



सीएसआईआर-भारतीय विषविज्ञान अनुसंधान संस्थान
CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH

विषविज्ञान भवन, 31, महात्मा गांधी मार्ग, लखनऊ-226001, उ.प्र., भारत
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TC-7103

WATER ANALYSIS REPORT

1. Name of analysing laboratory : Water Analysis Lab Date: 22nd March 2023,
2. Sample Registry No. : SSP-460(I)
3. Nature / type of sample (s) : Surface Runoff (Water) Purvanchal Expressway(17+400Km)
4. Sealed/Unsealed : Unsealed
5. Date of receipt : 06th Feb., 2023
6. Method of Analysis : As per APHA/AWWA; 23rdEdn. (2017)
7. Sample Collected by : IITR Staff

S. No.	Parameters/Tests Physico-Chemical/Metals	Method of analysis	Unit	RESULT	Standard Uncertainty ±
1.	pH	(4500-H ⁺ B)	-	7.98	0.14
2.	Conductivity	(2510-B)	µS/cm	455.00	15.17
3.	Turbidity	(2130-B)	NTU	34.34	--
4.	Odour	(2150-A)		Unobjectionable	--
5.	Total Dissolved Solids	(2540-C)	mg/L	316.00	4.02
6.	Volatile Solids	(2540-E)	mg/L	90.00	4.73
7.	Fluoride	(4110-B, ILC)	mg/L	0.50	0.049
8.	COD	(5520-C)	mg/L	58.24	2.92
9.	Total Hardness	(2340-C)	mg/L	208.00	7.24
10.	TOC	(TOC Analyzer)	mg/L	42.50	--
11.	Arsenic as As	(ILC)	µg/L	<0.001	0.075
12.	Cadmium as Cd	(ICPMS)	µg/L	<0.003	0.075
13.	Mercury as Hg	(Mercury Analyser)	µg/L	0.052	0.075
14.	Iron as Fe	(ICPMS)	µg/L	14.73	0.15
15.	Selenium as Se	(ICPMS)	µg/L	4.31	--
16.	Chromium as Cr	(ICPMS)	µg/L	3.62	0.15

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17.	Lead as Pb	(ICPMS)	µg/L	<0.01	0.15
18.	Molybdenum as Mo	(ICPMS)	µg/L	3.79	-
19.	Nickle as Ni	(ICPMS)	µg/L	<0.02	0.15

Note-Values marked with < (less than) sign are the minimum detection limit for the corresponding parameters.
ILC= Ion Liquid Chromatograph., ICP-MS= Inductively Coupled Plasma Mass Spectrometry.

23/3/23

Dr. NG Ansari
(Reviewed by)

Satyakam Patnaik
22/3/23

Dr. SATYAKAM PATNAIK
(Authorized by)

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TC-7103

WATER ANALYSIS REPORT

1. Name of analysing laboratory : Water Analysis Lab Date: 22nd March 2023,
2. Sample Registry No. : SSP-460(II)
3. Nature / type of sample (s) : Surface Runoff (Water) Purvanchal Expressway (21+600Km)
4. Sealed/Unsealed : Unsealed
5. Date of receipt : 06th Feb., 2023
6. Method of Analysis : As per APHA/AWWA; 23rdEdn. (2017)
7. Sample Collected by : IITR Staff

S. No.	Parameters/Tests Physico-Chemical/Metals	Method of analysis	Unit	RESULT	Standard Uncertainty ±
1.	pH	(4500-H ⁺ B)	-	8.18	0.14
2.	Conductivity	(2510-B)	µS/cm	324.00	15.17
3.	Turbidity	(2130-B)	NTU	6.27	--
4.	Odour	(2150-A)		Unobjectionable	--
5.	Total Dissolved Solids	(2540-C)	mg/L	190.00	4.02
6.	Volatile Solids	(2540-E)	mg/L	76.00	4.73
7.	Fluoride	(4110-B, ILC)	mg/L	0.75	0.049
8.	COD	(5520-C)	mg/L	44.93	2.92
9.	Total Hardness	(2340-C)	mg/L	80.00	7.24
10.	TOC	(TOC Analyzer)	mg/L	33.00	--
11.	Arsenic as As	(ILC)	µg/L	<0.001	0.075
12.	Cadmium as Cd	(ICPMS)	µg/L	<0.003	0.075
13.	Mercury as Hg	(Mercury Analyser)	µg/L	0.039	0.075
14.	Iron as Fe	(ICPMS)	µg/L	14.56	0.15
15.	Selenium as Se	(ICPMS)	µg/L	3.67	--
16.	Chromium as Cr	(ICPMS)	µg/L	0.54	0.15

