BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

EASTERN ZONE BENCH, KOLKATA

ORIGINAL APPLICATION NO. 75/2023/E

In the matter of

ANKUR SHARMA

... APPLICANT

Versus

STATE OF WEST BENGAL & ORS.

... RESPONDENTS

AFFIDAVIT ON BEHALF OF THE RESPONDENT NUMBER 6, THE DISTRICT MAGISTRATE & COLLECTOR, HOWRAH

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Filed by Sri Sudip Kumar Dutta, Ld. State Advocate.

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 1381410

07 FEB 2025

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

EASTERN ZONE BENCH, KOLKATA

ORIGINAL APPLICATION NO. 75/2023/EZ

In The Matter of:

Ankur Sharma

... Applicant

Versus

The State of West Bengal & Ors.

... Respondents

SL NO 304 DT 7-2-2025

AFFIDAVIT ON BEHALF OF THE RESPONDENT NUMBER 6, THE DISTRICT MAGISTRATE & COLLECTOR, HOWRAH

I, Dr. Deepap Priya P., daughter of Sri I. Palraj, aged about 38 years, by faith: Hindu, by Occupation: Service, working for gain as the District Magistrate, Howrah at P.O. & P.S. Howrah, District Howrah Pin-711101 do hereby solemnly affirm and submit as follows: -

1. That this affidavit is being affirmed in pursuance to the solemn orders passed by the Hon'ble Tribunal dated 13.12.2024.

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 13914/18

07 FEB 2025

2. That the Hon'ble National Green Tribunal, Eastern Zone Bench in OA 75/2023 directed the District Magistrate, Howrah to file a better affidavit with supporting lab reports corroborating the figures given in the report of the Inspection Committee.

3. That the Hon'ble Green Tribunal, Eastern Zone Bench also directed the District Magistrate, Howrah to submit an Action Taken Report with regard to installation of The Common Effluent Treatment Plant (CETP).

4. That for compliance of the aforesaid solemn order of the Hon'ble Tribunal, a letter was sent to the Member Secretary, West Bengal Pollution Control Board vide this office no. 72/Env. /Howrah dated 17-12-2024 seeking the lab reports corroborating the figures given in the report of the Inspection Committee and the status of installation of the installation of the Common Effluent Treatment Plant (CETP).

   The photocopy of the aforesaid letter is annexed herewith and marked as **"R-1".**

5. That the Member Secretary, West Bengal Pollution Control Board vide his letter no. 46. File No.31/WPB-E(VII)/23 dated 30-01-2025 submitted the water quality lab reports .

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 13010/19

07 FEB 2025

It has also been stated in the said letter of the Member Secretary of the West Bengal Pollution Control Board that since Jalan Industrial Park is a private industrial park, hence the Association of the Industrial Park may be requested to send the Action Taken Report with regard to installation of the Common Effluent Treatment Plant (CETP).

The photocopy of the above-mentioned letter of the Member Secretary of WBPCB containing the water quality lab reports along with observation on CETP is annexed herewith and marked as **"R-2"**

6. That as per advice of the Member Secretary of the West Bengal Pollution Control Board, the President of the Welfare Society to the Members of Jalan Industrial Complex was requested to send an Action Taken Report vide this office letter no. 33/Env. /Howrah dated 04-02-2025 .

   The photocopy of the aforesaid letter sent to the Association of the Jalan Industrial Park is annexed herewith and marked as **"R-3'.**

7. That the Action Taken Report regarding installation of the Common Effluent Treatment Plant (CETP) has not yet been received from the Association of the Jalan Industrial Park.

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 1301/19

07 FEB 2025

8. The statements made in paragraph 1 to 13 are based on information derived from the record which are usually kept and maintained by the answering respondent in the ordinary course of business and which I belief to be true and rest thereof are my humble submission before this Hon'ble Tribunal.

Identified by me

Deponent

District Magistrate
Howrah

Advocate
State of West Bengal

NOTARY
SWAPNA DAS
HOWRAH
REGN. NO. 13814/19
GOVT. OF INDIA

07 FEB 2025

VERIFICATION:

I, the deponent above- named, do hereby verify, and declare that the statements made in the aforesaid paragraphs are true and correct to the best of my knowledge and information and I believe that nothing material has been concealed there from.

