg/L
7.	Nitrate as NO ₃	4500- NO ₃ -B- UV Spectrophotometric APHA 24 th Edition 2023	ND	mg/L
8.	Nitrite as NO ₂	4500- NO ₂ -B- Colorimetric Method APHA 24 th Edition 2023	ND	mg/L
9.	Iron as Fe	IS 3025 (Part 23) 1986 (Reaffirmed 2019)	0.02	mg/L
10.	Nickel as Ni	3120-Ni-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
11.	Zinc as Zn	APHA 3120-Zn-ICP Method 24 th Edition 2023	0.044	mg/L
12.	Copper as Cu	APHA-Cu-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
13.	Chloride as Cl	APHA 4500-Cl-B 24 th Edition 2023	327.6	mg/L
14.	Fluoride	APHA 4500 F 24 th Edition 2023	16.38	mg/L
15.	Phosphate as P	IS 3025 (Part-31):1988 (Reaffirmed 2003)	3.9	mg/L
16.	Sulphate as SO ₄	IS 3025 (Part-24):1986 (Reaffirmed 2009)	62	mg/L
17.	Calcium as Ca	APHA 3500-Ca (B) 24 th Edition 2023	224.8	mg/L
18.	Magnesium as Mg	APHA 3500-Mg (B) 24 th Edition 2023	136.3	mg/L
19.	Total Hardness	APHA 2340-C 24 th Edition 2023	1128	mg/L
20.	Total Nitrogen	APHA 4500-N _{org} -B (24 th Edition 2023)	ND	mg/L
21.	Total Chromium as Cr	APHA Cr-ICP Method (24 th Edition 2023)	BDL(DL=0.005)	mg/L

Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced except in full without approval of the laboratory.
3. The results apply to the sample as received.
4. If sample not preserved, results may vary.
5. Sample not preserved for parameter D.O

Sample analyzed by:


Varsha Schrawat/Mohit Kumar/Narinder Hooda
Analyst / Analyst / Sc-'B'


Dr. S.K Sheoran, Sc-'C'
Lab Incharge
Regional Laboratory Faridabad

HSPCB/LAB/F/2024/ 86-87

Dated: 1-4-2024

etc



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

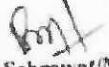
Test Report No. : 428 M
 Date : 01/04/2024
 Issued To : Regional Officer, Ballabgarh/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 20/03/2024
 Sample Collected by : Sh. Ujjwal Kumar, AEE & Ankit Goel, JEE, MCF
 Sample received on dated : 21/03/2024
 Sample Location : Tubewell at Location Lat :- 28.423679, Long :- 77.322545 (Ahirwara) ((TW 9)
 Sample Quantity : 2 Litre
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024

RESULTS				
Sr. No.	Parameter	Protocol used	Result	Unit
1.	pH	APHA 4500 H ⁺ B 24 th Edition 2023	7.46	----
2.	Conductivity	APHA 2510 B 24 th Edition 2023	4750	μS/cm
3.	Total Suspended Solids	APHA 2540 - D 24 th Edition 2023	27	mg/L
4.	Total Dissolved Solids	APHA 2540 - C 24 th Edition 2023	2610	mg/L
5.	Oil & Grease	APHA 5520-B 24 th Edition 2023	BDL (DL=4)	mg/L
6.	T-Alkalinity	APHA 2300-B-Titration Method 24 th Edition 2023	374	mg/L
7.	Nitrate as NO ₃	4500- NO ₃ -B- UV Spectrophotometric APHA 24 th Edition 2023	ND	mg/L
8.	Nitrite as NO ₂	4500- NO ₂ -B- Colorimetric Method APHA 24 th Edition 2023	ND	mg/L
9.	Iron as Fe	IS 3025 (Part 23) 1986 (Reaffirmed 2019)	0.01	mg/L
10.	Nickel as Ni	3120-Ni-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
11.	Zinc as Zn	APHA 3120-Zn-ICP Method 24 th Edition 2023	0.024	mg/L
12.	Copper as Cu	APHA-Cu-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
13.	Chloride as Cl	APHA 4500-Cl-B 24 th Edition 2023	232.7	mg/L
14.	Fluoride	APHA 4500 F 24 th Edition 2023	16.88	mg/L
15.	Phosphate as P	IS 3025 (Part-31):1988 (Reaffirmed 2003)	2.6	mg/L
16.	Sulphate as SO ₄	IS 3025 (Part-24):1986 (Reaffirmed 2009)	51	mg/L
17.	Calcium as Ca	APHA 3500-Ca (B) 24 th Edition 2023	169.9	mg/L
18.	Magnesium as Mg	APHA 3500-Mg (B) 24 th Edition 2023	103.03	mg/L
19.	Total Hardness	APHA 2340-C 24 th Edition 2023	852	mg/L
20.	Total Nitrogen	APHA 4500-N _{org} -B (24 th Edition 2023)	2.80	mg/L
21.	Total Chromium as Cr	APHA Cr-ICP Method (24 th Edition 2023)	BDL (DL=0.005)	mg/L

Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced **except in full** without approval of the laboratory.
3. The results apply to the sample as received.
4. If sample not preserved, results may vary.
5. Sample not preserved for parameter D.O