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17.	Lead as Pb	(ICPMS)	µg/L	<0.01	0.15
18.	Molybdenum as Mo	(ICPMS)	µg/L	4.46	--
19.	Nickle as Ni	(ICPMS)	µg/L	1.29	0.15

Note-Values marked with < (less then) sign are the minimum detection limit for the corresponding parameters.
ILC= Ion Liquid Chromatograph., ICP-MS= Inductively Coupled Plasma Mass Spectrometry.

Dr. NG Ansari
23/3/23

Dr. NG Ansari
(Reviewed by)

Satyakam Patnaik
22/3/23

Dr. SATYAKAM PATNAIK
(Authorized by)

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WATER ANALYSIS REPORT

- | | | |
|---------------------------------|--|------------------------------------|
| 1. Name of analysing laboratory | : Water Analysis Lab | Date: 22 nd March 2023, |
| 2. Sample Registry No. | : SSP-460(III) | |
| 3. Nature / type of sample (s) | : Surface Runnoff (Water) Purvanchal Expressway (43+100Km) | |
| 4. Sealed/Unsealed | : Unsealed | |
| 5. Date of receipt | : 06 th Feb., 2023 | |
| 6. Method of Analysis | : As per APHA/AWWA; 23 rd Edn. (2017) | |
| 7. Sample Collected by | : IITR Staff | |

S. No.	Parameters/Tests Physico-Chemical/Metals	Method of analysis	Unit	RESULT	Standard Uncertainty ±
1.	pH	(4500-H ⁺ B)	-	8.23	0.14
2.	Conductivity	(2510-B)	μS/cm	342.00	15.17
3.	Turbidity	(2130-B)	NTU	3.74	--
4.	Odour	(2150-A)		Unobjectionable	--
5.	Total Dissolved Solids	(2540-C)	mg/L	128.00	4.02
6.	Volatile Solids	(2540-E)	mg/L	50.00	4.73
7.	Fluoride	(4110-B, ILC)	mg/L	0.25	0.049
8.	COD	(5520-C)	mg/L	19.97	2.92
9.	Total Hardness	(2340-C)	mg/L	134.00	7.24
10.	TOC	(TOC Analyzer)	mg/L	17.46	--
11.	Arsenic as As	(ILC)	μg/L	<0.001	0.075
12.	Cadmium as Cd	(ICPMS)	μg/L	<0.003	0.075
13.	Mercury as Hg	(Mercury Analyser)	μg/L	0.024	0.075
14.	Iron as Fe	(ICPMS)	μg/L	7.97	0.15
15.	Selenium as Se	(ICPMS)	μg/L	2.55	--
16.	Chromium as Cr	(ICPMS)	μg/L	0.33	0.15





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17.	Lead as Pb	(ICPMS)	µg/L	<0.01	0.15
18.	Molybdenum as Mo	(ICPMS)	µg/L	1.38	--
19.	Nickle as Ni	(ICPMS)	µg/L	<0.02	0.15

Note-Values marked with < (less then) sign are the minimum detection limit for the corresponding parameters.
ILC= Ion Liquid Chromatograph., ICP-MS= Inductively Coupled Plasma Mass Spectrometry.