Verified at Howrah on day of February 2025.

Identified by me

Deponent

District Magistrate
Howrah

Advocate

State of West Bengal

IN IDENTIFICATION OF ADVOCATE
SOLEMNLY AFFIRMED BEFORE
SWAPNA DAS
NOTARY GOVT. OF INDIA
Regn. No. 13814/18
Judges' Court, Howr

NOTARY GOVT. OF INDIA
SWAPNA DAS HOWRAH REGN. NO. 13814/18

07 FEB 2025

R - 1

GOVERNMENT OF WEST BENGAL
OFFICE OF THE DISTRICT MAGISTRATE AND DISTRICT COLLECTOR
HOWRAH
(ENVIRONMENT CELL)

Memo No.: 72/Env./Howrah **Date: 17/12/2024**

To: The Member Secretary
West Bengal Pollution Control Board.

Sub: - Regarding order dated 13-12-2024 passed by Hon'ble NGT Eastern Zone Bench, Kolkata in connection with OA No. 75/2023/EZ in the matter between Ankur Sharma -vs- State of West Bengal & Ors.

Sir,

Please find enclosed the order passed by Hon'ble NGT, Eastern Zone Bench, Kolkata on 13-12-2024 in connection with the aforesaid OA in which Hon'ble Tribunal has directed the following : **"Mr. Ankur Sharma, the Applicant, submits that along with the Inspection Report filed with the affidavit of the District Magistrate, Howrah, dated 30.09.2024, a chart has been given at page no.322 of the paper book, showing the figures for various industrial houses but it does not contain the Lab Reports showing how it has been corroborated with the figures which have been given in the said chart...We, therefore, direct the District Magistrate, Howrah, to file a better affidavit with supporting lab reports corroborating the figures given at page no.322 of the paper book.....Mr. Ankur Sharma, the Applicant, referring to the Inspection Report of the West Bengal Pollution Control Board under the heading "Status of Implementation of Action Plans for Howrah area as on March, 2015" (page 309 of the paper book), submits that no compliance report has been filed by the Respondents with regard to installation of the Common Effluent Treatment Plant (CETP).... We, therefore, direct the District Magistrate, Howrah, to file an Action Taken Report with reference to the Report of the West Bengal Pollution Control Board."**

In view of above, **concerned Lab Reports showing how it has been corroborated with the figures given in the charts of the Inspection Report and Action Taken Report with regard to installation of the Common Effluent Treatment Plant (CETP)** may please be forwarded to this end so that affidavit can be conveniently submitted before Hon'ble Tribunal for compliance of the order passed on 13-12-2024 in the instant OA.

Enclo: - As stated.

Yours faithfully,

District Magistrate
Howrah

NOTARY GOVT OF INDIA SWARNA DAS HOWRAH REGN. NO. 13614/19

07 FEB 2025

R-2

West Bengal Pollution Control Board
(Department of Environment, Government of West Bengal)

Memo No. : . 46. **File No.** 31./WPB-E(VII)/23 **Date :** 30 **/01/2025**

To
The District Magistrate, Howrah

Sub: O.A. 75/2023/EZ (Ankur Sharma vs State of West Bengal & Ors.)
Ref: Memo No. 72/ENV./Howrah dated 17.12.2024

Sir,

Please find enclosed the water quality lab report in connection with the above-mentioned subject matter as sought for (copy enclosed).

Jalan Industrial Park is a private industrial park. You are requested to know from the Association of the Industrial Park with regard to Action Taken Report Central Effluent Treatment Plant (CETP). Logistics, if any required, may be provided from your end.

