

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, NEW DELHI

Original Application No. 676 of 2023

In Re: News Item Appearing in The Times of India dated 12.10.2023 entitled "Agriculture Runoff causing groundwater pollution in Punjab, making Drinking Water unsafe Reveals Study".

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Date: 15/5/24

Place: Chandigarh


(Kumar Rahul)

Secretary to Government of Punjab
Department of Science, Technology and
Environment

On behalf of State of Punjab

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

Original Application No. 676 of 2023

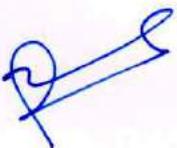
In Re: News Item Appearing in The Times of India dated 12.10.2023 entitled "Agriculture Runoff causing groundwater pollution in Punjab, making Drinking Water unsafe Reveals Study".

Reply / Status Reporton behalf of the State of Punjab through Kumar Rahul, Secretary to Government of Punjab Department of Science Technology and Environment in compliance to order dated 19.03.2024.

Respectfully Showeth

1) That briefly stated, the Hon'ble National Green Tribunal was pleased to take suo moto cognizance of a new item appearing in The Times of India dated 12.10.2023 titled "Agriculture Runoff causing groundwater pollution in Punjab, making Drinking Water unsafe Reveals Study". The news item was treated as Original Application no. 676 of 2023 and notices were issued to the Central Pollution Control Board; Punjab Pollution Control Board and the Indian Institute of Technology, Mandi, Himachal Pradesh for appearance before the Hon'ble Tribunal on 3.11.2023. After consideration, the Hon'ble Tribunal was pleased to implead the following parties as respondents vide order dated 3.11.2023:

- a) Central Pollution Control Board through its Member Secretary;
- b) Punjab Pollution Control Board through its Member Secretary;
- c) Indian Institute of Technology (IIT) Mandi; though its Director;
- d) Department of Water Supply and Sanitation, State of Punjab through its Administrative Head
- e) Department of Agriculture and Farmer's Welfare, State of Punjab



though its Administrative Head;

- 2) That after consideration of the replies filed by the Punjab State Pollution Control Board and the Department of Water Supply and Sanitation, the Hon'ble Tribunal vide order dated 19.03.2024 had directed the Chief Secretary, State of Punjab to submit an appropriate reply on the issue and also to appear in person through virtual mode on the next of hearing. In this regard paragraphs 15, 16, 17 and 18 of the order dated 19.03.2024 are reproduced herein below for kind perusal and reference:

"15. CPCB report largely supports research paper and finding recorded therein but unfortunately departments of State of Punjab have shown a very careless attitude in the matter and submitted a very casual reply which does not deal with the issue in question. It appear that they have not understood even seriousness of the matter. This is really unfortunate that State Government is not able to understand the problem which is causing serious health issues to its people.

16. Since an attempt has been made on the part of respondent 4 by shifting responsibility to various other departments and an attempt has been made to involve the issue intra-departmental, we find no option but to direct Chief Secretary, State of Punjab to submit an appropriate reply on the issue and also to appear in person through virtual mode on the next date of hearing.

17. In the meantime, all the contaminated ground water sources may be demarcated as "Unfit for drinking purposes in the State of Punjab and safe water availability be ensured. "

18. Let reply be filed at least one week before the next date of hearing by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/ OCR Support PDF and not in the form of Image PDF."

- 3) That the undersigned namely Kumar Rahul is working as Secretary to Government of Punjab Department of Science Technology and Environment and as such is well conversant of the facts of the case and is competent and authorized to file the present reply/ status report on the behalf of the State of Punjab in compliance to order dated 19.03.2024.
- 4) That immediately after the passing of the order dated 19.03.2024 by the Hon'ble Tribunal, the Chief Secretary, Punjab has directed the concerned departments namely the Department of Agriculture and Farmers Welfare, the Department of Water Supply and Sanitation and the Department of Science, Technology and Environment to make compliance of the orders of the Hon'ble Tribunal. On the directions of the Department of Science, Technology and Environment, the Punjab State Pollution Control Board had supplied the copy of study report of IIT, Mandi as published in The Times of India dated 12.10.2023 to the concerned departments for necessary action and issued the following letters
- a) Letter no. 8321-8327 dated 27.03.2024 to the Department of Agriculture and Farmers Welfare, Department of Rural Water Supply and Sanitation, Department of Local Government, Punjab informing that the Board is in the process of obtaining a suitable date and time from Chief Secretary, Punjab for convening of a meeting of concerned departments and requested the departments to issue instructions to the concerned officers for preparation of a report. A copy of letter no. 8321-27 dated 27.03.2024 is enclosed herewith as **Annexure-A.**
- b) Letter no. 8328-8333 dated 27.03.2024 to the Department of Rural Water Supply and Sanitation and the Department of Local Government, Punjab to issue necessary instructions to the concerned officers to demarcate the contaminated groundwater sites in compliance to the orders dated 19.03.2024 of the Hon'ble Tribunal and to supply safe drinking water to the people



of the area as an alternative to contaminated groundwater source and to prepare an action taken report. A copy of letter no. 8328-33 dated 27.03.2024 is enclosed herewith as **Annexure-B.**

- 5) That the Department of Water Supply and Sanitation, Department of Local Government and the Department of Agriculture and Farmer's Welfare, Punjab have taken appropriate action in the matter and the actions taken by the concerned departments are summarized herein below:

A) Department of Water Supply and Sanitation

- a) In order to obtain the data used in the study, the Executive Engineer, Water Quality, Department of Water Supply & Sanitation (DWSS) vide letter no.677-78 dated 02.04.2024 requested IIT Mandi as well as the co-author of the Research Paper (namely Mr. Dericks Praise Shukla) to share the list of 315 sampling sites along with their proper locations and water quality parameters which were considered and taken into account for publishing the said research paper. However, IIT Mandi, expressed its inability to share such an information while Mr. Dericks Praise Shukla, the co-author of the Research Paper vide emails dated 05.04.2024 and 18.04.2024 informed that they had used the data of Central Ground Water Board, (CGWB) from their Annual Ground Water Year Book available on the internet. **This suggests that the authors of the Research Paper did not conduct any field visits or testing in Punjab before publishing the Research Paper on the basis of which the impugned news item had appeared in the Times of India dated 12.10.2023 leading to the registration of the Original Application No. 676 of 2023 for hearing.** Copies of the letter No.677-78 dated 02.04.2024 and those of emails dated 05.04.2024 &

18.04.2024 are enclosed herewith as **Annexure-C** and **Annexure-D** respectively.

- b) That alongside the Water Quality Unit of the Department of Water Supply and Sanitation was in touch with the Central Ground Water Board (CGWB) regarding the alleged study of 315 sampling sites by the Research Authors of IIT Mandi. **The Central Ground Water Board (CGWB) conveyed that they were not aware of the 315 sampling sites which were allegedly taken into consideration by the Research team before submitting their Research Paper through IIT Mandi.** On the request of the department of Water Supply and Sanitation, the Central Ground Water Board (CGWB) shared a list of 337 sampling sites along with their latitude / longitudes through an email dated 27.3.2024. On inquiry, the Central Ground Water Board (CGWB) further clarified that 294 Water Quality Station Samples are taken from shallow water sources and 43 Water Quality Station samples are taken from deep water sources which are greater than 90 meters. The list of 337 Water Quality Stations provided by Central Ground Water Board (CGWB) is enclosed herewith as **Annexure-E**.
- c) Thereafter, the Department of Water Supply & Sanitation (DWSS) verified all the 337 locations physically from the given latitude / longitudes whereupon 278 locations sites were found falling under the jurisdiction of Department of Water Supply & Sanitation. Out of the remaining 59 locations, 51 locations were found to be falling under the jurisdiction of Department of Local Government, Punjab whereas 8 locations were under the jurisdiction of Municipal Corporation, Chandigarh. The action taken by the department of Water Supply and Sanitation in reference to the above locations is given in the following paragraphs.



NABL Accredited Lab

- d) It is pertinent to mention here that the Department of Water Supply and Sanitation has established a NABL-accredited lab network of 31 Laboratories across the State and follows a monitoring protocol to test water quality of all drinking water sources at regular intervals and appropriate mitigation measures are adopted as per the requirement of the source. Furthermore, the department has established an in house innovative digital ShikayatNivaran Kendra (Compliant Redressal Center) to facilitate and cater to every rural citizen's water supply and sanitation related complaints. A toll free number 1800-180-2468 has been set up to achieve the objectives of improving the quality of service delivery at the grass root level, registering complaints and providing feedback, achieving best results while utilizing the latest e-governance methods and techniques, and enhancing the efficiency and financial sustainability of the water supply and sanitation system operations by reaching out to the beneficiaries in the villages.

278 Locations

- e) That for the 278 locations which are within the jurisdiction of the Department of Water Supply and Sanitation (DWSS), the samples of drinking water source at these 277 locations were got collected during the months of March-April 2024 and were got analyzed in NABL accredited laboratories of DWSS. These tests were conducted after following total 24 parameters based upon physiochemical parameters and heavy metal parameters prescribed for the purpose of drinking water as per IS 10500: 2012 (Rev 2). The test results reveal that the Water Quality in



260 locations is within the permissible limits prescribed for drinking purposes. The detail of test results of 260 locations is enclosed as **Annexure-F**.

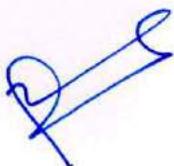
- f) However, 17 locations have been found contaminated with various parameters. Mitigation measures have already been taken in 16 contaminated locations by installing AIRPs/CWPPs/RO/ATM RO Plants which are presently functioning well whereas at 1 location, the potable water is being provided to the villagers through water tankers. The sample of the left-out 1 location which was earlier contaminated could not be drawn as same is presently non-functional. Here in this location RO Plant has already been installed in the village through which potable water is being provided for drinking purposes. The detail in respect of these 18 locations is enclosed as **Annexure-G**. The details of the test results as referred to above are annexed herewith as **Annexure-H**.

Status of 13 locations out of 59 locations

- g) That out of remaining 59 locations the samples from 8 locations which are falling under the Jurisdiction of Municipal Corporation Chandigarh and 5 locations of other Departments have also been collected and analyzed by the Department of Water Supply and Sanitation. The water quality of these 13 locations have also been found within permissible limits prescribed for drinking purposes and hence potable. The detail of the test results of these locations is enclosed herewith as **Annexure-I**.

Status of remaining 46 locations out of 59 locations

- h) That the samples of drinking water source at these 46 locations were got collected and got analyzed in NABL accredited laboratories of DWSS. These tests were conducted for 24 parameters based upon physiochemical parameters and heavy



metals parameters prescribed for the purpose of drinking water as per IS 10500 :2012 (Rev 2). The test results reveal that the water quality in 30 locations is within the permissible limits prescribed for drinking purposes. The detail of test results of 30 locations is enclosed as **Annexure-J**.

Contaminated Sites

- i) However, 16 locations have been found contaminated with various parameters, mitigation measures have been taken in 16 contaminated locations, the potable water is being provided by the committee/corporations through water tankers. The details in respect of these 16 locations are enclosed as **Annexure-K**.

Directions issued for demarcation of contaminated water sources.

- j) In compliance of order dated 19.03.2024 of the Hon'ble Tribunal, letter No.Adv./WQ/DWSS/2024/33 dated 26.4.2024 was issued by the DWSS to Zonal Chief Engineers to mark the sources of drinking water at 18 locations as "unfit for drinking purposes" and also directed to motivate the villagers to use water from AIRPs/CWPPs/RO/ATM RO Plants/tankers. In terms thereof the Chief Engineers have certified compliance of order dated 19.3.2024 passed by this Hon'ble Tribunal. The combined compliance report submitted by all the Chief Engineers of three zones is enclosed herewith as **Annexure-L**.
- k) The Punjab Water Supply and Sewerage Board vide letter dated 9-5-2024 had issued directions to concerned officers to ensure the obedience of Hon'ble National Green Tribunal order dated 19-3-2024 in the case of 16 locations where water was found "unfit for drinking purposes". The officers had also been directed to motivate the users for potable water from other departmental sources/tankers. Moreover regarding these 16



locations, the 2 no.locations (Abohar and Kotakpura) department is already supplying surface water. At 1 no. location (Chattar Singh park, Ludhiana) Surface water Supply Project, under World Bank Scheme is in process. On 9 locations (Shahkot, Ajnala, Ramdass, Bhikhiwind, Samana, Jagraon, Nihal Singh Wala, Rahonand Kothaguru) Surface water supply projects are under AMRUT 2.0 (Tranche 1) and on balance 4 locations (Kapurthala, Bhulath, Balachaur and Issapur) Surface Water Supply Projects under AMRUT 202 (Tranche 2) are already under process. The letter no. 8543 dated 09.05.2024 of the Punjab Water Supply and Sewerage Board in this regard is enclosed as **Annexure-M**.

- l) Thus, directions of Hon'ble Tribunal with regard to the demarcation of the contaminated sources as "Not fit for drinking water" has been complied with.
- m) It is pertinent to mention here that the minute perusal of Research Paper itself reveals that during the year 2000, the study for twelve physicochemical parameters revealed that 13.01% and 20% of sampling locations were categorized as very poor and unsuitable for drinking. Thereafter in the year 2020, 6.35% and 12.38% of locations were categorized as very poor and unsuitable for drinking water. The graphical variation of water quality index enclosed herewith as **Annexure-N** clearly shows improvement over the last two decades (2000-2020).

Meetings held with the concerned Departments

- 6) There are two rounds of meetings held at the level of the Chief Secretary on 30.04.2024 and other at the level of Special Chief Secretary (Agriculture) on 03.05.2024. The action taken by the Department of Water Supply and Sanitation and Punjab Water Supply and Sewerage Board has already been explained and described in the preceding

paragraphs and the action taken by the Department of Agriculture and Farmer's Welfare is summarized in the following paragraphs.

B) Action Taken by the Department of Agriculture and Farmers' Welfare

- a) The CGWB was categorically asked to produce the source information and details of site mentioned in IIT Mandi report. CGWB has given list of 336 sites and out of which there are only 43 sites which are deep sample sites remaining 203 are shallow sites. In case of deep site, only 10 sites were found with high NO₃ content and 6 sites were having fluoride content more than prescribed limit. It is pertinent to mention here that the 315 sites mentioned in the report don't give any clear site locations which have been selected out of 336 CGWB sites. EC in the study area ranges from 197.38 to 40,888.90uS/cm in 2000 and from 175 to 8375 uS/Cm in 2020. However, in south-western districts its ranges obviously increased. WQI, study shows that 13.01% sampling locations are categorized in the very poor and 20% in unsuitable category respectively, however, during 2020, 6.35% are very poor and 12.38% in unsuitable category respectively.

Answer to the queries of Chief Secretary, Punjab

- b) The Chief Secretary, Government of Punjab has raised certain queries with the departments and in answer to the said queries it was apprised by the departments that the study itself shows that there is downward trend in the water pollution. It is also important to mention here that the about 30 lakh hectare area is under paddy cultivation, that mean about 69% area has already established which hinders percolation of water and other pollutants, if any. There are no such reports so far revealing any contamination of underground water by agriculture runoff causing pollution by pesticides and fertilizers. Moreover, Government of India has taken 543 samples of various commodities during 2023, out of which 446 (83.52%) samples have

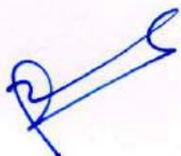
been found below Maximum residual limit (MRL). Further, the contaminations notably of Nitrate, Fluoride, heavy metals and radioactive element such as uranium in groundwater has been reported in significant proportion beyond the permissible limit in South and Southwestern part of the state by various agencies. As far as application of Phosphate fertilizers is concerned, DAP is mainly applied to supply it. However, as it's an immobile irrespective to urea, therefore, its translocation is nearly impossible by itself. So, the claim of study that it has been contaminating groundwater can also be refuted. As CGWB reported that ground water quality is fresh and fit in 60% of area at 10 meters depth which decreases to nearly 30% and 18% at 35 meters and 60 meters depth respectively. That means, there is no or very less possibility of contamination with pesticides and fertilizer residues, otherwise upper layer should be more contaminated.

- c) During 2000, pesticides consumption was 6970 MT, however, which has tremendously decreased to 5258 MT in 2020 with regular awareness campaigns. Moreover, leading multinational manufacturers are shifting to take up chemicals of green chemistry which may be less hazardous to the eco-system.

C) Steps being taken up by Department of Agriculture and Farmer's welfare for reduction and judicious use of pesticides:

The Department of Agriculture and Farmer's Welfare of the State is taking appropriate steps for reducing the use of pesticides. The steps so taken by the Department of Agriculture and Farmer's Welfare are mentioned herein below

- a) The State Government is closely monitoring this issue. The Department is doing its concerted efforts to increase area under natural/organic farming under PMKSY and PKVY and about 20,000 hectare area has already been brought under Natural/Organic farming in the State.



- b) Big ways efforts are going to shift from Urea application to Nano urea application. During last three years, an application of Nano urea was made on about 15.38% area (with about 31 lakh litres). Moreover, consumption of urea has been reduced to 29.45 LMT in 2022-23 from 31.33 LMT in 2021-22. Similar, trend has to be followed in 2023-24, however, consumption of 30.68 LMT urea has been reported due to resowing of paddy crops due to floods.
- c) Agroforestry has already been covered on a substantial area of about 1 lakh hectare, which would definitely help in both bringing green cover and significant reduction of pesticides and fertilizers. Green cover would be instrumental for receiving good amount of rainfall, consequently, lowering salt concentration. Besides, the process of diverting around 2.5 Lakh hector from paddy to Maize is also under active consideration of Government of Punjab and Government of India which will save huge fertilizer and ground water.
- d) About an area of 7.0 lakh hectare has been proposed to be ground under direct Seeded Rice (DSR) during 2024, out of which 2.0 lakh ha area would be brought under bamati crop, which otherwise need less water and less number of sprays.
- e) The department is also working in collaboration with Sir Ratan Tata Trust for reducing pesticide sprays especially on Cotton and Basmati. Therefore, Integrated Pest Management and Integrated Nutrient Management are being promoted, which indeed helped to reduce the chemical pressure by making application of other available alternatives especially in Cotton and Basmati crops. With these techniques, about 4-5 sprays have been reduced on these crops.
- f) Soil Health check of fields, is a regular feature of the Department. About 28.50 lakh samples have already been got analysed during last 20 years. During 2022-23, 1.99 lakh soil

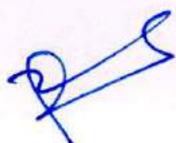


samples have been taken from the field and got analysed and farmers are made aware regarding the recommended dose of fertilizers for various types of crops to be sown. EC is also tested amongst the other macro and micro nutrients availability.

- g) 61435 camps were held in last 20 years for making aware the farmers regarding the judicious use of fertilizer and pesticides. In these camps about more than 40 lakh farmers have been trained so far. During 2023-24, 43 district, 332 block and 5365 villages level training camps have been organized by the Department, in which about 2,69,884 farmers have participated and they have been educated about the new farm technologies available and also made aware about the other ill effects associated with burning of crop residues as well as judicious use of pesticides and fertilizers. As CGWB revealed in its report of 2022, the contaminations notably of Nitrate, Fluoride, heavy metals and radio-active element such as uranium in groundwater has been reported in significant proportion beyond the permissible limit in South and Southwestern part of the State by various agencies. This may be attributed to the geogenic contamination in this area.

D) Conclusion

It may be submitted that the 315 sites mentioned in the report don't give any clear site locations which have been selected out of 336 CGWB sites. Electrical conductivity (EC) in the study area ranges from 197.38 to 40,888.90uS/cm in 2000 and from 175 to 8375 uS/Cm in 2020. However, in South-western districts its ranges obviously increased. Water Quality Index (WQI), study shows that 13.01% sampling locations area categorized in the very poor and 20% in unsuitable category respectively, however, during 2020, 6.35% are very poor and 12.38% in unsuitable category respectively. Thereby, amelioration of ground water has been noticed rather than deterioration of natural resources. The contaminations notably of Nitrate, Fluoride, heavy metals and radio-active element such



as uranium in groundwater may be attributed to the geogenic contamination in this area.

- 7) That respectfully, it is submitted that the Department of Water Supply and Sanitation never intended to shift the responsibility to various other departments, while submitting reply before the Hon'ble Tribunal. The State of Punjab has highest regard for the Hon'ble National Green Tribunal and an unconditional apology in this regard is tendered before the Hon'ble National Green Tribunal. The Department of Water Supply and Sanitation is committed to provide safe drinking water to the rural population of the State and the Department of Agriculture and Farmers Welfare of the State is taking appropriate steps for reducing the use of pesticides and insecticides by the farmers.
- 8) That the Status report on behalf of the State of Punjab is hereby submitted in compliance to order dated 19.03.2024 for kind consideration of the Hon'ble National Green Tribunal.

Submitted by



(Kumar Rahul)

Date: 15/5/24
Place: Chandigarh

**Secretary to Government of Punjab
Department of Science, Technology and Environment**

On behalf of State of Punjab



ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਿਤ ਪਾਣੀ ਨੂੰ ਕੰਟਰੋਲ ਕਰਨ ਵਾਲਾ ਬੋਰਡ
PUNJAB POLLUTION CONTROL BOARD

No. 8321-23

Dated. 27/03/24

To

1. The Special Chief Secretary to Government of Punjab,
Department of Agriculture and Farmers Welfare,
Chandigarh.
2. The Principal Secretary to Government of Punjab,
Department of Rural Water Supply and Sanitation,
Chandigarh.
3. The Principal Secretary to Government of Punjab,
Department of Local Government,
Chandigarh.

Subject: Original Application no. 676 of 2023.

Compliance of order dated 19.03.2024 of Hon'ble NGT.

**In re: News item appearing in The Times of India dated 12.10.2023
titled "Agricultural Runoff causing groundwater pollution in Punjab,
making Drinking Water unsafe, Reveals Study"**

Please refer to the subject cited above.

It is informed that the Hon'ble National Green Tribunal has taken suo moto cognizance of the subject cited case. As per the news item, in a research released by Indian Institute of Technology (IIT) Mandi, it has been found that human activity has increased ground water pollution, particularly, through agricultural runoff in Punjab found making it unsafe for drinking and raising health risks. The report has been concluded with the remarks that the water of southwestern region of Punjab is highly pollution and with high health index affecting people living in the region.

- 2) The Hon'ble NGT was not satisfied with the reply filed by the Department of Water Supply and Sanitation and observed that an attempt has been made to involve the issue intra departmental. The Hon'ble NGT by passing an order dated 19.03.2024 has called the Worthy Chief Secretary State of Punjab to appear in person through Virtual Mode on the next date of hearing on 17.05.2024 and to submit an appropriate reply on the issue. Copy of order dated 19.03.2024 is enclosed for kind perusal.


Member Secretary
Punjab Pollution Control Board
PATIALA

ਵਾਤਾਵਰਣ ਭਵਨ, ਨਾਭਾ ਰੋਡ, ਪਟਿਆਲਾ-147001

Watawaran Bhawan, Nabha Road, Patiala -147001

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

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

3) The Punjab Pollution Control Board is separately moving a file for obtaining a suitable date and time from the Worthy Chief Secretary Punjab for convening of a meeting of all the concerned departments on the subject cited case.

4) In view of the facts and circumstances of the case, a copy of the study report of IIT Mandi as published in the Times of India dated 12.10.2023 is being forwarded to your office with request to issue instructions to the concerned officers for the preparation of a report and reply relating to the respective departments which is to be filed before the Hon'ble National Green Tribunal so that the Worthy Chief Secretary Punjab is apprised about the same during the meeting.

DA/As above

Endst No. 8324-26

J.S.
o/c **Member Secretary**
Dated. 27/03/24

A copy of the above is forwarded to the following for information and necessary action please:

1. The Chairman, Punjab Pollution Control Board, Patiala.
2. The Scientific Officer, Water Laboratory, Punjab Pollution Control Board, Patiala
3. The Environmental Engineer, Regional Office-2, Punjab Pollution Control Board, Ludhiana.

Endst No. 8327

J.S.
o/c **Member Secretary**
Dated. 29/03/24

A copy of the above is forwarded to the Secretary to Government of Punjab, Department of Science, Technology and Environment, Chandigarh for information please.

J.S.
o/c **Member Secretary**

J.S.
Member Secretary
Punjab Pollution Control Board
PATIALA.



ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਕੰਟਰੋਲ ਬੋਰਡ
PUNJAB POLLUTION CONTROL BOARD

No. 8328-29

Dated. 27/03/2024

To

1. The Principal Secretary to Govt. of Punjab,
Department of Rural Water Supply and Sanitation,
Chandigarh.
2. The Principal Secretary to Govt. of Punjab,
Department of Local Government,
Chandigarh.

**Subject: Original Application no. 676 of 2023.
Compliance of order dated 19.03.2024 of Hon'ble NGT.**

**In re: News item appearing in The Times of India dated 12.10.2023
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2) The Hon'ble NGT was not satisfied with the reply filed by the Department of Water Supply and Sanitation and observed that an attempt has been made to involve the issue intra departmental. The Hon'ble NGT by passing an order dated 19.03.2024 has called the Worthy Chief Secretary State of Punjab to appear in person through Virtual Mode on the next date of hearing on 17.05.2024 and to submit an appropriate reply on the issue. Copy of order dated 19.03.2024 is enclosed for kind perusal.

3) The relevant direction issued by the Hon'ble National Green Tribunal in Paragraph 17 of the order dated 19.03.2024 is reproduced as under:

"In the meantime, all the contaminated ground water sources may be demarcated as "Unfit for drinking purposes in the State of Punjab and safe water availability be ensured."


Member Secretary
Punjab Pollution Control Board
PATIALA.

ਵਾਤਾਵਰਣ ਭਵਨ, ਨਾਭਾ ਰੋਡ, ਪਟਿਆਲਾ-147001
Vatavaran Bhawan, Nabha Road, Patiala -147001

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

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

4) The Punjab Pollution Control Board is separately moving a file for obtaining a suitable date and time from the Worthy Chief Secretary Punjab for convening of a meeting of all the concerned departments on the subject cited case.

5) In view of the facts and circumstances of the case and considering the directions issued by the Hon'ble National Green Tribunal in paragraph 17 of the order dated 19.03.2024, it is requested to issue necessary instructions to the Officers of the respective departments to demarcate the contaminated ground water sites and install a sign board on the sources of contaminated ground water supplies. As a short term measure, safe drinking water supply be made available to the people of the area as an alternative to contaminated ground water source. A comprehensive strategy may also be prepared as a long term measure for removal of the contamination from such source of ground water. An action taken report in this regard may kindly be instructed to be prepared so that the same is placed before the Worthy Chief Secretary Punjab during the upcoming meeting.

DA/As above

Endst No. 8330432

JS
Member Secretary
Dated 27/3/24

A copy of the above is forwarded to the following for information and necessary action please:

1. The Chairman, Punjab Pollution Control Board, Patiala.
2. The Scientific Officer, Water Laboratory, Punjab Pollution Control Board, Patiala
3. The Environmental Engineer, Regional Office-2, Punjab Pollution Control Board, Ludhiana.

Endst No. 8333

JS
Member Secretary
Dated 27/3/24

A copy of the above is forwarded to the Secretary to Govt. of Punjab, Department of Science, Technology and Environment, Chandigarh for information please.

JS
Member Secretary
Punjab Pollution Control Board
PATIALA.

JS
Member Secretary
o/c



**O/o EXECUTIVE ENGINEER, WATER QUALITY
DEPARTMENT OF WATER SUPPLY & SANITATION**

Water Works Complex, Phase-2, Sahibzada Ajit Singh Nagar-160055
E-Mail eedwss.wq@punjab.gov.in

To

1. Sh. Laxmidhar Behera (Director),
4th Floor, Innovation Centre, A-9 building, North Campus
Indian institute of Technology (IIT) Mandi
2. Sh. Vivek Tiwari (Deputy Registrar)
4th Floor, Innovation Centre, A-9 building, North Campus
Indian institute of Technology (IIT) Mandi
3. Dericks Praise Shukla (Associate Professor (Chairperson), School Of Civil &
Environmental Engineering

No.677

Date: 02.04.2024

Subject: OA 676/2023 news item titled "Agriculture Runoff Causing Groundwater Pollution in Punjab Making Drinking Water Unsafe reveals study" appearing in the times of India dated 12.10.2023

Reference: NGT order dated 19.03.2024 in OA 676/2023

In reference to above cited subject, it is submitted that Original Application register SUO MOTO in NGT on the basis of the News Item Published in "The Times of India" dated 12.10.2023 titled as "Agriculture Runoff Causing Groundwater Pollution in Punjab Making Drinking Water Unsafe Reveals Study" on behalf of the paper published by Harsimranjit Kaur Romania, Ramesh P. Singh, Dericks Praise Shukla i.e. "Spatio - temporal evolution of groundwater quality and its Health risk assessment in Punjab (India) during 2000-2020". In the research paper, the data used for analysis was taken from 315 sampling sites of Central Ground Water Board for the years 2000-2020. It is hereby requested to kindly share the list of 315 sampling sites along with their proper locations and the water quality parameters considered in the published research paper by IIT Mandi so that the compliance of the NGT orders dated 19.03.2024 may be complied by the Department immediately.

