

17
**BEFORE THE NATIONAL GREEN TRIBUNAL
EASTERN ZONE BENCH, KOLKATA**

Original Application No.187/2025/EB
(Earlier Original Application No.479/2025/PB)

News Item titled "Alarming levels of fluoride contamination found in surface water of Arunachal Pradesh raising health concerns" appearing in Down to Earth dated 26.08.2025

INDEX

Sl. No.	Particulars	Page no.
1.	Affidavit on behalf of Respondent No.2 Arunachal Pradesh State Pollution Control Board (APSPCB)	1 & 2
2.	Annexure – A (NABL Certificate of Envirocon, Digboi, Assam – Collected the water samples)	3
3.	Annexure – B (Report on Surface Water Quality by APSPCB)	4 to 6
4.	Annexure – C (Report on Surface Water Quality of Sangetsar Lake, Tawang district)	7
5.	Annexure – D (Report on Surface Water Quality of Inlet point of water supply to Tawang Town, Tawang district)	8
6.	Annexure – E (Report on Surface Water Quality of Main drain outlet of Tawang Town, Old Market, Tawang district)	9
7.	Annexure – F (Report on Surface Water Quality of Main drain outlet of Tawang Town, Location-2, Tawang district)	10
8.	Annexure – G (Report on Surface Water Quality of River near Jang Waterfall, Tawang district)	11
9.	Annexure – H (Report on Surface Water Quality of Sela Lake, Tawang district)	12
10.	Photo 1 & 2 of sample collection from Sangetsar Lake, Tawang district	13 &14
11.	Photo 3 & 4 of sample collection from Inlet point of water supply to Tawang Town, Tawang district	15 &16
12.	Photo 5 & 6 of sample collection from Drain outlet of Tawang Town, Old Market, Tawang district	17 &18
13.	Photo 7 & 8 of sample collection from Drain outlet of Tawang Town, Location-2, Tawang district	19 & 20
14.	Photo 9 & 10 of sample collection from River near Jang Water Fall, Tawang district	21 & 22
15.	Photo 11 & 12 of sample collection from Sela Lake, Tawang district	23 & 24

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Assistant Commissioner
Itanagar Capital Complex
Naharlagun


Member Secretary
State Pollution Control Board
Naharlagun, A.P.

**BEFORE THE NATIONAL GREEN TRIBUNAL
EASTERN ZONE BENCH, KOLKATA**
Original Application No.187/2025/EB
(Earlier Original Application No.479/2025/PB)

News Item titled "Alarming levels of fluoride contamination found in surface water of Arunachal Pradesh raising health concerns" appearing in Down to Earth dated 26.08.2025.

Affidavit on behalf of Respondent No.2 (Arunachal Pradesh State Pollution Control Board) in compliance of Hon'ble National Green Tribunal, PB order dated 17.09.2025 and Hon'ble National Green Tribunal, EB order dated 11.11.2025.

1. I, Shri D. Dohu Robin, S/o Late Dohu Tania aged about 51 years and having office at Arunachal Pradesh State Pollution Control Board (APSPCB), Paryavaran Bhawan, Papu Hill, Yupia Road, Naharlagun, Arunachal Pradesh, the deponent herein, do hereby solemnly affirm and state as follows.
2. That I, in the capacity of Member Secretary of the Arunachal Pradesh State Pollution Control Board, am fully conversant with the facts of the case on the basis of the records made available in the office and hence competent and authorized to depose and swear the present Reply Affidavit as under.
3. The present Affidavit is being filed in pursuance and compliance of the directions issued by Hon'ble National Green Tribunal, PB order dated 17.09.2025 and Hon'ble National Green Tribunal, EB order dated 11.11.2025, wherein it is required to file an affidavit on the fluoride concentration in surface water bodies of Tawang district, Arunachal Pradesh.
4. The Arunachal Pradesh State Pollution Control Board has outsourced the task for collection and analysis of surface water samples from six different locations in Tawang district was entrusted to environmental consultant ENVIROCON, Digboi which has a certification from National Accreditation Board for Testing and Calibration Laboratories. Copy of NABL Certificate is enclosed as **Annexure – A** for kind perusal.
5. As per the analysis reports, the fluoride concentration of all the six locations is within the permissible limit (1.5 mg/l) which is in contrary to the high level of fluoride concentrations reported by DRDO, NERIST and other researchers, as reflected in the report published by 'Down To Earth' magazine dated 26.08.2025.

Copy of the report on water quality of Tawang district is enclosed as **Annexure – B** for kind perusal.


Assistant Commissioner
Itanagar Capital Complex
Naharlagun


(D. Dohu Robin)
Member Secretary
State Pollution Control Board
Naharlagun, A.P.

VERIFICATION

I, the deponent above named, do hereby verified at Naharlagun on this 08/ 12 /2025 that the contents of my reply affidavit are true and correct to the best of my knowledge and belief. No part of the same is false and nothing material has been concealed therefrom.



DEPONENT
(D. Dohu Robin)
Member Secretary

Member Secretary
State Pollution Control Board
Naharlagun, A.P.



10/12/25
Assistant Commissioner
Itanagar Capital Complex
Naharlagun



National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

ENVIROCON

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

DIGBOI STORES BUILDING, DIGBOI, TINSUKIA, ASSAM, INDIA

in the field of

TESTING

Certificate Number: TC-15284

Issue Date: 11/01/2025

Valid Until: 10/01/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: ENVIROCON (ENVIRONMENTAL & POLLUTION MONITORING)

Signed for and on behalf of NABL



Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

Member Secretary
State Pollution Control Board
Naharlagun, A.P.

ARUNACHAL PRADESH STATE POLLUTION CONTROL BOARD
PARYAVARAN BHAWAN, PAPU HILL, YUPIA ROAD
NAHARLAGUN

REPORT ON WATER QUALITY OF TAWANG DISTRICT, ARUNACHAL PRADESH IN THE MATTER OF ORIGINAL APPLICATION NO.187/2025(EZ) (EARLIER O.A. NO. 479/2025 (PB)).

News Item titled "Alarming levels of fluoride contamination found in surface water of Arunachal Pradesh raising health concerns" appearing in Down to Earth dated 26.08.2025

Introduction:

The Original Application (O.A.) No. 479/2025 was initiated on Suo Moto by the Hon'ble Principal Bench of the National Green Tribunal (NGT) following a news article published in 'Down to Earth' magazine on August 26, 2025, titled "Fluoride contamination in Arunachal Pradesh's surface water sparks health concerns". The case was later transferred to the Eastern Zone of NGT as per the Principal Bench's order dated September 17, 2025, and re-designated as O.A. No. 187/2025(EZ).

The original application highlights alarming fluoride levels in surface water bodies in Tawang district, Arunachal Pradesh, based on reports from the Defense Research Development Organization (DRDO), Tezpur, which detected fluoride concentrations up to 21.86 mg/l in 2022. Further, the North Eastern Regional Institute of Science and Technology (NERIST), Itanagar reported fluoride levels of 7.11 mg/l at Sangetser lake in 2024.

The Arunachal Pradesh State Pollution Control Board (APSPCB) has been named as Respondent No. 2, and is required to submit a response through affidavit.

Sampling and Field Visit:

The APSPCB has outsourced the NABL Accredited environment consultant for conducting samples collection of surface water quality of Tawang district from six different locations namely (1) Sangetsar lake (2) Inlet point of water supply to Tawang town (3) Stream - main drain Outlet of Tawang town (location-1) (4) Stream - main drain Outlet of Tawang town (location 2) (5) River near Jang waterfall and (6) Sela Lake.

The parameters analyzed are (1) Turbidity (2) pH (3) Conductivity (4) Total Dissolved Solids (5) Total Suspended Solids (6) Biochemical Oxygen Demand (7) Chemical Oxygen Demand (8) Calcium (as Ca) (9) Magnesium (as Mg) (10) Chloride (as Cl) (11) Sulfate (as SO₄) (12) Total Hardness (as CaCO₃) (13) Flourides (as F) (14) Nitrate


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(as NO₃) (15) Potassium (as K) (16) Iron (as Fe) (17) Copper (as Cu) (18) Manganese (as Mn) (19) Zinc (as Zn) (20) Nickel (as Ni) (21) Total Chromium (as Cr).

A team from ENVIROCON, Digboi, Assam, conducted a sampling exercise to collect water samples from various locations in Tawang District. The sampling exercise revealed that the Public Health Engineering Department (PHED), Govt. of Arunachal Pradesh, supplies treated water to residential areas, commercial establishments, and government agencies, including the SSB and Indian Army. The PHED operates a water filtration system that treats spring water before distribution. A raw water samples were collected to analyze fluoride levels and other important parameters in the untreated water.

The fluorides analysis result (under serial no.13 in the report) for all the samples collected from different location is tabulated below :

Table 1: Fluoride Concentration results

Sl.	Sample Location	Date of Sampling	Fluoride Conc. (mg/l) (Permissible Limit – 1.5 mg/l)	Annexure
1.	Sangetsar Lake (N 27.722009°, E 91.8270876°), Photo 1 & 2	01.11.2025	0.1	Annexure – C
2.	Inlet point of water supply to Tawang Town (N 27.617618°, E 91.845994°), Photo 3 & 4	02.11.2025	0.1	Annexure – D
3.	Main drain outlet of Tawang Town (Old Market) (N 27.595206°, E 91.870594°), Photo 5 & 6	02.11.2025	0.2	Annexure – E
4	Main drain outlet of Tawang Town (Location -2) (N 27.585382°, E 91.877055°), Photo 7 & 8	02.11.2025	0.1	Annexure – F
5	River near Jang Waterfall (N 27.589755°, E 91.982256°), Photo 9 & 10	02.11.2025	0.1	Annexure – G
6	Sela Lake (N 27.511316°, E 91.097816°), Photo 11 & 12	03.11.2025	0.1	Annexure - H

Testing method: IS-3025 (Part 60).