Special Land Acquisition Office, (HIT) Howrah
30 JAN 2025
RECEIVED
Contains without verified

DOCKET NO. 155 /L.A.O.(HIT)
DATED 30/01/2025

SPL. L.A.O.(HIT)
HOWRAH

Member Secretary
WBPCB

NOTARY GOVT OF INDIA
SWAPNA DAS HOWRAH REGN. NO 10614/16

Paribesh Bhawan, Bldg. 10A, Block LA, Sector III, Salt Lake, Kolkata 700 106
Tel: 2202-3000 / 2202-3003 / 2202-3006, Fax: 2202-3099, Email: ms.wbpcb-wb@bangla.gov.in, Website: www.wbpcb.gov.in

07 FEB 2025

WEST BENGAL POLLUTION CONTROL BOARD

Central Laboratory
Paribesh Bhawan, 10A, Block LA, Sector III, Salt Lake City, Kolkata 700 106.
Tel: (033) 2335-5953

TC-6291

Report NO. 374 **TEST REPORT** **Issue Date: 13/09/2023**

Sample Details	Canal Water	**A.R.F No.**	(1) 350/2023 (2) 351/2023 (3) 352/2023 (4) 353/2023 (5) 354/2023 (6) 355/2023
Sample Received From	Howrah Regional Office & Central Laboratory	**Sampling Date**	31/08/2023
Test Material	Canal Water Sample	**Sample Received on**	31/08/2023
Sampling Location	Six (06) nos. water sample from Barjola/ Sarenga irrigation canal and major drains joining the canal	**Total no of Sample**	6
Height/Depth	NA	**Period of Analysis**	31/08/2023 to 13/09/2023
Sample Condition	Good	**Climate Condition**	NA
Name of Industry/Canal	Sarenga Canal	**Address**	Howrah
Sample Collected by	Dr. Bijan. Bhaumik, Mr. Bhim Tikader, Mr. Subhendu Show & Mr. Anirban Bera , in presence of committee members formed by the NGT, EZ		

Sl	**Treated/Untreated**	**Collection Time**	**Sampling Details (Collection / Discharge)**
1	---	1305	**Barjola canal @ upstream of Jalan Industrial Complex**

Parameters	Result	Unit	LOD	Method
pH (Unit)	4.06	Units	4 Units	APHA 4500-H+ B (23rd edition, 2017)
DO	Nil	mg/L	0.2 mg/L	APHA 4500-O C (23rd edition, 2017)
COD	155.33	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (23rd edition, 2017),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	38.25	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	1.40	mg/L	1 mg/L	APHA 5520 B (23rd edition, 2017)
TSS	80.00	mg/L	4 mg/L	APHA 2540 D (23rd edition, 2017)
TDS(@180°C)	2354.00	mg/L	4 mg/L	APHA 2540 C (23rd edition, 2017)
Turbidity	173.67	NTU	0.50 NTU	APHA 2130 B (23rd edition, 2017)
Conductivity	3583.00	µS/cm	1 µS/cm	APHA 2510 B (23rd edition, 2017)
Chloride	1320.87	mg/L	5.00 mg/L	APHA 4500-Cl B (23rd edition, 2017)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Alkalinity	50.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Hardness	300.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition (2017): 2017
Nitrate-N	2.24	mg/L	0.05 mg/L	APHA 4500-NO3-B (23rd edition, 2017)
Phosphate-P	0.08	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);23rd edition, 2017
Sulfate	92.84	mg/L	5.00 mg/L	APHA 4500-SO42 E (23rd edition, 2017)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (23rd edition, 2017)

Authorised Signatory :

Jr. Scientist (Checked by)

Scientist (Verified by)

Chief Scientist (Issued by)

Copy To-

1. Chief Engineer – O & E, WBPCB
2. Chief Engineer, Planning / EIM Cell, WBPCB
3. Howrah Regional Office ,WBPCB

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 136470

07 FEB 2025

Report NO. 374 Issue Date: 13/09/2023

Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	7.83	mg/L	0.1 mg/L	APHA 4500-NH3 D (23rd edition, 2017)
Phenols	0.50	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (23rd edition, 2017)
Fluoride	0.72	mg/L	0.1 mg/L	APHA 4500-F C (23rd edition, 2017)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (23rd edition, 2017)
Calcium	76.00	mg/L	10.00 mg/L	APHA 3500-Ca B (23rd edition, 2017)
Magnesium	26.73	mg/L	10.00 mg/L	APHA 3500-Mg B (23rd edition, 2017)
Sodium	328.00	mg/L	2.30 mg/L	APHA 3500-Na B (23rd edition, 2017)
Potassium	15.20	mg/L	2.20 mg/L	APHA 3500-K B (23rd edition, 2017)
Aluminium	BDL	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (23rd edition, 2017)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Iron	282.00	mg/L	0.14 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (23rd edition, 2017)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Zinc	6.48	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)