Sample analyzed by:

  
Varsha Sehrawat/Mohit Kumar/Narender Hooda
Analyst / Analyst / Sc-'B'


Dr. S.K Sheoran, Sc-'C'
Lab Incharge
Regional Laboratory Faridabad

HSPCB/LAB/F/2024/ 88-89

Dated: 1-4-24.

o/c



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 429 M
 Date : 01/04/2024
 Issued To : Regional Officer, Ballabgarh/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 20/03/2024
 Sample Collected by : Sh. Ujjwal Kumar, AEE & Ankit Goel, JEE, MCF
 Sample received on dated : 21/03/2024
 Sample Location : Tubewell at Location Lat :- 28.339570, Long :- 77.291133
 (Partapgarh, Sector-56) (TW 10)
 Sample Quantity : 2 Litre
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024

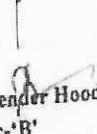
RESULTS				
Sr. No.	Parameter	Protocol used	Result	Unit
1.	pH	APHA 4500 H ⁺ B 24 th Edition 2023	7.44	---
2.	Conductivity	APHA 2510 B 24 th Edition 2023	11450	μS/cm
3.	Total Suspended Solids	APHA 2540 - D 24 th Edition 2023	16	mg/L
4.	Total Dissolved Solids	APHA 2540 - C 24 th Edition 2023	6140	mg/L
5.	Oil & Grease	APHA 5520-B 24 th Edition 2023	BDL (DL=4)	mg/L
6.	T-Alkalinity	APHA 2300-B-Titration Method 24 th Edition 2023	536	mg/L
7.	Nitrate as NO ₃	4500- NO ₃ -B- UV Spectrophotometric APHA 24 th Edition 2023	ND	mg/L
8.	Nitrite as NO ₂	4500- NO ₂ -B- Colorimetric Method APHA 24 th Edition 2023	ND	mg/L
9.	Iron as Fe	IS 3025 (Part 23) 1986 (Reaffirmed 2019)	BDL (DL=0.01)	mg/L
10.	Nickel as Ni	3120-Ni-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
11.	Zinc as Zn	APHA 3120-Zn-ICP Method 24 th Edition 2023	0.047	mg/L
12.	Copper as Cu	APHA-Cu-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
13.	Chloride as Cl	APHA 4500-Cl-B 24 th Edition 2023	358.6	mg/L
14.	Fluoride	APHA 4500 F 24 th Edition 2023	14.36	mg/L
15.	Phosphate as P	IS 3025 (Part-31):1988 (Reaffirmed 2003)	4.7	mg/L
16.	Sulphate as SO ₄	IS 3025 (Part-24):1986 (Reaffirmed 2009)	69	mg/L
17.	Calcium as Ca	APHA 3500-Ca (B) 24 th Edition 2023	385.5	mg/L
18.	Magnesium as Mg	APHA 3500-Mg (B) 24 th Edition 2023	233.7	mg/L
19.	Total Hardness	APHA 2340-C 24 th Edition 2023	1948	mg/L
20.	Total Nitrogen	APHA 4500-N _{org} -B (24 th Edition 2023)	5.60	mg/L
21.	Total Chromium as Cr	APHA Cr-ICP Method (24 th Edition 2023)	BDL(DL=0.005)	mg/L

Notes:

- 1. The results relate only to the items tested.
- 2. The test report shall not be reproduced except in full without approval of the laboratory.
- 3. The results apply to the sample as received.
- 4. If sample not preserved, results may vary.
- 5. Sample not preserved for parameter D.O

Sample analyzed by:




 Varsha Sehrawat/Mohit Kumar/Narender Hooda
 Analyst / Analyst / Sc-'B'


 Dr. S.K Sheoran, Sc-'C'
 Lab Incharge
 Regional Laboratory Faridabad

Dated: 1-4-2024

HSPCB/LAB/F/2024/ 90-91

O/C



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

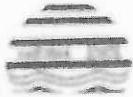
TEST REPORT

Test Report No. : 420 M
 Date : 01/04/2024
 Issued To : Regional Officer, Ballabgarh/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 20/03/2024
 Sample Collected by : Sh. Ujjwal Kumar, AEE & Ankit Goel, JEE, MCF
 Sample received on dated : 21/03/2024
 Sample Location : Tubewell at Location Lat :- 28.350071, Long :- 77.357462 (Mirzapur) (TW 1)
 Sample Quantity : 2 Litre
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024