Assistant Commissioner
Itanagar Capital Complex
Naharlagun


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State Pollution Control Board
Naharlagun, A.P.

Remark:

According to the analysis report, fluoride levels in the lakes, rivers, and drains across the six sampled locations range from 0.1 mg/l to 0.2 mg/l, are well within the permissible limit of 1.5 mg/l. These findings contrast with earlier reports of high fluoride concentrations documented by DRDO, NERIST, and other researchers, as highlighted in the Down To Earth Magazine issue dated 26/08/2025. The other parameters values are also within the permissible limit.



(D. Dohu Robin)

Member Secretary

Member Secretary
State Pollution Control Board
Naharlagun, A.P.



14/12/2025
Assistant Commissioner
Itanagar Capital Complex
Naharlagun

TEST REPORT

ULR No.	TC1528425000000030F		
Report No.	ENV/TR/25-26/SW-01	Issue Date	10/11/2025
Order No.	E-mail	Order Date	29/10/2025
Report Issued To	ARUNACHAL PRADESH STATE POLLUTION CONTROL BOARD Paryavaran Bhawan, Yupia Raod, Papu Hills, Naharlagun, Arunachal Pradesh		

Sample Ref. No. :	APSPCB/W-251101/01		
Sample Type# :	Surface Water	Sample Quantity :	2000 ml
Sample Source# :	Sangetsar Lake		
Date & Time of Sampling:	01.11.2025, 01:09 PM	Date & Time of Sample Receipt :	05.11.2025, 10:30 PM
Environmental Conditions During Sampling :	T- 15°C	Sampling Plan/Sampling Method :	ENV/SOP/W-01
Instrument Used for Sampling :	PE Bottle	Sampled By :	Bidyut Dutta, Envirocon
Analysis Start Date :	05.11.2025	Analysis End Date :	10.11.2025

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
Discipline / Group : Chemical / Water						
1.	Turbidity	IS 3025 (Part 10)	1	NTU	1	5
2.	pH	IS 3025 (Part 11)	6.51 at 25.8°C	-	6.5 - 8.5	No Relaxation
3.	Conductivity	IS 3025 (Part 14)	89	µS/cm	NA	NA
4.	Total Dissolved Solids	IS 3025 (Part 16)	84	mg/l	500	2000
5.	Total Suspended Solids	IS 3025 (Part 17)	7.6	mg/l	NA	NA
6.	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 (Part 44)	2	mg/l	NA	NA
7.	Chemical Oxygen Demand	IS 3025 (Part 58)	32	mg/l	NA	NA
8.	Calcium (as Ca)	IS 3025 (Part 40)	14	mg/l	75	200
9.	Magnesium (as Mg)	IS 3025 (Part 46)	5.3	mg/l	30	100
10.	Chloride (as Cl)	IS 3025 (Part 32)	2.0	mg/l	250	1000
11.	Sulfate (as SO ₄)	IS 3025 (Part 24)	1.0	mg/l	200	400
12.	Total Hardness, (as CaCO ₃)	IS 3025 (Part 21)	58	mg/l	200	600
13.	Fluorides (as F)	IS 3025 (Part 60)	BLQ[LOQ=0.1]	mg/l	1.0	1.5
14.	Nitrate (as NO ₃)	IS 3025 (Part 34)	BLQ[LOQ=1.0]	mg/l	45	No Relaxation
15.	Potassium (as K)	IS 3025 (Part 45)	BLQ[LOQ=0.1]	mg/l	NA	NA
Discipline / Group : Chemical / Residues in Water						
16.	Iron (as Fe)	IS 3025 (Part 53)	0.02	mg/l	0.3	No Relaxation
17.	Copper (as Cu)	IS 3025 (Part 42)	BLQ[LOQ=0.01]	mg/l	0.05	1.5
18.	Manganese (as Mn)	IS 3025 (Part 59)	BLQ[LOQ=0.1]	mg/l	0.1	0.3
19.	Zinc (as Zn)	IS 3025 (Part 49)	BLQ[LOQ=0.01]	mg/l	5.0	15
20.	Nickel (as Ni)	IS 3025 (Part 54)	BLQ[LOQ=0.001]	mg/l	0.02	No Relaxation
21.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BLQ[LOQ=0.001]	mg/l	0.05	No Relaxation

NA: Not Applicable, BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Information provided by the customer for which laboratory has no control.

* Limits as per IS 10500:2012.

*****End of Report*****

Authorized Signatory: Mr. Pankaj Baroi (Director)

Assistant Commissioner
 Capital Complex



Page 1 of 1

Member Secretary
 State Pollution Control Board
 Naharlagun, A.P.

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Rev. No.: 00

TEST REPORT

ULR No.	TC1528425000000031F		
Report No.	ENV/TR/25-26/SW-02	Issue Date	10/11/2025
Order No.	E-mail	Order Date	29/10/2025
Report Issued To	ARUNACHAL PRADESH STATE POLLUTION CONTROL BOARD Paryavaran Bhawan, Yupia Raod, Papu Hills, Naharlagun, Arunachal Pradesh		

Sample Ref. No.:	APSPCB/W-251102/01		
Sample Type#:	Surface Water	Sample Quantity:	2000 ml
Sample Source#:	Inlet Point of Water Supply to Tawang Town		
Date & Time of Sampling:	02.11.2025, 09:41 AM	Date & Time of Sample Receipt:	05.11.2025, 10:30 PM
Environmental Conditions During Sampling:	T- 13°C	Sampling Plan/Sampling Method:	ENV/SOP/W-01
Instrument Used for Sampling:	PE Bottle	Sampled By:	Bidyut Dutta, Envirocon
Analysis Start Date:	05.11.2025	Analysis End Date:	10.11.2025

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
Discipline / Group : Chemical / Water						
1.	Turbidity	IS 3025 (Part 10)	2	NTU	1	5
2.	pH	IS 3025 (Part 11)	6.97 at 25.8°C	-	6.5 - 8.5	No Relaxation
3.	Conductivity	IS 3025 (Part 14)	233	µS/cm	NA	NA
4.	Total Dissolved Solids	IS 3025 (Part 16)	94	mg/l	500	2000
5.	Total Suspended Solids	IS 3025 (Part 17)	BLQ[LOQ=5.0]	mg/l	NA	NA
6.	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 (Part 44)	2	mg/l	NA	NA
7.	Chemical Oxygen Demand	IS 3025 (Part 58)	48	mg/l	NA	NA
8.	Calcium (as Ca)	IS 3025 (Part 40)	18	mg/l	75	200
9.	Magnesium (as Mg)	IS 3025 (Part 46)	4.0	mg/l	30	100
10.	Chloride (as Cl)	IS 3025 (Part 32)	BLQ[LOQ=2.0]	mg/l	250	1000
11.	Sulfate (as SO ₄)	IS 3025 (Part 24)	1.0	mg/l	200	400
12.	Total Hardness, (as CaCO ₃)	IS 3025 (Part 21)	68	mg/l	200	600
13.	Fluorides (as F)	IS 3025 (Part 60)	BLQ[LOQ=0.1]	mg/l	1.0	1.5
14.	Nitrate (as NO ₃)	IS 3025 (Part 34)	BLQ[LOQ=1.0]	mg/l	45	No Relaxation
15.	Potassium (as K)	IS 3025 (Part 45)	BLQ[LOQ=0.1]	mg/l	NA	NA
Discipline / Group : Chemical / Residues in Water						
16.	Iron (as Fe)	IS 3025 (Part 53)	BLQ[LOQ=0.01]	mg/l	0.3	No Relaxation
17.	Copper (as Cu)	IS 3025 (Part 42)	BLQ[LOQ=0.01]	mg/l	0.05	1.5
18.	Manganese (as Mn)	IS 3025 (Part 59)	BLQ[LOQ=0.1]	mg/l	0.1	0.3
19.	Zinc (as Zn)	IS 3025 (Part 49)	BLQ[LOQ=0.01]	mg/l	5.0	15
20.	Nickel (as Ni)	IS 3025 (Part 54)	BLQ[LOQ=0.001]	mg/l	0.02	No Relaxation
21.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BLQ[LOQ=0.001]	mg/l	0.05	No Relaxation

NA: Not Applicable, BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Information provided by the customer for which laboratory has no control.

* Limits as per IS 10500:2012.

*****End of Report*****
 Authorised Signatory: Mr. Pankaj Baroi (Director)
 Assistant Commissioner
 Nagar Capital Complex
 Naharlagun



Page 1 of 1

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Member Secretary
 State Pollution Control Board
 Naharlagun, A.P.