Kindly consider it as most urgent and further requested to share data by 03.04.2024 positively.

Executive Engineer (WQ)

Endst No. 678

Date: 02.04.2024

Copy of the above is forwarded to following for information please

1. PA to worthy PSWSS for Information of worthy PSWSS.
2. Head, DWSS
3. Chairman, Punjab Pollution Control Board
4. Director, Central Ground Water Board
5. Chief Engineer (North) cum Advisor, Water Quality

Executive Engineer (WQ)

Member Secretary
Punjab Pollution Control Board
PATIALA

Email

EE, Water Quality

Fwd: OA 676/2023 news item titled agriculture runoff causing groundwater pollution in Punjab Making Drinking Water unsafe reveals study appearing in the times of India dated 12.10.2023

From : hoddwss@gmail.com

Thu, Apr 18, 2024 09:12 PM

Subject : Fwd: OA 676/2023 news item titled agriculture runoff causing groundwater pollution in Punjab Making Drinking Water unsafe reveals study appearing in the times of India dated 12.10.2023

To : EE, Water Quality <eedwss.wq@punjab.gov.in>

----- Forwarded message -----

From: **Principal Secretary Water Supply & Sanitation Pb.** <secywss@gmail.com>

Date: Thu, Apr 18, 2024 at 4:57 PM

Subject: Fwd: OA 676/2023 news item titled agriculture runoff causing groundwater pollution in Punjab Making Drinking Water unsafe reveals study appearing in the times of India dated 12.10.2023

To: veenakshi sharma <ewaterquality@gmail.com>, advisor wq <advisor.wq@gmail.com>, Head, DWSS <hoddwss@gmail.com>, EE (W/Quality) <eedwss.wq@punjab.gov.in>

For necessary action on priority

----- Forwarded message -----

From: **Dericks Praise Shukla** <dericks@iitmandi.ac.in>

Date: Thu, Apr 18, 2024 at 2:36 PM

Subject: Re: OA 676/2023 news item titled agriculture runoff causing groundwater pollution in Punjab Making Drinking Water unsafe reveals study appearing in the times of India dated 12.10.2023

To: EE, Water Quality <eedwss.wq@punjab.gov.in>

Cc: Harsimran Romana <d19010@students.iitmandi.ac.in>, <romanaharsimranjitkaur@gmail.com>, DR Admin <dradmin@iitmandi.ac.in>, <secywss@gmail.com>, HOD DWSS <hoddwss@gmail.com>, advisor wq <advisor.wq@gmail.com>, Chief Engineer North Zone <cedwss.north@punjab.gov.in>, <chairmanppcb@yahoo.co.in>, Timothy A. Gonsalves <director@iitmandi.ac.in>, Registrar IIT Mandi <registrar@iitmandi.ac.in>, dral dral <dral@iitmandi.ac.in>, chair scene <chair_scene@iitmandi.ac.in>, DR Directorate (Vivek) <drdir@iitmandi.ac.in>, Singh, Ramesh <rsingh@chapman.edu>, RD NWR CGWB <rdnwr-cgwb@nic.in>

Dear Concerned Person,

If you read the Data Availability Statement guidelines available at <https://www.springernature.com/gp/authors/research-data-policy/data-availability-statements>

Guidance for authors and editors

An article's data availability statement lets a reader know where and how to access data that support the results and analysis. It may include links to publicly accessible datasets that were analysed or generated during the study, descriptions of what data are available and/or information on how to access data that is not publicly available.

It states to mention where and how the data can be accessed and links for the data may be provided so that readers can access it.

The same links were shown to one of your Engineer who visited IIT Mandi and were given by me in the

Member Secretary
Punjab Pollution Control Board
PATIALA

earlier mail. I have even shown him the link for CGWB earlier years Excel data. The data we used is from CGWB reports and same has been noticed by the honorable NGT bench.

You can get all the details from those links and reports to comply with the NGT order. You may contact CGWB for more details as they are the primary agency who collected the data and provided in the reports.

Rgds
Dericks

On Thu, 18 Apr, 2024, 09:58 EE, Water Quality, <eedwss.wq@punjab.gov.in> wrote:

Respected Madam and Dericks Praise Shukla Ji (1st author),

Gentle Reminder, the reply to the trailing mail is still awaited. It is humbly requested to kindly provide the requisite data requested vide trailing mail immediately so that the compliance of the NGT orders dated 19.03.2024 may be complied with by the Department at the earliest please.

Regards
Executive Engineer, Water Quality
DWSS, Punjab

From: "EE, Water Quality" <eedwss.wq@punjab.gov.in>
To: dericks@iitmandi.ac.in, d19010@students.iitmandi.ac.in, romanaharsimranjitkaur@gmail.com
Cc: dradmin@iitmandi.ac.in, secywss@gmail.com, hoddwss@gmail.com, "advisor wq" <advisor.wq@gmail.com>, "Chief Engineer North Zone" <cedwss.north@punjab.gov.in>, chairmanppcb@yahoo.co.in, director@iitmandi.ac.in, registrar@iitmandi.ac.in, dral@iitmandi.ac.in, "chair scene" <chair_scene@iitmandi.ac.in>, drdir@iitmandi.ac.in, rsingh@chapman.edu, "RD NWR CGWB" <rdnwr-cgwb@nic.in>
Sent: Tuesday, April 16, 2024 1:08:36 AM
Subject: Re: OA 676/2023 news item titled agriculture runoff causing groundwater pollution in Punjab Making Drinking Water unsafe reveals study appearing in the times of India dated 12.10.2023

Respected Harsimranjit Kaur Romana madam and Dericks Praise Shukla ji (1st author),

In reference to the above-cited subject, it is intimated that the Original Application register SUO MOTO in NGT based on the News Item Published in "The Times of India" dated 12.10.2023 titled "**Agriculture Runoff Causing Groundwater Pollution in Punjab Making Drinking Water Unsafe Reveals Study**" on behalf of your paper published i.e. "**Spatio – temporal evolution of groundwater quality and its Health risk assessment in Punjab (India) during 2000-2020**". In the research paper, the data used for analysis was taken from 315 sampling sites of Central Ground Water Board for the years 2000-2020.

Further, in the research paper on page no. 16, it has been mentioned under **Data Availability** that "**the data will be made available on reasonable request from the first author**".

In this regard, a reasonable request was previously made vide letter no.677-78 dated 02.04.2024 but in response to that Dr. Dericks vide their email dated 05.04.2024 shared only the links for obtaining the data from CGWB sites. but as a government department we need the detail of 315 sampling sites. As the matter has been taken up by the Hon'ble NGT and the next date of hearing in this case is 17.05.2024. So, as per data availability committed in the research paper and being a First authors, it is hereby requested to kindly share the list and analysis of 315 sampling sites along with their proper locations and the water quality parameters considered in the published research paper immediately so that the compliance of the NGT orders dated 19.03.2024 may be complied with by the Department at the earliest.

Kindly consider it as most urgent and further requested to share data by 17.04.2024 positively.


Member Secretary
Punjab Pollution Control Board
PATIALA.

Member Secretary
Punjab Pollution Control Board
PATIALA.

Regards
Executive Engineer, Water Quality
DWSS, Punjab

From: dericks@iitmandi.ac.in

To: dradmin@iitmandi.ac.in, "EE, Water Quality" <eedwss.wq@punjab.gov.in>, secywss@gmail.com, hoddwss@gmail.com, "advisor wq" <advisor.wq@gmail.com>, "Chief Engineer North Zone" <cedwss.north@punjab.gov.in>, chairmanppcb@yahoo.co.in

Cc: director@iitmandi.ac.in, registrar@iitmandi.ac.in, dral@iitmandi.ac.in, "chair scene" <chair_scene@iitmandi.ac.in>, drdir@iitmandi.ac.in

Sent: Friday, April 5, 2024 6:06:42 PM

Subject: Re: OA 676/2023 news item titled agriculture runoff causing groundwater pollution in Punjab Making Drinking Water unsafe reveals study appearing in the times of India dated 12.10.2023

Dear Sir,

We used the data provided by the Central Ground Water Board (CGWB) for their annual ground water year book that can be easily downloaded from the internet. An example for such PDF can be found at https://www.cgwb.gov.in/old_website/Regions/NWR/Reports/Year%20Book%20Punjab%20and%20Chandigarh%20UT%202019-20.pdf

You may kindly search similar year books for other years.

You can get some data from this website as well for 2000-2009
https://www.cgwb.gov.in/old_website/WQ/GWQ_2000-2009.xlsx.

You can read our paper based on which the NGT has taken th esou moto case at <https://link.springer.com/article/10.1007/s11356-023-29200-6>.

The recent court order is attached herewith for your reference as well.

Hope this helps.

Rgds
Dericks

On Tue, Apr 2, 2024 at 9:59 PM DR Admin Vivek <dradmin@iitmandi.ac.in> wrote:

Dear Sir,

Kindly see the attachment and provide the details as requested.

Regards.

Vivek Tiwari
Deputy Registrar (Admin),
IIT Mandi, H. P.

----- Forwarded message -----

From: **EE, Water Quality** <eedwss.wq@punjab.gov.in>

Date: Tue, 2 Apr, 2024, 6:37 PM

Subject: OA 676/2023 news item titled agriculture runoff causing groundwater pollution in Punjab Making Drinking Water unsafe reveals study appearing in the times of India dated 12.10.2023

To: director@iitmandi.ac.in, <dericks@iitmandi.ac.in>, <dradmin@iitmandi.ac.in>

Member Secretary
Punjab Pollution Control Board
PATIALA.

Re: Punjab WQ stations

From : EE, Water Quality <eedwss.wq@punjab.gov.in>
Subject : Re: Punjab WQ stations
To : Rakesh Rana <rakeshrana-cgwb@gov.in>

Thu, Mar 28, 2024 06:54 PM
 4 attachments

Respected Sir,

W.R.t the Data provided vide trailing mail it is intimated that it has been observed that some of the data is not filled in the sheets, so it is humbly requested to kindly provide the complete data so that compliance of NGT orders in OA no.676 of 2023 can be done timely.

Regards
 Executive Engineer, Water Quality
 DWSS, Punjab

From: "EE, Water Quality" <eedwss.wq@punjab.gov.in>
To: "nancybhalla1990" <nancybhalla1990@yahoo.com>
Sent: Wednesday, March 27, 2024 12:23:12 AM
Subject: Fwd: Punjab WQ stations

From: "Rakesh Rana" <rakeshrana-cgwb@gov.in>
To: "EE, Water Quality" <eedwss.wq@punjab.gov.in>
Sent: Wednesday, March 27, 2024 12:40:09 PM
Subject: Fwd: Punjab WQ stations

PFA

Regards

Rakesh Rana
 Scientist-D
 Central Ground Water Board
 North Western Region, Ministry of Jal Shakti
 Plot No. 3B, Bhujal Bhawan, Sector-27A
 Chandigarh-160019

From: "Gargi Walia" <gargi.gwalia@gov.in>
To: "Rakesh Rana" <rakeshrana-cgwb@gov.in>
Sent: Wednesday, March 27, 2024 12:15:21 PM
Subject: Punjab WQ stations

Sir
 PFA WQ stations of Punjab.

Regards

Gargi Walia
 Scientist-'C'
 Central Ground Water Board,
 North Western Region, Chandigarh
 Department of Water Resources, RD & GR,
 Ministry Of Jal Shakti, Govt. of India



Member Secretary
 Punjab Pollution Control Board
 PATIALA

Regards
Executive Engineer, Water Quality
DWSS, Punjab

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 - 📎 **Bathinda Section.docx**
63 KB
 - 📎 **Chandigarh Section.docx**
58 KB
 - 📎 **Ludhiana Section.docx**
59 KB
-

From : EE, Water Quality <eedwss.wq@punjab.gov.in>
Subject : Fwd: Punjab WQ stations
To : nancybhalla1990 <nancybhalla1990@yahoo.com>

Wed, Mar 27, 2024 12:53 PM
📎 4 attachments

From: "Rakesh Rana" <rakeshrana-cgwb@gov.in>
To: "EE, Water Quality" <eedwss.wq@punjab.gov.in>
Sent: Wednesday, March 27, 2024 12:40:09 PM
Subject: Fwd: Punjab WQ stations

PFA

Regards

Rakesh Rana
Scientist-D
Central Ground Water Board
North Western Region, Ministry of Jal Shakti
Plot No. 3B, Bhujal Bhawan, Sector-27A
Chandigarh-160019

From: "Gargi Walia" <gargi.gwalia@gov.in>
To: "Rakesh Rana" <rakeshrana-cgwb@gov.in>
Sent: Wednesday, March 27, 2024 12:15:21 PM
Subject: Punjab WQ stations

Sir
PFA WQ stations of Punjab.

Regards

Gargi Walia
Scientist-'C'
Central Ground Water Board,
North Western Region, Chandigarh
Department of Water Resources, RD & GR,
Ministry Of Jal Shakti, Govt. of India


Member Secretary
Punjab Pollution Control Board
PATIALA

Member Secretary
Punjab Pollution Control Board
PATIALA

Regards
Executive Engineer, Water Quality
DWSS, Punjab

Amritsar Section.docx
58 KB

Bathinda Section.docx
63 KB

Chandigarh Section.docx
58 KB

Ludhiana Section.docx
59 KB

From : Rakesh Rana <rakeshrana-cgwb@gov.in>
Subject : Fwd: Punjab WQ stations
To : EE, Water Quality <eedwss.wq@punjab.gov.in>

Wed, Mar 27, 2024 12:43 PM

4 attachments

PFA

Regards

Rakesh Rana
Scientist-D
Central Ground Water Board
North Western Region, Ministry of Jal Shakti
Plot No. 3B, Bhujal Bhawan, Sector-27A
Chandigarh-160019

From: "Gargi Walia" <gargi.gwalia@gov.in>
To: "Rakesh Rana" <rakeshrana-cgwb@gov.in>
Sent: Wednesday, March 27, 2024 12:15:21 PM
Subject: Punjab WQ stations

Sir
PFA WQ stations of Punjab.

Regards

Gargi Walia
Scientist-'C'
Central Ground Water Board,
North Western Region, Chandigarh
Department of Water Resources, RD & GR,
Ministry Of Jal Shakti, Govt. of India

Amritsar Section.docx

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Bathinda Section.docx

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Chandigarh Section.docx

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Ludhiana Section.docx

59 KB


Member Secretary
Punjab Pollution Control Board
PATIALA.

From : dericks@iitmandi.ac.in

Fri, Apr 05, 2024 05:58 PM

Subject : Re: OA 676/2023 news item titled agriculture runoff causing groundwater pollution in Punjab Making Drinking Water unsafe reveals study appearing in the times of India dated 12.10.2023

1 attachment

To : dradmin@iitmandi.ac.in, EE, Water Quality <eedwss.wq@punjab.gov.in>, secywss@gmail.com, hoddwss@gmail.com, advisor wq <advisor.wq@gmail.com>, Chief Engineer North Zone <cedwss.north@punjab.gov.in>, chairmanppcb@yahoo.co.in

Cc : director@iitmandi.ac.in, registrar@iitmandi.ac.in, dral@iitmandi.ac.in, chair scene <chair_scene@iitmandi.ac.in>, drdir@iitmandi.ac.in

Dear Sir,

We used the data provided by the Central Ground Water Board (CGWB) for their annual ground water year book that can be easily downloaded from the internet. An example for such PDF can be found at https://www.cgwb.gov.in/old_website/Regions/NWR/Reports/Year%20Book%20Punjab%20and%20Chandigarh%20UT%202019-20.pdf

You may kindly search similar year books for other years.

You can get some data from this website as well for 2000-2009 https://www.cgwb.gov.in/old_website/WQ/GWQ_2000-2009.xlsx.

You can read our paper based on which the NGT has taken the suo moto case at <https://link.springer.com/article/10.1007/s11356-023-29200-6>.

The recent court order is attached herewith for your reference as well.

Hope this helps.

Rgds
Dericks

On Tue, Apr 2, 2024 at 9:59 PM DR Admin Vivek <dradmin@iitmandi.ac.in> wrote:
Dear Sir,

Kindly see the attachment and provide the details as requested.

Regards.

Vivek Tiwari
Deputy Registrar (Admin),
IIT Mandi, H. P.

----- Forwarded message -----

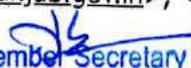
From: **EE, Water Quality** <eedwss.wq@punjab.gov.in>

Date: Tue, 2 Apr, 2024, 6:37 PM

Subject: OA 676/2023 news item titled agriculture runoff causing groundwater pollution in Punjab Making Drinking Water unsafe reveals study appearing in the times of India dated 12.10.2023

To: <director@iitmandi.ac.in>, <dericks@iitmandi.ac.in>, <dradmin@iitmandi.ac.in>, <chair_scene@iitmandi.ac.in>

Cc: Secretary Water Supply and Sanitation Punjab <secywss@gmail.com>, HOD DWSS <hoddwss@gmail.com>, advisor wq <advisor.wq@gmail.com>, Chief Engineer North Zone <cedwss.north@punjab.gov.in>, <chairmanppcb@yahoo.co.in>, RD NWR CGWB <rdnwr-cgwb@nic.in>


Member Secretary
Punjab Pollution Control Board
PATIALA.

Respected Sir/Madam

Please see the attached file.

Regards
Executive Engineer, Water Quality
DWSS, Punjab



--
--
Dericks Praise Shukla, PhD,
*Associate Professor of Remote Sensing & GIS,
School of Civil and Environmental Engineering,
IIT Mandi, North Campus, Kamand,
Mandi, 175075, HP.*

 **2024.03.19 OA 676-2023 News item titled Agriculture Runoff causing groundwater.pdf**
248 KB

From : EE, Water Quality <eedwss.wq@punjab.gov.in>
Subject : OA 676/2023 news item titled agriculture runoff causing groundwater pollution in Punjab Making Drinking Water unsafe reveals study appearing in the times of India dated 12.10.2023
To : director@iitmandi.ac.in, dericks@iitmandi.ac.in, dradmin@iitmandi.ac.in, chair scene <chair_scene@iitmandi.ac.in>
Cc : Secretary Water Supply and Sanitation Punjab <secywss@gmail.com>, HOD DWSS <hoddwss@gmail.com>, advisor wq <advisor.wq@gmail.com>, Chief Engineer North Zone <cedwss.north@punjab.gov.in>, chairmanppcb@yahoo.co.in, RD NWR CGWB <rdnwr-cgwb@nic.in>

Tue, Apr 02, 2024 06:36 PM

 1 attachment

Respected Sir/Madam

Please see the attached file.

Regards
Executive Engineer, Water Quality
DWSS, Punjab


Member Secretary
Punjab Pollution Control Board
PATIALA.



क्षेत्रीय रासायनिक प्रयोगशाला
 केन्द्रीय भूमिजल बोर्ड,
 उत्तर पश्चिमी क्षेत्र
 चंडीगढ़

ANALYTICAL REQUEST FORM

CGWB/NWR/7.1 F-01

Sender :
 Letter No.: nil
 Date :

Quantity: 1L

State: PUNJAB
 Study: Hydrograph Network

S.No	District	Block	Location	Physical Location Detail	Source	Latitude (DMS)	Longitude (DMS)	Aquifer I/II/III Or Depth (mamsl)	Depth (mtrs)	Sampling Date	Field Parameters			RL (mmsl)	Remarks	
											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu, Cd, Zn, Pb, Mn, Cr, Ni, U)
1	Jalandhar		Turan	From PHED Tubwell of waterworks premises in Turan site	TW	75.901	31.12									
2	Jalandhar		Phillaur	In the premises of slm court complex and near Shiv Mandir	HP	75.803	31.027									
3	Jalandhar		Gohiran	T W Ladhi Singh S/O Gurmail Singh	TW	75.5	31.179									
4	Jalandhar		Jandiala	Near Jan seva Kendra, Service Station.	TW	75.617	31.158									
5	Jalandhar		Sarih	In the Premises of Inspection Bunglow	HP	75.6	31.117									
6	Jalandhar		Nakodar	Near Punjab palace & Washing Center Nakodar Malsian	TW	75.485	31.133									
7	Jalandhar		Billi Charmi	T W in Premises of water works	TW	75.394	31.112									
8	Jalandhar		Shahkot	Bharat Petroleum R R filling Station	TW	75.33	31.079									
9	Jalandhar		Malsian	200m. N side from Malsian	TW	75.316	31.125									
10	Jalandhar		Talwandi Madho	Sample Collected From TWof Water Works	TW	75.311	31.2									
11	Jalandhar		Lallian Kalan	200m. from PFS in the Field	TW	75.492	31.263									

Member Secretary
 Punjab Pollution Control Board
 PATIALA.

Member Secretary
 Punjab Pollution Control Board
 PATIALA.

S.No	District	Block	Location	Physical Location Detail	Source	Latitude (DMS)	Longitude (DMS)	Aquifer I/II/III Or Depth (mamsl)	Depth (mtrs)	Sampling Date	Field Parameters			RL (ma msl)	Remarks	
											Temp	EC	pH		Basic analysis	Heavy Metals
											°C					
12	Jalandhar		Udhopur	In the Premises of Gurudwara Sahib	TW	75.533	31.194									
13	Jalandhar		Goraya	Gurudwara sri Singh Sabha	TW	75.533	31.233									
14	Jalandhar		Kartarpur	Malwa filling station Kartarpur	TW	75.499	31.436									
15	Jalandhar		Jalandhar	Hotel Gagandeep near bus stand	TW	75.589	31.325									
16	Jalandhar		Jandu Singha	Sample collected from TW near pg	TW	75.646	31.373									
17	Jalandhar		Adampur	Near TVS Agency & near pg	TW	75.708	31.422									
18	Jalandhar		Allawalpur	Near D W of Allawalpur	TW	75.664	31.429									
19	Jalandhar		Khera Kalan	Near to school back side of house	TW	75.379	31.082									
20	Jalandhar		Jalbhe	Opp House of DW Jalbhe	TW	75.786	31.47									
21	Kapurthala		phagwara	Opp SDM court and fire brigade office	TW	75.779	31.229									
22	Kapurthala		Kapurthala	Ajit Motor & Garage near Kpurthala	TW	75.381	31.369									
23	Kapurthala		Hussainpur	200m. from water works	TW	75.571	31.571									
24	Kapurthala		Sultanpur Lodhi	Near the Pz Sultanpur Lodhi	TW	75.2	31.219									
25	Kapurthala		Talwandi Choudhuria	Near the Pz Anaj Mandi	HP	75.2	31.296									
26	Kapurthala		Bhatnura Khurd	T W Opposite school HP	TW	75.591	31.566									
27	Kapurthala		Bholath	Kalka filling station Kartarpur road Bholath	TW	75.506	31.535									
28	Kapurthala		Dalla	In the Premises of Gurudwara Sahib	TW	31.174	75.242									
29	Amritsar		Jandiala Guru	Ashok Shubh & Co.(Indian oil) filling station	HP	75.033	31.567									
30	Amritsar		Mohawa	Near Dug Well Mohawa	HP	74.938	31.567									
31	Amritsar		Chogawan	Near Durga mandir Ice Factory	TW	74.667	31.717									
32	Amritsar		Bhindi Saidan	HP of peer baba 200m from Pz	TW	74.641	31.811									
33	Amritsar		Ajnala	Near Durgawell Ajnala	TW	74.758	31.846									
34	Amritsar		Urdhan	Near to water works Urdhan	TW	74.866	31.879									

Member Secretary
Punjab Pollution Control Board
PATIALA.

S.No	District	Block	Location	Physical Location Detail	Source	Latitude (DMS)	Longitude (DMS)	Aquifer I/II/III Or Depth (mamsl)	Depth (mtrs)	Sampling Date	Field Parameters			RL (ma msl)	Remarks	
											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd,Zn,Pb,Mn,Cr,Ni,U)
35	Amritsar		Gaggo Mahal	In the Premises of Vet Hospital	TW	74.667	31.9									
36	Amritsar		Ramdas	From Dugwell in Gurudwara Sahib	DW	74.917	31.967									
37	Amritsar		Amritsar	Sample taken from DW of Gurudwara (NHS Point)	TW	74.875	31.633									
38	Amritsar		Beas	From Dug Well Beas	DW	75.3	361.515									
39	Amritsar		Mehta	Near rane ka dhaba in main market Adj.Anaj	HP	75.25	31.667									
40	Tarn Taran		Daburji	200m. From Pz Haspreet Sainitary store near Nursery Main road	TW	74.9	31.495									
41	Tarn Taran		Sahabpura	Sardar Harjit Singh S/O Satran Singh	TW	74.931	31.392									
42	Tarn Taran		Khadur Sahib	In the premises of BDPO Office	TW	75.131	31.433									
43	Tarn Taran		Chola Sahib	Ever Green filling Station Chola Sahib	TW	74.842	31.25									
44	Tarn Taran		Goindwal Sahib	Sample from Gurudwara Goindwal Sahib	DW	75.144	31.365									
45	Tarn Taran		Khwaspur	Collected from Handpump near Pz	HP	75.1	31.392									
46	Tarn Taran		Barwala	Oppo Pz near peer Baba Mazar	HP	74.803	31.224									
47	Tarn Taran		Barwala	Oppo Pz near peer Baba Mazar	HP	74.803	31.224									
48	Tarn Taran		Kalsian Kalan	In Compound of Gurudwara Sahib	TW	74.7	31.278									
49	Taran Taran		Bhikhiwind	In the Compound of BDPO Office	TW	74.7	31.35									
50	Tarn Taran		Gandiwind	Peer Baba Buddha Saab filling station	HP	74.7	31.517									
51	Tarn Taran		Maarhi Nav Abaad	Sample Taken From Jimmy Aato Fiver Indian Oil	TW	74.666	31.332									
52	Tarn Taran		Aminsha Khalra	Eknoor Cement Store Oppo Dana Mandi	TW	74.625	31.396									
53	Taran Taran		Chabal	Yuv Raj filling station Chabal	TW	74.8	31481									

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											Temp	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd,Zn,Pb,Mn,Cr,Ni,U)
											°C					
54	Gurdaspur		Dera Baba Nanak	Sample Collected from Gurudwara Sahib	TW	75.033	32.013									
55	Gurdaspur		Mullanwali	Opp Gurudwara Sahib	TW	75.008	31.992									
56	Gurdaspur		Haruwal	TW (200) From Pz Dhan Dhan baba Shri Chand ji Tapsthan	TW	74.908	31.916									
57	Gurdaspur		Kalanaur	In the Premises of Shiv Mandir kalanaur	TW	75.133	32.017									
58	Gurdaspur		Pandori Dham	In the premises of Pandori Dham	HP	75.513	32.053									
59	Gurdaspur		Choranwali	Handpump of Samshanghat	HP	75.148	31.858									
60	Gurdaspur		Bhagowal	Opp Gurudwara Sahib near Bus stop	HP	75.163	31.896									
61	Gurdaspur		Ghaniye Ke Bangar	Near the Pz Raju duet readymade store	HP	75.05	31.867									
62	Gurdaspur		Madipur (Fatehgarh Churian)	Near to Dugwell Madipur	TW	74.958	31.864									
63	Gurdaspur		Dokoha	Near Sandhu Medical Store 150m from PZ on main road	HP	75.383	31.658									
64	Gurdaspur		Ghoman	House of Sh Ranjeet Singh near PZ	TW	75.386	31.691									
65	Gurdaspur		SriHargobindpur	In the premises of Kali Mata Mandir	TW	75.475	31.692									
66	Gurdaspur		Aulakh Kalan	100 m from Dugwell from house of Harinder Singh	TW	75.506	31.796									
67	Gurdaspur		Harchowal	In the compound of Canal rest house	HP	75.45	31.792									
68	Gurdaspur		Sathiali Nanekot	150 m from Pz Samshan Ghat on road	HP	75.433	31.9									
69	Gurdaspur		Pandori Dham	In the premises of Pandori Dham	HP	75.513	32.053									