2 **---** **1320** **Drain from Jalan Industrial Complex**

Parameters	Result	Unit	LOD	Method
pH (Unit)	5.84	Units	4 Units	APHA 4500-H+ B (23rd edition, 2017)
DO	Nil	mg/L	0.2 mg/L	APHA 4500-O C (23rd edition, 2017)
COD	48.54	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (23rd edition, 2017),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	23.79	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	BDL	mg/L	1 mg/L	APHA 5520 B (23rd edition, 2017)
TSS	164.00	mg/L	4 mg/L	APHA 2540 D (23rd edition, 2017)
TDS(@180°C)	1644.00	mg/L	4 mg/L	APHA 2540 C (23rd edition, 2017)
Turbidity	691.00	NTU	0.50 NTU	APHA 2130 B (23rd edition, 2017)
Conductivity	1846.00	µS/cm	1 µS/cm	APHA 2510 B (23rd edition, 2017)
Chloride	635.97	mg/L	5.00 mg/L	APHA 4500-Cl B (23rd edition, 2017)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Alkalinity	140.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Hardness	420.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition (2017): 2017
Nitrate-N	1.06	mg/L	0.05 mg/L	APHA 4500-NO3-B (23rd edition, 2017)
Phosphate-P	0.02	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);23rd edition, 2017
Sulfate	67.62	mg/L	5.00 mg/L	APHA 4500-SO42 E (23rd edition, 2017)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (23rd edition, 2017)

Authorised Signatory :

Jr. Scientist (Checked by)

Scientist (Verified by)

Chief Scientist (Issued by)

Copy To-

1. Chief Engineer – O & E, WBPCB
2. Chief Engineer, Planning / EIM Cell, WBPCB
3. Howrah Regional Office ,WBPCB

NOTARY GOVT OF INDIA SWAPNA DAS HOWRAH REGN NO 126/19

07 FEB 2025

Report NO. 374

Issue Date: 13/09/2023

Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	15.60	mg/L	0.1 mg/L	APHA 4500-NH3 D (23rd edition, 2017)
Phenols	BDL	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (23rd edition, 2017)
Fluoride	0.59	mg/L	0.1 mg/L	APHA 4500-F C (23rd edition, 2017)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (23rd edition, 2017)
Calcium	104.00	mg/L	10.00 mg/L	APHA 3500-Ca B (23rd edition, 2017)
Magnesium	38.88	mg/L	10.00 mg/L	APHA 3500-Mg B (23rd edition, 2017)
Sodium	165.00	mg/L	2.30 mg/L	APHA 3500-Na B (23rd edition, 2017)
Potassium	15.10	mg/L	2.20 mg/L	APHA 3500-K B (23rd edition, 2017)
Aluminium	BDL	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (23rd edition, 2017)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Iron	134.00	mg/L	0.14 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (23rd edition, 2017)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Zinc	6.59	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)

3 --- 1405 **Barjola canal @ Sonar Bangla Resort, NH-6**

Parameters	Result	Unit	LOD	Method
pH (Unit)	5.89	Units	4 Units	APHA 4500-H+ B (23rd edition, 2017)
DO	Nil	mg/L	0.2 mg/L	APHA 4500-O C (23rd edition, 2017)
COD	174.74	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (23rd edition, 2017),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	57.50	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	1.20	mg/L	1 mg/L	APHA 5520 B (23rd edition, 2017)
TSS	68.00	mg/L	4 mg/L	APHA 2540 D (23rd edition, 2017)
TDS(@180°C)	2260.00	mg/L	4 mg/L	APHA 2540 C (23rd edition, 2017)
Turbidity	524.00	NTU	0.50 NTU	APHA 2130 B (23rd edition, 2017)
Conductivity	2452.00	µS/cm	1 µS/cm	APHA 2510 B (23rd edition, 2017)
Chloride	1125.18	mg/L	5.00 mg/L	APHA 4500-Cl B (23rd edition, 2017)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Alkalinity	160.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Hardness	390.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition (2017): 2017
Nitrate-N	2.26	mg/L	0.05 mg/L	APHA 4500-NO3-B (23rd edition, 2017)
Phosphate-P	0.02	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);23rd edition, 2017
Sulfate	88.38	mg/L	5.00 mg/L	APHA 4500-SO42 E (23rd edition, 2017)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (23rd edition, 2017)