Format No.: ENV/R/TR/19/DW-01

Rev. No.: 00

TEST REPORT

ULR No.	TC1528425000000032F		
Report No.	ENV/TR/25-26/SW-03	Issue Date	10/11/2025
Order No.	E-mail	Order Date	29/10/2025
Report Issued To	ARUNACHAL PRADESH STATE POLLUTION CONTROL BOARD Paryavaran Bhawan, Yupia Raod, Papu Hills, Naharlagun, Arunachal Pradesh		

Sample Ref. No.:	APSPCB/W-251102/02		
Sample Type#:	Surface Water	Sample Quantity:	2000 ml
Sample Source#:	Main Drain Outlet of Tawang Town (Old Market)		
Date & Time of Sampling:	02.11.2025, 10:35 AM	Date & Time of Sample Receipt:	05.11.2025, 10:30 PM
Environmental Conditions During Sampling:	T- 13°C	Sampling Plan/Sampling Method:	ENV/SOP/W-01
Instrument Used for Sampling:	PE Bottle	Sampled By:	Bidyut Dutta, Envirocon
Analysis Start Date:	05.11.2025	Analysis End Date:	10.11.2025

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
Discipline / Group : Chemical / Water						
1.	Turbidity	IS 3025 (Part 10)	2	NTU	1	5
2.	pH	IS 3025 (Part 11)	6.18 at 25.8°C	-	6.5 - 8.5	No Relaxation
3.	Conductivity	IS 3025 (Part 14)	213	µS/cm	NA	NA
4.	Total Dissolved Solids	IS 3025 (Part 16)	146	mg/l	500	2000
5.	Total Suspended Solids	IS 3025 (Part 17)	26	mg/l	NA	NA
6.	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 (Part 44)	5	mg/l	NA	NA
7.	Chemical Oxygen Demand	IS 3025 (Part 58)	67	mg/l	NA	NA
8.	Calcium (as Ca)	IS 3025 (Part 40)	13	mg/l	75	200
9.	Magnesium (as Mg)	IS 3025 (Part 46)	5.6	mg/l	30	100
10.	Chloride (as Cl)	IS 3025 (Part 32)	BLQ[LOQ=2.0]	mg/l	250	1000
11.	Sulfate (as SO ₄)	IS 3025 (Part 24)	2.7	mg/l	200	400
12.	Total Hardness, (as CaCO ₃)	IS 3025 (Part 21)	43	mg/l	200	600
13.	Fluorides (as F)	IS 3025 (Part 60)	0.2	mg/l	1.0	1.5
14.	Nitrate (as NO ₃)	IS 3025 (Part 34)	BLQ[LOQ=1.0]	mg/l	45	No Relaxation
15.	Potassium (as K)	IS 3025 (Part 45)	BLQ[LOQ=0.1]	mg/l	NA	NA
Discipline / Group : Chemical / Residues in Water						
16.	Iron (as Fe)	IS 3025 (Part 53)	1.2	mg/l	0.3	No Relaxation
17.	Copper (as Cu)	IS 3025 (Part 42)	BLQ[LOQ=0.01]	mg/l	0.05	1.5
18.	Manganese (as Mn)	IS 3025 (Part 59)	BLQ[LOQ=0.1]	mg/l	0.1	0.3
19.	Zinc (as Zn)	IS 3025 (Part 49)	BLQ[LOQ=0.01]	mg/l	5.0	15
20.	Nickel (as Ni)	IS 3025 (Part 54)	BLQ[LOQ=0.001]	mg/l	0.02	No Relaxation
21.	Total Chromium, (as Cr)	IS 3025 (Part 52)	0.008	mg/l	0.05	No Relaxation

NA: Not Applicable, BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Information provided by the customer for which laboratory has no control.

* Limits as per IS 10500:2012.

Authorised Signatory: Mr. Pankaj Baroi (Director)

Assistant Commissioner
Itanagar Capital Complex

*****End of Report*****



Page 1 of 1

Member Secretary
State Pollution Control Board
Naharlagun, A.P.

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Rev. No.: 00

TEST REPORT

ULR No.	TC1528425000000034F		
Report No.	ENV/TR/25-26/SW-05	Issue Date	10/11/2025
Order No.	E-mail	Order Date	29/10/2025
Report issued To	ARUNACHAL PRADESH STATE POLLUTION CONTROL BOARD Paryavaran Bhawan, Yupia Raod, Papu Hills, Naharlagun, Arunachal Pradesh		

Sample Ref. No.:	APSPCB/W-251102/04		
Sample Type#:	Surface Water	Sample Quantity:	2000 ml
Sample Source#:	Main Drain Outlet of Tawang Town (Location 2)		
Date & Time of Sampling:	02.11.2025, 01:26 PM	Date & Time of Sample Receipt:	05.11.2025, 10:30 PM
Environmental Conditions During Sampling:	T- 14°C	Sampling Plan/Sampling Method:	ENV/SOP/W-01
Instrument Used for Sampling:	PE Bottle	Sampled By:	Bidyut Dutta, Envirocon
Analysis Start Date:	05.11.2025	Analysis End Date:	10.11.2025

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
Discipline / Group : Chemical / Water						
1.	Turbidity	IS 3025 (Part 10)	2	NTU	1	5
2.	pH	IS 3025 (Part 11)	6.22 at 25.7°C	-	6.5 - 8.5	No Relaxation
3.	Conductivity	IS 3025 (Part 14)	199	µS/cm	NA	NA
4.	Total Dissolved Solids	IS 3025 (Part 16)	158	mg/l	500	2000
5.	Total Suspended Solids	IS 3025 (Part 17)	16	mg/l	NA	NA
6.	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 (Part 44)	7	mg/l	NA	NA
7.	Chemical Oxygen Demand	IS 3025 (Part 58)	52	mg/l	NA	NA
8.	Calcium (as Ca)	IS 3025 (Part 40)	16	mg/l	75	200
9.	Magnesium (as Mg)	IS 3025 (Part 46)	3.0	mg/l	30	100
10.	Chloride (as Cl)	IS 3025 (Part 32)	BLQ[LOQ=2.0]	mg/l	250	1000
11.	Sulfate (as SO ₄)	IS 3025 (Part 24)	2.5	mg/l	200	400
12.	Total Hardness, (as CaCO ₃)	IS 3025 (Part 21)	49	mg/l	200	600
13.	Fluorides (as F)	IS 3025 (Part 60)	BLQ[LOQ=0.1]	mg/l	1.0	1.5
14.	Nitrate (as NO ₃)	IS 3025 (Part 34)	BLQ[LOQ=1.0]	mg/l	45	No Relaxation
15.	Potassium (as K)	IS 3025 (Part 45)	BLQ[LOQ=0.1]	mg/l	NA	NA
Discipline / Group : Chemical / Residues in Water						
16.	Iron (as Fe)	IS 3025 (Part 53)	1.1	mg/l	0.3	No Relaxation
17.	Copper (as Cu)	IS 3025 (Part 42)	BLQ[LOQ=0.01]	mg/l	0.05	1.5
18.	Manganese (as Mn)	IS 3025 (Part 59)	BLQ[LOQ=0.1]	mg/l	0.1	0.3
19.	Zinc (as Zn)	IS 3025 (Part 49)	BLQ[LOQ=0.01]	mg/l	5.0	15
20.	Nickel (as Ni)	IS 3025 (Part 54)	BLQ[LOQ=0.001]	mg/l	0.02	No Relaxation
21.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BLQ[LOQ=0.001]	mg/l	0.05	No Relaxation

NA: Not Applicable, BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Information provided by the customer for which laboratory has no control.

* Limits as per IS 10500:2012.

Authorised Signatory: Mr. Pankaj Baroi (Director)

*****End of Report*****

Assistant Commissioner
Naharlagun Capital Complex
Naharlagun



Page 1 of 1

NOTE:

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2. Results refer only to the particular parameters tested.
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Member Secretary
State Pollution Control Board
Naharlagun, A.P.



TEST REPORT

ULR No.	TC1528425000000033F		
Report No.	ENV/TR/25-26/SW-04	Issue Date	10/11/2025
Order No.	E-mail	Order Date	29/10/2025
Report Issued To	ARUNACHAL PRADESH STATE POLLUTION CONTROL BOARD Paryavaran Bhawan, Yupia Raod, Papu Hills, Naharlagun, Arunachal Pradesh		

Sample Ref. No. :	APSPCB/W-251102/03		
Sample Type# :	Surface Water	Sample Quantity :	2000 ml
Sample Source# :	River Near Jang Waterfall		
Date & Time of Sampling:	02.11.2025, 12:02 PM	Date & Time of Sample Receipt :	05.11.2025, 10:30 PM
Environmental Conditions During Sampling :	T- 14°C	Sampling Plan/Sampling Method :	ENV/SOP/W-01
Instrument Used for Sampling :	PE Bottle	Sampled By :	Bidyut Dutta, Envirocon
Analysis Start Date :	05.11.2025	Analysis End Date :	10.11.2025

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
Discipline / Group : Chemical / Water						
1.	Turbidity	IS 3025 (Part 10)	1	NTU	1	5
2.	pH	IS 3025 (Part 11)	6.54 at 25.8°C	-	6.5 – 8.5	No Relaxation
3.	Conductivity	IS 3025 (Part 14)	98	µS/cm	NA	NA
4.	Total Dissolved Solids	IS 3025 (Part 16)	89	mg/l	500	2000
5.	Total Suspended Solids	IS 3025 (Part 17)	6.2	mg/l	NA	NA
6.	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 (Part 44)	1	mg/l	NA	NA
7.	Chemical Oxygen Demand	IS 3025 (Part 58)	41	mg/l	NA	NA
8.	Calcium (as Ca)	IS 3025 (Part 40)	16	mg/l	75	200
9.	Magnesium (as Mg)	IS 3025 (Part 46)	5.0	mg/l	30	100
10.	Chloride (as Cl)	IS 3025 (Part 32)	BLQ[LOQ=2.0]	mg/l	250	1000
11.	Sulfate (as SO ₄)	IS 3025 (Part 24)	1.0	mg/l	200	400
12.	Total Hardness, (as CaCO ₃)	IS 3025 (Part 21)	62	mg/l	200	600
13.	Fluorides (as F)	IS 3025 (Part 60)	BLQ[LOQ=0.1]	mg/l	1.0	1.5
14.	Nitrate (as NO ₃)	IS 3025 (Part 34)	BLQ[LOQ=1.0]	mg/l	45	No Relaxation
15.	Potassium (as K)	IS 3025 (Part 45)	BLQ[LOQ=0.1]	mg/l	NA	NA
Discipline / Group : Chemical / Residues in Water						
16.	Iron (as Fe)	IS 3025 (Part 53)	0.04	mg/l	0.3	No Relaxation
17.	Copper (as Cu)	IS 3025 (Part 42)	BLQ[LOQ=0.01]	mg/l	0.05	1.5
18.	Manganese (as Mn)	IS 3025 (Part 59)	BLQ[LOQ=0.1]	mg/l	0.1	0.3
19.	Zinc (as Zn)	IS 3025 (Part 49)	BLQ[LOQ=0.01]	mg/l	5.0	15
20.	Nickel (as Ni)	IS 3025 (Part 54)	BLQ[LOQ=0.001]	mg/l	0.02	No Relaxation
21.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BLQ[LOQ=0.001]	mg/l	0.05	No Relaxation

NA: Not Applicable, BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Information provided by the customer for which laboratory has no control.