RESULTS				
Sr. No.	Parameter	Protocol used	Result	Unit
1.	pH	APHA 4500 H ⁺ B 24 th Edition 2023	7.17	---
2.	Conductivity	APHA 2510 B 24 th Edition 2023	6420	µS/cm
3.	Total Suspended Solids	APHA 2540 - D 24 th Edition 2023	8	mg/L
4.	Total Dissolved Solids	APHA 2540 - C 24 th Edition 2023	3520	mg/L
5.	Oil & Grease	APHA 5520-B 24 th Edition 2023	BDL (DL=4)	mg/L
6.	T-Alkalinity	APHA 2300-B-Titration Method 24 th Edition 2023	484	mg/L
7.	Nitrate as NO ₃	4500- NO ₃ -B- UV Spectrophotometric APHA 24 th Edition 2023	ND	mg/L
8.	Nitrite as NO ₂	4500- NO ₂ -B- Colorimetric Method APHA 24 th Edition 2023	ND	mg/L
9.	Iron as Fe	IS 3025 (Part 23) 1986 (Reaffirmed 2019)	BDL (DL=0.01)	mg/L
10.	Nickel as Ni	BDL (DL=0.01)	BDL (DL=0.005)	mg/L
11.	Zinc as Zn	APHA 3120-Zn-ICP Method 24 th Edition 2023	0.009	mg/L
12.	Copper as Cu	APHA-Cu-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
13.	Chloride as Cl	APHA 4500-Cl-B 24 th Edition 2023	247.7	mg/L
14.	Fluoride	APHA 4500 F 24 th Edition 2023	15.39	mg/L
15.	Phosphate as P	IS 3025 (Part-31):1988 (Reaffirmed 2003)	2.8	mg/L
16.	Sulphate as SO ₄	IS 3025 (Part-24):1986 (Reaffirmed 2009)	46	mg/L
17.	Calcium as Ca	APHA 3500-Ca (B) 24 th Edition 2023	216.4	mg/L
18.	Magnesium as Mg	APHA 3500-Mg (B) 24 th Edition 2023	130.2	mg/L
19.	Total Hardness	APHA 2340-C 24 th Edition 2023	1080	mg/L
20.	Total Nitrogen	APHA 4500-N _{org} -B (24 th Edition 2023)	2.80	mg/L
21.	Total Chromium as Cr	APHA Cr-ICP Method (24 th Edition 2023)	BDL (DL=0.005)	mg/L

Notes:

Page 1 of 2



REGIONAL LABORATORY
Haryana State Pollution Control Board
Sector-16A, Opp. HEWO Apartment, Faridabad

- 1. The results relate only to the items tested
- 2. The test report shall not be reproduced except in full without approval of the laboratory
- 3. The results apply to the sample as received
- 4. If sample not preserved, results may vary
- 5. Sample not preserved for parameter D.O

Sample analyzed by




 Varsha Sekhri / Mohit Kumar / Narender Hooda
 Analyst / Analyst / Sr. B


 Dr. S.K. Sheoran, Sr. C
 Lab Incharge
 Regional Laboratory Faridabad

HSPCB/LAB/2014/

72-73

Dated: 1-4-2024

re





32

REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 421 M
 Date : 01/04/2024
 Issued To : Regional Officer, Ballabgarh/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 20/03/2024
 Sample Collected by : Sh. Ujjwal Kumar, AEE & Ankit Goel, JEE, MCF
 Sample received on dated : 21/03/2024
 Sample Location : Tubewell at Location Lat :- 28.368497, Long :- 77.329984 (Sector-8) (TW 2)
 Sample Quantity : 2 Litre
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024

RESULTS				
Sr. No.	Parameter	Protocol used	Result	Unit
1.	pH	APHA 4500 H ⁺ B 24 th Edition 2023	7.81	---
2.	Conductivity	APHA 2510 B 24 th Edition 2023	1415	µS/cm
3.	Total Suspended Solids	APHA 2540 - D 24 th Edition 2023	10	mg/L
4.	Total Dissolved Solids	APHA 2540 - C 24 th Edition 2023	860	mg/L
5.	Oil & Grease	APHA 5520-B 24 th Edition 2023	BDL (DL=4)	mg/L
6.	T-Alkalinity	APHA 2300-B-Titration Method 24 th Edition 2023	512	mg/L
7.	Nitrate as NO ₃	4500- NO ₃ -B- UV Spectrophotometric APHA 24 th Edition 2023	ND	mg/L
8.	Nitrite as NO ₂	4500- NO ₂ -B- Colorimetric Method APHA 24 th Edition 2023	ND	mg/L
9.	Iron as Fe	IS 3025 (Part 23) 1986 (Reaffirmed 2019)	BDL (DL=0.01)	mg/L
10.	Nickel as Ni	3120-Ni-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
11.	Zinc as Zn	APHA 3120-Zn-ICP Method 24 th Edition 2023	0.009	mg/L
12.	Copper as Cu	APHA-Cu-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
13.	Chloride as Cl	APHA 4500-Cl-B 24 th Edition 2023	314.6	mg/L
14.	Fluoride	APHA 4500 F 24 th Edition 2023	18.28	mg/L
15.	Phosphate as P	IS 3025 (Part-31):1988 (Reaffirmed 2003)	3.9	mg/L
16.	Sulphate as SO ₄	IS 3025 (Part-24):1986 (Reaffirmed 2009)	45	mg/L
17.	Calcium as Ca	APHA 3500-Ca (B) 24 th Edition 2023	50.1	mg/L
18.	Magnesium as Mg	APHA 3500-Mg (B) 24 th Edition 2023	30.3	mg/L
19.	Total Hardness	APHA 2340-C 24 th Edition 2023	252	mg/L
20.	Total Nitrogen	APHA 4500-N _{org} -B (24 th Edition 2023)	ND	mg/L
21.	Total Chromium as Cr	APHA Cr-ICP Method (24 th Edition 2023)	BDL(DL=0.005)	mg/L