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											Temp	EC	pH		Basic analysis	Heavy Metals
											°C					
70	Gurdaspur		Gahlri	Near Gurudwara Sahib & 100 m from DW	HP	75.474	31.837									
71	Gurdaspur		Nishyara Majja Singh	100m. from Dugwell Nishiyara Majja Singh	TW	75.308	31.929									
72	Gurdaspur		Ganja (Ganji)	Sample taken from HP of SS Traders of opp Punjab Flexing Board Office	TW	75.353	32.114									
73	Gurdaspur		Saidowal	In the compound of Shiv Mandir	HP	75.519	31.98									
74	Pathankot		Bham	2 Km from Dugwell Gurdaspur Hargobindpur road in the Field	TW	75.458	31.717									
75	Pathankot		Bamyal	From Peer Baba Majar Opp Mata Mandir	HP	75.458	32.288									
76	Pathankot		Jhakho Lahri	50 m from DW near Sharma Tea Stall	HP	75.533	32.217									
77	Pathankot		Bhoa	From Dugwell NHS Point	DW	75.522	32.25									
78	Pathankot		Dhalorian	From Ramesh Kumar House near to DW	HP	75.543	32.209									
79	Pathankot		Gharota Kalan	Sample from Hamara Pump Gharota Kalan	HP	75.572	32.15									
80	Pathankot		Pathankot	150 m From Dugwell Indian Oil Petrol Pump	TW	75.625	32.267									


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											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd,Zn,Pb,Mn,Cr,Ni,U)
81	Pathankot		Sarna	From Dugwell NHS Point	DW	75.592	32.263									
82	Pathankot		Nawanpind	Near Railway Phatak 50m In From Dugwell	HP	75.583	32.342									
83	Pathankot		Ghoh	In the premises of Shiv Mandir, Ghoh	DW	75.663	32.329									
84	Pathankot		Parmota	2 Km From Dugwell on Budhori Kiari road near Shani Mandir	HP	75.753	32.348									
85	Pathankot		Kui	From Dugwell NHS Point	DW	75.871	32.433									
86	Pathankot		Khani Khui	Gharota Kalan road near Khani Khui	HP	75.55	32.16									


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केन्द्रीय भूमिजल बोर्ड,
उत्तर पश्चिमी क्षेत्र
चंडीगढ़

ANALYTICAL REQUEST FORM

CGWB/NWR/7.1 F-01

Sender :
Letter No.: nil
Date :

Quantity: 1L

State: PUNJAB
Study: Hydrograph Network

S.No.	District	Block	Location	Physical Location Detail	Source	Latitude (DMS)	Longitude (DMS)	Aquifer I/II/III Or Depth (mamsl)	Depth (mtrs)	Sampling Date	Field Parameters			RL (mamsl)	Remarks	
											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu, Cd, Zn, Pb, Mn, Cr, Ni, U)
1	Mansa		Bhikhi	Sample collected satluj cold filter water front pf peizometer	TW	30.07	75.538									
2	Mansa		Kotra Kalan	Basant singh s/o Puran singh dera near Gurudwara	TW	30.055	75.493									
3	Mansa		Ralla	Sample Collected From Tubewell located in premises of water works ralla	DW	30.12	75.44									
4	Mansa		Budhlada	Tubewell in Govt ITI Near Bagwani vikas office premises Budhlada	TW	29.93	75.542									
5	Mansa		Mofar	Tubewell (180 ft) From Backside of Water Works	TW	29.78	75.419									
6	Mansa		Fatta Maluka	Handpump of Gurudwara Gurughar Fatta Maluka	HP	29.8	75.283									
7	Mansa		Jhanda Khurd	Sir Baba Badri Das Temple Tubewell, Sardulgarh sirsa road tubewell	TW	29.65	75.186									
8	Mansa		Dialpura	Sample collected from Water Works supply Tubewell	TW	29.893	75.665									
9	Mansa		Kot Dharmu	Handpump of Dera Nandhari Maharaj, Jung singh ji	HP	29.91	75.461									
10	Mansa		Burj Bhalaika	In the premises of Gurudwara of the village	TW	29.84	75.279									
11	Mansa		Raipur	sample collected adjacent to attachakki, from the house of Lekhraj Singh	HP	29.69	75.229									

(Signature)
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											Temp	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd,Zn,Pb,Mn,Cr,Ni,U)
											°C					
12	Bhatinda		Bahman Kor Sing	sample collected adjacent to house located near peizometer	TW	29.909	75.127									
13	Bhatinda		Gurusar	Kaka Singh s/o bag singh in front of samsanGhat (Peizometer located in the premises of SamsanGhat)	TW	29.99	75.092									
14	Bhatinda		Jajal	Sample Collected From Dera Sant Gyan Das, Jajjal	TW	29.96	75.033									
15	Bhatinda		Bhagi Bandar	Sample Collected From TW of Santa Dera (Nikku Da Dera	TW	30.03	75.067									
16	Bhatinda		Kala Bandar	Harmesh Singh near water works house located gali no 18	TW	30.07	75									
17	Bhatinda		Kot Shamir	Sample Collected From Gurudwara Sahib, Kot Shamir Road, Gurumanas Electrical Work	TW	30.11	75.008									
18	Bhatinda		Dera Tappa	Sample Collected From Handpump Beside the Dubwell	HP	30.26	74.936									
19	Bhatinda		Nahianwala	Located in front of NHS Dugwell	HP	30.31	74.91									
20	Bhatinda		Khialiwala	Sample collected from adjacent tubewell located near nhs point (Tibba)	TW	30.226	74.982									
21	Bhatinda		Phulla	Sample Collected From DW Motor Poohla	TW	30.28	75.1									
22	Bhatinda		Kalyan sukha	Sample collected from house located in front of piezometer	TW	30.37	75.116									
23	Bhatinda		Dialpur Mirja	House Of Sukhbir Singh Near NHS Point	TW	30.4	75.134									
24	Bhatinda		Kothaguru	Sample Collected from the house in front of NHS station adjacent to Kirana Store, Kotha Guru	TW	30.43	75.1									
25	Bhatinda		Dialpur Bhilaika	Sample collected in the Premises of Gurudwara	TW	30.4	75.133									
26	Bhatinda		Dhapali	Sample collected in the house of jagjit singh s/o Balwinder Singh	TW	30.36	75.242									
27	Bhatinda		Phul	Sample collected Bagga Singh (Gurpreet Singh)	TW	30.32	75.07									
28	Bhatinda		Badiala	Sample Collected From Badiala Gurudwara TW	TW	30.24	75.348									
29	Bhatinda		Rampuraphu 1	Sample Collected from Senior Secondary School	TW	30.25	75.235									

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											Temp	EC	pH		Basic analysis	Heavy Metals
											°C				(15 parameters)	(Cu,Cd,Zn,Pb,Mn,Cr,Ni,U)
30	Bhatinda		Maiser Khanna	Sample collected from Guru Teg Bahadur Panchayat ikhoo	TW	30.11	75.181									
31	Bhatinda		Sangat Kalan	Sample collected from bore well located in samsan Ghat	HP	30.09	74.829									
32	Bhatinda		Jassi Bhagwali	Balwinder Singh S/o Bag Singh in front of NHS Station	HP	30.07	74.801									
33	Bhatinda		Ghudda	House of sh Baldarshan singh s/o Harbant singh mob no 9463322365	TW	30.13	74.789									
34	Bhatinda		Balluana	Sample Collected From Gurudwara, Balluana	TW	30.224	74.784									
35	Bhatinda		Raike Kalan	Sample Collected from same dugwell	DW	30.13	74.668									
36	Bhatinda		Phullo Mithi	Sample Collected from tubewell just adjacent to NHS	TW	30.098	74.845									
37	Bhatinda		Jhanduke	Sample Taken From Mahant Rana ji da Dhaba	TW	30.16	75.15									
38	Bhatinda		Ablu	Handpump near water workers & near by Ablu DW	HP	30.34	74.79									
39	Bhatinda		Ganga	Private TW Of Chmkor Singh S/o Tota Singh	TW	30.36	74.835									
40	Bhatinda		Gulabgarh	Agriculture Tubewell just adjacent to Piezometer, Karnail Singh	TW	30.15	75.001									
41	Muktsar		Lambi	Handpump near CGWB PZ	HP	30.058	74.614									
42	Muktsar		Sheranwali	Handpump of the house sh Jaspal singh s/o Sardar Matyar singh mob no 9463092247	HP	30.032	74.464									
43	Muktsar		Balochkhera	Handpump near DW	HP	30.368	74.522									
44	Muktsar		Kabarwala	Sample Collected from Gurudwara TW attached with DW	TW	30.193	74.41									
45	Muktsar		Bhalaiana	Sample Collected from house of Dev singh s/o Mangat singh	TW	30.33	74.714									
46	Muktsar		Doda	Sample Collected from Doda & Muktsar Doda Bathinda Road	HP	30.389	74.633									
47	Muktsar		Khandehalal	Sample Collected from Sarkari High School	HP	30.364	74.403									
48	Muktsar		Muktsar	Handpump Near gali no 6 entry of Darbar singh Gurudwara	HP	30.458	74.517									
49	Muktsar		Labanianwal	Sample taken from Tubewell located inside Gurudwara	HP	30.586	74.546									


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											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd,Zn,Pb,Mn,Cr,Ni,U)
			i													
50	Muktsar		Dohak	Sample Collected by nearby aanaj Mandi	HP	30.631	74.6									
51	Fazilka		Sohangarh	Sample Collected from DugWell through Bucket	DW	30.6	74.389									
52	Fazilka		Kundal	Handpump near Kundal DW NE of Village	HP	30.22	74.269									
53	Fazilka		Abohar	Johri Mandir handpump	HP	30.15	74.192									
54	Fazilka		Bannawali	Sample Collected from nearby handpump adjacent to piezometer	HP	30.38	74.298									
55	Fazilka		Khuyansarwar	Sample Collected from Tehsil Office Handpump	HP	30.11	74.078									
56	Fazilka		Sitogano	Sample Collected From Shop Balana Cycle Workes	TW	30.04	74.346									
57	Fazilka		Bazipur Bhoma	House of Ekpal singh Bazidpur Bhoma mob No 9478558505	TW	29.96	74.383									
58	Fazilka		Nihal Khera	Sample Collected from Handpump near DW	HP	30.24	74.138									
59	Fazilka		Kauranwali	sample collected from agricultural tubewell located near to NHS Point	TW	30.383	74.056									
60	Fazilka		Dhaban Kokaryan	Agriculture Tubewell in front of NHS Station	TW	30.122	74.327									
61	Fazilka		Theh Kalandar	Sarkari High School Behak Bodla near toll Plaza	HP	30.471	74.093									
62	Fazilka		Deepulana	Near bus stand chowk dipuwala Sarpanch Resham singh s/o Kehar singh	TW	30.45	74.099									
63	Fazilka		Swahwala	House of Ramchand s/o Diwan Chand near Chakki mob no 8699991427	TW	30.63	74.31									
64	Fazilka		Mottiwala	House no 41 House of Ramkrishna s/o Fateh Chand mob no 9855644340	TW	30.71	74.36									
65	Fazilka		Noore ke Uttar	House of Surinder singh s/o Gurbachan singh mob no 9914095822	TW	30.68	74.283									
66	Firozpur		Ladhewala	Handpump side by the Dugwell	HP	30.53	74.386									
67	Firozpur		Moharewala	House of kakkar singh s/o mangal Singh mob no 8722822861	TW	30.86	74.578									
68	Firozpur		Malsian	Handpump, Near Peer Baba Samadhi	HP	30.82	74.381									

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											Temp	EC	pH		Basic analysis	Heavy Metals
											°C				(15 parameters)	(Cu,Cd,Zn,Pb,Mn,Cr,Ni,U)
69	Firozpur		Sham Singhwala	Handpump Feroepur Guruharsahai Road near Agro Computerised Lab	HP	30.81	74.483									
70	Firozpur		Lauke Kalan	House of Sarpanch sh Chamkour Singh mob no 8872965209	TW	31.06	74.846									
71	Firozpur		Jhokharihar	sample collected from agricultural tubewell located just adjacent to water works	TW	30.862	74.611									
72	Firozpur		Piyarana	PVT Tubwell adjacent to piyarana NHS Dugwell	TW	30.86	74.667									
73	Firozpur		Jaimal Singh Wala	House of Sh Parwinder singh Sarpanch	TW	30.06	74.342									
74	Firozpur		Gattah Badsha	Gurudwara Sahib Gattah Badsha	TW	31.122	74.901									
75	Faridkot		Mumaru	Sample collected from house of Jaswinder singh	TW	30.79	74.59									
76	Faridkot		Killi	Handpump (red coloured) inside Gurudwara	TW	30.79	74.546									
77	Faridkot		Deepsingwala	Handpump of Bus Stand near Punjab & Sind Bank & ATM	HP	30.74	74.479									
78	Faridkot		Jand Sahib	Sample Taken from Inside Jand Sahib Gurudwara	TW	30.69	74.527									
79	Faridkot		Sadiq	Near to bus stand, Liquour Shop adjacent hand pump	HP	30.71	74.656									
80	Faridkot		Mehmunna Sadiq	Handpump, near shop sonu Haire Dresser, near mehumuana board & bus stop	HP	30.71	74.59									
81	Faridkot		Sher Singhwala	Just located in front of Peizometer	HP	30.67	74.623									
82	Faridkot		NawanKilia	Sample collected from Samsan Ghat Hand Pump	HP	30.65	74.695									
83	Faridkot		Tehna	Radha Swami Satsang Beas, Tehna	TW	30.69	74.791									
84	Faridkot		Chand Baja	House of Karan Singh in front of Dug Well Dugwell	TW	30.74	74.862									
85	Faridkot		Beed Sikhanwala	Handpump side by road y-junction of kotkapura	HP	30.61	74.866									
86	Faridkot		Nagal	Arjitsingh housse located in front of peizometer	TW	30.67	74.859									
87	Faridkot		Daviwala	Handpump Side by Samadhi Baba Shahid ji, Dhan Dhan Baba Sabha singh ji	HP	30.61	74.871									
88	Faridkot		Dhilwan Kalan	Gurudwara Sahib Dhilwan kalan	TW	30.57	74.867									


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											Temp	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd,Zn,Pb,Mn,Cr,Ni,U)
											°C					
89	Faridkot		Baja Khana	DW, Bajakhana	DW	30.455	74.977									
90	Faridkot		Matta	Sample Collected from Motor Pump atta ched with DW	TW	30.48	74.838									
91	Faridkot		Kot Kapura	Handpur Near Crossing of Daru Mal Dharamshala	HP	30.58	74.833									
92	Faridkot		Wara Daraka	Sample Collected From TW Opposite Walia Works	TW	30.55	74.754									
93	Faridkot		Karir Wali	House of Ekpal singh s/o Niranjan singh mob no 9855508061	TW	30.41	74.828									
94	Faridkot		Dal Singhwala	Sample Collected From Gurudwara	TW	30.466	74.932									


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केन्द्रीय भूमिजल बोर्ड,
उत्तर पश्चिमी क्षेत्र

चंडीगढ़

ANALYTICAL REQUEST FORM

CGWB/NWR /7.1 F - 01

Sender :
Letter No.: nil
Date :

Quantity: 1L

State: PUNJAB
Study: Hydrograph Network

S.No.	District	Block	Location	Physical Location Detail	Source	Latitude (DMS)	Longitude (DMS)	Aquifer I/II/III Or Depth (mamsl)	Depth (mtrs)	Samplng Date	Field Parameters			RL (ma msl)	Remarks	
											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd,Zn,Pb, Mn,Cr,Ni,U)
1	Nawanshahar		Balachor	Near Khawaja Pir, Panj Piri, Opp Jaswinder signh furniture	HP	31.862	75.847									
2	Nawanshahar		Mauhar	HP Owner name Balwinder singh S/o Baldev Singh	HP	31.103	76.316									
3	Nawanshahar		Mehandpur	(Kiryana Shop Owner P Owner name balwinde	TW	31.708	75.567									
4	Nawanshahar		Rahon	HP Owner name: Bhupinder Singh S/o Pyara singh, Opp. Tailoring shop of Sh. Daljit	DW	31.057	76.136									
5	Nawanshahar		Behloor Kalan	HP fitted with the same NHS DW	HP	31.018	76.156									
6	Nawanshahar		Raipur Daba	HP near to NHS PZ	TW	31.134	76.003									
7	Hoshiarpur		Garhshankar	TW of village Water Works	TW	31.25	76.05									
8	Hoshiarpur		Mahilpur	TW inside the PWD Rest House	TW	31.358	76.042									
9	Hoshiarpur		Thakarwala	TW Shankar Service Centre	HP	31.369	75.917									

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											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd,Zn,Pb, Mn,Cr,Ni,U)	
10	Hoshiarpur		Phuglana	HP outside Smashan Ghat, on Mahalpur Road	HP	31.384	75.834										
11	Hoshiarpur		Chohal	HP Opp. Primary Health Centre and Oriental Bank of Commerce, near Abhishek Sweet Shop, Phagwara-Hoshiarpur Road	TW	31.611	75.972										
12	Hoshiarpur		Nari	TW Water works No.1	TW	31.641	75.998										
13	Hoshiarpur		Bhamnaur	TW Water Works Nari. On Dharamshala road	TW	31.831	75.965										
14	Hoshiarpur		Talwara	TW water works. Near NHS Dug well	TW	31.942	75.9										
15	Hoshiarpur		Jhir Di Khui	TW Radha Soami Satsang On talwara Gagret road	HP	31.963	75.813										
16	Hoshiarpur		Hajipur	HP (near same location of DW) located in Hospital near to tri junction opp. Pipple tree & backside of bus stand on mukeriya-Hazipur road.	TW	31.975	75.758										
17	Hoshiarpur		Sibochak	TW in the premises of N.B. Tiles, on Hajipur-Mukeriya before water works.	HP	31.987	75.736										
18	Hoshiarpur		Pankhuh	HP fitted with NHS DW	HP	32.021	75.688										
19	Hoshiarpur		Chak Sheru	HP on T-Point LHS from Hajipur after Sibochak, in front of SK Cement Store.	TW	32.051	75.624										
20	Hoshiarpur		Bhangala	HP in house adjacent to Chaman Mistri, link road, Opp. SDA Church	HP	32.025	75.609										
21	Hoshiarpur		Samraj Tanda	HP fitted on NHS DW.	HP	31.915	75.589										
22	Hoshiarpur		Dagan	HP in the field of Namdhari Joginder Singh, backside of Power House	TW	31.951	75.715										
23	Hoshiarpur		Nangal Bhaiala	TW village water works.	DW	31.908	75.708										
24	Hoshiarpur		Dulmiwal	Sample from NHS Dug well	HP	31.832	75.751										

S.N o.	District	Block	Location	Physical Location Detail	Source	Latitude (DMS)	Longitude (DMS)	Aquifer I/II/III Or Depth (mamsl)	Depth (mtrs)	Sam- plin- g Dat- e	Field Parameters			RL (ma- msl)	Remarks	
											Tem- p °C	EC	P H		Basic analysis (15 parame- ters)	Heavy Metals (Cu,Cd,Zn,Pb, Mn,Cr,Ni,U)
25	Hoshiarpur		Dasuya	HP in the premises of Primary School	TW	31.8	75.667									
26	Hoshiarpur		Gahdiwala	TW in the civil rest house, near gurudwara	HP	31.75	75.742									
27	Hoshiarpur		Sham Chaurassi	HP in front Sunny Arts and Wood cutting (aara lakdi store), Bhullar Hardware, LHS on main Hoshiarpur road, near Mango tree.	HP	31.501	75.749									
28	Hoshiarpur		Rampur Camp Colony	HP near Dashmesh Day Boarding School, near Police barrier.	TW	31.503	75.947									
29	Hoshiarpur		Simbli	TW in Baal Sudhar Gruh (Chindren Jail) Compound of Social welfare Deppt.	TW	31.143	76.178									
30	Hoshiarpur		Mekeriya	HP in front of Singh Shuttering Store, Opp. Bus stop near Mobile Tower.	HP	31.942	75.617									
31	Hoshiarpur		Haler Rampur	HP in Prachin Shitala mata mandir on Jalandhar-Pathankor Road	TW	31.863	75.789									
32	Hoshiarpur		Adowal Garhi	HP in Prachin Shitala mata mandir on Jalandhar-Pathankor Road	TW	31.963	75.619									
33	Ropar		Hardo Namoh	TW Owner Sh. Jagdev Singh, H.No. 28, near NHS DW	DW	31.15	76.575									
34	Hoshiarpur		Bassi Ballo	From NHS DW	TW	31.655	75.869									
35	Hoshiarpur		Jandaur	From TW In Tower Works	TW	31.848	75.634									
36	Ropar		Dumewal	From TW Water works	HP	31.208	76.417									
37	Ropar		Bhalan	HP owner Sh. Dikkhar Singh S/o Sant Ram, 20-30 from NHS DW in Same street.	TW	31.275	76.375									
38	Ropar		Brahampur	HP Adjacent to NHS DW	DW	31.331	76.4									
39	Ropar		Dher	HP fitted with NHS DW	TW	31.271	76.446									


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											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd,Zn,Pb, Mn,Cr,Ni,U)
40	Ropar		Chak Dehra	TW Atwal Service (Washing) Centre	HP	31.042	76.533									
41	Ropar		Ahemadpur	HP back side of Gurdwara near NHS DW (Same location)	TW	31	76.575									
42	Ropar		Bara Chauta	HP owner Sh. Harbhajan Singh, house on Ropar Highway, before Paramjit kiryana store and after Indian Oil Petrol Pump.	HP	30.928	76.463									
43	Ropar		Rurkee Heeran	HP owner Sh. Buta Singh, near NHS DW	TW	30.85	76.428									
44	Ropar		Kakrali	TW, Sh. Dalwir Singh, Aata Chakki	TW	30.834	76.524									
45	Ropar		Chitamli	TW in the house in front of village Dharamshala.	TW	30.812	76.538									
46	SAS Nagar		Landran	TW in the Dairy Development training centre on Kurali-Morinda road	HP	30.694	76.661									
47	SAS Nagar		Goga	HP in premises of primary health centre (same location as NHS Pz)	DW	30.708	76.554									
48	SAS Nagar		Hulka	HP fitted with NHS DW	TW	30.56	76.66									
49	SAS Nagar		Dheri	HP in the babe ka Dera (Samadhi sthal) outside of village, North of Phirni, on Khanpur Road	TW	30.625	76.696									
50	SAS Nagar		Sawara	HP in the premises of Vishkarma deep tubewell works, opp to the NHS DW	HP	30.684	76.641									
51	SAS Nagar		Issapur	HP owner sh pawan kumar, opp Shive mandir pipple tree near NHS DW	DW	30.592	76.846									
52	SAS Nagar		Dera Bassi	DW Infront of Gurudwara, Opp house of sh swaran singh (chd police)	TW	30.586	76.838									
53	SAS Nagar		Joli	TW in the Gurudwara, same location as NHS PZ	HP	30.55	76.9									

S.N o.	District	Block	Location	Physical Location Detail	Source	Latitude (DMS)	Longitude (DMS)	Aquifer I/II/III Or Depth (mamsl)	Depth (mtrs)	Sam plin g Dat e	Field Parameters				Remarks		
											Tem p °C	EC	P H	RL (ma msl)	Basic analysis	Heavy Metals	
															(15 parame ters)	(Cu,Cd,Zn,Pb, Mn,Cr,Ni,U)	
54	SAS Nagar		Handesra	HP Owner sh chand pradhan opp sr sec school ,beside engineering workshop, near NHS DW	TW	30.417	76.892										
55	SAS Nagar		Sirsini	TW UK Dhaba, on Handesra Ambala road, opp Marriage palace	HP	30.454	76.771										
56	SAS Nagar		Chhat	HP- Nagar Khera	TW	30.614	76.794										
57	SAS Nagar		Banur	TW in house owner sh. Kulwant	HP	30.559	76.7										
58	SAS Nagar		Antala	singh ,opposite street to water	HP	30.383	76.917										
59	SAS Nagar		Gholu Majra	works	TW	30.533	76.824										
60	SAS Nagar		Akalgarh	HP in house sh.dljeet singh,	TW	30.857	76.612										
61	SAS Nagar		Sundran	Bajwa colony, ward no.11behind	TW	30.615	76.893										
62	Fatehgarh Sahib		Chunni Kalan	Kirana store	TW	30.715	76.494										
63	Fatehgarh Sahib		Pawala	HP in the Guga Merhi (peer) near Primary school, at Tri-junction to Handesra Shejadpur	TW	30.634	76.61										
64	Fatehgarh Sahib		Bhangrana	TW of shivan vaishno dhaba Adjacent of Royal Dhaba & Time milk plant, opp sethi dhaba	HP	30.611	76.578										

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											Temp °C	EC	pH	RL (mamsl)	Basic analysis (15 parameters)	Heavy Metals (Cu,Cd,Zn,Pb, Mn,Cr,Ni,U)	
65	Fatehgarh Sahib		Badli Ala Singh	From TW in water works	TW	30.642	76.517										
66	Fatehgarh Sahib		Bhateri	From TW in water works	TW	30.7	76.538										
67	Fatehgarh Sahib		Bassi Pathana	TW Owner Sh. Jagdev Singh, H.No. 28, near NHS DW	HP	30.713	76.378										
68	Fatehgarh Sahib		Fatehgarh Sahib	HP in the premises of Dharamshala near NHS DW, Opp. Sharma Kirana Store.	HP	30.65	76.4										
69	Fatehgarh Sahib		Innayatpur	HP in the premises of Babe da Dera, near pippel tree about 150 mtr from NHS DW	HP	30.648	76.39										
70	Fatehgarh Sahib		Nalini	HP on Chandigarh-Chunni-Sirhind road, Hansali road board, near transformer and police station.	TW	30.5	76.425										
71	Fatehgarh Sahib		Bhaddal Thuha	TW in the premises of Gurudwara on Chunni-Morinda road.	HP	30.591	76.233										
72	Fatehgarh Sahib		Amloh	HP near Radha Soami Satsang on main road.	TW	30.605	76.263										

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S.N o.	District	Block	Location	Physical Location Detail	Source	Latitude (DMS)	Longitude (DMS)	Aquifer I/II/III Or Depth (mamsl)	Depth (mtrs)	Sam plin g Dat e	Field Parameters			RL (ma msl)	Remarks		
											Tem p °C	EC	p H		Basic analysis (15 parame ters)	Heavy Metals (Cu,Cd,Zn,Pb, Mn,Cr,Ni,U)	
73	Fatehgarh Sahib		Narain	TW Owner Sh. Karam Singh, village-Mandofal on Saddo Majra and Inayatpur road, Sirhind bypass	TW	30.625	76.592										
74	Chandigarh		Sector 46	HP opp. Primary School, Infront of Aatta Chakki	TW	30.703	76.769										
75	Chandigarh		IMD Sector 39	HP Owner Lal Singh, infront of Guga medi (Dera and Banyan Tree)	TW	30.74	76.731										
76	Chandigarh		Sector-39D	HP in Play ground, near NHS Pz same location	HP	30.743	76.728										
77	Chandigarh		Maloya	TW of Lok Sewal filling Station (Indian Oil Petrol Pump) on Khanna Road)	TW	30.754	76.719										
78	Chandigarh		Sector-10C	TW in house owner lahvir singh Opposite to NHS DW	TW	30.755	76.794										
79	Chandigarh		Sector-31D	TW in the Boosting Station, Same location as NHS Pz	TW	30.705	76.78										
80	Chandigarh		New Industrial Area (Karsan Camp)	TW inside Water Works Ram Darbar Phase I, Behind Govt. High School	TW	30.69	76.889										
81	Chandigarh		Burail	Sample taken from same dug well	DW	30.71	76.76										


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Sender :
Letter No.: nil
Date :

क्षेत्रीय रासायनिक प्रयोगशाला
केन्द्रीय भूमिजल बोर्ड,
उत्तर पश्चिमी क्षेत्र

चंडीगढ़

ANALYTICAL REQUEST FORM

CGWB/NWR /7.1 F - 01

State: PUNJAB

Quantity: 1L

Study: Hydrograph Network

S.No.	District	Block	Location	Physical Location Detail	Source	Latitude (DMS)	Longitude (DMS)	Aquifer I/II/III Or Depth (mamsl)	Depth (mtrs)	Sampling Date	Field Parameters				Remarks		
											Temp °C	EC	pH	RL (mamsl)	Basic analysis (15 parameters)	Heavy Metals (Cu, Cd, Zn, Pb, Mn, Cr, Ni, U)	
1	Patiala		Thuha	In House of Malkeet Singh Near pani ki tanki close to Udham singh Dharamhala	TW	30.5	76.554										
2	Patiala		Basma Pepla	In House of Rajwinder singh S/o Jaspal Singh in front of kirane store	HP	30.46	76.728										
3	Patiala		Kami Kalan	In front of pz at kami Bhatla	HP	30.378	76.679										
4	Patiala		Lacharu	In front of House of Nakshatra singh s/o puran signh, 100 m from DW	HP	30.345	76.642										
5	Patiala		Hari Majra	Near HW work on the road adjacent to atta chakki & bhagla fertizer	HP	30.319	76.607										
6	Patiala		Devi Garh	In House of Harmesh singh s/o Nakshatra singh in side aara machine 150 from pz	TW	30.185	76.513										
7	Patiala		Miranpur	In House of Darbara singh s/o Hardayal singh Near pani ki tanki	TW	30.208	76.494										
8	Patiala		Lachkani	Same location as pz inside co-operative society	TW	30.408	76.338										
9	Patiala		Allowal	Inside Kulwinder Tractor workshop In front of Keshar singh workshop	TW	30.438	76.29										
10	Patiala		Bir Kauli	In front of pz at Indian oil petrol pump gopal kauli oil company	TW	30.414	76.514										