* Limits as per IS 10500:2012.

*****End of Report*****

Authorised Signatory: Mr. Pankaj Baroi (Director)



Page 1 of 1

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Member Secretary
State Pollution Control Board
Naharlagun, A.P.



TEST REPORT

ULR No.	TC1528425000000035F		
Report No.	ENV/TR/25-26/SW-06	Issue Date	10/11/2025
Order No.	E-mail	Order Date	29/10/2025
Report Issued To	ARUNACHAL PRADESH STATE POLLUTION CONTROL BOARD Paryavaran Bhawan, Yupia Raod, Papu Hills, Naharlagun, Arunachal Pradesh		

Sample Ref. No. :	APSPCB/W-251103/01		
Sample Type# :	Surface Water	Sample Quantity :	2000 ml
Sample Source# :	Sela Lake		
Date & Time of Sampling:	03.11.2025, 11:30 AM	Date & Time of Sample Receipt :	05.11.2025, 10:30 PM
Environmental Conditions During Sampling :	T- 12°C	Sampling Plan/Sampling Method :	ENV/SOP/W-01
Instrument Used for Sampling :	PE Bottle	Sampled By :	Bidyut Dutta, Envirocon
Analysis Start Date :	05.11.2025	Analysis End Date :	10.11.2025

TEST RESULTS

Sl No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
Discipline / Group : Chemical / Water						
1.	Turbidity	IS 3025 (Part 10)	1	NTU	1	5
2.	pH	IS 3025 (Part 11)	6.51 at 25.8°C	-	6.5 – 8.5	No Relaxation
3.	Conductivity	IS 3025 (Part 14)	93	µS/cm	NA	NA
4.	Total Dissolved Solids	IS 3025 (Part 16)	81	mg/l	500	2000
5.	Total Suspended Solids	IS 3025 (Part 17)	7.9	mg/l	NA	NA
6.	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 (Part 44)	2	mg/l	NA	NA
7.	Chemical Oxygen Demand	IS 3025 (Part 58)	48	mg/l	NA	NA
8.	Calcium (as Ca)	IS 3025 (Part 40)	19	mg/l	75	200
9.	Magnesium (as Mg)	IS 3025 (Part 46)	6.0	mg/l	30	100
10.	Chloride (as Cl)	IS 3025 (Part 32)	2.6	mg/l	250	1000
11.	Sulfate (as SO ₄)	IS 3025 (Part 24)	1.0	mg/l	200	400
12.	Total Hardness, (as CaCO ₃)	IS 3025 (Part 21)	72	mg/l	200	600
13.	Fluorides (as F)	IS 3025 (Part 60)	BLQ[LOQ=0.1]	mg/l	1.0	1.5
14.	Nitrate (as NO ₃)	IS 3025 (Part 34)	BLQ[LOQ=1.0]	mg/l	45	No Relaxation
15.	Potassium (as K)	IS 3025 (Part 45)	BLQ[LOQ=0.1]	mg/l	NA	NA
Discipline / Group : Chemical / Residues in Water						
16.	Iron (as Fe)	IS 3025 (Part 53)	0.02	mg/l	0.3	No Relaxation
17.	Copper (as Cu)	IS 3025 (Part 42)	BLQ[LOQ=0.01]	mg/l	0.05	1.5
18.	Manganese (as Mn)	IS 3025 (Part 59)	BLQ[LOQ=0.1]	mg/l	0.1	0.3
19.	Zinc (as Zn)	IS 3025 (Part 49)	BLQ[LOQ=0.01]	mg/l	5.0	15
20.	Nickel (as Ni)	IS 3025 (Part 54)	BLQ[LOQ=0.001]	mg/l	0.02	No Relaxation
21.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BLQ[LOQ=0.001]	mg/l	0.05	No Relaxation

NA: Not Applicable, BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Information provided by the customer for which laboratory has no control.

* Limits as per IS 10500:2012.

Authorised Signatory: Mr. Pankaj Baroi (Director)

*****End of Report*****



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State Pollution Control Board
Naharlagun, A.P.

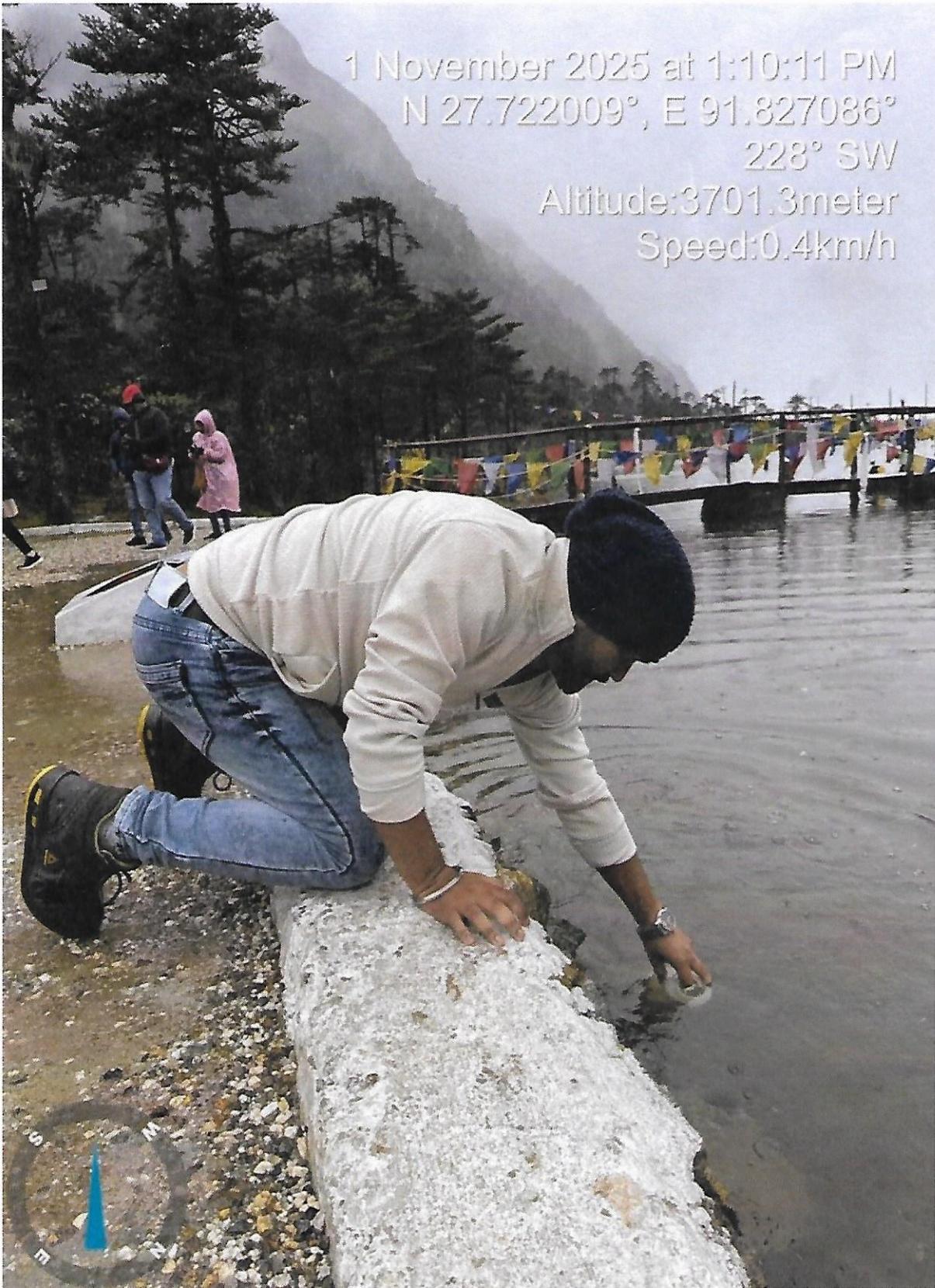


Photo 1.

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Assistant Commissioner
Itanagar Capital Complex
Naharlagun

[Signature]
Member Secretary
State Pollution Control Board
Naharlagun, A.P.