Ansari
23/3/23

Dr. NG Ansari
(Reviewed by)

Satyakam Patnaik
22/3/23

Dr. SATYAKAM PATNAIK
(Authorized by)

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Ansari

WATER ANALYSIS REPORT

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|---------------------------------|---|------------------------------------|
| 1. Name of analysing laboratory | : Water Analysis Lab | Date: 22 nd March 2023, |
| 2. Sample Registry No. | : SSP-460(IV) | |
| 3. Nature / type of sample (s) | : Surface Runoff (Water) Purvanchal Expressway(102+120Km) | |
| 4. Sealed/Unsealed | : Unsealed | |
| 5. Date of receipt | : 06 th Feb., 2023 | |
| 6. Method of Analysis | : As per APHA/AWWA; 23 rd Edn. (2017) | |
| 7. Sample Collected by | : IITR Staff | |

S. No.	Parameters/Tests Physico-Chemical/Metals	Method of analysis	Unit	RESULT	Standard Uncertainty ±
1.	pH	(4500-H ⁺ B)	-	8.59	0.14
2.	Conductivity	(2510-B)	µS/cm	507.00	15.17
3.	Turbidity	(2130-B)	NTU	12.24	--
4.	Odour	(2150-A)		Unobjectionable	--
5.	Total Dissolved Solids	(2540-C)	mg/L	198.00	4.02
6.	Volatile Solids	(2540-E)	mg/L	50.00	4.73
7.	Fluoride	(4110-B, ILC)	mg/L	0.40	0.049
8.	COD	(5520-C)	mg/L	16.22	2.92
9.	Total Hardness	(2340-C)	mg/L	174.00	7.24
10.	TOC	(TOC Analyzer)	mg/L	24.41	--
11.	Arsenic as As	(ILC)	µg/L	<0.001	0.075
12.	Cadmium as Cd	(ICPMS)	µg/L	<0.003	0.075
13.	Mercury as Hg	(Mercury Analyser)	µg/L	0.026	0.075
14.	Iron as Fe	(ICPMS)	µg/L	15.39	0.15
15.	Selenium as Se	(ICPMS)	µg/L	2.71	--
16.	Chromium as Cr	(ICPMS)	µg/L	0.39	0.15

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17.	Lead as Pb	(ICPMS)	µg/L	<0.01	0.15
18.	Molybdenum as Mo	(ICPMS)	µg/L	1.12	--
19.	Nickle as Ni	(ICPMS)	µg/L	<0.02	0.15

Note-Values marked with < (less then) sign are the minimum detection limit for the corresponding parameters.
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23/3/23

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(Reviewed by)

Satyakam Patnaik
22/3/23

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WATER ANALYSIS REPORT

1. Name of analysing laboratory : Water Analysis Lab Date: 22nd March 2023,
2. Sample Registry No. : SSP-460(V)
3. Nature / type of sample (s) : Surface Runnoff (Water) Purvanchal Expressway(173+300Km)
4. Sealed/Unsealed : Unsealed
5. Date of receipt : 06th Feb., 2023
6. Method of Analysis : As per APHA/AWWA; 23rdEdn. (2017)
7. Sample Collected by : IITR Staff

S. No.	Parameters/Tests Physico-Chemical/Metals	Method of analysis	Unit	RESULT	Standard Uncertainty ±
1.	pH	(4500-H ⁺ B)	-	8.41	0.14
2.	Conductivity	(2510-B)	µS/cm	256.00	15.17
3.	Turbidity	(2130-B)	NTU	1.20	--
4.	Odour	(2150-A)		Unobjectionable	--
5.	Total Dissolved Solids	(2540-C)	mg/L	154.00	4.02
6.	Volatile Solids	(2540-E)	mg/L	46.00	4.73
7.	Fluoride	(4110-B, ILC)	mg/L	0.55	0.049
8.	COD	(5520-C)	mg/L	19.55	2.92
9.	Total Hardness	(2340-C)	mg/L	108.00	7.24
10.	TOC	(TOC Analyzer)	mg/L	24.95	--
11.	Arsenic as As	(ILC)	µg/L	<0.001	0.075
12.	Cadmium as Cd	(ICPMS)	µg/L	<0.003	0.075
13.	Mercury as Hg	(Mercury Analyser)	µg/L	0.018	0.075
14.	Iron as Fe	(ICPMS)	µg/L	7.43	0.15
15.	Selenium as Se	(ICPMS)	µg/L	5.91	--
16.	Chromium as Cr	(ICPMS)	µg/L	0.18	0.15



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17.	Lead as Pb	(ICPMS)	µg/L	<0.01	0.15
18.	Molybdenum as Mo	(ICPMS)	µg/L	2.74	--
19.	Nickle as Ni	(ICPMS)	µg/L	<0.02	0.15

Note-Values marked with < (less then) sign are the minimum detection limit for the corresponding parameters.
ILC= Ion Liquid Chromatograph., ICP-MS= Inductively Coupled Plasma Mass Spectrometry.