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											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd, Zn,Pb,Mn,Cr,Ni, U)
11	Patiala		Lohakheri	In the Premises & Gurudwara in front of pz	TW	30.409	76.586									
12	Patiala		Chhat	Opp water work tank Chhat model school	HP	30.614	76.796									
13	Patiala		Naraina	Owner sh Jaswant singh In Harijan Basti Near NHS DW	TW	30.612	76.579									
14	Patiala		Chahal	House of Sukhdeep singh s/o Balwinder singh House adjacent to water tank	TW	30.546	76.238									
15	Patiala		Rajgarh	Inside Co-operative Soceity Adjoing Seva Kendra 50 m from pz	TW	30.416	76.732									
16	Patiala		Dulladi	In the premises of Gurudwara Nanak Prakash Just Behind pz	TW	30.383	76.138									
17	Patiala		Ramgarh	House of Jaktar singh s/o Sajju singh house in front & pz	TW	30.555	76.715									
18	Patiala		Kalyan	Same Location as Pz	TW	30.353	76.308									
19	Patiala		Kangthala	Tubewell in field & Amreek singh s/o Ajeet singh 110 m & pz	TW	29.841	76.133									
20	Patiala		Mardan Heri	200m from pz in side Gurudwara	TW	30.056	76.205									
21	Patiala		Patran	Same Locatrimon as pz	TW	29.95	76.056									
22	Patiala		Samana	House of Gurucharan singh s/o Balwinder singh. 400 m	TW	30.146	76.19									
23	Patiala		Behmana	In side Gurudwara Tantugee Sahib (Sahid Singh)	TW	30.178	76.134									
24	Patiala		Dakarba	House of Amreek singh s/o Narendra singh, house adjacent & Rest House	TW	30.255	76.278									
25	Patiala		Rajpura	Same location within Premises	SB	30.474	70.594									
26	Patiala		Bhojo Majri	Inside the campus of Gurdwara Gursar Sahib (Front of the school)	SB	30.41	76.177									
27	Patiala		Sangatpura	Same location within Premises	SB	30.342	76.225									
28	Patiala		Balbehra	Inside the Gupta Filling Station(Indian Oil)	SB											

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											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd, Zn,Pb,Mn,Cr,Ni, U)
29	Ludhiana		Otalan	Near Make India Technical Training Testing Centre 100 m From DW	HP	30.819	76.197									
30	Ludhiana		Samrala	Inside Office of Kheri badi officer in side Paudh Parkash Prayogshala same premises as pz	TW	30.883	76.2									
31	Ludhiana		Muskabad	In front of DW inside house of amarjeet singh s/o teja singh	HP	30.866	76.231									
32	Ludhiana		Behlolpur	In front of Ganga Meri Valmiki Dharamshala near the house Nath singh s/o singh Bhagat	HP	30.904	76.289									
33	Ludhiana		Manewal	In same premises as pz in front of house Deep Ram	HP	30.938	76.162									
34	Ludhiana		Punjeta	On Panjeta Bus Stand on Machiwara Khuda ect	HP	30.873	76.088									
35	Ludhiana		Mangat	From House of Gurmeet singh s/o Sher singh in front & pz	TW	30.981	75.913									
36	Ludhiana		Lallian Kalan	In front of Dugwell Same Location	HP	30.938	76.624									
37	Ludhiana		Begowal	In side Gurudwara same Location as pz	HP	30.817	76.056									
38	Ludhiana		Doraha	Inside Rest House Same Location as pz	HP	30.8	76.021									
39	Ludhiana		Ikloha	In front of pz in house of pyara singh s/o Jagvir singh Exadty in front & veteniary	TW	30.702	76.219									
40	Ludhiana		Maksudra	House of Sohan singh s/o Jagvir singh in front of Govt Sr Sec School	HP	30.73	76.01									
41	Ludhiana		Gopalpur	At local point Gopalpura Govt Handpump 150m from pz	HP	30.738	75.842									
42	Ludhiana		Lil	House of Balbeer singh s/o Gehrail singh in front of water works	TW	30.726	75.7									
43	Ludhiana		Halwara	On Badi Anaj Mandi, 500m From pz	HP	30.725	75.638									
44	Ludhiana		Chattar Singh	From Indian oil petrol pump (sarwan	TW	30.9	75.792									

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											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd, Zn,Pb,Mn,Cr,Ni, U)
			Park	service station) opp preet palace)												
45	Ludhiana		Sidhwan Bet	From K.S Dhaba c/o Harminder singh in front of BDO Office pz	TW	30.923	75.44									
46	Ludhiana		Jagraon	Near Bus Stand on Tampu stand Jagraon to Sidhwanbet road left side Handpump inside military ground	HP	30.775	75.471									
47	Ludhiana		Rasulpur	In house of Jarnail singh s/o Bishan singh in front of pz	TW	30.699	75.394									
48	Ludhiana		PAU Ludhiana	Inside the campus near Food Industry Business Incubation Centre	TB	30.904	75.807									
49	Ludhiana		Sherian	Inside the campus of Gurdwara Singh Sabha Sherian	SB	30.939	76.242									
50	Sangrur		Baurhi Khurd	In House of Nirbhay singh s/o khabir singh near to school	TW	30.626	75.84									
51	Sangrur		Maler Kotla	Sample Collected from same DW	DW	30.525	75.9									
52	Sangrur		Bagarian	House of Jasbeer singh s/o Gajtar singh Near sohe karyana store in front of pz premises	TW	30.459	76.021									
53	Sangrur		Bhujawal	House of Jeet singh s/o Charan singh near Dera Sahib Gurudwara 200m from pz on Dhuri balwa road	TW	30.338	75.925									
54	Sangrur		Behra	Same Location as pz 10m from pz	TW	30.334	75.849									
55	Sangrur		Ghanauri Kalan	In House of Bant singh Chajju singh s/o Bahadur singh in front of lone of pz	HP	30.41	75.77									
56	Sangrur		Bugra	From Gurudwara Baba labh singh on dhuli Barnala road	TW	30.286	75.761									
57	Sangrur		Lohgawal	Same Location as pz 10m from pz	TW	30.192	75.675									
58	Sangrur		Manjhi	House of Satguru singh s/o Labh singh house adjoin Sr Sec School	TW	30.29	76.098									
59	Sangrur		Badrukhan	Same Location as pz	TW	30.251	75.797									

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											Temp °C	EC	pH		Basic analysis (15 parameters)	Heavy Metals (Cu,Cd, Zn,Pb,Mn, Cr, Ni, U)
60	Sangrur		Sunam	inside the BDO Office	SP	30.136	75.8114									
61	Sangrur		Chural Kalan	Same as pz	TW	29.819	75.8									
62	Sangrur		Bhulan	House of Balkrishan s/o Jile singh Near peer Baba 150m from DW	TW	29.763	76.01									
63	Sangrur		Manvi	In front of the Senior Secondary School	HP	30.538	76.022									
64	Sangrur		Ladda	Inside house of Kulwinder Singh S/o Harmel Singh, in front of the school	SB	30.314	75.821									
65	Moga		Chougawan	On Dana Mandi Chogawan	HP	30.836	75.269									
66	Moga		Bajeke	Inside Gurudwara singh Sabh Baside pz wall	TW	31	75.151									
67	Moga		Dagru	Inside Kama! Fatti Gurudwara Beside pz wall	TW	30.824	75.026									
68	Moga		Darapur	One lane ahead of pz in house of Raghuvveer singh s/o Bagh singh	TW	30.84	74.963									
69	Moga		Dameru Khurd			30.692	74.9803									
70	Moga		Budh singh wala	Inside Gurudwara adjoining wall with pz	TW	30.618	75.077									
71	Moga		Jai singh wala	In house of Shinder singh s/o Diwan singh adjacent to pz	TW	30.728	75.072									
72	Moga		Nihal Singh Wala	10m from pz same location	TW											
73	Barnala		Bahadaur	20m from pz same location	TW	30.475	75.324									
74	Barnala		Barnala	20m in from pz same location	TW	30.363	75.525									
75	Barnala		Mahal kalan	Same location within Premises	TW	30.523	75.559									
76	SAS Nagar		Banaur	Aman Service Station near Radha Swami Satsang Campus & baby convent school om Kharar Ambala road	TW	30.493	76.586									

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Annexure R-5

List of 260 locations where drinking water parameters found within the permissible limit

Data provided by CGWB								Data filled by DWSS				Scheme Source	Sample Receipt Date	Sample Registration	Aluminium	Lead	Selenium	Chromium	Arsenic	Cadmium	Nickel	Iron	Mercury	Copper	uranium	Fluoride	Chloride	Nitrate	Sulphate	PH Basic Chemical Relaxation -	Colour Basic Chemical Relaxation -	Taste Basic Chemical Relaxation -	Turbidity	Basic Chemical TDS Basic Chemical Relaxation -	Alkalinity Basic Chemical Relaxation -	Hardness Basic Chemical Relaxation -	Calcium Basic Chemical Relaxation -	Magnesium Basic Chemical Relaxation -	
Sr. no.	Sr no as per google sheet	Name of district	Name of location of CWGB	Name of Phical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of Circle as per DWSS	Name of division as per DWSS	Name of block as per DWSS	Name of Scheme/Habitati on as per DWSS				16	17	18	19	20	21	22	23	24	25	26	27	1.0mg/l - 1.5 mg/l	250 mg/l - 1000 mg/l	45 mg/l - No Relaxation	200 mg/l - 400 mg/l	Limit 6.5-8.5-No Relaxation -	Limit 5-15 CU	Limit 1-5 NTU	Limit 500-2000 mg/l	200-600 mg/l	200-600 mg/l	75-200 mg/l	30-100 mg/l	
1	1	Jalandhar	Turan	From PHED Tubwell of waterworks premises in Turan site	75.901	31.12	TW	JALANDHAR	Jalandhar, Div 1	Phillaur	Turan	Tubewell	31.03.2024	RWTLASR/REG2425/0093/	BDL	0.001	BDL	BDL	0.001	BDL	BDL	0.06	BDL	0	26	TWERU/REG 2425/00026	0.50	10	21	12	7.93	1	NT	0.7	308	304	248	44.9	33.04
2	3	Jalandhar	Gohiran	T W Ladhi Singh S/O Gurmali Singh	75.5	31.179	TW	JALANDHAR	Jalandhar Div No-3	Nakoder	Gohir	Tubewell	31.03.2024	RWTLASR/REG2425/0097	BDL	BDL	0.01	BDL	0.001	BDL	BDL	BDL	BDL	0	19	TWERU/REG 2425/00018	0.40	17	2	14	7.2	1	NT	0.1	354	372	324	62.5	40.82
3	4	Jalandhar	Jandiala	Near Jan seva Kendra, Service Station.	75.617	31.158	TW	JALANDHAR	Jalandhar, Div 1	Rurka Kalan	Jandiala	Tubewell	31.03.2024	RWTLASR/REG2425/00099	BDL	BDL	0.01	BDL	0.002	BDL	BDL	0	BDL	0	22	TWERU/REG 2425/00019	0.38	9	BDL	9	7.45	1	NT	0.28	343	340	284	52.9	36.93
4	5	Jalandhar	Sarih	In the Premises of Inspection Bunglow	75.6	31.117	HP	JALANDHAR	Jalandhar No.3	Nakoder	Sarih	Tubewell	31.03.2024	RWTLASR/REG2425/00101	BDL	BDL	BDL	BDL	0.002	BDL	BDL	0.03	BDL	0	7.7	TWERU/REG 2425/00020	0.81	11	1	15	7.37	1	NT	0.26	338	336	280	51.3	36.93
5	7	Jalandhar	Billi Charmi	T W in Premises of water works	75.394	31.112	TW	JALANDHAR	Jalandhar No.3	Shahkot	Billi Charmi	Tubewell	31.03.2024	RWTLASR/REG2425/00104	BDL	BDL	0.01	0.001	0.001	BDL	BDL	BDL	BDL	0	18	TWERU/REG 2425/00127	0.80	18	43	23	7.98	1	NT	0.41	420	428	368	64.1	50.54
6	9	Jalandhar	Malsian	200m. N side from Malsian	75.316	31.125	TW	JALANDHAR	Jalandhar No.3	Shahkot	Malsian	Canal Based/ Surface water	31.03.2024	RWTLASR/REG2425/00108	BDL	BDL	0	BDL	0.001	BDL	BDL	BDL	BDL	BDL	25	TWERU/REG 2425/00129	0.58	9	4	39	8.15	1	NT	0.4	339	344	296	52.9	39.85
7	10	Jalandhar	Talwandi Madho	Sample Collected From TW of Water Works	75.311	31.2	TW	JALANDHAR	Jalandhar No.3	Lohian Khas	Talwandi Madho	Tubewell	31.03.2024	RWTLASR/REG2425/00111	BDL	BDL	BDL	BDL	0.002	BDL	BDL	BDL	BDL	BDL	15	TWERU/REG 2425/00021	0.56	7	BDL	13	8.14	1	NT	0.1	212	232	192	33.7	26.24
8	11	Jalandhar	Lallian Kalan	200m. from PFS in the Field	75.492	31.263	TW	JALANDHAR	Jalandhar, Div 2	Jalandhar West	Lallian Kalan	Tubewell	31.03.2024	RWTLASR/REG2425/00113	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29	TWERU/REG 2425/00145	0.59	59	24	103	7.19	1	NT	0.81	491	492	424	75.4	57.34
9	16	Jalandhar	Jandu Singha	Sample collected from TW near pg	75.646	31.373	TW	JALANDHAR	Jalandhar, Div 2	Adampur	Jandu Singha	Tubewell	31.03.2024	RWTLASR/REG2425/00121	BDL	BDL	0	BDL	0.001	BDL	BDL	BDL	BDL	BDL	6.6	TWERU/REG 2425/00136	0.49	27	2	45	7.84	1	NT	0.75	336	360	292	51.3	39.85
10	17	Jalandhar	Adampur	Near TVS Agency & near pg	75.708	31.422	TW	JALANDHAR	Jalandhar, Div 2	Adampur	Khurdpur	Tubewell	31.03.2024	RWTLASR/REG2425/00124	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	9.4	TWERU/REG 2425/00023	0.27	16	2	20	7.84	1	NT	0.19	229	236	204	38.5	26.24
11	20	Jalandhar	Jalbhe	Opp House of DW Jalbhe	75.786	31.47	TW	JALANDHAR	Jalandhar, Div 2	Adampur	Bahudipur	Tubewell	31.03.2024	RWTLASR/REG2425/00130	BDL	BDL	BDL	BDL	0.001	BDL	BDL	0.04	BDL	BDL	13	TWERU/REG 2425/00025	0.38	13	1	20	7.8	1	NT	0.54	238	240	200	36.9	26.24

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Sr. no.	Sheet no per google sheet	Name of district	Name of location of CWGB	Name of Phiscal location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of Circle as per DWSS	Name of division as per DWSS	Name of block as per DWSS	Name of Scheme/Habitati on as per DWSS	13	14	15	16	17	18	19	20	21	22	23	24																							
25	47	Tarn Taran	Barwala	Oppo Pz near peer Baba Mazar	74.803	31.224	HP	Amritsar	Tarn Taran no. - 2	Patti Barwala	TUBEWELL	16-04-24	RAWTL/REG2425/00403	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	27	RAWTL/REG2425/00403	0.11	28	2.53	57.9	6.87	<5	NT	0.65	469	400	192	29	29						
26	48	Tarn Taran	Kalsian Kalan	In Compound of Gurudwara Sahib	74.7	31.278	TW	Amritsar	Tarn Taran no. 1	Bhikhi Wind	Kalsian Kalan	Tubewell	31.03.2024	RWTASR/REG2425/00143	BDL	BDL	BDL	BDL	0.01	BDL	BDL	0.02	BDL	BDL	BDL	21	TWERU/REG2425/00071	0.17	19	BDL	27	7.28	1	NT	0.2	345	328	296	59.3	35.96						
27	50	Tarn Taran	Gandiwind	Peer Baba Buddha Saab filling station	74.7	31.517	HP	Amritsar	Tarn Taran no. 1	Gandiwind	Gandiwind	Tubewell	31.03.2024	RWTASR/REG2425/00149	BDL	BDL	0	BDL	0.008	BDL	BDL	0.01	BDL	BDL	BDL	18	TWERU/REG2425/00074	0.33	7	BDL	23	8.48	1	NT	0.42	363	332	292	59.3	34.99						
28	51	Tarn Taran	Maarhi Nav Aabad	Sample Taken From Jimmy Aato Fiver Indian Oil	74.666	31.332	TW	Amritsar	Tarn Taran no. 1	Bhikhiwind	Mari Nau Abad	Tubewell	31.03.2024	RWTASR/REG2425/00151	BDL	BDL	BDL	BDL	0.01	BDL	BDL	0	BDL	BDL	BDL	7.1	TWERU/REG2425/00075	0.28	7	BDL	23	8.31	1	NT	0.42	246	224	204	41.7	24.3						
29	52	Tarn Taran	Aminsha Khaira	Eknoor Cement Store Oppo Dana Mandi	74.625	31.396	TW	Amritsar	Tarn Taran no. 1	Bhikhiwind	Aminsha Khaira	Tubewell	31.03.2024	RWTASR/REG2425/00153	BDL	BDL	BDL	BDL	0	BDL	BDL	BDL	BDL	BDL	BDL	11	TWERU/REG2425/00076	0.25	41	BDL	85	8.32	1	NT	0.87	275	260	240	48.1	29.16						
30	53	Tarn Taran	Chabal	Yuv Raj filling station Chabal	74.8	31.481	TW	Amritsar	Tarn Taran no. - 1	Tarn Taran	Jhabal	TUBEWELL	16-04-24	RAWTL/REG2425/00404	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	12	RAWTL/REG2425/00404	0.32	27	1.15	33.3	7.01	<5	NT	0.72	392	340	260	26	48						
31	54	Gurdaspur	Dera Baba Nanak	Sample Collected from Gurudwara Sahib	75.033	32.013	TW	Gurdaspur	Batala No. 2	Dera Baba Nanak	Pakhoke DBN	Tubewell	31.03.2024	RWTASR/REG2425/00167	BDL	BDL	BDL	BDL	0.008	BDL	BDL	0.06	BDL	BDL	BDL	0.5	TWERU/REG2425/00051	0.26	27	2	82	8.27	1	NT	0.1	187	184	172	35.3	20.41						
32	57	Gurdaspur	Kalanaur	In the Premises of Shiv Mandir kalanaur	75.133	32.017	TW	Gurdaspur	EE-1, Gurdaspur	Kalanaur	Kalanaur	Tubewell	31.03.2024	RWTASR/REG2425/00211	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	1.7	TWERU/REG2425/00061	0.56	85	3	121	8.22	1	NT	0.25	204	196	168	36.9	18.46						
33	58	Gurdaspur	Pandori Dham	In the premises of Pandori Dham	75.513	32.053	HP	Gurdaspur	Gurdaspur No.1	Gurdaspur	Talibpur	Tubewell	31.03.2024	RWTASR/REG2425/00182	BDL	BDL	BDL	BDL	0	BDL	BDL	0.07	BDL	BDL	BDL	BDL	TWERU/REG2425/00059	0.41	36	11	72	8.35	1	NT	0.1	133	140	120	24	14.58						
34	59	Gurdaspur	Choranwali	Handpump of Samsanghat	75.148	31.858	HP	Gurdaspur	Batala No. 1	Batala	Burj Arian	Tubewell	31.03.2024	RWTASR/REG2425/00187	BDL	BDL	0.01	BDL	0.001	0	BDL	0.11	BDL	BDL	BDL	8	TWERU/REG2425/00062	0.39	83	4	86	7.42	1	NT	0.6	383	360	320	62.5	44.71						
35	60	Gurdaspur	Bhagowal	Opp Gurudwara Sahib near Bus stop	75.163	31.896	HP	Gurdaspur	Batala No. 1	Batala	Bhagowal	Tubewell	31.03.2024	RWTASR/REG2425/00488	BDL	BDL	BDL	BDL	0.002	BDL	BDL	0.1	BDL	BDL	BDL	2.4	TWERU/REG2425/00064	0.38	64	BDL	112	7.7	1	NT	0.22	192	196	176	35.3	21.38						
36	61	Gurdaspur	Ghaniye Ke Bangar	Near the Pz Raju duet readymade store	75.05	31.867	HP	Gurdaspur	Batala No. 2	Fategah Churnian	Ghanie Ke Bangar	Tubewell	31.03.2024	RWTASR/REG2425/00165	BDL	BDL	BDL	BDL	0.005	BDL	BDL	0.06	BDL	BDL	BDL	1.8	TWERU/REG2425/00050	0.31	28	4	85	7.73	NT	0.3	296	288	260	51.3	32.07							
37	62	Amritsar	Madipur (Fatehgarh Churnian)	Near to Dugwell Madipur	74.958	31.864	TW	Amritsar	Division No.1 A	Majitha	Mahdipur	Tubewell	31.03.2024	RWTASR/REG2425/00372	0	BDL	0	BDL	0	BDL	BDL	0.01	BDL	BDL	BDL	7.7	TWERU/REG2425/00119	0.27	8	BDL	13	7.52	1	NT	0.2	296	296	256	51.3	31.1						
38	63	Gurdaspur	Dokoha	Near Sandhu Medical Store 150m from PZ on main road	75.383	31.658	HP	Gurdaspur	Batala No. 1	Shiri Hargobindpur	Dhokoha	Tubewell	31.03.2024	RWTASR/REG2425/00157	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	11	TWERU/REG2425/00046	0.53	11	1	25	6.9	1	NT	0.56	280	264	236	48.1	28.18						

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Sr. no.	Sr no as per google sheet	Name of district	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of Circle as per DWSS	Name of division as per DWSS	Name of block as per DWSS	Name of Scheme/Habitat on as per DWSS				Aluminum 0.03 mg/l-no relaxation	Lead 0.01mg/l -no relaxation	Selenium 0.01 mg/l-no relaxation	Chromium 0.05 mg/l -no relaxation	Arsenic 0.01 mg/l-no relaxation	Cadmium 0.003 mg/l -no relaxation	Nickel 0.02 mg/l-no relaxation	Iron 1.0 mg/l-no relaxation	Mercury 0.001 mg/l-no relaxation	copper limit 0.05-1.5)	uranium 30µg/l- no relaxation	Fluoride 1.0mg/l - 1.5 mg/l	Chloride 250 mg/l- 1000 mg/l	Nitrate 45 mg/l - No Relaxation	Sulphate 200 mg/l - 400 mg/l	PH Basic Chemical Relaxation - Limit 6.5-8.5- No Relaxation - Limit 5-15 CU	Colour Basic Chemical Turbidity Chemical Limit 1-5 NTU	TDS Basic Chemical Limit 500-2000 mg/l	Alkalinity Basic Chemical 200-800 mg/l	Hardness Basic Chemical 200-600 mg/l	Calcium Basic Chemical 75-200 mg/l	Magnesium Basic Chemical 30-100 mg/l			
39	64	Gurdaspur	Ghoman	House of Sh Ranjeet Singh near PZ	75.386	31.691	TW	Gurdaspur	Batala No. 1	Shri Hargobindpur	Ghoman	Tubewell	31.03.2024	RWTLAS R/REG24 25/00159	BDL	BDL	BDL	BDL	0.001	BDL	BDL	0.05	BDL	0	8.8	TWERU/REG 2425/00047	0.58	9	BDL	28	8.3	1	NT	0.21	258	244	212	41.7	26.24
40	66	Gurdaspur	Aulakh Kalan	100 m from Dugwell from house of Harinder Singh	75.506	31.796	TW	Gurdaspur	Batala No. 1	Qadian	Aulakh Kalan	Tubewell	31.03.2024	RWTLAS R/REG24 25/00161	BDL	BDL	BDL	BDL	0	BDL	BDL	0.19	BDL	BDL	7.2	TWERU/REG 2425/00048	0.57	12	BDL	22	7.64	1	NT	0.68	278	260	236	28.2	29.99
41	67	Gurdaspur	Harchowal	In the compound of Canal rest house	75.45	31.792	HP	Gurdaspur	Batala No. 1	Qadian	Harchowal	Tubewell	31.03.2024	RWTLAS R/REG24 25/00183	BDL	BDL	BDL	BDL	0.007	BDL	BDL	0.06	BDL	BDL	8.3	TWERU/REG 2425/00049	0.56	10	BDL	21	7.49	1	NT	0.65	247	240	208	41.7	25.27
42	68	Gurdaspur	Sathiali Nanekot	150 m from Pz Samsan Ghat on road	75.433	31.9	HP	Gurdaspur	Gurdaspur no 2	Kahnunan	Sathiali	Tubewell	31.03.2024	RWTLAS R/REG24 25/00178	BDL	BDL	0	BDL	0.01	BDL	BDL	0.01	BDL	BDL	3	TWERU/REG 2425/00057	0.42	45	2	86	7.94	1	NT	0.8	154	160	140	27.3	17.49
43	69	Gurdaspur	Pandori Dham	In the premises of Pandori Dham	75.513	32.053	HP	Gurdaspur	Gurdaspur No.1	Gurdaspur	Talibpur	Tubewell	31.03.2024	RWTLAS R/REG24 25/00182	BDL	BDL	BDL	BDL	0	BDL	BDL	0.07	BDL	BDL	BDL	TWERU/REG 2425/00059	0.41	36	11	72	8.35	1	NT	0.1	133	140	120	24	14.58
44	70	Gurdaspur	Gahlri	Near Gurudwara Sahib & 100 m from DW	75.474	31.837	HP	Gurdaspur	Gurdaspur no.2	Dorangla	Gahlri	Tubewell	31.03.2024	RWTLAS R/REG24 25/00174	BDL	BDL	BDL	BDL	0.01	BDL	BDL	0.08	BDL	0	0	TWERU/REG 2425/00055	0.37	19	BDL	31	7.96	2	NT	1.85	199	192	168	33.7	20.41
45	72	Gurdaspur	Ganja (Ganji)	Sample taken from HP of SS Traders of opp Punjab Flexing Board Office	75.353	32.114	TW	Gurdaspur	Gurdaspur no.2	Dorangla	Ganji	Tubewell	31.03.2024	RWTLAS R/REG24 25/00172	BDL	BDL	BDL	BDL	0.004	BDL	0	0.12	BDL	BDL	0.1	TWERU/REG 2425/00054	0.35	16	BDL	33	7.94	1	NT	0.1	233	232	200	41.7	23.32
46	73	Gurdaspur	Saidowal	In the compound of Shiv Mandir	75.519	31.98	HP	Gurdaspur	Gurdaspur no.2	Kahnunan	Saidowal	TUBEWELL	18-04-24	RAWTL/REG2425/00409	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2 425/00409	0.18	1.4	1.03	4.43	7.65	<5	NT	0.94	286	240	220	58	18
47	74	Gurdaspur	Bham	2 Km from Dugwell Gurdaspur Hargobindpur road in the Field	75.458	31.717	TW	Gurdaspur			Bham	Tubewell	01.04.2024	RWTLAS R/REG24 25/00170	BDL	BDL	0	BDL	0.01	BDL	0	0.06	BDL	BDL	6.8	TWERU/REG 2425/00053	0.36	16	BDL	32	7.95	1	NT	0.25	273	280	244	51.3	28.18
48	75	Pathankot	Banyal	From Peer Baba Majar Opp Mata Mandir	75.458	32.288	HP	Gurdaspur	Pathankot No.2	Bamial	Bamial	Tubewell	31.03.2024	RWTLAS R/REG24 25/00281	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9	RAWTL/REG2 425/00321	BDL	1.9	BDL	7.31	8.3	1	NT	0.15	223	240	204	41.7	24.3
49	76	Pathankot	Jhakho Lahri	50 m from DW near Sharma Tea Stall	75.533	32.217	HP	Gurdaspur	Pathankot No.1	Gharola	Dhaloria	Tubewell	31.03.2024	RWTLAS R/REG24 25/00270	BDL	BDL	BDL	BDL	0.001	BDL	BDL	0.01	BDL	BDL	1.1	TWERU/REG 2425/00090	0.35	5	15	22	7.77	1	NT	0.35	210	196	168	35.3	19.44
50	77	Pathankot	Bhoa	From Dugwell NHS Point	75.522	32.25	DW	Gurdaspur	Pathankot No.1	Pathankot	Bhoa	Tubewell	31.03.2024	RWTLAS R/REG24 25/00268	BDL	BDL	0	BDL	0.001	BDL	BDL	BDL	BDL	BDL	6.6	TWERU/REG 2425/00088	0.30	8	20	24	7.8	1	NT	0.24	197	188	164	33.7	19.44