Notes:

- 1. The results relate only to the items tested.
- 2. The test report shall not be reproduced except in full without approval of the laboratory.
- 3. The results apply to the sample as received.
- 4. If sample not preserved, results may vary.
- 5. Sample not preserved for parameter D.O

Sample analyzed by:


Varsha Schrawat/Mohit Kumar/Natender Hooda
Analyst / Analyst / Sc-'B'


Dr. S.K Sheoran, Sc-'C'
Lab Incharge
Regional Laboratory Faridabad

HSPCB/LAB/F/2024/ 74-75

Dated: 1-4-2024

dc



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 422 M
 Date : 01/04/2024
 Issued To : Regional Officer, Ballabgarh/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 20/03/2024
 Sample Collected by : Sh. Ujjwal Kumar, AEE & Ankit Goel, JEE, MCF
 Sample received on dated : 21/03/2024
 Sample Location : Tubewell at Location Lat :- 28.367253, Long :- 77.327165 (Sector-7) (TW 3)
 Sample Quantity : 2 Litre
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024

RESULTS				
Sr. No.	Parameter	Protocol used	Result	Unit
1.	pH	APHA 4500 H ⁺ B 24 th Edition 2023	7.38	----
2.	Conductivity	APHA 2510 B 24 th Edition 2023	9220	µS/cm
3.	Total Suspended Solids	APHA 2540 - D 24 th Edition 2023	12	mg/L
4.	Total Dissolved Solids	APHA 2540 - C 24 th Edition 2023	4820	mg/L
5.	Oil & Grease	APHA 5520-B 24 th Edition 2023	BDL (DL=4)	mg/L
6.	T-Alkalinity	APHA 2300-B-Titration Method 24 th Edition 2023	584	mg/L
7.	Nitrate as NO ₃	4500- NO ₃ -B- UV Spectrophotometric APHA 24 th Edition 2023	ND	mg/L
8.	Nitrite as NO ₂	4500- NO ₂ -B- Colorimetric Method APHA 24 th Edition 2023	ND	mg/L
9.	Iron as Fe	IS 3025 (Part 23) 1986 (Reaffirmed 2019)	BDL (DL=0.01)	mg/L
10.	Nickel as Ni	3120-Ni-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
11.	Zinc as Zn	APHA 3120-Zn-ICP Method 24 th Edition 2023	BDL (DL=0.007)	mg/L
12.	Copper as Cu	APHA-Cu-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
13.	Chloride as Cl	APHA 4500-Cl-B 24 th Edition 2023	355.6	mg/L
14.	Fluoride	APHA 4500 F 24 th Edition 2023	20.40	mg/L
15.	Phosphate as P	IS 3025 (Part-31):1988 (Reaffirmed 2003)	4.7	mg/L
16.	Sulphate as SO ₄	IS 3025 (Part-24):1986 (Reaffirmed 2009)	125	mg/L
17.	Calcium as Ca	APHA 3500-Ca (B) 24 th Edition 2023	316.6	mg/L
18.	Magnesium as Mg	APHA 3500-Mg (B) 24 th Edition 2023	191.4	mg/L
19.	Total Hardness	APHA 2340-C 24 th Edition 2023	1580	mg/L
20.	Total Nitrogen	APHA 4500-N _{org} -B (24 th Edition 2023)	4.20	mg/L
21.	Total Chromium as Cr	APHA Cr-ICP Method (24 th Edition 2023)	BDL (DL=0.005)	mg/L

Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced except in full without approval of the laboratory.
3. The results apply to the sample as received.
4. If sample not preserved, results may vary.
5. Sample not preserved for parameter D.O

Sample analyzed by:

  
Varsha Sehrawat/Mohit Kumar/Narender Hooda
Analyst / Analyst / Sc-'B'


Dr. S.K Sheoran, Sc-'C'
Lab Incharge
Regional Laboratory Faridabad

HSPCB/LAB/F/2024/

76-77

Dated: 1-4-2024

etc



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 423 M
 Date : 01/04/2024
 Issued To : Regional Officer, Ballabgarh/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 20/03/2024
 Sample Collected by : Sh. Ujjwal Kumar, AEE & Ankit Goel, JEE, MCF
 Sample received on dated : 21/03/2024
 Sample Location : Tubewell at Location Lat :- 28.374730, Long :- 77.315882 (Sector-11) (TW 4)
 Sample Quantity : 2 Litre
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024