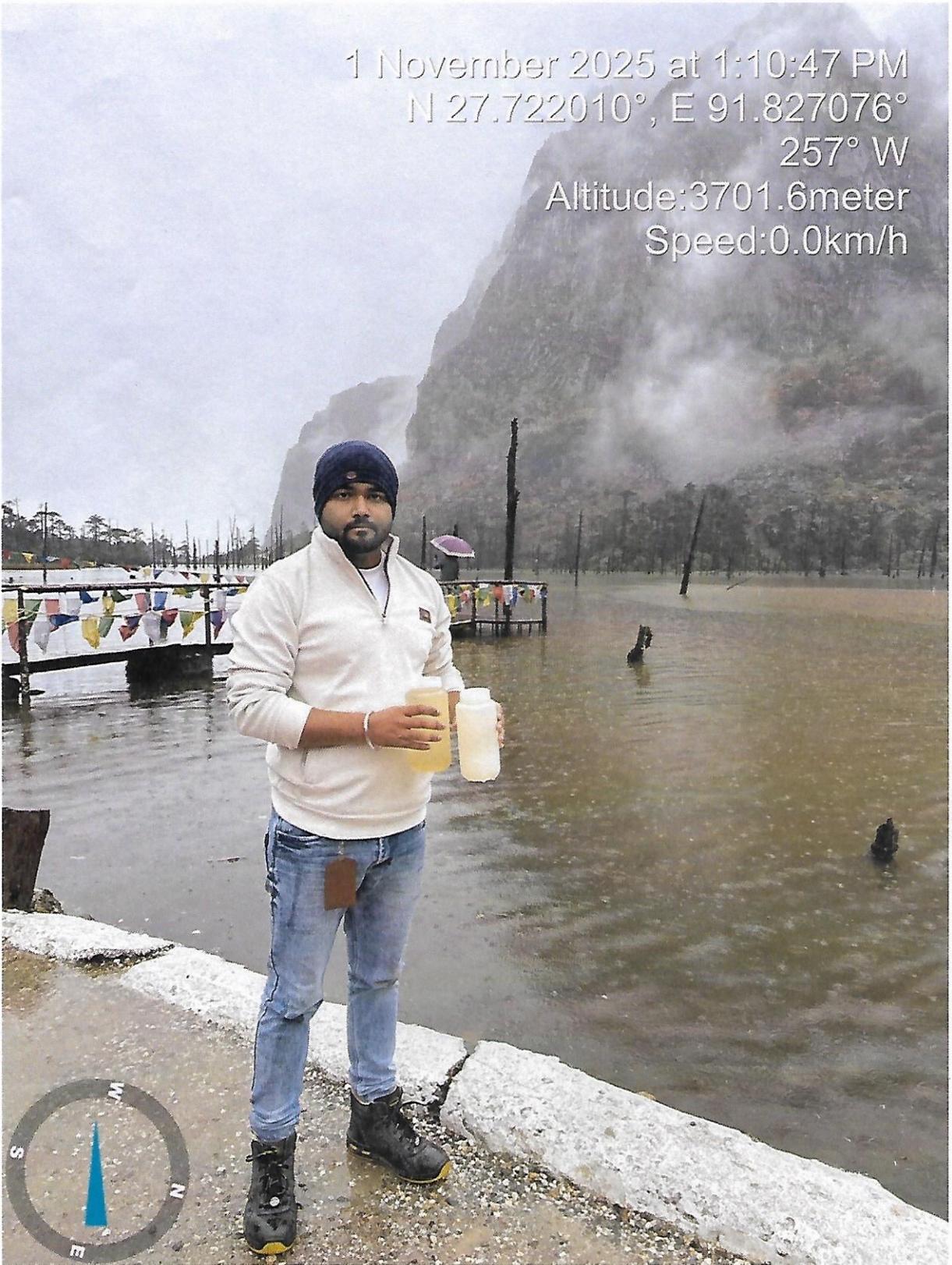


Photo 2.

[Handwritten Signature]
19/11/25
Assistant Commissioner
Itanagar Capital Complex
Naharlagun

[Handwritten Signature]
Member Secretary
State Pollution Control Board
Naharlagun, A.P.

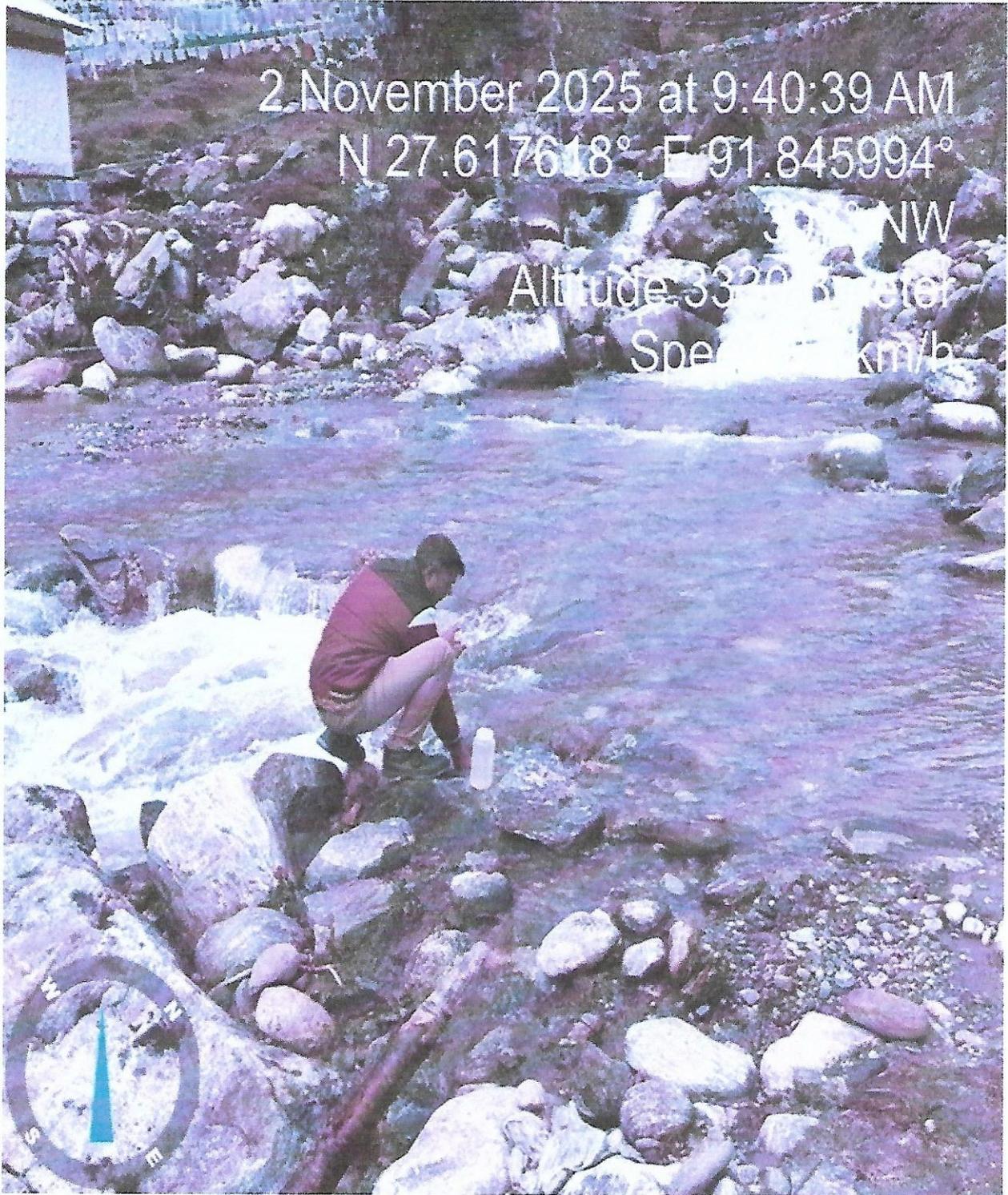


Photo 3.


Assistant Commissioner
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Maharajgunn


Member Secretary
State Pollution Control Board
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Photo 4.

[Handwritten Signature]
Assistant Commissioner
Itanagar Capital Complex
Naharlagun

[Handwritten Signature]
Member Secretary
State Pollution Control Board
Naharlagun, A.P.