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Sr. no.	Sr no as per google sheet	Name of district	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of Circle as per DWSS	Name of division as per DWSS	Name of block as per DWSS	Name of Scheme/Habitati on as per DWSS																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
51	78	Pathankot	Dhalorian	From Ramesh Kumar House near to DW	75.543	32.209	HP	Gurdaspur	Pathankot No.1	Gharota	Dhalorian	Tubewell	31.03.2024	RWTLAS R/REG24 25/00272	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	0.6	TWERU/REG 2425/00090	0.35	5	15	22	7.76	1	NT	0.62	217	196	172	35.3	20.41	
52	79	Pathankot	Gharota Kalan	Sample from Hamara Pump Gharota Kalan	75.572	32.15	HP	Gurdaspur	Pathankot No.1	Gharota	gharota kalan	Tubewell	31.03.2024	RWTLAS R/REG24 25/00276	BDL	BDL	BDL	BDL	BDL	BDL	0.01	BDL	BDL	0.3	TWERU/REG 2425/00092	0.31	7	6	20	7.52	1	NT	0.28	210	200	176	35.3	21.38		
53	82	Pathankot	Nawanpind	Near Railway Phatak 50m in From Dugwell	75.583	32.342	HP	Gurdaspur	Pathankot No.2	sujanpur	Nawan Pind	Tubewell	31.03.2024	RWTLAS R/REG24 25/00284	BDL	BDL	0	BDL	BDL	BDL	BDL	0.03	BDL	BDL	2	TWERU/REG 2425/00240	0.19	6	2	32	7.8	1	NT	0.1	178	160	140	27.3	17.49	
54	83	Pathankot	Ghoh	In the premises of Shiv Mandir, Ghoh	75.663	32.329	DW	Gurdaspur	Pathankot No.2	Sujanpur	Gho	Tubewell	31.03.2024	RWTLAS R/REG24 25/00285	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.8	TWERU/REG 2425/00241	0.20	13	1	34	7.7	1	NT	0.2	173	156	140	28.9	16.52	
55	84	Pathankot	Parmota	2 Km From Dugwell on Budhori Kiari road near Shani Mandir	75.753	32.348	HP	Gurdaspur	Pathankot No.1	Dhar Kalan	Bungal	Tubewell	31.03.2024	RWTLAS R/REG24 25/00275	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.3	RAWTL/REG2 425/00323	BDL	6.6	4.53	15.7	8.01	1	NT	0.11	90	80	72	14.4	8.74	
56	85	Pathankot	Kui	From Dugwell NHS Point	75.871	32.433	DW	Gurdaspur	Pathankot No.1	Dhar Kalan	Bhanguri Well No.1	Tubewell	31.03.2024	RWTLAS R/REG24 25/00283	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.2	RAWTL/REG2 425/00322	0.21	5.7	4.27	17.5	7.82	1	NT	0.1	145	128	112	20.8	14.58	
57	86	Pathankot	Khani Khui	Gharota Kalan road near Khani Khui	75.55	32.16	HP	Gurdaspur	Pathankot No.1	Gharota	Wadala	Tubewell	31.03.2024	RWTLAS R/REG24 25/00277	BDL	BDL	BDL	BDL	BDL	BDL	0	0.08	BDL	0	0.2	TWERU/REG 2425/00093	0.20	6	3	10	8.02	1	NT	0.11	192	180	160	30.5	20.41	
58	88	Patiala	Basma Pepla	In House of Rajwinder singh S/o Jaspal Singh in front of kirane store	30.46	76.728	HP	Patiala	Rajpura	Shambhu Kalan	Basma	TUBEWELL	31-03-2024	RAWTL/REG2324/049 90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2 324/04990	1.11	115	2.19	145	6.82	<5	NT	0.54	496	280	104	30	6.8	
59	91	Patiala	Hari Majra	Near HW work on the road adjacent to atla chakki & bhagla fertilizer	30.319	76.607	HP	Patiala	Rajpura	Ghanaur	Hari Majra	TUBEWELL	02-04-2024	RAWTL/REG2425/001 50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02	BDL	BDL	BDL	RAWTL/REG2 425/00150	0.75	146	BDL	136	6.84	<5	NT	0.58	467	224	72	16	7.8
60	92	Patiala	Devi Garh	In House of Harmesh singh s/o Nakshatra singh in side aara machine 150 from pz	30.185	76.513	TW	Patiala	Patiala, Mechanical Division	Bhuner Heri	Devgarh Ram Nagar Chunnivala	TUBEWELL	02-04-2024	RAWTL/REG2425/001 37	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2 425/00137	0.50	156	BDL	211	7.16	<5	NT	0.58	593	300	80	18	8.7	
61	93	Patiala	Miranpur	In House of Darbara singh s/o Hardayal singh Near pani ki tanki	30.208	76.494	TW	Patiala	Patiala, Mechanical Division	Bhuner Heri	Miranpur	TUBEWELL	02-04-2024	RAWTL/REG2425/002 06	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2 425/00206	1.07	217	3.29	201	7.01	<5	NT	0.66	689	372	300	55	40	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																										
73	114	Patiala	Balbehra	Inside the Gupta Filling Station (Indian Oil)			SB	Patiala	Patiala, Mechanical Division	Sanaur	Balbera	TUBEWEL	01-04-2024	RAWTL/REG2425/00076	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	7.6	RAWTL/REG2425/00076	0.97	152	3.21	160	7.49	<5	NT	0.78	520	328	64	19	3.9	
74	115	Ludhiana	Otalan	Near Make India Technical Training Testing Centre 100 m From DW	30.819	76.197	HP	Ludhiana	Khanna	Samrala	Otalan	TUBEWEL	01-04-24	RAWTL/REG2425/00040	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.7	RAWTL/REG2425/00040	0.15	7.4	4.05	6.89	7.75	<5	NT	1.55	421	372	312	29	58	
75	116	Ludhiana	Samrala	Inside Office of Kheri badi officer in side Paudh Parkash Prayogshala same premises as pz	30.883	76.2	TW	Ludhiana	khanna	samrala	court complex samrala	TUBEWEL	01-04-24	RAWTL/REG2425/00042	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14	RAWTL/REG2425/00042	0.24	35	15.8	16.8	8.2	<5	NT	0.25	392	356	316	48	48	
76	117	Ludhiana	Muskabad	In front of DW inside house of amarjeet singh s/o teja singh	30.866	76.231	HP	Ludhiana	Khanna	Machhiwara	Muskabad	TUBEWEL	16-04-24	RAWTL/REG2425/00400	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00400	0.23	7	44.8	24.2	6.67	<5	NT	3.72	410	300	320	27	61	
77	118	Ludhiana	Behlolpur	In front of Goga Meri Valmiki Dharamshala near the house Nath singh s/o singh Bhagat	30.904	76.289	HP	Ludhiana	Khanna	Machhiwara	Behlolpur	TUBEWEL	01-04-24	RAWTL/REG2425/00002	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00002	0.17	5.9	15.5	45.3	8.14	<5	NT	0.25	310	208	252	35	40	
78	119	Ludhiana	Manewal	In same premises as pz in front of house Deep Ram	30.938	76.162	HP	Ludhiana	Khanna	Machhiwara	Manewal	TUBEWEL	15-04-2024	RAWTL/REG2425/00387	0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00387	0.34	145	1.01	6.13	7.52	<5	NT	3.76	454	324	220	48	24	
79	120	Ludhiana	Punjeta	On Panjeta Bus Stand on Machiwarra Khuda ect	30.873	76.088	HP	Ludhiana	Ludhiana, Div-2	Ludhiana-II	Panjeta	TUBEWEL	01-04-24	RAWTL/REG2425/00021	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00021	0.21	18	32.6	29.5	7.82	<5	NT	0.59	425	388	264	35	43	
80	121	Ludhiana	Mangat	From House of Gurmeet singh s/o Sher singh in front & pz	30.981	75.913	TW	Ludhiana	Ludhiana, Div-2	Ludhiana-II	Mangat	TUBEWEL	01-04-24	RAWTL/REG2425/00017	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00017	0.15	21	41	24.7	7.84	<5	NT	0.17	399	352	308	63	37	
81	126	Ludhiana	Maksudra	House of Sohan singh s/o Jagvir singh in front of Govt Sr Sec School	30.73	76.01	HP	Ludhiana	Khanna	Doraha	Maksudra	TUBEWEL	15-04-2024	RAWTL/REG2425/00385	0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00385	0.36	4.3	1.44	27.6	7.74	<5	NT	1.34	321	284	280	69	26	
82	127	Ludhiana	Gopalpur	At local point Gopalpura Govt Handpump 150m from pz	30.738	75.842	HP	Ludhiana	Ludhiana, Div-2	Ludhiana-II	Gopalpur	TUBEWEL	01-04-24	RAWTL/REG2425/00019	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00019	0.60	30	18.2	17.7	8.01	<5	NT	0.28	452	400	332	58	46	

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Sr. no.	Sr no as per google sheet	Name of district	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of Circle as per DWSS	Name of division as per DWSS	Name of block as per DWSS	Name of Scheme/Habitat on as per DWSS	Sample Receipt Date	Sample Registration	Aluminium 0.03 mg/l-0.2 mg/l	Lead 0.01mg/l- no relaxation	Selenium 0.01 mg/l- no relaxation	Chromium 0.05 mg/l - no relaxation	Arsenic 0.01 mg/l- no relaxation	Cadmium 0.003 mg/l- no relaxation	Nickel 0.02 mg/l- no relaxation	Iron 1.0 mg/l- no relaxation	Mercury 0.001 mg/l- no relaxation	copper limit 0.05-1.5)	uranium 30µg/l- no relaxation	Sample Registration No for	Fluoride 1.0mg/l - 1.5 mg/l	Chloride 250 mg/l- 1000 mg/l	Nitrate 45 mg/l- No Relaxation	Sulphate 200 mg/l - 400 mg/l	PH Basic Limit 6.5-8.5- No Relaxation -	Colour Basic Limit 5-15 CU	Taste Basic Chemical Turbidity	Basic Limit 1-5 NTU	TDS Basic Limit 500-2000 mg/l	Alkalinity Basic 200-600 mg/l	Hardness Basic 200-600 mg/l	Calcium Basic 75-200 mg/l	Magnesium Basic 30-100 mg/l			
83	128	Ludhiana	Lil	House of Balbeer singh s/o Gehrail singh in front of water works	30.726	75.7	TW	Ludhiana	Ludhiana, Div-1	Pakhwal	Leel	TUBEWEL	01-04-24	RAWTL/REG2425/0007	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.3	RAWTL/REG2425/00007	0.19	28	29	30	31	32	33	34	35	36	37	38	39	40
84	129	Ludhiana	Halwara	On Badi Anaj Mandi, 500m From pz	30.725	75.638	HP	Ludhiana	Ludhiana, Div-1	Sudhar	Halwara	TUBEWEL	01-04-24	RAWTL/REG2425/0008	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10	RAWTL/REG2425/00008	0.63	7.7	5.88	37.8	7.76	<5	NT	0.51	396	348	232	37	34	
85	131	Ludhiana	Sidhwan Bet	From K.S Dhaba c/o Harmandir singh in front of BDO Office pz	30.923	75.44	TW	Ludhiana	Ludhiana, Div-3	Sidhwan Bet	Sidhwan Bet	TUBEWEL	18/04/2024	RAWTL/REG2425/00423	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.1	RAWTL/REG2425/00423	0.28	3.5	7.55	15.8	7.98	<5	NT	0.86	240	172	204	45	22	
86	133	Ludhiana	Rasulpur	In house of Jarnail singh in front of pz	30.699	75.394	TW	Ludhiana	Ludhiana, Div-3	Jagraon	Rasulpur (Mallah)	TUBEWEL	01-04-24	RAWTL/REG2425/00013	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9	RAWTL/REG2425/00013	0.28	4.1	0.56	29	8.26	<5	NT	0.64	386	332	140	19	22	
87	135	Ludhiana	Sherian	Inside the campus of Gurdwara Singh Sabha Sherian	30.939	76.242	SB	Ludhiana	Khanna	Machhiwara	Sherian	TUBEWEL	01-04-24	RAWTL/REG2425/00004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.6	RAWTL/REG2425/00004	0.29	2.5	0.9	6.68	7.66	<5	NT	0.39	346	308	232	40	32	
88	138	Sangrur	Bagarian	House of Jasbeer singh s/o Gajtar singh Near sohe karyana store in front of pz premises	30.459	76.021	TW	Sangrur	Malerkotta	Amargarh	Bagrian	TUBEWEL	16-04-24	RAWTL/REG2425/00406	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	18	RAWTL/REG2425/00406	0.28	4.7	1.46	18.6	7.14	<5	NT	0.54	263	232	132	27	16	
89	139	Sangrur	Bhojowal	House of Jeet singh s/o Charan singh near Dera Sahib Gurudwara 200m from pz on Dhuri balwa road	30.338	75.925	TW	Sangrur	Malerkotta	Dhuri	Bhojowal	TUBEWEL	02-04-24	RAWTL/REG2425/00116	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.5	RAWTL/REG2425/00116	0.28	14	7.67	52.6	6.78	<5	NT	0.69	325	292	104	24	11	
90	140	Sangrur	Behra	Same Location as pz 10m from pz	30.334	75.849	TW	Sangrur	Malerkotta	Dhuri	Benra	TUBEWEL	02-04-24	RAWTL/REG2425/00122	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	17	RAWTL/REG2425/00122	0.39	14	12.3	33.4	6.96	<5	NT	1.39	459	392	212	45	24	
91	141	Sangrur	Ghanauri Kalan	In House of Bant singh Chajju singh s/o Bahadur singh in front of lone of pz	30.41	75.77	HP	Sangrur	Malerkotta	Sherpur	Ghanauri Kalan	TUBEWEL	02-04-24	RAWTL/REG2425/00118	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	24	RAWTL/REG2425/00118	0.14	64	20	35.4	6.98	<5	NT	1.15	526	480	268	63	27	
92	145	Sangrur	Badrukhan	Same Location as pz	30.251	75.797	TW	Sangrur	Sangrur	Sangrur	Badrukhan	TUBEWEL	31-03-24	RAWTL/REG2425/00031	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	18	RAWTL/REG2425/00031	0.51	69	19	50.1	7.7	2	NT	0.64	647	420	240	38	35	
93	147	Sangrur	Chural Kalan	Same as pz	29.819	75.8	TW	Sangrur	Sangrur	Lohraga	Chural Kalan	TUBEWEL	31-03-24	RAWTL/REG2425/00034	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	RAWTL/REG2425/00034	0.43	55	37.4	63.8	7.51	2	NT	BDL	622	384	240	35	37	

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Sr. no.	Sr no as per google sheet	Name of district	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of Circle as per DWSS	Name of division as per DWSS	Name of block as per DWSS	Name of Scheme/Habitat on as per DWSS																														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
94	149	Sangrur	Manvi	In front of the Senior Secondary School	30.538	76.022	HP	Sangrur	Malerkotta	Amargarh	Manvi	TUBEWELL	02-04-24	RAWTL/REG2425/00099	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	18	RAWTL/REG2425/00099	0.34	15	14.8	17.8	6.98	<5	NT	0.98	321	268	176	35	21	
95	150	Sangrur	Ladda	Inside house of Kulwinder Singh S/o Harmel Singh, in front of the school	30.314	75.821	SB	Sangrur	Malerkotta	Dhuri	Ladda	TUBEWELL	16-04-24	RAWTL/REG2425/00407	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	24	RAWTL/REG2425/00407	0.43	8.7	6.7	38.9	7.13	<5	NT	0.69	310	284	120	22	16	
96	151	Moga	Chougawan	On Dana Mandi Chogawan	30.836	75.269	HP	Faridkot	Moga No. 1	Moga-I	GPWSC Chougawan	TUBEWELL	01-04-2024	RAWTL/REG2425/00060	0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.5	RAWTL/REG2425/00060	0.21	32	12	60.9	8.26	<5	NT	0.64	405	352	212	35	30	
97	152	Moga	Bajeke	Inside Gurudwara Singh Sabh Baside pz wall	31	75.151	TW	Faridkot	Moga No. 1	Dhramkot at Kot lse Khan	Bajeke	TUBEWELL	01-04-2024	RAWTL/REG2425/00062	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.7	RAWTL/REG2425/00062	0.35	4.3	3.14	45.4	8.34	<5	NT	1.69	258	200	176	48	14	
98	153	Moga	Dagru	Inside Kamal Patti Gurudwara Beside pz wall	30.824	75.026	TW	Faridkot	Moga No. 1	Moga-II	Dagru	TUBEWELL	01-04-2024	RAWTL/REG2425/00064	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	RAWTL/REG2425/00064	0.40	93	34.3	173	8.11	<5	NT	1.25	538	372	112	19	16	
99	154	Moga	Darapur	One lane ahead of pz in house of Raghuvver Singh s/o Bagh Singh	30.84	74.963	TW	Faridkot	Moga No. 1	Moga-II	GPWSC Darapur	TUBEWELL	01-04-2024	RAWTL/REG2425/00066	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	19	RAWTL/REG2425/00066	0.47	32	1.33	235	8.01	<5	NT	0.45	496	380	88	16	12	
100	155	Moga	Dameru Khurd		30.692	74.98		Faridkot	Moga No.2	Bagha Purana	Demru Khurd	TUBEWELL	01-04-2024	RAWTL/REG2425/00068	0.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00068	BDL	10	3.45	60.2	7.63	<5	NT	0.14	206	92	148	32	17
101	156	Moga	Budh Singh wala	Inside Gurudwara adjoining wall with pz	30.618	75.077	TW	Faridkot	Moga No. 2	Bagha Purana	Budh Singh wala	TUBEWELL	01-04-2024	RAWTL/REG2425/00070	0.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00070	0.12	9.6	2.91	58.1	7.29	<5	NT	0.89	201	96	124	35	8.7
102	157	Moga	Jai Singh wala	In house of Shinder Singh s/o Diwan Singh adjacent to pz	30.728	75.072	TW	Faridkot	Moga No. 1	Moga-II	GPWSC Jaisingh wala	TUBEWELL	01-04-2024	RAWTL/REG2425/00072	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00072	0.53	20	1.81	116	7.47	<5	NT	0.69	421	324	92	13	15
103	160	Barnala	Barnala	20m in from pz same location	30.363	75.525	TW	Sangrur	Barnala	Barnala	court complex old ww bamala	DWSS, Tubewell	31-03-24	RAWTL/REG2324/04986	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	22	RAWTL/REG2324/04986	0.58	93	18.2	223	6.86	<5	NT	0.64	649	416	240	34	38	
104	161	Barnala	Mahal kalan	Same location within Premises	30.523	75.559	TW	Sangrur	Barnala	Mahal kalan	Mahal Kalan	TUBEWELL	31-03-24	RAWTL/REG2324/04988	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20	RAWTL/REG2324/04988	0.66	45	20.9	51.2	6.93	<5	NT	0.78	530	480	284	35	48	
105	164	Nawanshar	Mauhar	HP Owner name Balwinder Singh S/o Baldev Singh	31.103	76.316	HP	Hoshiarpur	SBS Nagar, Div	Balachaur	GPWSC Mauhar	TUBEWELL	02-04-24	RAWTL/REG2425/00184	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.1	RAWTL/REG2425/00184	0.37	12	37.5	10.1	6.96	<5	NT	0.99	482	444	340	66	43	
106	165	Nawanshar	Mehandpur	(Kiryana Shop Owner P Owner name balwinder	31.708	75.567	TW	Hoshiarpur	SBS Nagar, Div	Saroya	Mehandpur	TUBEWELL	02-04-24	RAWTL/REG2425/00186	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00186	BDL	8.3	4.28	5.16	6.89	<5	NT	1.29	459	400	320	61	41

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Data provided by CGWB								Data filled by DWSS				Scheme Source	Sample Receipt Date	Sample Registration	Sample Registration No for										Sample Registration No for															
Sr. no.	Sr no as per google sheet	Name of district	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of Circle as per DWSS	Name of division as per DWSS	Name of block as per DWSS	Name of Scheme/Habitati on as per DWSS				Aluminium 0.03 mg/l-4.2 mg/l	Lead 0.01mg/l -no relaxation	Selenium 0.01 mg/l-no relaxation	Chromium 0.05 mg/l - no relaxation	Arsenic 0.01 mg/l-no relaxation	Cadmium 0.003 mg/l -no relaxation	Nickel 0.02 mg/l-no relaxation	Iron 1.0 mg/l-no relaxation	Mercury 0.001 mg/l-no relaxation	copper limit 0.05-1.5	uranium 30µg/l - no relaxation	Fluoride 1.0mg/l - 1.5 mg/l	Chloride 250 mg/l- 1000 mg/l	Nitrate 45 mg/l - No Relaxation	Sulphate 200 mg/l - 400 mg/l	PH Basic Limit 6.5-8.5-No Relaxation -	Colour Basic Limit 5-15 CU	Taste Basic Chemical Turbidity Limit 1-5 NTU	TDS Basic Chemical Limit 500-2000 mg/l	Alkalinity Basic 200-600 mg/l	Hardness Basic 200-600 mg/l	Calcium Basic Chemical 75-200 mg/l	Magnesium Basic 30-100 mg/l			
117	176	Hoshiarpur	Hajipur	HP (near same location of DW) located in Hospital near to Iri junction opp. Pippie tree & backside of bus stand on mukeriya-Hazipur road.	31.975	75.758	TW	Hoshiarpur	Talwara	Hajipur	Hajipur	TUBEWEL	31.03.2024		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.6		0.29	34	4	38	8.01	1	NT	0.6	288	280	240	49.7	28.18		
118	179	Hoshiarpur	Sibochak	TW in the premises of N.B. Tiles, on Hajipur-Mukeriya before water works.	31.987	75.736	HP	Hoshiarpur	Talwara	Hajipur	sandhwal	TUBEWEL	31.03.2024		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0	3.8		0.23	40	6.33	9.87	7.85	1	NT	0.55	237	208	180	35.3	22.35		
119	180	Hoshiarpur	Pankuh	HP fitted with NHS DW	32.021	75.688	HP	Hoshiarpur	Talwara	Mukerian	Pankuh	TUBEWEL	31.03.2024		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0	6.1		0.16	7.2	10.5	7.97	7.39	1	NT	0.44	237	212	184	36.9	22.35		
120	181	Hoshiarpur	Chak Sheru	HP on T-Point LHS from Hajipur after Sibochak, in front of SK Cement Store.	32.051	75.624	TW	Hoshiarpur	Talwara	Mukerian	Chak Sheru	TUBEWEL	31.03.2024		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0	8.2		0.18	20	16	16.3	7.2	1	NT	0.28	275	280	244	51.3	28.18		
121	182	Hoshiarpur	Bhangala	HP in house adjacent to Chaman Mistri, link road, Opp. SDA Church	32.025	75.609	HP	Hoshiarpur	Talwara	Mukerian	Bhangala	TUBEWEL	31.03.2024		BDL	BDL	0	0.001	0	BDL	BDL	BDL	BDL	19		0.19	22	22.1	18.9	7.7	1	NT	0.3	148	180	160	32.1	19.44		
122	183	Hoshiarpur	Samraj Tanda	HP fitted on NHS DW.	31.915	75.589	HP	Hoshiarpur	Talwara	Mukerian	Tanda Ram Sahai	TUBEWEL	31.03.2024		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.7		0.17	6	0.59	6.91	7.98	1	NT	0.1	150	140	120	24	\$14.58		
123	184	Hoshiarpur	Dagan	HP in the field of Namdhari Joginder Singh, backside of Power House	31.951	75.715	TW	Hoshiarpur	Talwara	Hajipur	Raily	TUBEWEL	31.03.2024		BDL	BDL	0	BDL	BDL	BDL	BDL	BDL	BDL	8.5		0.25	14	17.9	14.4	6.8	1	NT	0.4	145	164	140	28.9	16.52		
124	185	Hoshiarpur	Nangal Bhaiala	TW village water works.	31.908	75.708	DW	Hoshiarpur	Talwara	Hajipur	Nangal Bihalal	TUBEWEL	16-04-24	RAWTL/REG2425/00395	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		0.24	23	41.8	16.3	6.92	<5	NT	1.44	451	312	364	112	20		
125	186	Hoshiarpur	Dulmiwal	Sample from NHS Dug well	31.832	75.751	HP	Hoshiarpur	Hoshiarpur, Div-1	Dasuya	Dulmiwal Kolian	TUBEWEL	31.03.2024		BDL	BDL	0	BDL	BDL	BDL	BDL	BDL	0	BDL	BDL	4.7		0.36	8	8	8	8.02	1	NT	0.48	282	240	212	43.3	25.27
126	190	Hoshiarpur	Rampur Camp Colony	HP near Dashmesh Day Boarding School, near Police barrier.	31.503	75.947	TW	Hoshiarpur	Division no 2, hoshiarpur	Hoshiarpur 2	Chauni Kalan	TUBEWEL	31.03.2024		BDL	BDL	0	BDL	0	BDL	BDL	BDL	BDL	3.4		0.25	9	4	10	7.91	1	NT	0.25	231	192	168	33.7	20.41		

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Sr. no.	Sr no as per google sheet	Name of district	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of Circle as per DWSS	Name of division as per DWSS	Name of block as per DWSS	Name of Scheme/Habitati on as per DWSS																														
158	232	Fatehgarh Sahib	Nalini	HP on Chandigarh-Chunni-Sirhind road, Hansali road board, near transformer and police station.	30.5	76.425	TW	Patiala	Fatehgarh Sahib	Sirhind	Nalini	TUBEWELL	31-03-24	RAWTL/REG2425/00053	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.2	RAWTL/REG2425/00053	0.52	7.8	6.07	37.9	8.11	<5	NT	0.58	409	332	128	21	18		
159	233	Fatehgarh Sahib	Bhaddal Thuha	TW in the premises of Gurudwara on Chunni-Morinda road.	30.591	76.233	HP	Patiala	Fatehgarh Sahib	Amloh	Bhaddal Thuha	TUBEWELL	31-03-24	RAWTL/REG2425/00054	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.5	RAWTL/REG2425/00054	0.48	17	6.26	18.3	8.14	<5	NT	0.78	420	340	96	16	14	
160	235	Fatehgarh Sahib	Narain	TW Owner Sh. Karam Singh, village-Mandofal on Saddo Majra and Inayalpur road, Sirhind bypass	30.625	76.592	TW	Patiala	Fatehgarh Sahib	Khera	Naraina	TUBEWELL	31-03-2024	RAWTL/REG2425/00059	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00059	1.29	37	2.57	80	8.21	<5	NT	0.89	370	296	148	27	19
161	245	Mansa	Kotra Kalan	Basant singh s/o Puran singh dera near Gurudwara	30.055	75.493	TW	Bathinda	Mansa, Div-2	Bhikhi	Kotra Kallan	CANAL	04-04-24	RAWTL/REG2425/00244	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00244	0.25	15	2.57	52.3	7.28	<5	NT	2.14	185	108	148	30	17	
162	246	Mansa	Ralla	Sample Collected From Tubewell located in premises of water works ralla	30.12	75.44	DW	Bathinda	Mansa, Div-2	Bhikhi	Ralla	CANAL	04-04-24	RAWTL/REG2425/00243	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00243	0.20	8.5	0.85	52.2	7.49	<5	NT	1.31	142	72	100	21	12	
163	250	Mansa	Jhanda Khurd	Sir Baba Badri Das Temple Tubewell, Sardulgarh sira road tubewell	29.65	75.186	TW	Bathinda	Mansa, Div-1	Sardulgarh	Jhanda khurd	CANAL	04-04-24	RAWTL/REG2425/00250	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00250	0.14	5	1.66	31.2	7.48	<5	NT	0.66	95	56	76	18	7.8	
164	251	Mansa	Dialpura	Sample collected from Water Works supply Tubewell	29.893	75.665	TW	Bathinda	Mansa, Div-2	Budhadra	Dialpura	CANAL	04-04-24	RAWTL/REG2425/00246	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.3	RAWTL/REG2425/00246	0.61	65	7.04	139	7.48	<5	NT	2.26	366	176	148	29	18	
165	252	Mansa	Kot Dharmu	Handpump of Dera Nandhari Maharaj, Jung singh ji	29.91	75.461	HP	Bathinda	Mansa, Div-1	Jhunir	Kot dharmu	CANAL	04-04-24	RAWTL/REG2425/00248	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00248	0.25	12	2.45	56.7	6.92	<5	NT	2.26	182	100	152	32	17	
166	253	Mansa	Burj Bhalaiika	In the premises of Gurudwara of the village	29.84	75.279	TW	Bathinda	Mansa, Div-1	Jhunir	Burj Bhalaiika	CANAL	04-04-24	RAWTL/REG2425/00251	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00251	0.21	123	3	53.2	7.39	<5	NT	2.19	254	84	216	40	28	
167	254	Mansa	Raipur	sample collected adjacent to attachakki, from the house of Lakhraj Singh	29.69	75.229	HP	Bathinda	Mansa, Div-1	Jhunir	Raipur	CANAL	04-04-24	RAWTL/REG2425/00247	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00247	0.21	11	3.17	54.8	7.14	<5	NT	2.14	189	96	152	30	18	