RESULTS				
Sr. No.	Parameter	Protocol used	Result	Unit
1.	pH	APHA 4500 H ⁺ B 24 th Edition 2023	7.21	----
2.	Conductivity	APHA 2510 B 24 th Edition 2023	7580	μS/cm
3.	Total Suspended Solids	APHA 2540 - D 24 th Edition 2023	14	mg/L
4.	Total Dissolved Solids	APHA 2540 - C 24 th Edition 2023	4170	mg/L
5.	Oil & Grease	APHA 5520-B 24 th Edition 2023	BDL (DL=4)	mg/L
6.	T-Alkalinity	APHA 2300-B-Titration Method 24 th Edition 2023	524	mg/L
7.	Nitrate as NO ₃	4500- NO ₃ -B- UV Spectrophotometric APHA 24 th Edition 2023	ND	mg/L
8.	Nitrite as NO ₂	4500- NO ₂ -B- Colorimetric Method APHA 24 th Edition 2023	ND	mg/L
9.	Iron as Fe	IS 3025 (Part 23) 1986 (Reaffirmed 2019)	BDL (DL=0.01)	mg/L
10.	Nickel as Ni	3120-Ni-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
11.	Zinc as Zn	APHA 3120-Zn-ICP Method 24 th Edition 2023	BDL (DL=0.007)	mg/L
12.	Copper as Cu	APHA-Cu-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
13.	Chloride as Cl	APHA 4500-Cl-B 24 th Edition 2023	276	mg/L
14.	Fluoride	APHA 4500 F 24 th Edition 2023	12.76	mg/L
15.	Phosphate as P	IS 3025 (Part-31):1988 (Reaffirmed 2003)	5.7	mg/L
16.	Sulphate as SO ₄	IS 3025 (Part-24):1986 (Reaffirmed 2009)	138	mg/L
17.	Calcium as Ca	APHA 3500-Ca (B) 24 th Edition 2023	274.1	mg/L
18.	Magnesium as Mg	APHA 3500-Mg (B) 24 th Edition 2023	166.2	mg/L
19.	Total Hardness	APHA 2340-C 24 th Edition 2023	1384	mg/L
20.	Total Nitrogen	APHA 4500-N _{org} -B (24 th Edition 2023)	5.60	mg/L
21.	Total Chromium as Cr	APHA Cr-ICP Method (24 th Edition 2023)	BDL(DL=0.005)	mg/L

Notes:

1. The results relate only to the items tested.
2. The test report shall not be reproduced except in full without approval of the laboratory.
3. The results apply to the sample as received.
4. If sample not preserved, results may vary.
5. Sample not preserved for parameter D.O

Sample analyzed by:


Varsha Sehrawat/Mohit Kumar/Narender Hooda
Analyst / Analyst / Sc-'B'


Dr. S.K Sheoran, Sc-'C'
Lab Incharge
Regional Laboratory Faridabad

HSPCB/LAB/F/2024/ 78-79

Dated: 1-4-2024

o/c



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 424 M
 Date : 01/04/2024
 Issued To : Regional Officer, Ballabgarh/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 20/03/2024
 Sample Collected by : Sh. Ujjwal Kumar, AEE & Ankit Goel, JEE, MCF
 Sample received on dated : 21/03/2024
 Sample Location : Tubewell at Location Lat :- 28.370458, Long :- 77.326912 (Sector-10) (TW 5)
 Sample Quantity : 2 Litre
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024

RESULTS				
Sr. No.	Parameter	Protocol used	Result	Unit
1.	pH	APHA 4500 H ⁺ B 24 th Edition 2023	7.51	---
2.	Conductivity	APHA 2510 B 24 th Edition 2023	5170	µS/cm
3.	Total Suspended Solids	APHA 2540 - D 24 th Edition 2023	22	mg/L
4.	Total Dissolved Solids	APHA 2540 - C 24 th Edition 2023	2840	mg/L
5.	Oil & Grease	APHA 5520-B 24 th Edition 2023	BDL (DL=4)	mg/L
6.	T-Alkalinity	APHA 2300-B-Titration Method 24 th Edition 2023	424	mg/L
7.	Nitrate as NO ₃	4500- NO ₃ -B- UV Spectrophotometric APHA 24 th Edition 2023	ND	mg/L
8.	Nitrite as NO ₂	4500- NO ₂ -B- Colorimetric Method APHA 24 th Edition 2023	ND	mg/L
9.	Iron as Fe	IS 3025 (Part 23) 1986 (Reaffirmed 2019)	BDL (DL=0.01)	mg/L
10.	Nickel as Ni	3120-Ni-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
11.	Zinc as Zn	APHA 3120-Zn-ICP Method 24 th Edition 2023	0.008	mg/L
12.	Copper as Cu	APHA-Cu-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
13.	Chloride as Cl	APHA 4500-Cl-B 24 th Edition 2023	295.7	mg/L
14.	Fluoride	APHA 4500 F 24 th Edition 2023	13.64	mg/L
15.	Phosphate as P	IS 3025 (Part-31):1988 (Reaffirmed 2003)	4.4	mg/L
16.	Sulphate as SO ₄	IS 3025 (Part-24):1986 (Reaffirmed 2009)	55	mg/L
17.	Calcium as Ca	APHA 3500-Ca (B) 24 th Edition 2023	186.3	mg/L
18.	Magnesium as Mg	APHA 3500-Mg (B) 24 th Edition 2023	112.9	mg/L
19.	Total Hardness	APHA 2340-C 24 th Edition 2023	936	mg/L
20.	Total Nitrogen	APHA 4500-N _{org} -B (24 th Edition 2023)	4.20	mg/L
21.	Total Chromium as Cr	APHA Cr-ICP Method (24 th Edition 2023)	BDL(DL=0.005)	mg/L

Notes:

- 1. The results relate only to the items tested.
- 2. The test report shall not be reproduced except in full without approval of the laboratory.
- 3. The results apply to the sample as received.
- 4. If sample not preserved, results may vary.
- 5. Sample not preserved for parameter D.O

Sample analyzed by:


Vnrsha Sehrawat/Mohit Kumar/Narender Hooda
Analyst / Analyst / Sc-'B'


Dr. S.K. Sheoran, Sc-'C'
Lab Incharge
Regional Laboratory Faridabad

HSPCB/LAB/F/2024/ 80 - 81

Dated: 1-4-2024

e/c



REGIONAL LABORATORY
Haryana State Pollution Control Board
 Sector-16A, Opp. HEWO Apartment, Faridabad

TEST REPORT

Test Report No. : 425 M
 Date : 01/04/2024
 Issued To : Regional Officer, Ballabgarh/Member Secretary HSPCB
 Sample Type : Ground Water
 Sample collected on dated : 20/03/2024
 Sample Collected by : Sh. Ujjwal Kumar, AEE & Ankit Goel, JEE, MCF
 Sample received on dated : 21/03/2024
 Sample Location : Tubewell at Location Lat :- 28.411213, Long :- 77.321828 (Sector-16) (TW 6)
 Sample Quantity : 2 Litre
 Date of Analysis started : 21/03/2024
 Dated of analysis completed : 01/04/2024

RESULTS				
Sr. No.	Parameter	Protocol used	Result	Unit
1.	pH	APHA 4500 H ⁺ B 24 th Edition 2023	7.47	----
2.	Conductivity	APHA 2510 B 24 th Edition 2023	2380	μS/cm
3.	Total Suspended Solids	APHA 2540 - D 24 th Edition 2023	13	mg/L
4.	Total Dissolved Solids	APHA 2540 - C 24 th Edition 2023	1310	mg/L
5.	Oil & Grease	APHA 5520-B 24 th Edition 2023	BDL (DL=4)	mg/L
6.	T-Alkalinity	APHA 2300-B-Titration Method 24 th Edition 2023	264	mg/L
7.	Nitrate as NO ₃	4500- NO ₃ -B- UV Spectrophotometric APHA 24 th Edition 2023	ND	mg/L
8.	Nitrite as NO ₂	4500- NO ₂ -B- Colorimetric Method APHA 24 th Edition 2023	ND	mg/L
9.	Iron as Fe	IS 3025 (Part 23) 1986 (Reaffirmed 2019)	BDL (DL=0.01)	mg/L
10.	Nickel as Ni	3120-Ni-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
11.	Zinc as Zn	APHA 3120-Zn-ICP Method 24 th Edition 2023	BDL (DL=0.007)	mg/L
12.	Copper as Cu	APHA-Cu-ICP Method 24 th Edition 2023	BDL (DL=0.005)	mg/L
13.	Chloride as Cl	APHA 4500-Cl-B 24 th Edition 2023	229.7	mg/L
14.	Fluoride	APHA 4500 F 24 th Edition 2023	13.48	mg/L
15.	Phosphate as P	IS 3025 (Part-31) 1988 (Reaffirmed 2003)	2.9	mg/L
16.	Sulphate as SO ₄	IS 3025 (Part-24) 1986 (Reaffirmed 2009)	41	mg/L
17.	Calcium as Ca	APHA 3500-Ca (B) 24 th Edition 2023	86.1	mg/L
18.	Magnesium as Mg	APHA 3500-Mg (B) 24 th Edition 2023	52.2	mg/L
19.	Total Hardness	APHA 2340-C 24 th Edition 2023	436	mg/L
20.	Total Nitrogen	APHA 4500-N _{org} -B (24 th Edition 2023)	ND	mg/L
21.	Total Chromium as Cr	APHA Cr-ICP Method (24 th Edition 2023)	BDL (DL=0.005)	mg/L

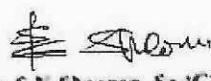
Notes:

- 1. The results relate only to the items tested.
- 2. The test report shall not be reproduced except in full without approval of the laboratory.
- 3. The results apply to the sample as received.
- 4. If sample not preserved, results may vary.
- 5. Sample not preserved for parameter D.O

Sample analyzed by:




 Varsha Sehrawat/Mohit Kumar/Narendra Hooda
 Analyst / Analyst / Sr. B


 Dr. S.K. Sheoran, Sr. 'C'
 Lab Incharge
 Regional Laboratory Faridabad

HSP/BLAB/F/2024/ 82- 83

Dated: 1- 4- 2024

B/C

No. NCD /2024/375-79

Dated: 27.03.2024

From

Civil Surgeon
Gurugram

To

Principal Medical officer I/c
Civil hospital GGM**Sub: Medical Check-up and analysis of cancer Patients surrounding by Bandhwari**

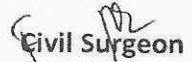
With reference to worthy Commissioner letter no MCG/CMO/2024/1059 dated 26.3.2024. Here it is stated that health department Gurugram has organised 8 health camps in Feb and March 2024 as per detail given below.