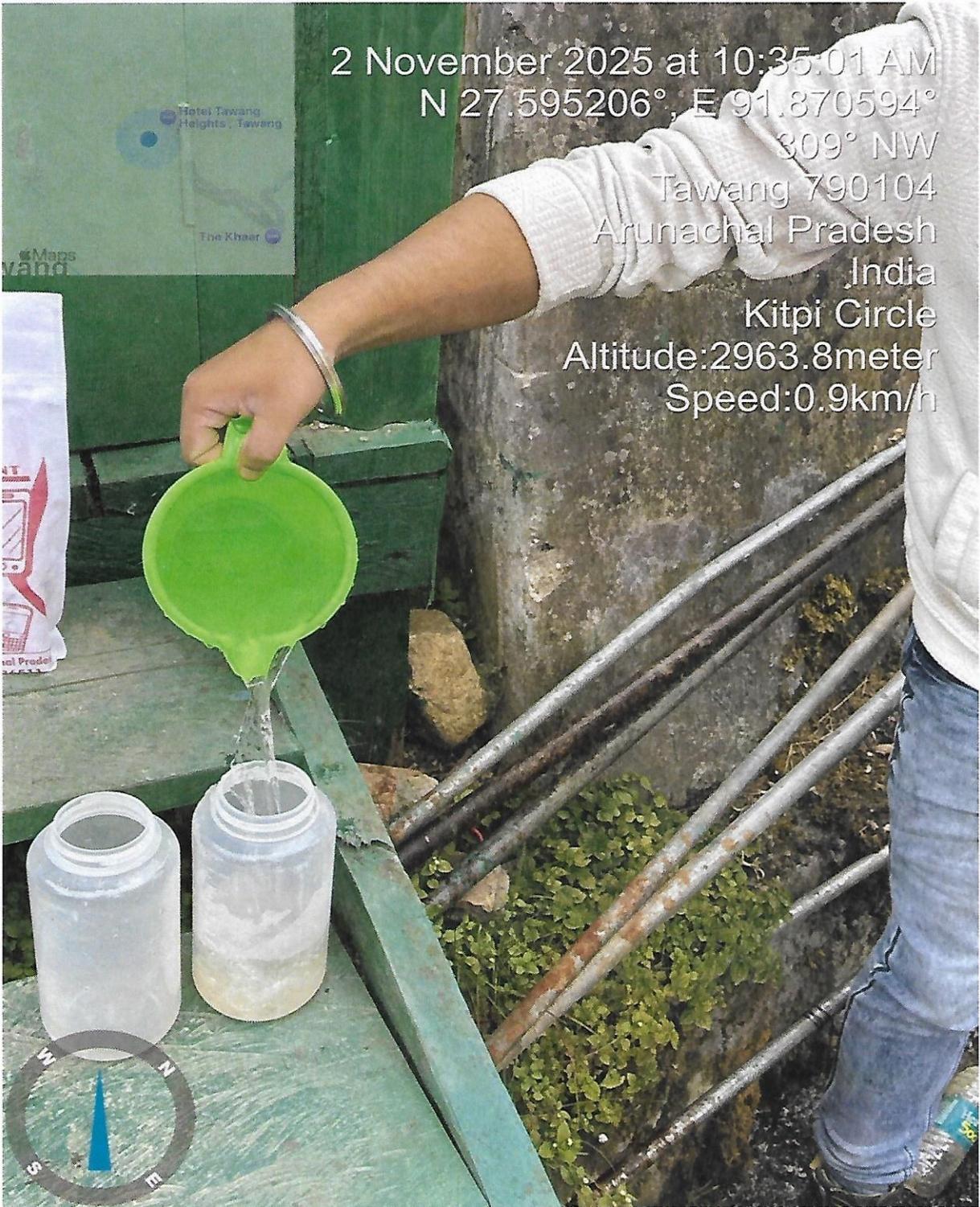


Photo 5.

[Signature]
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Naharlagun

[Signature]
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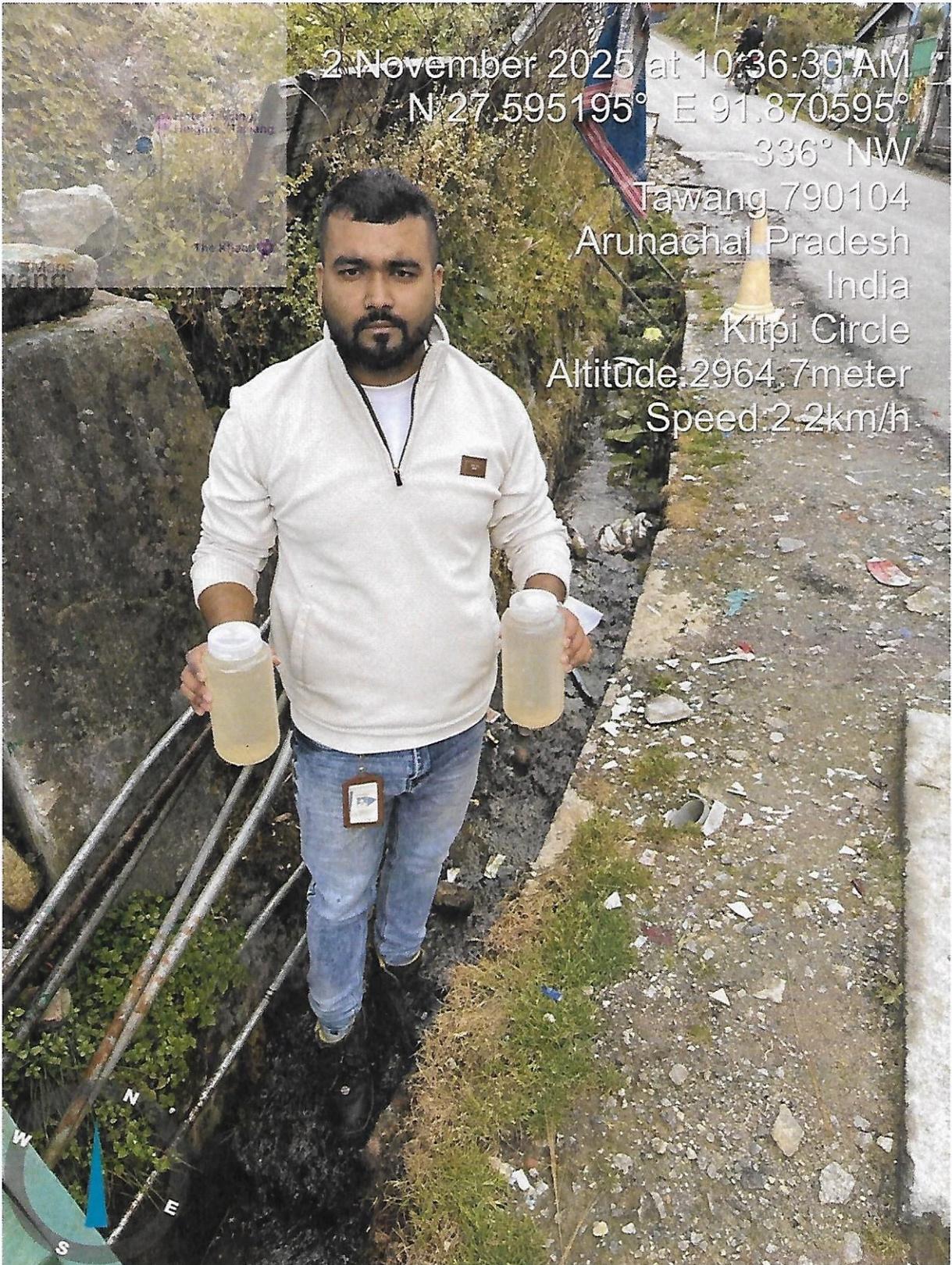


Photo 6.


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Naharlagun


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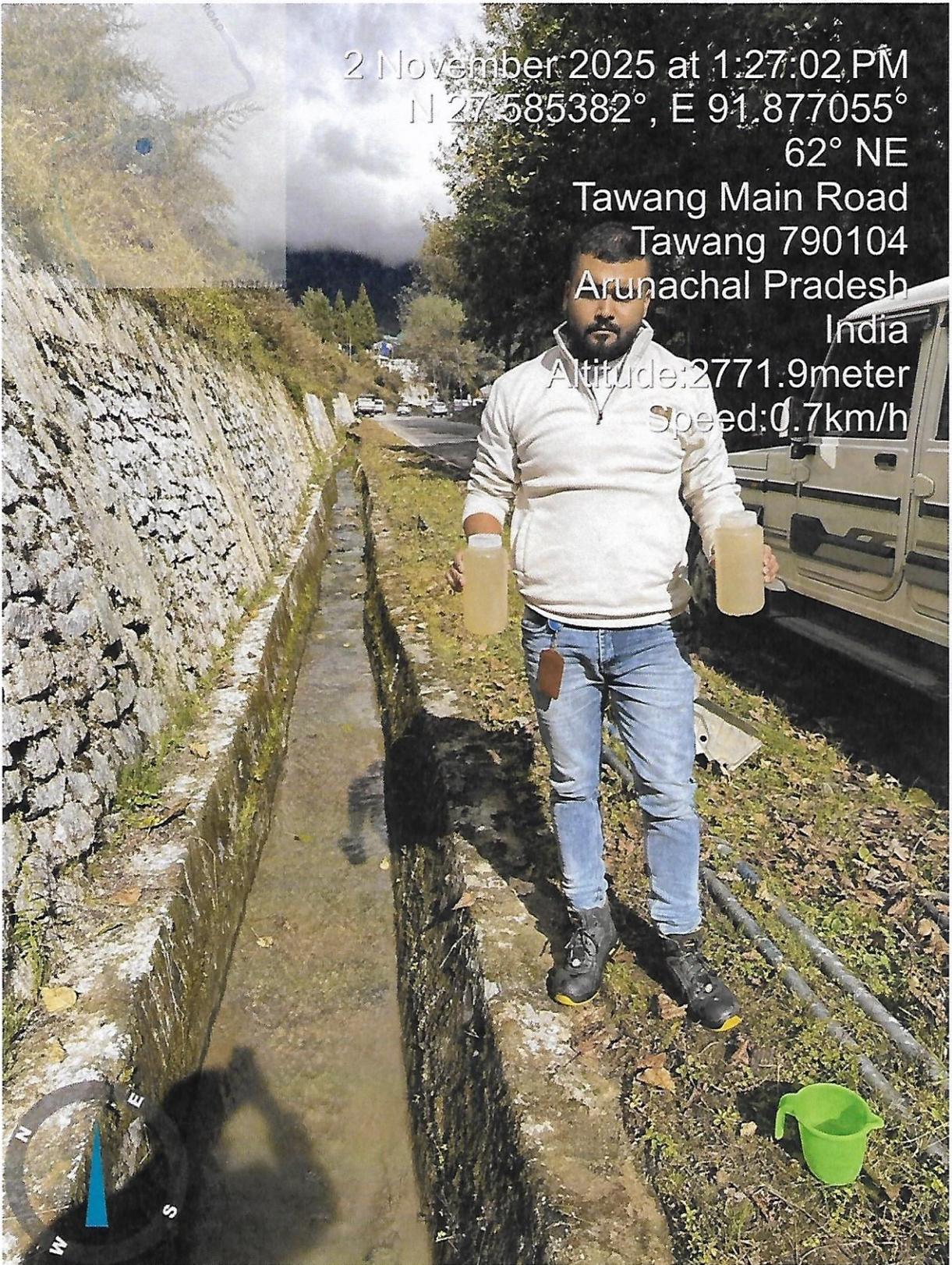


Photo 7.