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1	2	3	4	5	6	7	8	9	10	11	12																														
197	295	Fazilka	Kundal	Handpump near Kundal DW NE of Village	30.22	74.289	HP	sri mukatsar sahib	Abohar	Abohar	Kundal	CANAL	31.03.2024	RWTLASR/REG2425/0304	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02	BDL	0	6.8	RAWTL/REG2425/00310	BDL	21	BDL	17	8.42	1	NT	0.7	216	192	166	33.7	20.41		
198	298	Fazilka	Khuyansarwar	Sample Collected from Tehsil Office Handpump	30.11	74.078	HP	sri mukatsar sahib	Abohar	Khuian Sarwar	sappanw ali	CANAL	31.03.2024	RWTLASR/REG2425/00305	BDL	BDL	BDL	BDL	0.001	BDL	BDL	0.08	BDL	0	5.3	RAWTL/REG2425/00311	0.13	13	BDL	12.9	8.16	1	NT	0.1	133	124	104	20.8	12.63		
199	299	Fazilka	Sitogano	Sample Collected From Shop Balana Cycle Workes	30.04	74.346	TW	sri mukatsar sahib	Abohar	Abohar	Sitoguno	CANAL	31.03.2024	RWTLASR/REG2425/00306	BDL	BDL	BDL	BDL	0.001	BDL	BDL	0.05	BDL	0	2.8	RAWTL/REG2425/00312	0.17	13	BDL	11.1	8.29	1	NT	0.1	98	100	80	16	9.72		
200	301	Fazilka	Nihal Khera	Sample Collected from Handpump near DW	30.24	74.138	HP	sri mukatsar sahib	Abohar	Khuian Sarwar	Nihal khera	CANAL	31.03.2024	RWTLASR/REG2425/0308	BDL	BDL	0	BDL	0.005	BDL	BDL	0	BDL	BDL	29	RAWTL/REG2425/00314	0.17	19	BDL	15.7	7.89	4	NT	4.08	204	208	180	36.9	21.38		
201	302	Fazilka	Kauranwali	sample collected from agricultural tubewell located near to NHS Point	30.383	74.056	TW	Ferozpur	Fazilka	Arniwala Sheikh Suban	kauranwali	CANAL	16-04-24	RAWTL/REG2425/00396	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	RAWTL/REG2425/00396	0.14	11	3.08	11.6	6.79	<5	NT	1.98	161	104	116	30	10		
202	303	Fazilka	Dhaban Kokaryan	Agriculture Tubewell in front of NHS Station	30.122	74.327	TW	sri mukatsar sahib	Abohar	Abohar	Dhaban Kokaryan	CANAL	31.03.2024	RWTLASR/REG2425/00309	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	2.7	RAWTL/REG2425/00315	0.14	12	BDL	11.1	8.2	1	NT	0.1	108	104	92	19.2	10.69		
203	304	Fazilka	Theh Kalandar	Sarkari High School Behak Bodla near toll Plaza	30.471	74.093	HP	Ferozpur	Fazilka	Fazilka	Theh Kalandar	CANAL	31.03.2024	RWTLASR/REG2425/0302	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02	BDL	BDL	19	RAWTL/REG2425/00294	0.87	177	2.66	367	7.05	2	NT	1.25	761	480	400	77	50.54		
204	306	Fazilka	Swahwala	House of Ramchand s/o Diwan Chand near Chakki mob no 889991427	30.63	74.31	TW	Ferozpur	Ferozpur	Guruhar sahai	Swahwala	TUBEWELL	18-04-24	RAWTL/REG2425/00417	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	6.3	RAWTL/REG2425/00417	1.48	19	17.1	94.1	7.1	<5	NT	1.11	596	524	172	26	26		
205	307	Fazilka	Motiwala	House no 41 House of Ramkrishna s/o Faleh Chand mob no 9855644340	30.71	74.36	TW	Ferozpur	Ferozpur	Guruhar sahai	Motiwala	TUBEWELL	18-04-24	RAWTL/REG2425/00418	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.7	RAWTL/REG2425/00418	0.39	21	7.39	163	7.43	<5	NT	1.73	449	292	124	19	18		
206	308	Fazilka	Noore ke Uttar	House of Surinder singh s/o Gurbachan singh mob no 9914095622	30.68	74.283	TW	Ferozpur	Ferozpur	Guruhar sahai	Noore ke Uttar	CANAL	31.03.2024	RWTLASR/REG2425/0344	BDL	BDL	BDL	BDL	0	BDL	BDL	BDL	0	BDL	9.6	TWERU/REG2425/00097	0.54	22	BDL	176	8.18	1	NT	0.9	460	380	320	68.9	35.96		
207	309	Firozpur	Ladhewala	Handpump side by the Dugwell	30.53	74.386	HP	Firozpur	Fazilka	Jalalabad	Lathu wfa Uttar	CANAL	31.03.2024	RWTLASR/REG2425/0434	BDL	BDL	0	BDL	0	BDL	BDL	BDL	BDL	BDL	0.2	TWERU/REG2425/00284	0.18	12	3	22	7.17	1	NT	0.09	155	152	120	22.4	13.55		

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Sr. no.	Sr no as per google sheet	Name of district	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of Circle as per DWSS	Name of division as per DWSS	Name of block as per DWSS	Name of Scheme/Habitati on as per DWSS				0.03 mg/l-0.2 mg/l	0.01mg/l -no relaxation	0.01 mg/l-no relaxation	0.05 mg/l - no relaxation	0.01 mg/l-no relaxation	0.003 mg/l -no relaxation	0.02 mg/l-no relaxation	1.0 mg/l-no relaxation	0.001 mg/l-no relaxation	limit 0.05-1.5	30µg/l - no relaxation		1.0mg/l - 1.5 mg/l	250 mg/l- 1000 mg/l	45 mg/l - No Relaxation	200 mg/l - 400 mg/l	Limit 6.5-8.5-No Relaxation --	Limit 5-15 CU	Limit 1-5 NTU	Limit 500-2000 mg/l	200-600 mg/l	200-600 mg/l	75-200 mg/l	30-100 mg/l	
208	310	Firozpur	Moharewala	House of kakkar singh s/o mangal Singh mob no 8722622861	30.86	74.578	TW	Ferozepur	Ferozepur, Div-2	Mamdot	Moharewala	CANAL	31.03.2024	RWTLASR/REG2425/00349	BDL	BDL	BDL	BDL	0.001	BDL	BDL	0	BDL	BDL	14	TWERU/REG 2425/00102	0.88	13	BDL	44	8.28	1	NT	0.11	270	260	220	41.7	28.18
209	311	Firozpur	Malsian	Handpump, Near Peer Baba Samadhi	30.82	74.381	HP	Ferozepur	Ferozepur, Div-2	Mamdot	BODAL	Tubewell	31.03.2024	RWTLASR/REG2425/00345	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	9.5	TWERU/REG 2425/00098	0.41	8	BDL	62	7.94	1	NT	0.2	290	280	240	48.1	29.16
210	312	Firozpur	Sham Singhwala	Handpump Ferozepur Guruharsahai Road near Agro Computerised Lab	30.81	74.483	HP	Ferozepur	Ferozepur, Div-2	Mamdot	SHAM SINGH WALA	Tubewell	31.03.2024	RWTLASR/REG2425/00346	BDL	BDL	BDL	BDL	0.001	BDL	BDL	0.02	BDL	BDL	19	TWERU/REG 2425/00099	0.86	16	2	127	8.1	1	NT	0.32	371	352	320	64.1	38.88
211	313	Firozpur	Lauke Kalan	House of Sarpanch sh Chamkour Singh mob no 8872965209	31.06	74.846	TW	Ferozepur	Ferozepur at Zira	Zira	Lohke Kalan	Tubewell	31.03.2024	RWTLASR/REG2425/00347	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	14	TWERU/REG 2425/00100	0.40	7	BDL	54	8.07	1	NT	0.55	243	200	160	32.1	19.44
212	314	Firozpur	Jhokharisar	sample collected from agricultural tubewell located just adjacent to water works	30.862	74.611	TW	Ferozepur	Ferozepur, Div-1	Ferozepur	Jhokharisar	Tubewell	31.03.2024	RWTLASR/REG2425/00348	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	15	TWERU/REG 2425/00101	0.86	28	17	136	8.1	1	NT	0.33	412	400	360	72.1	43.74
213	315	Firozpur	Piyarana	PVT Tubewell adjacent to piyarana NHS Dugwell	30.86	74.667	TW	Ferozepur	Ferozepur, Div-1	Ferozepur	Piyarana	Tubewell	31.03.2024	RWTLASR/REG2425/00350	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.01	BDL	BDL	8.7	TWERU/REG 2425/00103	0.47	36	BDL	110	8.21	1	NT	0.18	344	320	280	51.3	36.93
214	316	Firozpur	Jaimal Singh Wala	House of Sh Parwinder singh Sarpanch	30.06	74.342	TW	Ferozepur	Ferozepur, Div-1	Ferozepur	Jaimal Singh Wala	TUBEWELL	16-04-24	RAWTL/REG2425/00416	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	7.7	RAWTL/REG2 425/00416	0.30	35	0.5	106	7.26	<5	NT	1.87	349	220	112	16	17
215	317	Firozpur	Gattah Badsha	Gurdwara Sahib Gattah Badsha	31.122	74.901	TW	Ferozepur	Ferozepur at Zira	Makhu	Gatta Badshah	Tubewell	31.03.2024	RWTLASR/REG2425/00351	BDL	BDL	0	BDL	0.002	BDL	BDL	0	9E-04	BDL	10	TWERU/REG 2425/00104	0.49	17	8	39	7.85	1	NT	0.3	284	240	48.09	26	29.16
216	300	Fazilka	Bazipur Bhoma	House of Ekpal singh Bazidpur Bhoma mob No 9478558505	29.96	74.383	TW	Ferozepur	Abohar	Abohar	Bazipur Bhoma	CANAL	31.03.2024	RWTLASR/REG2425/00307	BDL	BDL	BDL	BDL	0.002	BDL	BDL	BDL	BDL	0	1.8	RAWTL/REG2 425/00313	0.12	14	BDL	13.4	7.22	1	NT	0.25	237	228	208	35.3	29.16
217	317	Gurdaspur	Nishiyara Majja Singh	100m. from Dugwell Nishiyara Majja Singh	75.308	31.929	TW	Gurdaspur	Gurdaspur no 1	Dhaliwal	Nishiyara Majja Singh	TUBEWELL	31.03.2024	RWTLASR/REG2425/00184	BDL	BDL	BDL	BDL	0.01	BDL	BDL	0.09	BDL	BDL	5.6	TWERU/REG 2425/00060	0.39	36	6	76	7.21	1	NT	0.28	248	240	204	40.1	25.27
218	318	Faridkot	Mumaru	Sample collected from house of Jaswinder singh	30.79	74.59	TW	Faridkot	Faridkot	Faridkot	Chanian/ Mumara	CANAL	16-04-24	RAWTL/REG2425/00413	0	BDL	BDL	BDL	BDL	BDL	BDL	0.01	BDL	BDL	15	RAWTL/REG2 425/00413	0.36	45	22.4	88.2	6.89	<5	NT	4.88	338	192	208	56	17
219	318	Jalandhar	Phillaur	In the premises of slm court complex and near Shiv Mandir	75.803	31.027	HP	Amritsar	Jalandhar, Div 1	Phillaur	Tehsil complex Phillaur	TUBEWELL	31.03.2025	RWTLASR/REG2425/00095	BDL	BDL	0	BDL	0	BDL	BDL	BDL	BDL	0	24	TWERU/REG 2425/00017	0.40	14	2	16	7.66	1	NT	0.25	336	340	300	54.5	39.85

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Annexure R-6

List of 18 locations with details

Data provided by CGWB

Data filled by DWSS

Sr No.	Sr. no. as per google sheet	Name of disrict	Name of location of CWGB	Name of Phiscal location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of division as per DWSS	Name of block as per DWSS	Name of location of CWGB	Name of Scheme/Habitation as per DWSS	Village Id	Type of source of DWSS
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	34	Amritsar	Urdhan	Near to water works Urdhan	74.866	31.879	TW	Amritsar, Div-1	Ajnala	Urdhan	Urdhan	2750	Tubewell
2	35	Amritsar	Gaggo Mahal	In the Premises of Vet Hospital	74.667	31.9	TW	Amritsar, Div-1	Ajnala	Gaggo Mahal	Gaggo mahal	2643	Tubewell
3	44	Tarn taran	Goindwal Sahib	Sample from Gurudwara Goindwal Sahib	75.144	31.365	TW	Tarn Taran no. - 2	Khadoor Sahib	Goindwal Sahib	Goindwal Sahib	3145	Tubewell
4	87	Patiala	Thuha	In House of Malkeet Singh Near pani ki tanki close to Udham singh Dharamhala	30.5	76.554	TW	Rajpura	Shambhu Kalan	Thuha	Thuha	12051	Tubewell

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Sr No.	Sr. no. as per google sheet	Name of district	Name of location of CWGB	Name of Phiscal location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of division as per DWSS	Name of block as per DWSS	Name of location of CWGB	Name of Scheme/Habitation as per DWSS	Village Id	Type of source of DWSS
1	2	3	4	5	6	7	8	9	10	11	12	13	14
5	89	Patiala	Kami Kalan	In front of pz at kami Bhatla	30.378	76.679	HP	Rajpura	Ghanaur	Kami Kalan	Kami kalan	11840	Tubewell
6	90	Patiala	Lacharu	In front of House of Nakshatra singh s/o puran signh, 100 m from DW	30.345	76.642	HP	Rajpura	Ghanaur	Lacharu	Lachru Kalan	11850	Tubewell
7	142	Sangrur	Bugra	From Gurudwara Baba labh singh on dhuli Barnala road	30.286	75.761	TW	Malerkotla	Dhuri	Bugra	Bugra	11322	Tubewell
8	202	Ropar	Chak Dehra	TW Atwal Service (Washing) Centre	31.042	76.533	HP	Ropar	Roopnagar	Chak Dehra	Miani	6911	Tubewell
9	224	Fatehgarh Sahib	Chunni Kalan	Kirana store	30.715	76.494	TW	Fatehgarh Sahib	Khera	Chunni Kalan	Chunni Kalan	8064	Tubewell

Data provided by CGWB								Data filled by DWSS					
Sr No.	Sr. no. as per google sheet	Name of district	Name of location of CWGB	Name of Phiscal location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of division as per DWSS	Name of block as per DWSS	Name of location of CWGB	Name of Scheme/Habitation as per DWSS	Village Id	Type of source of DWSS
1	2	3	4	5	6	7	8	9	10	11	12	13	14
10	226	Fatehgarh Sahib	Bhangrana	TW of shivan vaishno dhaba Adjacent of Royal Dhaba & Time milk plant, opp sethi dhaba	30.611	76.578	HP	Fatehgarh Sahib	Khera	Bhangrana	Bhangrana	8054	Tubewell
11	305	Fazilka	Deepulana	Near bus stand chowk dipuwala Sarpanch Resham singh s/o Kehar singh	30.45	74.099	TW	Fazilka	Fazilka	Deepulana	Dipulana	9854	Tubewell
12	97	Patiala	Lohakheri	In the Premises & Gurudwara in front of pz	30.409	76.586	TW	Rajpura	Ghanaur	Lohakheri	Lohakheri	11855	Tubewell
13	96	Patiala	Bir Kauli	In front of pz at Indian oil petrol pump gopal kauli oil company	30.414	76.514	TW	Rajpura	Sanour	Bir Kauli	Bir Kauli	11698	Tubewell
14	101	Patiala	Rajgarh	Inside Co-operative Soceity Adjoing Seva Kendra 50 m from pz	30.416	76.732	TW	Rajpura	shambhu kalan	Rajgarh	Rajgarh	11881	Tubewell


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Data provided by CGWB								Data filled by DWSS					
Sr No.	Sr. no. as per google sheet	Name of disrict	Name of location of CWGB	Name of Phiscal location of CWGB	Latitud e of CGWB source	Longit ute of CGWB source	Type of source of CGWB	Name of division as per DWSS	Name of block as per DWSS	Name of location of CWGB	Name of Scheme/ Habitation as per DWSS	Village Id	Type of source of DWSS
1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	123	Ludhiana	Begowal	In side Gurudwara same Location as pz	30.817	76.056	HP	Khanna	Doraha	Begowal	Begowal	9065	Tubewell
16	124	Ludhiana	Doraha	Inside Rest House Same Location as pz	30.8	76.021	HP	khanna	Doraha	Doraha	Begowal	9065	Tubewell
17	320	Faridkot	Deepsingwala	Handpump of Bus Stand near Punjab & Sind Bank & ATM	30.74	74.479	HP	Faridkot	Faridkot	Deepsingwala	Deep Singh Wala/Deep Singh wala	13168	Tubewell
18	113	Patiala	Sangatpura	Same location within Premises	30.342	76.225	SB	Patiala, Div-1	Nabha	Sangatpura	Sangatpura	12241	Tubewell

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Data provided by CGWB vide Email dated 27.03.2024										Test Results																													
Sr. No	Zone	Circle	Name of district	Name of block	Name of location of CWGB	Latitude of CGWS source	Longitude of CGWS source	Type of source of CGWB	As the locations do not belong to DNWS, Punjab. So details of other Department, i.e. 1. Name of the department 2. Contact person 3. Contact number	Sr. No.	District Name	Block Name	Sample Receipt Date	Scheme Source	Location Name	Aluminium Heavy Metals	Lead Heavy Metals	Selenium Heavy Metals	Chromium Heavy Metals	Mercury Heavy Metals	Arsenic Heavy Metals	Cadmium Heavy Metals	Nickel Heavy Metals	Iron Heavy Metals	Copper Heavy Metals	uranium Heavy Metals	Fluoride Anions	Nitrate Anions	Sulphate Anions	pH Basic Chemical	Odour Basic Chemical	Colour Basic Chemical	Turbidity Basic Chemical	TDS Basic Chemical	Chloride Basic Chemical	Hardness Basic Chemical	Alkalinity Basic Chemical	Calcium Basic Chemical	Magnesium Basic Chemical
																0.03 mg/l-0.3 mg/l	0.01mg/l- no relaxation	0.01 mg/l-no relaxation	0.05 mg/l- no relaxation	0.01 mg/l-no relaxation	0.003 mg/l- no relaxation	0.02 mg/l-no relaxation	1.0 mg/l- no relaxation	0.001 mg/l-no relaxation	limit 0.05 1%)	30µg/l- no relaxation	1.0mg/l- 1.5 mg/l	45 mg/l- No Relaxation	200 mg/l- 400 mg/l	limit 6.5- 8.5-No Relaxation	Agreeable	Limit 5- 15 CU	Limit 1-5 NTU	limit 500- 3000 mg/l	250 mg/l- 1000 mg/l	200-600 mg/l	200-600 mg/l	75-200 mg/l	30-100 mg/l
B5 limits as per 10500-2012 Rev. 2 (Acceptable- Permissible)																																							
240	South Zone	Chandigarh	Chandigarh	Section-10C	TW in house owner (ahw singh) Opposite to NHS DW	30.755	76.794	TW		10	Chandigarh		03-04-24		Tap Water, (Chandigarh Sec-10-C, Natural History Museum)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2	2.36	49.13	7.22	Agreeable	<5	0.39	189	7.11	140	100	30	16
241	South Zone	Chandigarh	Chandigarh	Section-31D	TW in the Boosting Station, Same location as NHS Pz	30.705	76.78	TW		11	Chandigarh		03-04-24		Tubewell, (Chandigarh Sec-31-D, Water Boosting System)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18	2.76	48.14	7.04	Agreeable	<5	0.49	179	7.76	128	108	18	20
242	South Zone	Chandigarh	Chandigarh	New Industrial Area (Karnan Camp)	TW inside Water Works Ram Darbar Phase I, Behind Govt. High School	30.69	76.889	TW		12	Chandigarh		03-04-24		Tubewell, (Chandigarh Ram Darbar Industrial Area-1, Behind Govt School)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.27	5.08	6.01	7.38	Agreeable	<5	0.96	299	4.84	204	240	37	27
236	South Zone	Chandigarh	Chandigarh	Sector 46	JIP opp. Primary School, Infront of Asita Chakri	30.703	76.769	TW		13	Chandigarh		03-04-24		Tubewell, (Chandigarh Sec-46-C, Govt Primary School)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2	2.53	50.39	7.45	Agreeable	<5	1.24	189	7.77	132	104	19	20

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S.No.	Circle	Name of district	Name of block	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Falls under other Departmental jurisdiction	Details of other Department/Location
1	2	3	4	5	6	7	8	9	10	11
1	Amritsar	Jalandhar		Nakodar	Near Punjab palace & Washing Center Nakodar Malsian	31.133	75.485	TW	Other Department	Punjab Palace (Own Source) Manager Alam, 9877352328/ Guru Nanak National Collage, Principal 9501828855 (Area falls under MC jurisdiction)
2	Amritsar	Jalandhar		Shahkot	Bharat Petroleum R R filling Station	31.079	75.33	TW	Other Department	MC Shahkot, Seema Rani 8289008383/ Bharat Petroleum RR Filling Station, Budh Raj, 9837677471
3	Amritsar	Jalandhar		Goraya	Gurudwara sri Singh Sabha	31.233	75.533	TW	Other Department	1. Name of Department: Municipal Council Goraya, Block Phillaur Jalandhar 2. Contact Person: Sh. Surinder Pal (J.E), Contact No:94171 23073
4	Amritsar	Jalandhar		Kartarpur	Malwa filling station Kartarpur	31.436	75.499	TW	Other Department	Name of Department: MC Kartarpur, Contact Person: Sh. Raini (J.E), Contact No:9878089001
5	Amritsar	Jalandhar		Jalandhar	Hotel Gagandeep near bus stand	31.325	75.589	TW	Other Department	1. Commercial Building (Own Source). Contact no :- 01812225516, 2. Area under MC Jalandhar MCJ SDE Name :- Gagan Luthra (9814224554)
6	Amritsar	Jalandhar		Allawalpur	Near D W of Allowalpur	31.429	75.664	TW	Other Department	Municipal Nagar Council, Ramjit 9872574176
7	Amritsar	Kapurthala		phagwara	Opp SDM court and fire brigade office	31.229	75.779	TW	Other Department	1. Ashoka Auto Mobile Shop (Ashok Kumar), Mob. 9417643431 2. Water Supply Sewerage Board, Pardeep Choultani (SDO), Mob. 9780277086 (falls under MC area)
8	Amritsar	Kapurthala		Kapurthala	Ajit Motor & Garage near Kpurthala	31.369	75.381	TW	Other Department	1. Ajit Motor Garage (Balvir Singh), Mob. 9815029027 2. Municipal Corporation Kapurthala, Anupam Kaler (Commissioner), Mob. 9872997863
9	Amritsar	Kapurthala	Nadala	Bholath	Kalka filling station Kartarpur road Bholath	31.535	75.506	TW	Other Department	Own Source, Charanjit Singh, 9814364132 (Area falls under MC jurisdiction)
10	Amritsar	Amritsar	Jandiata Guru	Jandiata Guru	Ashok Shubh & Co.(Indian oil) filling station	31.567	7	HP	Other Department	Water Supply and Sewerage Board, JE Kulbir Singh Chadda-9501555066, SDE Sandeep Singh- 9877089027.
11	Amritsar	Amritsar	Ajnala	Ajnala	Near Durgawell Ajnala	31.846	74.758	TW	Other Department	Water supply and sewerage board Ajnala, SDO Deepak Saini 7986904602 JE Gurbhuj singh 9888515359
12	Amritsar	Amritsar		Ramdas	From Dugwell in Gurudwara Sahib	31.967	74.917	DW	Other Department	Water supply and sewerage board Ramdass, SDO Deepak Saini 7986904602 JE Shivam Saini, 9592242946
13	Amritsar	Amritsar		Amritsar	Sample taken from DW of Gurudwara (NHS Point)	31.633	74.875	TW	Other Department	Owsource of Namdhari Shaheed Samark Gurdwara. Area falls under jurisdiction of MC amritsar
14	Amritsar	Tam Taran	Bhikhiwind	Bhikhiwind	In the Compound of BDPO Office	31.35	74.7	TW	Other Department	Gurwinder Singh (BDPO Office) 97818-04618 Manjit Singh Supervisor MC Bhikhiwind 78888-75550
15	Amritsar	Gurdaspur		SriHargobind pur	In the premises of Kali Mata Mandir	31.692	75.475	TW	Other Department	1. Punjab water Supply and Sewerage Board, 2. JE JAGBIR (9855915440) 3. SDO GURDEEP ARORA (8837600738)
16	Amritsar	Pathankot		Pathankot	150 m From Dugwell Indian Oil Petrol Pump	32.267	75.625	TW	Other Department	Municipal Corporation Pathankot(SDE-Pankaj mob. +91 788-8326931 and JE - Naresh mob. 9417287504)
17	Amritsar	Pathankot		Sarna	From Dugwell NHS Point	32.263	75.592	DW	Other Department	Municipal Corporation Pathankot(SDE-Pankaj mob. +91 788-8326931 and JE - Naresh mob. 9417287504)
18	Ludhiana	Patiala		Chhat	Opp water work tank Chhat model school	30.614	76.796	HP	Other Department	MC Derabassi, Tara Chand JE (7888327699)
19	Ludhiana	Patiala		Samana	House of Gurucharan singh s/o Balwinder singh, 400 m	30.146	76.19	TW	Other Department	water supply and Sewerage board - Arvinder khurana sde 7340917952 - Simran Nava JE 8872596852
20	Ludhiana	Ludhiana		Chattar Singh Park	From Indian oil petrol pump (sarwan service station) opp preet palace)	30.9	75.792	TW	Other Department	Gurcharan Singh, Owner of Petrol Pump M.9815503319 (Own Submersible Pump) (Area under MC jurisdiction)
21	Ludhiana	Ludhiana		Jagraon	Near Bus Stand on Tampu stand Jagraon to Sidhwanbet road left side Handpump inside military ground	30.775	75.471	HP	Other Department	Own Source (Submersible Pump) of Tempo Union. (Area under MC jurisdiction)