Name of Village/site	Date of Camp
Bandhwari	7-2-2024
Balola	7-2-2024
Baliawas	8-2-2024
Gwal Pahari	8-2-2024

Name of Village/site	Date of Camp
Bandhwari- Ayush Dispensary	15-3-2024
Baliawas - Health & Wellness Centre	15-3-2024
Balola - Hanuman Mandir	15-3-2024
Gwal Pahari- Bharat Ghar	15-3-2024

During all these camp NCD screening was done and water sample was collected by MPH.W. (report already Submitted)

On the last hearing petitioner submitted the list of cancer patients (Copy enclosed) for proper diagnosis, treatment and analytical reason of illness. **You are directed to constitute and send a committee of specialists (Physician, ENT surgeon, General Surgeon, Microbiologist) to PHC Wazirabad on dated 28.3.24 for the same and submit final report by 1st April 2024 by 10:00 AM positively.**

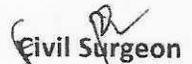

Civil Surgeon
Gurugram

No. NCD /2024/375-79

Dated: 27.03.2024

Copy is forwarded to following for information and necessary action Please.

1. Senior Medical officer I/c Farukh Nagar
2. Medical officer I/C Wazirabad (Dr Shalu : 9310118144)
3. Mr Rakesh joon (SDO MCG) : 7015361984


Civil Surgeon
Gurugram

Date: 29.03.2024

To
The Principal Medical Officer
Civil Hospital, Sector 10, Gurugram

Sub: **Medical checkup and analysis of Cancer patients surrounding by Bandhwari**

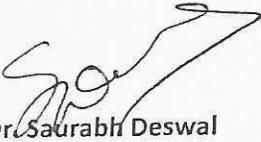
Madam,

In reference to Civil Surgeon Gurugram office letter no. NCD/2024/375-79 dated 27.03.2024.

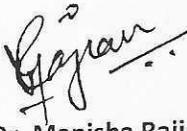
We are hereby submitting our report for your kind information and necessary action.

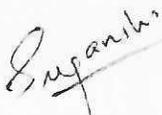
Enclosed:-

Report (1 page)


Dr. Saurabh Deswal
Surgeon
CH, Gurugram


Dr. Kajal
Physician
CH, Gurugram

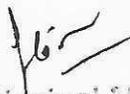

Dr. Manisha Rajian
Microbiologist
CH, Gurugram


Dr. Suganshi Garg
ENT Surgeon
CH, Gurugram

NO.DCH/24/1775

dt 29/03/24

A Original Copy is forwarded to Civil Surgeon,
Gurugram for information and necessary action please.


Principal Medical Officer
Civil Hospital, Gurugram

Date: 29.03.2024

Medical checkup and analysis of Cancer patients surrounding by Bandhwari

A medical team comprising of Dr. Saurabh Deswal (General Surgeon), Dr. Kajal (Physician), Dr. Manisha Rajian (Microbiologist) & Dr. Suganshi Garg (ENT Surgeon) was constituted. The team visited PHC Wazirabad and took history along with physical examination of the enlisted patients.

1. Ram Kali, 71 years female, R/o Gwal Pahadi since birth is suffering from Chronic Lymphoproliferative Disorder (CLPD) since March 2023. Presently she is under treatment from AIIMS.
2. Shyamwati, 55 years old female, R/o Village Bandhwari since 15 years is suffering from Breast Cancer since 2008 and had surgery in 2009. She had relapsed in 2020 and presently taking treatment from ILBS, Delhi.
3. Kavita / Amita, 33 years old, R/o Bandhwari since 15 years is suffering from Metastatic CA Breast and she is taking treatment form AIIMS Jhajjar.
4. Nisha, 33 years old female W/o Sunil living in Bandhwari since 12 years is suffering from CA Esophagus diagnosed in 2021 and she is under treatment from Max Hospital, Gurugram.
5. Mahasukh, 80 years male, patient from Gwal Pahadi. He is an ex-armyman developed throat cancer since one year. He is on treatment from Paras Hospital, Gurugram.

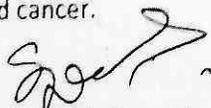
Patient Radhika living in Village Bandhwari was a case of Basilar Artery Aneurysm with ICA thrombosis post stenting.

Patient Maja Devi could not be contacted.

At present all the patients are doing well and undergoing continuous treatment.

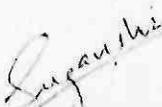
After going through the treatment history and records of the patients, the team of doctors confirmed that cancer patients are present in the area surrounding Bandhwari but further study is needed to assess the exact etiological agent and incidence of the disease in the patients surrounding village Bandhwari.

Water samples tested by the Health Department were for bacteriological analysis only (presence of coliforms). Further testing for presence of carcinogens in environmental samples is needed to ascertain any causal relationship between environmental pollution and cancer.


Dr. Saurabh Deswal
Surgeon
CH, Gurugram


Dr. Kajal
Physician
CH, Gurugram


Dr. Manisha Rajian
Microbiologist
CH, Gurugram


Dr. Suganshi Garg
ENT Surgeon
CH, Gurugram

DEPARTMENT OF SOIL SCIENCE
CCS HARYANA AGRICULTURAL UNIVERSITY, HISAR

ANALYSIS REPORT

Date: 28/03/2024

Sample Information

Name : The Commissioner, Municipal Corporation
Location : Gurugram
Contact detail : --
Sample receipt no. : 124634

Dear,

With reference to above mentioned receipt number, the following is the analysis report of the manure/compost sample(s) submitted by you.