[Handwritten Signature]
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 Maharlagon

[Handwritten Signature]
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 State Pollution Control Board
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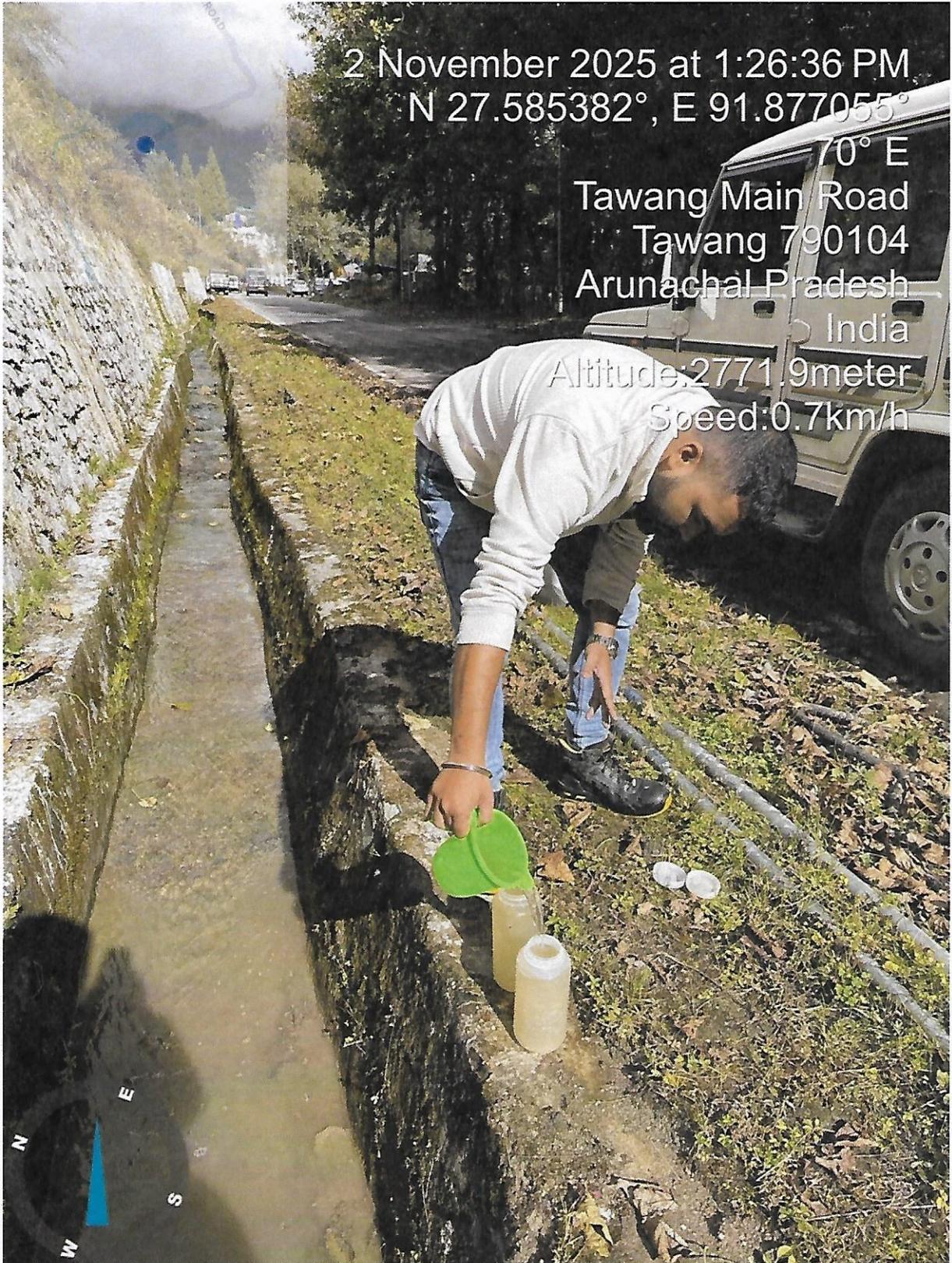


Photo 8.

[Signature]
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Itanagar Capital Complex
Naharlagun

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Member Secretary
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Naharlagun, A.P.

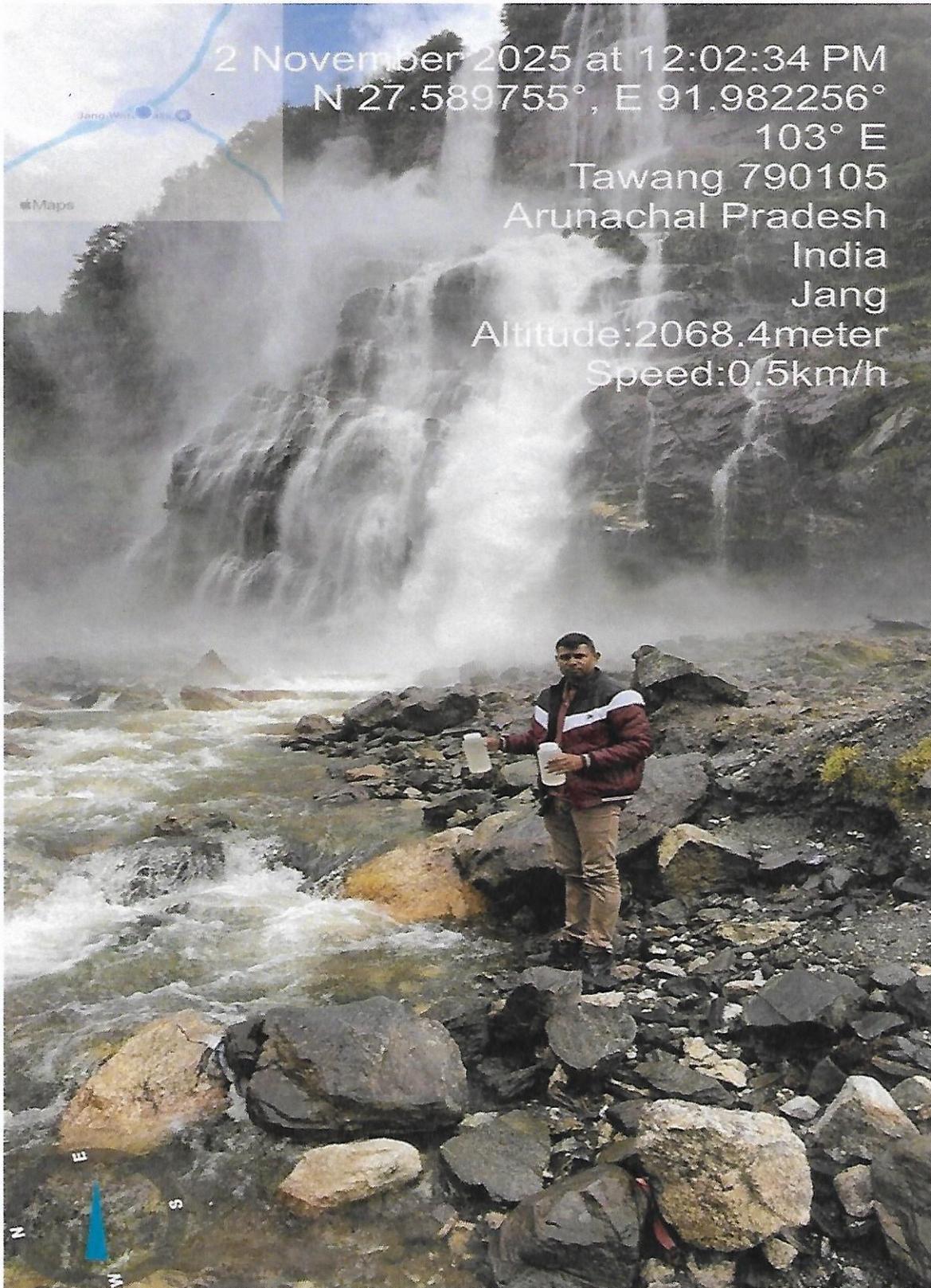


Photo 9.

[Handwritten Signature]
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 State Pollution Control Board
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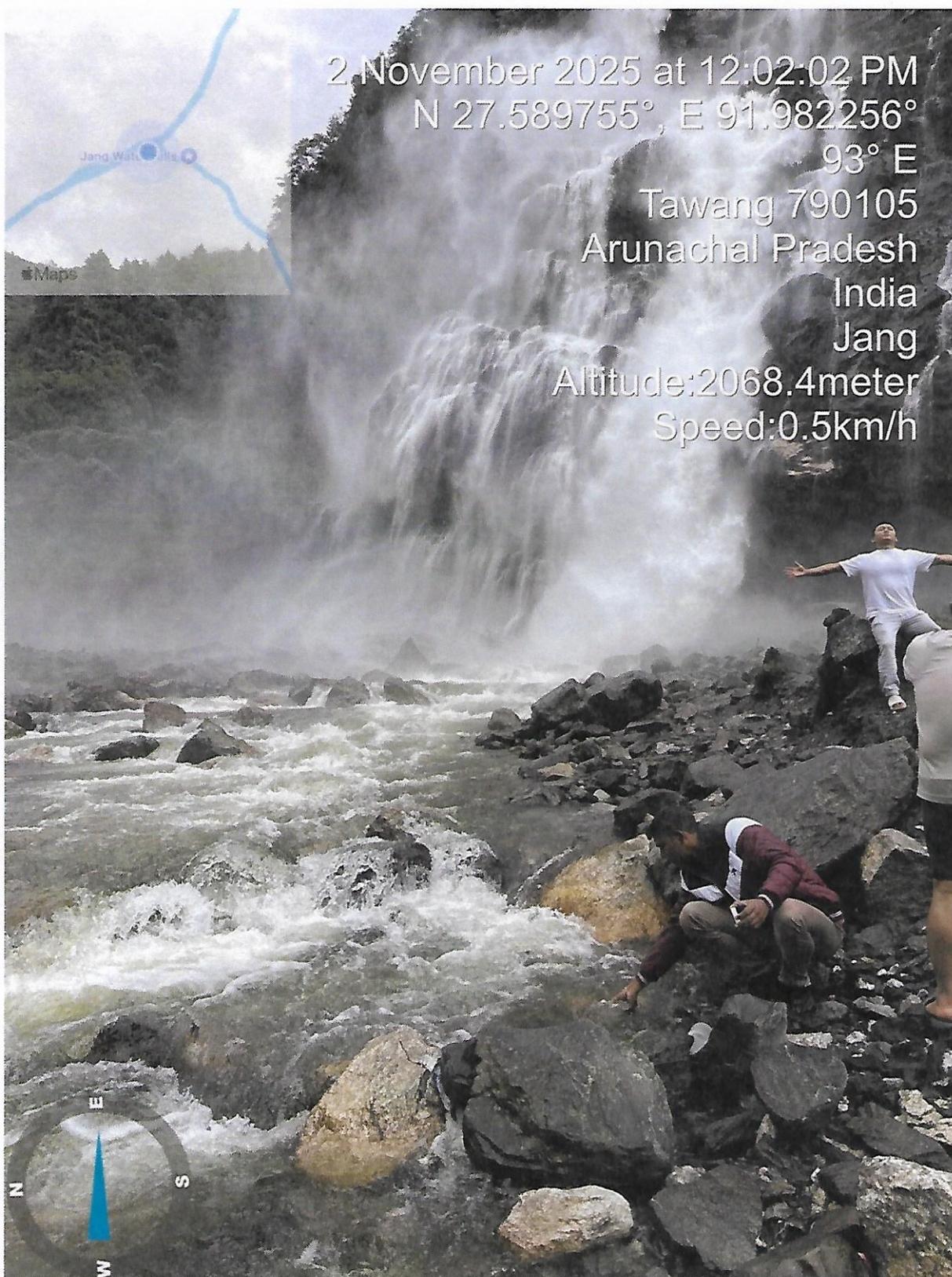