Dr. NG Ansari
23/3/23
Dr. NG Ansari
(Reviewed by)

Satyakam Patnaik
22/3/23
Dr. SATYAKAM PATNAIK
(Authorized by)

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WATER ANALYSIS REPORT

- | | | |
|---------------------------------|---|------------------------------------|
| 1. Name of analysing laboratory | : Water Analysis Lab | Date: 22 nd March 2023, |
| 2. Sample Registry No. | : SSP-460(VI) | |
| 3. Nature / type of sample (s) | : Surface Runoff (Water) Purvanchal Expressway(220+400Km) | |
| 4. Sealed/Unsealed | : Unsealed | |
| 5. Date of receipt | : 06 th Feb., 2023 | |
| 6. Method of Analysis | : As per APHA/AWWA; 23 rd Edn. (2017) | |
| 7. Sample Collected by | : IITR Staff | |

S. No.	Parameters/Tests Physico-Chemical/Metals	Method of analysis	Unit	RESULT	Standard Uncertainty ±
1.	pH	(4500-H ⁺ B)	-	8.28	0.14
2.	Conductivity	(2510-B)	µS/cm	282.00	15.17
3.	Turbidity	(2130-B)	NTU	1.83	--
4.	Odour	(2150-A)		Unobjectionable	--
5.	Total Dissolved Solids	(2540-C)	mg/L	148.00	4.02
6.	Volatile Solids	(2540-E)	mg/L	60.00	4.73
7.	Fluoride	(4110-B,ILC)	mg/L	0.43	0.049
8.	COD	(5520-C)	mg/L	26.21	2.92
9.	Total Hardness	(2340-C)	mg/L	110.00	7.24
10.	TOC	(TOC Analyzer)	mg/L	26.49	--
11.	Arsenic as As	(ILC)	µg/L	<0.001	0.075
12.	Cadmium as Cd	(ICPMS)	µg/L	<0.003	0.075
13.	Mercury as Hg	(Mercury Analyser)	µg/L	0.017	0.075
14.	Iron as Fe	(ICPMS)	µg/L	9.63	0.15
15.	Selenium as Se	(ICPMS)	µg/L	2.87	--
16.	Chromium as Cr	(ICPMS)	µg/L	0.40	0.15





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17.	Lead as Pb	(ICPMS)	µg/L	<0.01	0.15
18.	Molybdenum as Mo	(ICPMS)	µg/L	2.02	--
19.	Nickle as Ni	(ICPMS)	µg/L	<0.02	0.15

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ILC= Ion Liquid Chromatograph., ICP-MS= Inductively Coupled Plasma Mass Spectrometry.

ngansari
23/3/23
Dr. NG Ansari
(Reviewed by)

Satyakam Patnaik
22/3/23
Dr. SATYAKAM PATNAIK
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Date: 02.05.2023

REVISED ANALYSIS REPORT

1. Nature of Sample : Surface Run Off Water
 2. Sample Code no. : SSP-460
 1 : 17+400 Km Purvanchal Expressway LHS, Row
 2 : 21+600 Km Purvanchal Expressway LHS, Row
 3 : 43+100 Km Purvanchal Expressway LHS, Row
 4 : 102+120 Km Purvanchal Expressway LHS, Row
 5 : 173+300 Km Purvanchal Expressway LHS, Row
 6 : 220+400 Km Purvanchal Expressway LHS, Row
 3. Sealed/Unsealed : Unsealed
 4. Number of samples : Six
 5. Method used : Liquid-Liquid Extraction
 6. Date of Receipt : 24.02.2023
 7. Date of Analysis : 02.03.2023
 8. Results :