Laboratory Analysis						
Parameter	Values					
	I	II	III	IV	V	VI
pH	8.40	8.50	8.60	8.50	8.60	8.60
EC (dS/m)	1.57	1.60	1.57	1.54	1.58	1.55
Total organic carbon (%)	3.30	4.80	4.85	4.80	3.00	8.25
Total N (%)	0.35	0.60	0.53	0.49	0.53	0.80
Total P (%)	0.26	0.22	0.22	0.20	0.27	0.33
Total K (%)	0.67	0.56	0.50	0.75	0.60	0.58
Bulk density (g/cm ³)	0.41	0.41	0.40	0.41	0.39	0.41
Total metals (mg/kg)						
Zinc (Zn)	121.50	121.00	130.00	121.50	121.00	120.00
Copper (Cu)	142.00	215.50	223.00	170.50	193.50	165.00
Manganese (Mn)	155.50	145.00	159.50	163.00	150.00	163.50
Iron (Fe)	62.25	62.15	62.15	62.25	61.15	62.25
Cadmium (Cd)	1.97	1.32	1.95	2.01	1.18	2.39
Lead (Pb)	1.29	1.05	1.90	1.11	1.63	1.10
Nickel (Ni)	3.80	3.50	3.95	3.63	3.92	3.40
Chromium (Cr)	2.17	2.01	2.10	1.90	2.10	1.92
Cobalt (Co)	0.89	1.31	0.83	0.68	0.75	0.90

DISCLAIMER:

The sample was collected and provided by the sender personally. This laboratory is not NABL accredited. This report is not intended for use in any claims/legal cases.

(Signature)
(HOD, Soil Science)
(Head of Deptt. (Soil Science))
CCS HAU, HISAR

(Signature) 25/3/24

Soil Science 28/3/24

केन्द्रीय मृदा एवं पादप परीक्षण प्रयोगशाला
CENTRAL LABORATORY FOR SOIL AND PLANT ANALYSIS
मृदा विज्ञान एवं कृषि रसायन विज्ञान संभाग

Division of Soil Science and Agricultural Chemistry
भाकृअनुप-भारतीय कृषि अनुसंधान संस्थान, नई दिल्ली-110012
ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE, NEW DELHI -110 012
(Phone: 011-25841494, Email: soilhealth.ssac04@gmail.com)

खाद परीक्षण रिपोर्ट / MANURE TEST REPORT
(Receipt No. 310813, Dated 29-02-2024, Rs.10,000/-)

नाम व पता / Name & Address: EXEN-SBN, Muncipal Corporation, Gurgaon, Haryana- 122001.

क.सं. S. No.	नमूना पहचान चिह्न Sample mark	प्रयोगशाला संख्या Lab. No.	अभिक्रिया pH (1:5)	विद्युत चालकता EC (dS/m) (1:5)	Total Elements				
					C	N	P	K	S
					(%)				
1	Bandhwari P/A-1	C-1702/24	7.32	3.05	8.22	0.45	0.15	0.50	0.21
2	Bandhwari P/B-1	C-1703/24	7.32	3.08	8.78	0.49	0.16	0.52	0.24

सिफारिशें : दोनों खाद के नमूने सामान्य हैं।

Recommendations: Both manure samples are normal.

नोट : यह रिपोर्ट वैधानिक उद्देश्यों के लिए प्रमाण-पत्र के रूप में प्रयोग नहीं की जा सकती।

Note : This report can not be used as a certificate for legal purpose.

डॉ. अरवि देव
अभियंता
Scientist
मृदा विज्ञान एवं पादप रसायन विज्ञान संभाग
भारतीय कृषि अनुसंधान संस्थान, नई दिल्ली-110012
Division of Soil Science and Agricultural Chemistry
प्रभारी वैज्ञानिक / Scientist Incharge



TEST REPORT

Page 1 of 1

Report Number: SIGIL0020240202/01	Date of Report: 05.03.2024
Sample Description: Soil	Job Code No.: 20220227/01
Issued to: Executive Engineer (SBM) Address: -Municipal Corporation, Faridabad	Date of Testing (Start): 28.02.2024 Date of Testing (Final): 04.03.2024 Sample Quantity: 4.0 Kg. Sample Condition: Ok
Reff. No.: Nil, Dated: 27.02.2024 Sample Received on: 27.02.2024	Environmental Condition: Temp: $27^{\circ} \pm 2^{\circ}$ C, RH: 65 ± 5 %

TEST RESULTS

Sr. No.	Test Parameter	Results	Method Reference
1.	Plastic Content	2.51	IS : 2720

AUTHORISED SIGNATORY



- Note:
1. Sample will be retained for one month.
 2. In case the sample is taken back, No further responsibility of any discrepancies.
 3. This report cannot be reproduced wholly or partly and can't be used as an evidence in front of any court or law or by any advertising media.
 4. Results refer only to the sample submitted for testing.
 5. Uncertainty is calculated at 95% Confidence level for approximate coverage factor $k = 2$.
 6. The Results relate only to the items tested.