Annexure R1

S.No.	Circle	Name of district	Name of block	Name of location of CWGB	Name of Phiscal location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Falls under other Departmental jurisdiction	Details of other Department/Location
1	2	3	4	5	6	7	8	9	10	11
22	Ludhiana	Sangrur		Maler Kotla	Sample Collected from same DW	30.525	75.9	DW	Other Department	
23	Ludhiana	Sangrur		Lohgawal	Same Location as pz 10m from pz	30.192	75.675	TW	Other Department	Municipal committee Malerkotla E.O. Name Aapaar Singh 9876629714 water supply is given by sewage board in longawal
24	Ludhiana	Moga		Nihal Singh Wala	10m from pz same location			TW	Other Department	1.Municipal Committee Nihal Singh Wala 2.Sh Jalinder Kumar Sharma (Inspector)3. Mob No:7986049736
25	Sangrur	Barnala		Bahadaur	20m from pz same location	30.475	75.324	TW	Other Department	Municipal committee bahadaur Sh Ajay Kumar JE 9602395830
26	Ludhiana	SAS Nagar		Banaur	Aman Service Station near Radha Swami Salsang Campus & baby convent school om Kharar Ambala road	30.493	76.586	TW	Other Department	MC, EE Pankaj Jain (8427663504)
27	Chandigarh	Nawanshahar		Balachor	Near Khawaja Pir, Panj Piri, Opp Jaswinder signh furniture	31.862	75.847	HP	Other Department	1. Punjab Water Supply & Sewerage Board 2. Xen Amandeep Singh 3. Mob. No. 9646166990
28	Chandigarh	Nawanshahar		Rahon	HP Owner name: Bhupinder Singh S/o Pyara singh, Opp. Tailoring shop of Sh. Daljit	31.057	76.136	DW	Other Department	1. Municipal committee Rahoon 2. Sh. Rajiv Sareen EO 3. Mob. No. 9815066801
29	Chandigarh	Hoshiarpur		Mahilpur	TW inside the PWD Rest House	31.358	76.042	TW	Other Department	1.municipal committee 2.Rajeev sureen 3.9815066801
30	Chandigarh	Hoshiarpur		Dasuya	HP in the premises of Primary School	31.8	75.667	TW	Other Department	The water is supplied by Municipal Comitee Dasuya, Sh. KamalJinder Singh (EO Dasuya) , Mob No= 9914986735
31	Chandigarh	Hoshiarpur		Gahdiwala	TW in the civil rest house, near gurudwara	31.75	75.742	HP	Other Department	1.Municipal Committee Garhdiwala 2.Shri Ram Parkash EO Garhdiwala 3. 94174-79460
32	Chandigarh	Hoshiarpur		Sham Chaurassi	HP in front Sunny Arts and Wood cutting (aara lakdi store), Bhullar Hardware, LHS on main Hoshiarpur road, near Mango tree.	31.501	75.749	HP	Other Department	1.Municipal Committee Sham Chaurasi 2.Shri Baljit Singh EO Sham Chaurasi 3. 997800-02220
33	Chandigarh	Hoshiarpur		Mekeriya	HP in front of Singh Shuttering Store, Opp. Bus stop near Mobile Tower.	31.942	75.617	HP	Other Department	1. Municipal committe Mukerian 2. Shri Madan 3. 9915102702
34	Chandigarh	SAS Nagar		Issapur	HP owner sh pawan kumar, opp Shive mandir pippel tree near NHS DW	30.592	76.846	DW	Other Department	MC Derabassi, Tara Chand JE (7888327699)
35	Chandigarh	SAS Nagar		Dera Bassi	DW Infront of Gurudwara, Opp house of sh swaran singh (chd police)	30.586	76.838	TW	Other Department	MC Derabassi, Tara Chand JE (7888327699)
36	Chandigarh	SAS Nagar		Chhat	HP- Nagar Khera	30.614	76.794	TW	Other Department	MC Derabassi, Tara Chand JE (7888327699)
37	Chandigarh	SAS Nagar		Banur	TW in house owner sh. Kulwant	30.559	76.7	HP	Other Department	MC, EE Pankaj Jain (8427663504)
38	Chandigarh	SAS Nagar		Gholu Majra	works	30.533	76.824	TW	Other Department	MC Lahu, Gagandeep Singh JE (8837894440)
39	Chandigarh	Fatehgarh Sahib		Bassi Pathana	TW Owner Sh. Jagdev Singh, H.No. 28, near NHS DW	30.713	76.378	HP	Other Department	1. Municipal Council 2. Sh. Sukhdev Singh 3. Mo. 9988700527
40	Bathinda	Mansa		Bhikhi	Sample collected satluj cold filter water front pf peizometer	30.07	75.538	TW	Other Department	1. Punjab water supply and sewage board. 2.Er. Lalit mittal (SDE) & Sourav jain(JE). 3. 9872730032 & 8847254873.
41	Bathinda	Mansa		Budhlada	Tubewell in Govt ITI Near Bagwani vikas office premises Budhlada	29.93	75.542	TW	Other Department	1. Punjab water supply and sewage board. 2.Er. Lalit mittal (SDE) & Sukhwinder singh (JE). 3. 9872730032 & 9888776152
42	Bathinda	Bhatinda		Dera Tappa	Sample Collected From Handpump Beside the Dubwell	30.26	74.936	HP	Other Department	1.PWSSB JE Sh Maninder Singh 9780880615 SDE Sh Bikramjit Singh 8699208205 Xen Sh Baljeet Singh 82849 14999 (Area falls under PWSSB)
43	Bathinda	Bhatinda		Phul	Sample collected Bagga Singh (Gurpreet Singh)	30.32	75.07	TW	Other Department	1. Municipal Council Rampura Phul. (Local Bodies) 2. E.O. Rampura Phul. 3. 99154-45019
44	Bathinda	Fazilka		Abohar	Johri Mandir handpump	30.15	74.192	HP	Other Department	Department - Municipal corporation ABOHAR, JE - Sumit (9780863452), SDE - Vikram Singh (8699455341), Executive Engineer - Abhinav Jain (7508141800)
45	Bathinda	Faridkot		Kot Kapura	Handpur Near Crossingh of Daru Mal Dharamshala	30.58	74.833	HP	Other Department	1.Punjab Water supply & Sewerage Board, 2.JE- Sukhjeet Singh(9463093993) 3.SDE- Lovekesh kumar(8054018327)
46	Bathinda	Bhatinda		Kothaguru	Sample Collected from the house in front of NHS station adjacent to Kirana Store, Kotha Guru	30.43	75.1	TW	Other Department	The water samle is taken from own source 1. Balwinder Singh s/o Mukhtiar Singh 9417548012. (Area falls under NAC jurisdiction)

Annexure R2

S.No.	Circle	Name of district	Name of block	Name of location of CWGB	Name of Piscal location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Falls under other Departmental Jurisdiction	Details of other Department/Location	Aluminium Heavy Metals (mg/l)	Lead Heavy Metals (mg/l)	Selenium Heavy Metals (mg/l)	Chromium Heavy Metals (mg/l)	Mercury Heavy Metals (mg/l)	Arsenic Heavy Metals (mg/l)	Cadmium Heavy Metals (mg/l)	Nickel Heavy Metals (mg/l)	Iron Heavy Metals (mg/l)	Copper Heavy Metals (mg/l)	Uranium Heavy Metals (ug/l)	Fluoride Anions (mg/l)	Nitrate Anions (mg/l)	Sulphate Anions (mg/l)	pH Basic Chemical	Odour Basic Chemical	Colour Basic Chemical (CU)	Turbidity Basic Chemical (mg/l)	TDS Basic Chemical (mg/l)	Chloride Basic Chemical (mg/l)	Hardness Basic Chemical (mg/l)	Alkalinity Basic Chemical (mg/l)	Calcium Basic Chemical (mg/l)	Magnesium Basic Chemical (mg/l)	
1	Amritsar	Jalandhar		Nakodar	Near Punjab police & Washing Center Nakodar Malsian	31.133	75.485	TW	Other Department	Punjab Palace (Own Source) Manager Alam, 987352328/ Guru Nanak National College, Principal 9501828855 (Area falls under MC jurisdiction)	BDL	BDL	0.005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.12	1.07	20.36	29.54	7.38	Agreeable	1	BDL	320	24.16	234.32	228.52	66.36	16.68	
2	Amritsar	Jalandhar		Goraya	Gurdwara Singh Sabha	31.233	75.533	TW	Other Department	1. Name of Department: Municipal Council Goraya, Block Patiala/Jalandhar 2. Contact Person: Sh. Surinder Pal (J.E), Contact No:94171 23073	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	22.76	0.2	44.32	69.84	7.53	Agreeable	1	BDL	320	22.14	226.24	232.46	64.76	15.7	
3	Amritsar	Jalandhar		Kartarpur	Melwa filling station Kartarpur	31.436	75.499	TW	Other Department	Name of Department: MC Kartarpur, Contact Person: Sh. Rajni (J.E), Contact No:9878089001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	0.6	26.58	17.55	7.39	Agreeable	1	BDL	300	20.13	218.16	212.76	58.29	17.67	
4	Amritsar	Jalandhar		Jalandhar	Hotel Gagandeep near bus stand	31.325	75.589	TW	Other Department	1. Commercial Building (Own Source) Contact no - 01812225516 2. Area under MC Jalandhar MCJ SOE Name - Gagan Luthra (9814224554)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11.82	0.26	3.24	243.17	8.8	Agreeable	1	BDL	570	80.54	484.8	327.02	132.77	37.3
5	Amritsar	Jalandhar		Attowalpur	Near D W of Akowalpur	31.429	75.664	TW	Other Department	Municipal Nagar Council, Ramjil 9872574176	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11.07	0.27	BDL	7.66	7.62	Agreeable	1	BDL	260	18.12	197.96	193.06	51.81	16.66
6	Amritsar	Kapurthala		phagwara	Opp SMI court and fire brigade office	31.229	75.779	TW	Other Department	1. Ashoka Auto Mobile Shop (Ashok Kumar), Mob. 9417643431 2. Water Supply Sewerage Board, Parddeep Choultani (SO), Mob. 9780277086 (falls under MC area)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.45	0.41	28.71	21.08	7.46	Agreeable	1	BDL	426	52.35	284.28	308.01	61.1	32.04
7	Amritsar	Amritsar	Jandiala Guru	Jandiala Guru	Ashok Shubb & Co.(Indian oil) filling station	31.567	7	HP	Other Department	Water Supply and Sewerage Board, J.E.Kulbir Singh Chadda, 9501555066, SOE Sandeep Singh-9877089027.	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.11	BDL	11.54	7.73	Agreeable	1	0.1	250	21.99	224	280	43.26	28.18
8	Amritsar	Amritsar		Amritsar	Sample taken from DW of Gurdwara (NHS Point)	31.633	74.875	TW	Other Department	Owmsource of Mandiwan Shabedi Sarnak Gurdwara, Area falls under Jurisdiction of MC amritsar	BDL	0.001	BDL	0.001	BDL	0.003	BDL	0.001	BDL	0.015	18.223	BDL	0.59	35.29	7.36	Agreeable	1	0.39	308	35.98	280	336	54.5	34.99	

Annexure R2

S.No.	Circle	Name of district	Name of block	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CWGB source	Longitude of CWGB source	Type of source of CWGB	Falls under other Departmental jurisdiction	Details of other Department/Location	Aluminium Heavy Metals (mg/l)	Lead Heavy Metals (mg/l)	Selenium Heavy Metals (mg/l)	Chromium Heavy Metals (mg/l)	Mercury Heavy Metals (mg/l)	Arsenic Heavy Metals (mg/l)	Cadmium Heavy Metals (mg/l)	Nickel Heavy Metals (mg/l)	Iron Heavy Metals (mg/l)	Copper Heavy Metals (mg/l)	Uranium Heavy Metals (ug/l)	Fluoride Anions (mg/l)	Nitrate Anions (mg/l)	Sulphate Anions (mg/l)	pH Basic Chemical	Odour Basic Chemical	Colour Basic Chemical (CU)	Turbidity Basic Chemical (mg/l)	TDS Basic Chemical (mg/l)	Chloride Basic Chemical (mg/l)	Hardness Basic Chemical (mg/l)	Alkalinity Basic Chemical (mg/l)	Calcium Basic Chemical (mg/l)	Magnesium Basic Chemical (mg/l)	
9	Amritsar	Gurdaspur		Srihargo bendpur	In the premises of Kali Mata Mandir	31.692	75.475	TW	Other Department	1. Punjab water Supply and Sewerage Board. 2. JE JAGBIR (985915440) 3. SDO GURDEEP ARORA (8837600738)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.05	0.74	0.51	74.01	7.29	Agreeable	1	0.16	268	15.99	240	324	48.09	29.16	
10	Amritsar	Pathankot		Pathankot	150 m From Dugwail Indian Oil Petrol Pump	32.267	75.625	TW	Other Department	Municipal Corporation Pathankot SDE-Pankaj mob. +91 786-6326931 and JE - Naresh mob. 9417287504	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	15.38	38.18	6.6	Agreeable	2	BDL	410	21.98	200	168	60.92	11.66
11	Amritsar	Pathankot		Sarna	From Dugwail NH5 Point	32.263	75.592	DW	Other Department	Municipal Corporation Pathankot SDE-Pankaj mob. +91 786-6326931 and JE - Naresh mob. 9417287504	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.9	35.64	7.4	Agreeable	2	BDL	350	9.99	180	164	68.93	1.94
12	Ludhiana	Patiala		Chhat	Opp water work tank Chhat modat school	30.614	76.796	HP	Other Department	MC Derabassi, Tara Chand JE (7888327699)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.14	18.65	31.06	8.07	Agreeable	<5	0.79	372	34	248	332	63	22
13	Ludhiana	Sangrur		Maler Kotla	Sample Collected from same DW	30.525	75.9	DW	Other Department	Municipal committee Malerkotla E.O. Name Apeearp Singh 9876629714	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.52	0.53	42.75	30.19	7.5	Agreeable	1	BDL	460	46	200	256	32	29
14	Ludhiana	Sangrur		Lohgawal	Same Location as or 10m from pz	30.192	75.675	TW	Other Department	water supply is given by sewerage board in lohgowal	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15.93	0.21	37.83	142.94	7.48	Agreeable	3	0.91	578	74	116	232	21	16
15	Ludhiana	SAS Nagar		Banaur	Aman Service Station near Radha Swami Satsang Campus & baby convent school on Kharar Ambala road	30.493	76.586	TW	Other Department	MC, EE Pankaj Jahn (8427663504)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	17.54	62.31	8.11	Agreeable	<5	2.14	376	35	216	320	46	23
16	Chandigarh	Nawanshahr		Batachor	Near Khawaja Pk. Parj Pk. Opp Jaswinder sghn furniture	31.862	75.847	HP	Other Department	1. Punjab Water Supply & Sewerage Board 2. Xen Amandeep Singh 3. Mob. No. 9648166990	BDL	0.005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.024	BDL	0.21	21.34	15.49	7.2	Agreeable	<5	1	520	21	304	376	57.71	38.88
17	Chandigarh	Hoshiarpur		Mahipur	TW inside the PWD Rest House	31.358	76.042	TW	Other Department	1. municipal committee 2. Rajeev sureen 3.0815066801	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.31	1.54	10.63	7.13	Agreeable	1	1.54	347	12.08	263.88	276.9	48.54	34.04
18	Chandigarh	Hoshiarpur		Dasuya	HP in the premises of Primary School	31.8	75.667	TW	Other Department	The water is supplied by Municipal Committee Dasuya. Sh. Kamalinder Singh (EO Dasuya), Mob No- 9914986735	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.17	15.07	27.22	7.46	Agreeable	2	BDL	380	32.22	288.4	253.5	71.01	27.03
19	Chandigarh	Hoshiarpur		Gahdwala	TW in the civil rest house, near gurudwara	31.75	75.742	HP	Other Department	1. Municipal Committee Gahdwala 2. Shri Ram Parkash EO Gahdwala 3. 94174-79460	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24	28.91	26.96	8.21	Agreeable	1	BDL	391	36.24	292.52	261.3	67.7	30.03

Annexure R2

S.No.	Circle	Name of district	Name of block	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Falls under other Departmental Jurisdiction	Details of other Departmental Location	Aluminium Heavy Metals (mg/l)	Lead Heavy Metals (mg/l)	Selenium Heavy Metals (mg/l)	Chromium Heavy Metals (mg/l)	Mercury Heavy Metals (mg/l)	Arsenic Heavy Metals (mg/l)	Cadmium Heavy Metals (mg/l)	Nickel Heavy Metals (mg/l)	Iron Heavy Metals (mg/l)	Copper Heavy Metals (mg/l)	Uranium Heavy Metals (ug/l)	Fluoride Anions (mg/l)	Nitrate Anions (mg/l)	Sulphate Anions (mg/l)	pH Basic Chemical	Odour Basic Chemical	Colour Basic Chemical (CU)	Turbidity Basic Chemical (mg/l)	TDS Basic Chemical (mg/l)	Chloride Basic Chemical (mg/l)	Hardness Basic Chemical (mg/l)	Alkalinity Basic Chemical (mg/l)	Calcium Basic Chemical (mg/l)	Magnesium Basic Chemical (mg/l)	
20	Chandigarh	Hoshiarpur		Sham Chaurasi	HP in front Sunny Arts and Wood cutting (sara lakdi store), Bhullar Hardware, LHS on main Hoshiarpur road, near Mango tree.	31.501	75.749	HP	Other Department	1. Municipal Committee Sham Chaurasi 2. Shri Baljit Singh EO Sham Chaurasi 3. 997600-02220	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.23	28.45	26.57	7.32	Agreeable	2	BDL	382	34.23	296.64	257	71.01	29.03	
21	Chandigarh	Hoshiarpur		Mekeriya	HP in front of Singh Shuttering Store, Opp. Bus stop near Mobile Tower.	31.942	75.617	HP	Other Department	1. Municipal committee Mukerian 2. Shri Madan 3. 9915102702	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.26	26.68	27.43	8.28	Agreeable	2	BDL	398	38.26	300.75	265.2	72.66	29.03	
22	Chandigarh	SAS Nagar		Dera Bassi	DW in front of Gurudwara, Opp house of sh awaran singh (chd police)	30.586	76.838	TW	Other Department	MC Derabassi, Tara Chand JE (788327699)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36	8.21	48.46	8.24	Agreeable	<5	1.06	336	24	136	292	40	8.7	
23	Chandigarh	SAS Nagar		Chhat	HP, Nagar Khara	30.614	76.794	TW	Other Department	MC Derabassi, Tara Chand JE (788327699)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.14	18.65	31.06	8.07	Agreeable	<5	0.79	372	34	248	332	63	22	
24	Chandigarh	SAS Nagar		Banur	TW in house owner sh. Kulwant	30.559	76.7	HP	Other Department	MC, EE Pankaj Jain (8427663504)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11.1	0.22	10.99	80.44	8.09	Agreeable	<5	1.26	496	55	288	472	35	49
25	Chandigarh	SAS Nagar		Ghota Mjra	works	30.533	76.824	TW	Other Department	MC Lalru, Gagandeep Singh JE (883789440)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.14	BDL	59.15	8.09	Agreeable	<5	1.88	389	23	152	352	42	12	
26	Chandigarh	Fatehgarh Sahib		Bassi Pathana	TW Owner Sh. Jagdev Singh, H.No. 28, near NHS DW	30.713	76.378	HP	Other Department	1. Municipal Council 2. Sh. Sukhdev Singh 3. Mo. 9988700527	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.64	0.29	28.72	38.86	8.08	Agreeable	<5	0.66	368	16	260	332	55	30
27	Bathinda	Manisa		Bhikhi	Sample collected satta cold filter water front of peizometer	30.07	75.538	TW	Other Department	1. Punjab water supply and sewage board, 2. Er. Lal mittal (SDE) & Sourav jain, JE, 3. 9872730032 & 8847254873.	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.66	4.13	48.71	7.92	Agreeable	2	BDL	151	30	48	100	11	5
28	Bathinda	Manisa		Budhanda	Tubewell in Govt ITI Near Bagwan vikas office premises Budhanda	29.93	75.542	TW	Other Department	1. Punjab water supply and sewage board, 2. Er. Lal mittal (SDE) & Sukhvinder singh (JE), 3. 9872730032 & 9888776152	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.52	0.67	BDL	30	8.11	Disagreeable	3	0.92	2040	120	132	588	30	14
29	Bathinda	Bhatinda		Dera Tappa	Sample Collected From Handpump Beside the Dulwail	30.26	74.936	HP	Other Department	1. PWSSB JE Sh Maninder Singh 9760880615 SDE Sh Bikramjit Singh 869208205 Xen Sh Baljeet Singh 82849 14999 (Area falls under PWSSB)	0.012	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.022	BDL	BDL	22.18	0.16	0.67	41.66	8.12	Agreeable	2	0.7	397	51.9	168	136	33.7	20.4
30	Bathinda	Bhatinda		Phul	Sample collected Bagga Singh (Durgpreet Singh)	30.32	75.07	TW	Other Department	1. Municipal Council Rampura Phul. (Local Bodies) 2. E.O. Rampura Phul. 3. 99154-45019	0.016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20.59	0.68	3.69	52.06	7.18	Agreeable	2	0.9	1192	117.9	468	368	134.7	32.1

Annexure R3

S.No.	Circle	Name of district	Name of block	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Falls under other Department jurisdiction	Details of other Department/Location	Aluminium Heavy Metals (mg/l)	Lead Heavy Metals (mg/l)	Selenium Heavy Metals (mg/l)	Chromium Heavy Metals (mg/l)	Mercury Heavy Metals (mg/l)	Arsenic Heavy Metals (mg/l)	Cadmium Heavy Metals (mg/l)	Nickel Heavy Metals (mg/l)	Iron Heavy Metals (mg/l)	Copper Heavy Metals (mg/l)	Uranium Heavy Metals (ug/l)	Fluoride Anions (mg/l)	Nitrate Anions (mg/l)	Sulphate Anions (mg/l)	pH Basic Chemical	Odour Basic Chemical	Colour Basic Chemical (CU)	Turbidity Basic Chemical (mg/l)	TDS Basic Chemical (mg/l)	Chloride Basic Chemical (mg/l)	Hardness Basic Chemical (mg/l)	Alkalinity Basic Chemical (mg/l)	Calcium Basic Chemical (mg/l)	Magnesium Basic Chemical (mg/l)	
1	Amritsar	Jalandhar		Shahkot	Bharat Petroleum RR Filling Station	31.079	75.33	TW	Other Department	MC Shahkot, Seema Rani 8289008363/ Bharat Petroleum RR Filling Station, Budh Raj, 8837677471	BDL	BDL	0.006	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.76	0.33	98.31	37.04	7.23	Agreeable	1	BDL	450	74.5	359.56	256.1	87.48	34.36	
2	Amritsar	Kapurthala		Kapurthala	Ajit Motor & Garage near Kpurthala	31.369	75.361	TW	Other Department	1. Ajit Motor Garage (Balvir Singh), Mob. 9815029027 2. Municipal Corporation Kapurthala, Anupam Kaler (Commissioner), Mob. 9872997863	BDL	BDL	0.008	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	82.1	0.53	2.72	164.73	7.71	Agreeable	2	0.5	280	19.85	160	190.06	40.08	19.44
3	Amritsar	Kapurthala	Nadala	Bholath	Kalka filling station Kartarpur road Bholath	31.535	75.506	TW	Other Department	Own Source, Charanjit Singh, 9814364132 (Area falls under MC jurisdiction)	BDL	BDL	0.022	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	22.76	0.12	0.59	17.27	7.32	Agreeable	1	0.5	280	24.81	172	186.12	48.49	13.6
4	Amritsar	Amritsar	Ajnala	Ajnala	Near Durgawell Ajnala	31.846	74.756	TW	Other Department	Water supply and sewerage board Ajnala. SDO Deepak Saini 7986904602 JE Gurbhraj Singh 9888515359	BDL	BDL	BDL	0.001	BDL	0.039	BDL	0.001	BDL	0.015	4.978	BDL	1.51	42.8	7.59	Agreeable	1	0.48	284	27.90	252	320	49.69	31.1	
5	Amritsar	Amritsar		Ramdas	From Dugwell in Gurudwara Sahib	31.967	74.917	DW	Other Department	Water supply and sewerage board Ramdas. SDO Deepak Saini 7986904602 JE Shivam Saini, 9592242946	BDL	0.001	BDL	0.001	BDL	0.04	BDL	0.001	BDL	0.016	4.954	BDL	0.73	39.43	7.6	Agreeable	1	0.18	276	21.99	248	300	48.09	31.1	
6	Amritsar	Tarn Taran	Bhakhwind	Bhakhwind	In the Compound of BDPO Office	31.35	74.7	TW	Other Department	Gunwinder Singh (BDPO Office) 97818-04618 Manjit Singh Supervisor MC Bhakhwind 78888-75550	BDL	BDL	0.058	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	65.77	0.45	99.06	192.02	7.36	Agreeable	1	0.1	668	57.98	520	580	96.19	68.04
7	Ludhiana	Patiala		Samana	House of Gurucharan Singh s/o Bahwinder Singh, 400 m	30.146	76.19	TW	Other Department	Water supply and Sewerage board - Arvinder Khurana side 7340917952 - Simran Nava JE 8872696852	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.35	0.78	54	51	7.43			0.43	480	61	304	264	66	34
8	Ludhiana	Ludhiana		Chattar Singh Park	From Indian oil petrol pump (sawan service station) opp preet palace	30.9	75.792	TW	Other Department	Gurcharan Singh, Owner of Petrol Pump M.9815503319 (Own Submersible Pump) (Area under MC jurisdiction)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12.03	0.36	130.42	45.07	7.07	Agreeable	<5	BDL	440	42	336	320	74	37
9	Ludhiana	Ludhiana		Jagraon	Near Bus Stand on Tempu stand Jagron to Sidhwanth road left side Handpump inside military ground	30.775	75.471	HP	Other Department	Own Source (Submersible Pump) of Tempo Union. (Area under MC jurisdiction)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.024	BDL	BDL	24.7	0.61	50.86	20	8.23	Agreeable	<5	2.11	405	79	220	276	43	27
10	Ludhiana	Moga		Nihal Singh Wala	10m from pz same location			TW	Other Department	1.Municipal Committee Nihal Singh Wala 2. Sh. Jasinder Kumar Sharma (Inspector)3. Mob No:7988048736	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	36.66	0.36	13.32	37.72	7.88	Agreeable	1	BDL	795	130	320	372	37	55
11	Sangrur	Barnala		Bahadour	20m from pz same location	30.475	75.324	TW	Other Department	Municipal committee bahadour Sh Ajay Kumar JE 9602395830	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	30.42	0.55	25.51	262.41	7.96	Agreeable	<5	2.04	661	105	212	396	38	28

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S.No.	Circle	Name of district	Name of block	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Falls under other Departmental jurisdiction	Details of other Department/Location	Aluminium Heavy Metals (mg/l)	Lead Heavy Metals (mg/l)	Selenium Heavy Metals (mg/l)	Chromium Heavy Metals (mg/l)	Mercury Heavy Metals (mg/l)	Arsenic Heavy Metals (mg/l)	Cadmium Heavy Metals (mg/l)	Nickel Heavy Metals (mg/l)	Iron Heavy Metals (mg/l)	Copper Heavy Metals (mg/l)	Uranium Heavy Metals (ug/l)	Fluoride Anions (mg/l)	Nitrate Anions (mg/l)	Sulphate Anions (mg/l)	pH Basic Chemical	Odour Basic Chemical	Colour Basic Chemical (CU)	Turbidity Basic Chemical (mg/l)	TDS Basic Chemical (mg/l)	Chloride Basic Chemical (mg/l)	Hardness Basic Chemical (mg/l)	Alkalinity Basic Chemical (mg/l)	Calcium Basic Chemical (mg/l)	Magnesium Basic Chemical (mg/l)	
12	Chandigarh	Nawanshahr		Rahon	HP Owner name: Bhupinder Singh S/o Pyara Singh, Opp. Tailoring shop of Sh. Daljit	31.057	76.136	DW	Other Department	1. Municipal committee Rahon 2. Sh. Rajiv Sareen EO 3. Mob. No. 9815066801	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11.6	0.45	45.74	13.15	7.19	Agreeable	<5	1	510	55	392	296	73.74	50.54
13	Chandigarh	SAS Nagar		Issapur	HP owner sh pawan kumar, opp Shive mandir pipple tree near NHS DW	30.592	76.846	DW	Other Department	MC Derabassi, Tara Chand JE (7888327699)	BDL	BDL	0.005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	243.06	253.93	7.88	Agreeable	<5	0.47	972	159	320	504	42	52
14	Bathinda	Fazilka		Abohar	Johi Mandir handpump	30.15	74.192	HP	Other Department	Department - Municipal corporation ABCHAR, JE - Sumit (9780863452), SDE - Vikram Singh (8699455341), Executive Engineer - Abhinav Jain (7508141800)	BDL	BDL	0.019	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	27.84	1.15	271.15	4468.19	8.25	Agreeable	<5	33	3950	1135	1100	328	160	170
15	Bathinda	Fazilka		Kot Kapura	Handpur Near Crossing of Daru Mal Dharamshala	30.58	74.833	HP	Other Department	1. Punjab Water supply & Sewerage Board, 2. JE - Sukhjeet Singh (9463093993) 3. SDE - Lovakesh kumar (8054018327)	0.041	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	58.15	3.65	29.7	486.73	7.45	Agreeable	<5	BDL	1600	336	432	508	48	76
16	Bathinda	Bhatinda		Kothaguru	Sample Collected from the house in front of NHS station adjacent to Kirana Store, Kotha Guru	30.43	75.1	TW	Other Department	The water sample is taken from own source 1. Bahwinder Singh s/o Mukhtiar Singh 9417548012. (Area falls under NAC jurisdiction)	0.016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	34.56	0.76	1.26	68.09	7.67	Agreeable	2	1.2	1364	177.9	584	428	150.7	50.5