Photo 10.

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 Assistant Commissioner
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 Itanagar

[Signature]
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 State Pollution Control Board
 13 Naharlagun, A.P.

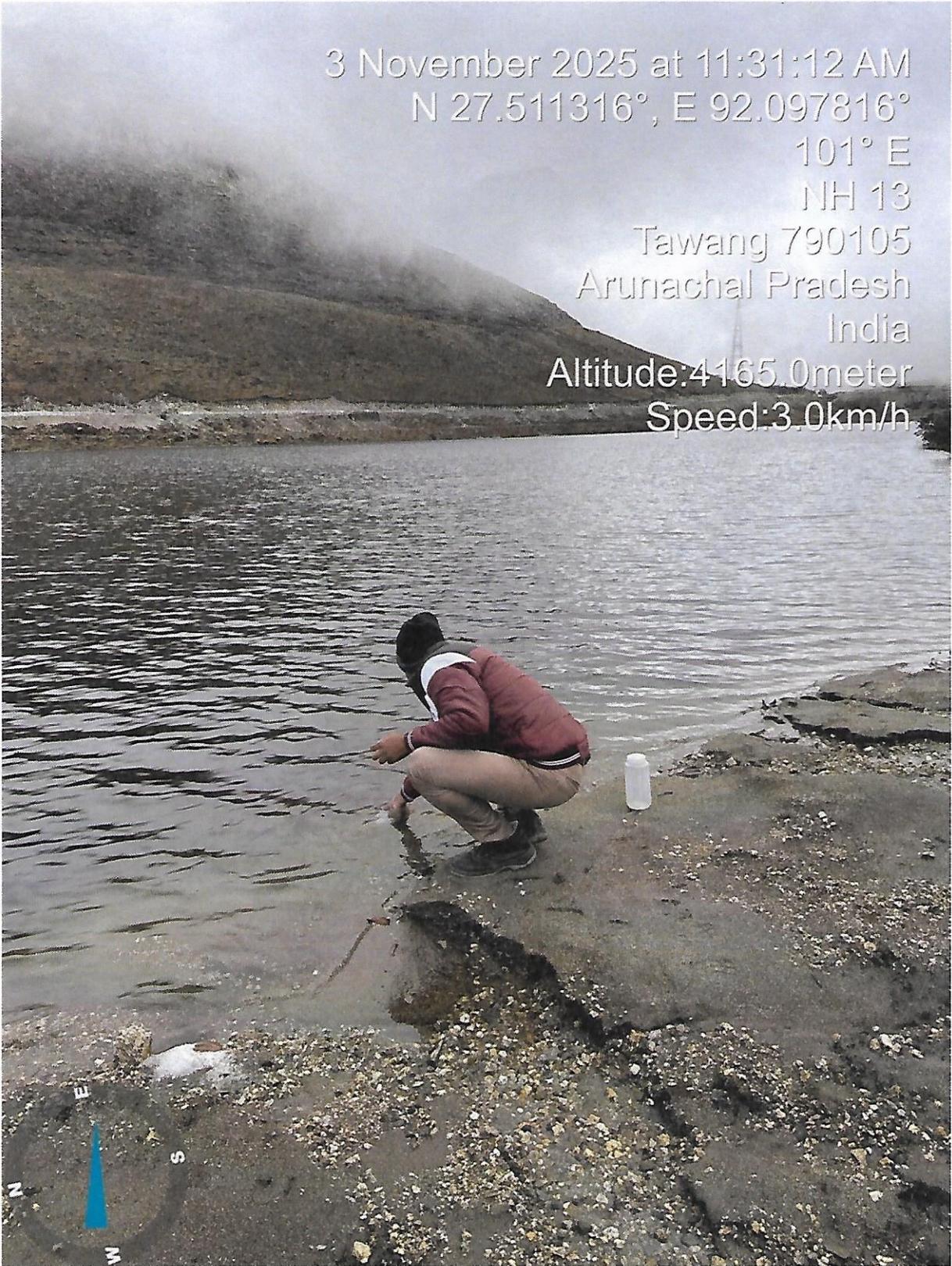


Photo 11.

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[Signature]
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 Naharlagun, A.P.

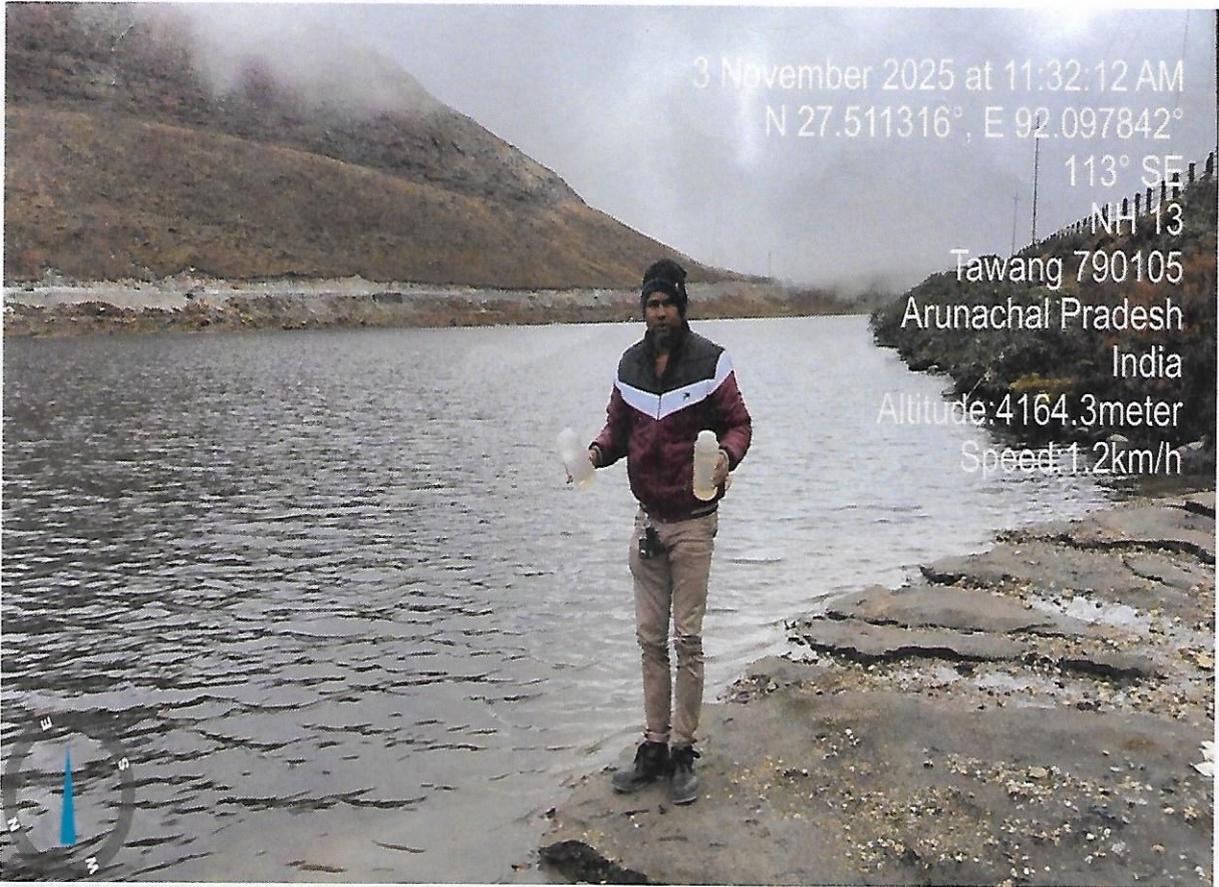


Photo 12.

(D. Dohu Robin)
Member Secretary

Member Secretary
State Pollution Control Board
Naharlagun, A.P.

Assistant Commissioner
Itanagar Capital Complex
Naharlagun