S.No	Name of PAHs	MCL for PAHs in water µg/L	Concentration samples, µg/L					
			1	2	3	4	5	6
1.	Naphthalene	-	4.06	4.06	3.91	ND	3.38	5.11
2.	Phenanthrene	-	4.05	4.09	4.01	1.37	3.96	4.34
3.	Fluoranthene	-	1.40	3.46	2.26	2.45	1.61	2.50
4.	Benzo[g,h,i]perylene	0.4	1.48	2.08	1.62	1.17	1.32	1.56

Instrument used: UPLC Shimadzu Nexera
ND: Not Detected
 Maximum contaminant level (MCL) of US-EPA

The sample were analysed for 16 priority PAHs, detected PAHs is reported.

1. The report pertains to the sample tested only.
2. This report shall not be used or produced in fragments.
3. This report shall not be used for any other purpose than declared by the sponsor.
4. CSIR- IITR is not a regulatory and certifying agency hence no part of this report should be used for legal purposes under any circumstances.

Ansari
25/5/23
 (Dr Nasreen G. Ansari)
 Principal Scientist
 Analytical Chemistry Division

Summary of the Analysis Report
Surface Runoff : Purvanchal Expressway

Sl. No	Parameters	Unit	Values						Prescribed standard (Drinking Water) IS 10500:2012
			Sampling site						
			1 17+400 km	2 21+600 km	3 43+100 km	4 102+120 km	5 173+300 km	6 220+400 km	7 1510500:20 12
1	2	3	4	5	6	7	8	9	10
1	pH	-	7.98	8.18	8.23	8.59	8.41	8.28	6.5-8.5
2	Conductivity	mg/L	455.00	324.00	342.00	507.00	256.00	282.00	-
3	Turbidity	mg/L	34.34	6.27	3.74	12.24	1.20	1.83	1
4	Total Dissolved Solids	mg/L	316.00	190.00	128.00	198.00	154.00	148.00	500
5	Volatile Solids	mg/L	90.00	76.00	50.00	50.00	46.00	60.00	-
6	Fluoride	mg/L	0.50	0.75	0.25	0.40	0.55	0.43	1.0
7	COD	mg/L	58.24	44.93	19.97	16.22	19.55	26.21	-
8	Total Hardness	mg/L	208.00	80.00	134.00	174.00	108.00	110.00	200
9	TOC	mg/L	42.50	33.00	17.46	24.41	24.95	26.49	-
10	Arsenic as As	µg/L	>0.001	>0.001	>0.001	>0.001	>0.001	>0.001	10
11	Cadmium as Cd	µg/L	>0.003	>0.003	>0.003	>0.003	>0.003	>0.003	3.0
12	Mercury as Hg	µg/L	0.052	0.039	0.024	0.026	0.018	0.017	1.0
13	Iron as Fe	µg/L	14.73	14.56	7.97	15.39	7.43	9.63	300
14	Selenium as Se	µg/L	4.31	3.67	2.55	2.71	5.91	2.87	10
15	Chromium as Cr	µg/L	3.62	0.54	0.33	0.39	0.18	0.40	50
16	Lead as Pb	µg/L	>0.01	>0.01	>0.01	>0.01	>0.01	>0.01	10
17	Molybdenum as Mo	µg/L	3.79	4.46	1.38	1.12	2.74	2.02	70
18	Nickle as Ni	µg/L	>0.02	1.29	>0.02	>0.02	>0.02	>0.02	20
19	Naphthalene	µg/L	4.06	4.06	3.091	ND	3.38	5.11	_a
20	Phenanthrene	µg/L	4.05	4.09	4.01	1.37	3.96	4.34	100 ^b
21	Fluoranthene	µg/L	1.40	3.46	2.26	2.45	1.61	2.50	70 ^b
22	Benzo[g,h,i] perylene	µg/L	1.48	2.08	1.62	1.17	1.32	1.56	0.4 ^b

Note:

a. No standard available

b. EPA guidelines