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Annexure R4

S.No.	Circle	Name of district	Name of block	Name of location of CWGB	Name of Phiscal location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Falls under other Departmental jurisdiction	Details of other Department/Location	O&M of Water Supply is with	Surface Water Supply Project
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Amritsar	Jalandhar		Shahkot	Bharat Petroleum R R filling Station	31.079	75.33	TW	Other Department	MC Shahkot, Seema Rani 8289008383/ Bharat Petroleum RR Filling Station, Budh Raj, 8837677471	MC	Under AMRUT 2.0 Tranche 1
2	Amritsar	Kapurthala		Kapurthala	Ajit Motor & Garage near Kpurthala	31.369	75.381	TW	Other Department	1. Ajit Motor Garage (Balvir Singh). Mob. 9815029027 2. Municipal Corporation Kapurthala, Anupam Kaler (Commissioner), Mob. 9872997863	MC	Under AMRUT 2.0 Tranche 2
3	Amritsar	Kapurthala	Nadala	Bholath	Kalka filling station Kartarpur road Bholath	31.535	75.506	TW	Other Department	Own Source, Charanjit Singh, 9814364132 (Area falls under MC jurisdiction)	MC	Under AMRUT 2.0 Tranche 2
4	Amritsar	Amritsar	Ajnala	Ajnala	Near Durgawell Ajnala	31.846	74.758	TW	Other Department	Water supply and sewerage board Ajnala. SDO Deepak Saini 7986904602 JE Gurbhej singh 9888515359	PWSSB	Under AMRUT 2.0 Tranche 1
5	Amritsar	Amritsar		Ramdass	From Dugwell in Gurudwara Sahib	31.967	74.917	DW	Other Department	Water supply and sewerage board Ramdass. SDO Deepak Saini 7986904602 JE Shivam Saini, 9592242946	PWSSB	Under AMRUT 2.0 Tranche 1
6	Amritsar	Tarn Taran	Bhikhiwind	Bhikhiwind	In the Compound of BDPO Office	31.35	74.7	TW	Other Department	Gurwinder Singh (BDPO Office) 97818-04618 Manjit Singh Supervisor MC Bhikhiwind 78888-75550	MC	Under AMRUT 2.0 Tranche 1
7	Ludhiana	Patiala		Samana	House of Gurucharan singh s/o Balwinder singh, 400 m	30.146	76.19	TW	Other Department	water supply and Sewerage board - Arvinder khurana sde 7340917952 - Simran Nava JE 8872596852	PWSSB	Under AMRUT 2.0 Tranche 1
8	Ludhiana	Ludhiana		Chattar Singh Park	From Indian oil petrol pump (sarwan service station) opp preet palace)	30.9	75.792	TW	Other Department	Gurcharan Singh, Owner of Petrol Pump M.9815503319 (Own Submersible Pump) (Area under MC jurisdiction)	MC	Under World Bank Project
9	Ludhiana	Ludhiana		Jagraon	Near Bus Stand on Tampu stand Jagraon to Sidhwanbet road left side Handpump inside military ground	30.775	75.471	HP	Other Department	Own Source (Submersible Pump) of Tempo Union. (Area under MC jurisdiction)	MC	Under AMRUT 2.0 Tranche 1
10	Ludhiana	Moga		Nihal Singh Wala	10m from pz same location			TW	Other Department	1.Municipal Committee Nihal Singh Wala 2.Sh Jatinder Kumar Sharma (Inspector)3. Mob No:7986049736	MC	Under AMRUT 2.0 Tranche 1

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Annexure R4

S.No.	Circle	Name of district	Name of block	Name of location of CWGB	Name of Phiscal location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Falls under other Departmental jurisdiction	Details of other Department/Location	O&M of Water Supply is with	Surface Water Supply Project
1	2	3	4	5	6	7	8	9	10	11	12	13
11	Sangrur	Barnala		Bahadaur	20m from pz same location	30.475	75.324	TW	Other Department	Municipal committee bahadaur Sh Ajay Kumar JE 9602395830	PWSSB	Under AMRUT 2.0 Tranche 2
12	Chandigarh	Nawanshah ar		Rahon	HP Owner name: Bhupinder Singh S/o Pyara singh, Opp. Tailoring shop of Sh. Daljit	31.057	76.136	DW	Other Department	1. Municipal committee Rahoan 2. Sh. Rajiv Sareen EO 3. Mob. No. 9815066801	MC	Under AMRUT 2.0 Tranche 1
13	Chandigarh	SAS Nagar		Issapur	HP owner sh pawan kumar, opp Shive mandir pippel tree near NHS DW	30.592	76.846	DW	Other Department	MC Derabassi, Tara Chand JE (7888327699)	MC	Under AMRUT 2.0 Tranche 2
14	Bathinda	Fazilka		Abohar	Johri Mandir handpump	30.15	74.192	HP	Other Department	Department - Municipal corporation ABOHAR, JE - Sumit (9780863452), SDE - Vikram Singh (8699455341), Executive Engineer Abhinav Jain (7508141800)	MC	Already Existing
15	Bathinda	Faridkot		Kot Kapura	Handpur Near Crossing of Daru Mal Dharamshala	30.58	74.833	HP	Other Department	1.Punjab Water supply & Sewerage Board, 2.JE- Sukhjeet Singh(9463093993) 3.SDE- Lovekesh kumar(8054018327)	PWSSB	Already Existing
16	Bathinda	Bhatinda		Kothaguru	Sample Collected from the house in front of NHS station adjacent to Kirana Store, Kotha Guru	30.43	75.1	TW	Other Department	The water sample is taken from own source 1. Balwinder Singh s/o Mukhtiar Singh 9417548012. (Area falls under NAC jurisdiction)	MC	Under AMRUT 2.0 Tranche 1


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Annexure R-9

List of 18 habitaitions where Mitigation Measure have already taken (Compliance report by CE's)

Data provided by CGWB								Data filled by DWSS						Scheme Source	Mitigation Status	Remarks
Sr No.	Sr. no. as per google sheet	Name of disrict	Name of location of CWGB	Name of Phiscal location of CWGB	Latitud e of CGWB source	Longit ute of CGWB source	Type of source of CGWB	Name of division as per DWSS	Name of block as per DWSS	Name of location of CWGB	Name of Scheme/ Habitation as per DWSS	Village Id	Type of source of DWSS			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	34	Amritsar	Urdhan	Near to water works Urdhan	74.866	31.879	TW	Amritsar, Div-1	Ajnala	Urdhan	Urdhan	2750	Tubewell	DWSS Scheme	AIRP, RO Plant	Potable water @ 70 LPCD is being provided through AIRP Plants
2	35	Amritsar	Gaggo Mahal	In the Premises of Vet Hospital	74.667	31.9	TW	Amritsar, Div-1	Ajnala	Gaggo Mahal	Gaggo mahal	2643	Tubewell	DWSS Scheme	CWPP, SWP- Kandowall	Potable water for drinking purposes is being provided through CWPP Plant and SWP is under progress
3	44	Tarn taran	Goindwal Sahib	Sample from Gurudwara Goindwal Sahib	75.144	31.365	TW	Tarn Taran no. - 2	Khadoor Sahib	Goindwal Sahib	Goindwal Sahib	3145	Tubewell	DWSS Scheme	RO Plant	Potable water for drinking purposes is being provided through RO Plant
4	87	Patiala	Thuha	In House of Malkeet Singh Near pani ki tanki close to Udham singh Dharamhala	30.5	76.554	TW	Rajpura	Shambhu Kalan	Thuha	P	12051	Tubewell	DWSS Scheme	CWPP, SWP- MANDOULI	Potable water for drinking purposes is being provided through CWPP Plant and SWP is under progress.
5	89	Patiala	Kami Kalan	In front of pz at kami Bhatla	30.378	76.679	HP	Rajpura	Ghanaur	Kami Kalan	Kami kalan	11840	Tubewell	DWSS Scheme	CWPP, SWP- MANDOULI	Potable water for drinking purposes is being provided through CWPP Plant and SWP is under progress.
6	90	Patiala	Lacharu	In front of House of Nakshatra singh s/o puran signh, 100 m from DW	30.345	76.642	HP	Rajpura	Ghanaur	Lacharu	Lachru Kalan	11850	Tubewell	DWSS Scheme	CWPP, SWP- MANDOULI	Potable water for drinking purposes is being provided through CWPP Plant and SWP is under progress.

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Data provided by CGWB								Data filled by DWSS						Scheme Source	Mitigation Status	Remarks
Sr No.	Sr. no. as per google sheet	Name of district	Name of location of CWGB	Name of Phiscal location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of division as per DWSS	Name of block as per DWSS	Name of location of CWGB	Name of Scheme/Habitation as per DWSS	Village Id	Type of source of DWSS			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
7	142	Sangrur	Bugra	From Gurudwara Baba labh singh on dhuli Barnala road	30.286	75.761	TW	Malerkotla	Dhuri	Bugra	Bugra	11322	Tubewell	DWSS Scheme	RO Plant	Potable water for drinking purposes is being provided through RO Plant
8	202	Ropar	Chak Dehra	TW Atwal Service (Washing) Centre	31.042	76.533	HP	Ropar	Roopnagar	Chak Dehra	Miani	6911	Tubewell	DWSS Scheme	AIRP	Potable water @ 70 LPCD is being provided through AIRP Plants
9	224	Fatehgarh Sahib	Chunni Kalan	Kirana store	30.715	76.494	TW	Fatehgarh Sahib	Khera	Chunni Kalan	Chunni Kalan	8064	Tubewell	DWSS Scheme	RO Plant, WTP NANOWAL	Potable water for drinking purposes is being provided through RO Plant and SWP is under progress
10	226	Fatehgarh Sahib	Bhangrana	TW of shivan vaishno dhaba Adjacent of Royal Dhaba & Time milk plant, opp sethi dhaba	30.611	76.578	HP	Fatehgarh Sahib	Khera	Bhangrana	Bhangrana	8054	Tubewell	DWSS Scheme	RO Plant, WTP NANOWAL	Potable water for drinking purposes is being provided through RO Plant and SWP is under progress
11	305	Fazilka	Deepulana	Near bus stand chowk dipuwala Sarpanch Resham singh s/o Kehar singh	30.45	74.099	TW	Fazilka	Fazilka	Deepulana	Dipulana	9854	Tubewell	DWSS Scheme	RO Plant, SWP-Ghattian Wala Bodla	Potable water for drinking purposes is being provided through RO Plant
12	97	Patiala	Lohakheri	In the Premises & Gurudwara in front of pz	30.409	76.586	TW	Rajpura	Ghanaur	Lohakheri	Lohakheri	11855	Tubewell	DWSS Scheme	CWPP, SWP-MANDOLI	Potable water for drinking purposes is being provided through CWPP Plant and SWP is under progress.
13	96	Patiala	Bir Kauli	In front of pz at Indian oil petrol pump gopal kauli oil company	30.414	76.514	TW	Rajpura	Sanour	Bir Kauli	Bir Kauli	11698	Tubewell	DWSS Scheme	SWP-MANDOLI, ATM RO Plant	Potable water for drinking purposes is being provided through ATM RO Plants and SWP is under progress

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Data provided by CGWB								Data filled by DWSS						Scheme Source	Mitigation Status	Remarks
Sr No.	Sr. no. as per google sheet	Name of district	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Name of division as per DWSS	Name of block as per DWSS	Name of location of CWGB	Name of Scheme/Habitation as per DWSS	Village Id	Type of source of DWSS			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
14	101	Patiala	Rajgarh	Inside Co-operative Society Adjoining Seva Kendra 50 m from pz	30.416	76.732	TW	Rajpura	shambhu kalan	Rajgarh	Rajgarh	11881	Tubewell	DWSS Scheme	SWP-MANDOULI, ATM RO Plant	Potable water for drinking purposes is being provided through ATM RO Plants and SWP is under progress
15	123	Ludhiana	Begowal	In side Gurudwara same Location as pz	30.817	76.056	HP	Khanna	Doraha	Begowal	Begowal	9065	Tubewell	DWSS Scheme	RO Plant	Potable water for drinking purposes is being provided through RO Plant
16	124	Ludhiana	Doraha	Inside Rest House Same Location as pz	30.8	76.021	HP	khanna	Doraha	Doraha	Begowal	9065	Tubewell	DWSS Scheme	RO Plant	Potable water for drinking purposes is being provided through RO Plant
17	320	Faridkot	Deepsingwala	Handpump of Bus Stand near Punjab & Sind Bank & ATM	30.74	74.479	HP	Faridkot	Faridkot	Deepsingwala	Deep Singh Wala/Deep Singh wala	13168	Tubewell	Tubewell	RO Plant	Scheme is Non Functional and Potable water is being provided through RO Plant
18	113	Patiala	Sangatpura	Same location within Premises	30.342	76.225	SB	Patiala, Div-1	Nabha	Sangatpura	Sangatpura	12241	Tubewell	TUBEWELL	Water Tanker	Potable water for drinking purposes is being provided through Water Tankers.


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Punjab Water Supply and Sewerage Board
Plot No. 1-B, Sector 27 A, Chandigarh

To

Chief Engineer (North)-cum
 Advisor Water Quality,
 Department of Water Supply and Sanitation,
 Phase-II, SAS Nagar.

No. PWSSB/Q.C/2024 8543

Dated 9/5/24

Sub:-

Compliance of orders date 19.03.2024 by Hon'ble NGT in OA No. 676 of 2023.

Ref:-

Your Memo No.DWSS/2024/42 dated 08.05.2024.

In context to your above said subject and reference, it is submitted that the compliance report is a follows:

1. The Department of Water Supply & Sanitation shared a list of 46 sampling sites along with their latitude / longitudes through vide DO letter SS/PSWSS/2024/1064 dated 07.05.2024. The list of 46 Water Quality Stations provided by Department of Water Supply & Sanitation is annexed herewith as **Annexure R-1**.
2. That the samples of drinking water source at these 46 locations were got collected and got analyzed in NABL accredited laboratories of DWSS. These tests were conducted for 24 parameters based upon physiochemical parameters and heavy metals parameters prescribed for the purpose of drinking water as per IS 10500: 2012 (Rev 2). The test results reveal that the Water Quality in 30 locations is within the permissible limits prescribed for drinking purposes. The details of test results of 30 locations are annexed as **Annexure- R-2**. However 16 locations have been found contaminated with various parameters. Mitigation measures have been taken in 16 contaminated locations, the potable water is being provided by the committee/Corporations through water tankers. The details in respect of these 16 locations are annexed as **Annexure R-3**. Moreover test report of 46 locations also uploaded on Google sheet shared by your good office.
3. It is informed that vide this office letters dated 09.05.2024, directions has been issued to concerned officer to ensure the obedience of Hon'ble NGT order dated 19.3.2024 in the case of 16 locations where portable water was found "unfit for drinking purposes". The officers has also beer directed to motivate the users for portable water from other department sources/tankers. Moreover regarding these 16 locations, the 2 locations (Abohar and Kotakpura) department are already sup surface water. At 1 No. location (Chatter Singh park, Ludhiana) Surface



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Water Supply Project, under World Bank scheme is in process. On 9 locations (Shahkot, Ajnala, Ramdass, Bhikhiwind, Samana, Jagraon, Nihal Singh Wala, Rahon and Kothaguru) Surface Water Supply Projects are under AMRUT 2.0 (Tranche 1) and on balance 4 locations (Kapurthala, Bhulath, Balachaur and Issapur) Surface Water Supply Projects under AMRUT 2.0 (Tranche 2) are already under process. The details are annexed at **Annexure R-4**.


Engineer-in-Chief cum
Technical Advisor
Punjab W/s and Sew. Board


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Punjab Pollution Control Board
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Annexure R4

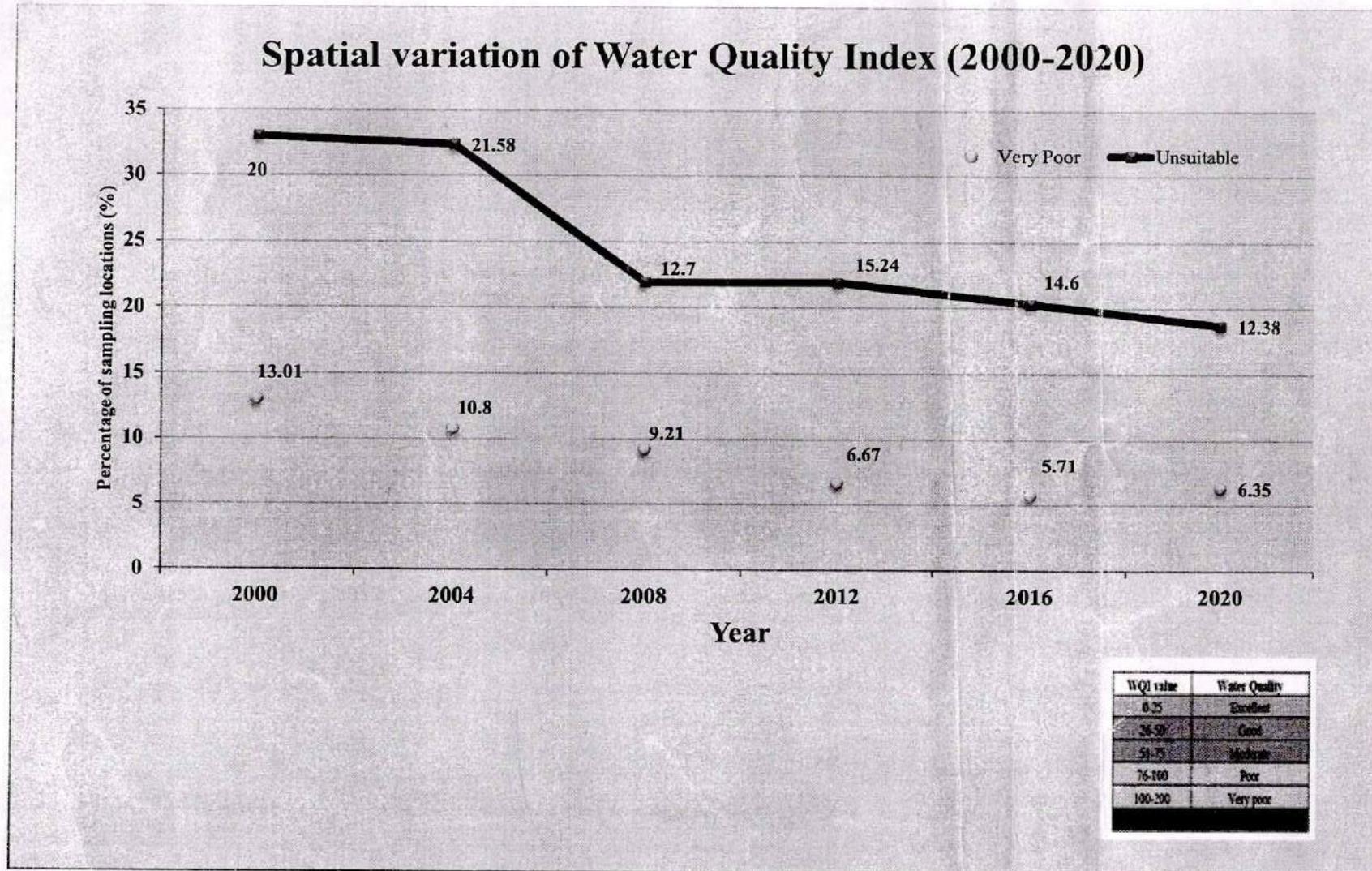
S.No.	Circle	Name of district	Name of block	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Falls under other Departmental jurisdiction	Details of other Department/Location	O&M of Water Supply is with	Surface Water Supply Project
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Amritsar	Jalandhar		Shahkot	Bharat Petroleum R R filling Station	31.079	75.33	TW	Other Department	MC Shahkot, Seema Rani 8289008383/ Bharat Petroleum RR Filling Station, Budh Raj, 8837677471	MC	Under AMRUT 2.0 Tranche 1
2	Amritsar	Kapurthala		Kapurthala	Ajit Motor & Garage near Kpurthala	31.369	75.381	TW	Other Department	1. Ajit Motor Garage (Balvir Singh), Mob. 9815029027 2. Municipal Corporation Kapurthala, Anupam Kaler (Commissioner), Mob. 9872997863	MC	Under AMRUT 2.0 Tranche 2
3	Amritsar	Kapurthala	Nadala	Bholath	Kalka filling station Kartarpur road Bholath	31.535	75.506	TW	Other Department	Own Source, Charanjit Singh, 9814364132 (Area falls under MC jurisdiction)	MC	Under AMRUT 2.0 Tranche 2
4	Amritsar	Amritsar	Ajnala	Ajnala	Near Durgawell Ajnala	31.846	74.758	TW	Other Department	Water supply and sewerage board Ajnala, SDO Deepak Saini 7986904602 JE Gurbhej singh 9888515359	PWSSB	Under AMRUT 2.0 Tranche 1
5	Amritsar	Amritsar		Ramdas	From Dugwell in Gurudwara Sahib	31.967	74.917	DW	Other Department	Water supply and sewerage board Ramdass, SDO Deepak Saini 7986904602 JE Shivam Saini, 9592242946	PWSSB	Under AMRUT 2.0 Tranche 1
6	Amritsar	Tarn Taran	Bhikhiwind	Bhikhiwind	In the Compound of BDPO Office	31.35	74.7	TW	Other Department	Gurwinder Singh (BDPO Office) 97818-04618 Manjit Singh Supervisor MC Bhikhiwind 78888-75550	MC	Under AMRUT 2.0 Tranche 1
7	Ludhiana	Patiala		Samana	House of Gurucharan singh s/o Balwinder singh, 400 m	30.146	76.19	TW	Other Department	water supply and Sewerage board - Arvinder khurana sde 7340917952 - Simran Nava JE 8872596852	PWSSB	Under AMRUT 2.0 Tranche 1
8	Ludhiana	Ludhiana		Chattar Singh Park	From Indian oil petrol pump (sarwan service station) opp preet palace)	30.9	75.792	TW	Other Department	Gurcharan Singh, Owner of Petrol Pump M.9815503319 (Own Submersible Pump) (Area under MC jurisdiction)	MC	Under World Bank Project
9	Ludhiana	Ludhiana		Jagraon	Near Bus Stand on Tampu stand Jagraon to Sidhwanbet road left side Handpump inside military ground	30.775	75.471	HP	Other Department	Own Source (Submersible Pump) of Tempo Union. (Area under MC jurisdiction)	MC	Under AMRUT 2.0 Tranche 1
10	Ludhiana	Moga		Nihal Singh Wala	10m from pz same location			TW	Other Department	1.Municipal Committee Nihal Singh Wala 2.Sh Jatinder Kumar Sharma (Inspector)3. Mob No:7986049736	MC	Under AMRUT 2.0 Tranche 1

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Annexure R4

S.No.	Circle	Name of district	Name of block	Name of location of CWGB	Name of Physical location of CWGB	Latitude of CGWB source	Longitude of CGWB source	Type of source of CGWB	Falls under other Departmental jurisdiction	Details of other Department/Location	O&M of Water Supply is with	Surface Water Supply Project
1	2	3	4	5	6	7	8	9	10	11	12	13
11	Sangrur	Barnala		Bahadaur	20m from pz same location	30.475	75.324	TW	Other Department	Municipal committee bahadaur Sh Ajay Kumar JE 9602395830	PWSSB	Under AMRUT 2.0 Tranche 2
12	Chandigarh	Nawanshahar		Rahon	HP Owner name: Bhupinder Singh S/o Pyara singh, Opp. Tailoring shop of Sh. Daljit	31.057	76.136	DW	Other Department	1. Municipal committee Rahoon 2. Sh. Rajiv Sareen EO 3. Mob. No. 9815066801	MC	Under AMRUT 2.0 Tranche 1
13	Chandigarh	SAS Nagar		Issapur	HP owner sh pawan kumar, opp Shive mandir pipple tree near NHS DW	30.592	76.846	DW	Other Department	MC Derabassi, Tara Chand JE (7888327699)	MC	Under AMRUT 2.0 Tranche 2
14	Bathinda	Fazilka		Abohar	Johri Mandir handpump	30.15	74.192	HP	Other Department	Department - Municipal corporation ABOHAR, JE - Sumit (9780863452), SDE - Vikram Singh (8699455341), Executive Engineer Abhinav Jain (7508141800)	MC	Already Existing
15	Bathinda	Faridkot		Kot Kapura	Handpur Near Crossing of Daru Mal Dharamshala	30.58	74.833	HP	Other Department	1. Punjab Water supply & Sewerage Board, 2. JE- Sukhjeet Singh (9463093993) 3. SDE- Lovekesh kumar (8054018327)	PWSSB	Already Existing
16	Bathinda	Bhatinda		Kothaguru	Sample Collected from the house in front of NHS station adjacent to Kirana Store, Kotha Guru	30.43	75.1	TW	Other Department	The water sample is taken from own source 1. Balwinder Singh s/o Mukhtiar Singh 9417548012. (Area falls under NAC jurisdiction)	MC	Under AMRUT 2.0 Tranche 1

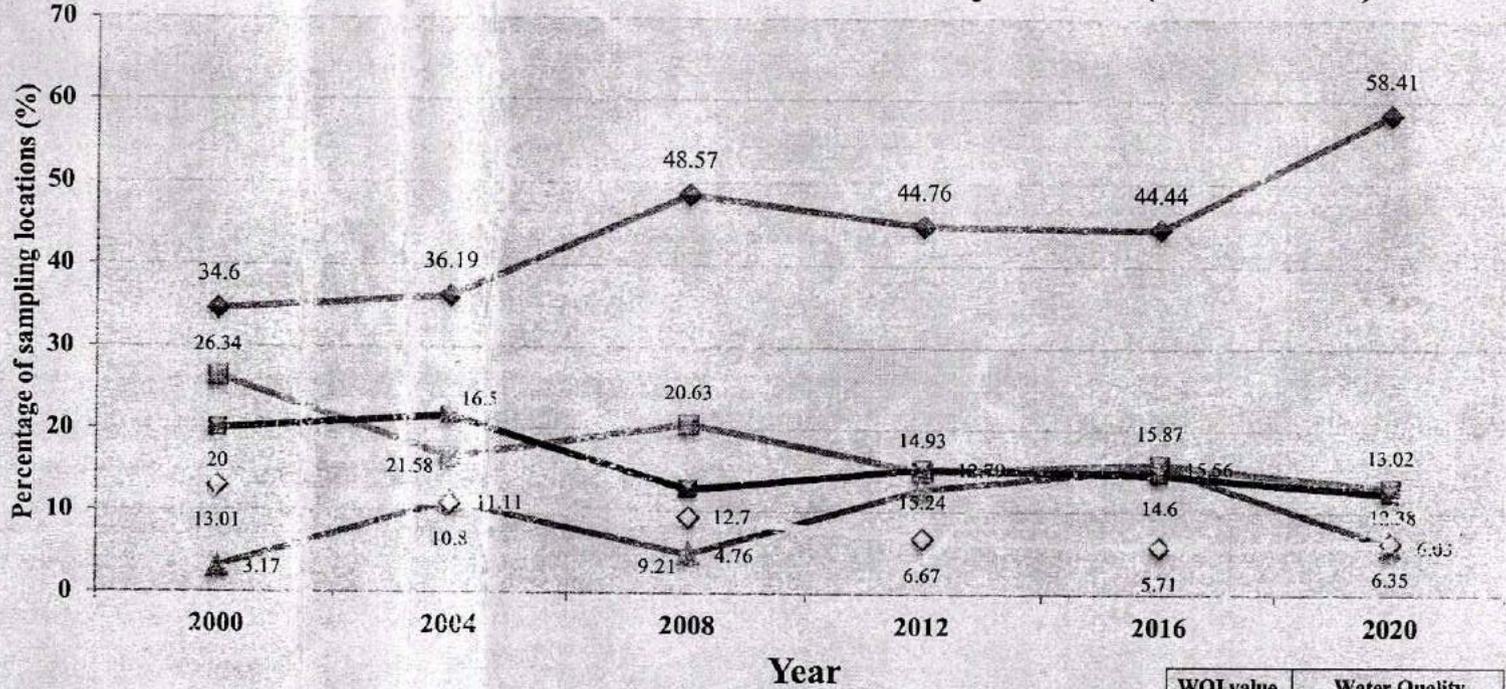

 Member Secretary
 Punjab Pollution Control Board
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Spatial variation of Water Quality Index (2000-2020)



—◆— Excellent
—◆— Good
—◆— Poor
—◆— Very Poor
—◆— Unsuitable

WQI value	Water Quality
0-25	Excellent
26-50	Good
51-75	Moderate
76-100	Poor
100-200	Very poor

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