Authorised Signatory :

Jr. Scientist (Checked by)

Scientist (Verified by)

Chief Scientist (Issued by)

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO 10814/19

07 FEB 2025

Copy To-

1. Chief Engineer – O & E, WBPCB
2. Chief Engineer, Planning / EIM Cell, WBPCB
3. Howrah Regional Office ,WBPCB

Report NO. 374

Issue Date: 13/09/2023

Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	4.83	mg/L	0.1 mg/L	APHA 4500-NH3 D (23rd edition, 2017)
Phenols	BDL	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (23rd edition, 2017)
Fluoride	0.82	mg/L	0.1 mg/L	APHA 4500-F C (23rd edition, 2017)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (23rd edition, 2017)
Calcium	96.00	mg/L	10.00 mg/L	APHA 3500-Ca B (23rd edition, 2017)
Magnesium	36.45	mg/L	10.00 mg/L	APHA 3500-Mg B (23rd edition, 2017)
Sodium	455.00	mg/L	2.30 mg/L	APHA 3500-Na B (23rd edition, 2017)
Potassium	19.40	mg/L	2.20 mg/L	APHA 3500-K B (23rd edition, 2017)
Aluminium	BDL	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (23rd edition, 2017)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Iron	256.20	mg/L	0.14 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (23rd edition, 2017)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Zinc	2.44	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)

4 --- **1435** **Sandhipur canal @ Sankrail Industrial Park**

Parameters	Result	Unit	LOD	Method
pH (Unit)	6.41	Units	4 Units	APHA 4500-H+ B (23rd edition, 2017)
DO	Nil	mg/L	0.2 mg/L	APHA 4500-O C (23rd edition, 2017)
COD	155.33	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (23rd edition, 2017),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	62.63	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	1.60	mg/L	1 mg/L	APHA 5520 B (23rd edition, 2017)
TSS	126.00	mg/L	4 mg/L	APHA 2540 D (23rd edition, 2017)
TDS(@180°C)	2348.00	mg/L	4 mg/L	APHA 2540 C (23rd edition, 2017)
Turbidity	744.00	NTU	0.50 NTU	APHA 2130 B (23rd edition, 2017)
Conductivity	1680.00	µS/cm	1 µS/cm	APHA 2510 B (23rd edition, 2017)
Chloride	994.73	mg/L	5.00 mg/L	APHA 4500-Cl B (23rd edition, 2017)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Alkalinity	260.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Hardness	510.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition (2017): 2017
Nitrate-N	2.08	mg/L	0.05 mg/L	APHA 4500-NO3-B (23rd edition, 2017)
Phosphate-P	0.02	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);23rd edition, 2017
Sulfate	74.00	mg/L	5.00 mg/L	APHA 4500-SO42 E (23rd edition, 2017)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (23rd edition, 2017)

Authorised Signatory :

Jr. Scientist (Checked by)

Scientist (Verified by)

Chief Scientist (Issued by)

Copy To-

1. Chief Engineer – O & E, WBPCB
2. Chief Engineer, Planning / EIM Cell, WBPCB
3. Howrah Regional Office ,WBPCB

NOTARY SWAPNA DAS HOWRAH REGN. NO. 138/17/18 GOVT. OF INDIA

07 FEB 2025

Report NO. 374 Issue Date: 13/09/2023

Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	7.66	mg/L	0.1 mg/L	APHA 4500-NH3 D (23rd edition, 2017)
Phenols	BDL	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (23rd edition, 2017)
Fluoride	0.71	mg/L	0.1 mg/L	APHA 4500-F C (23rd edition, 2017)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (23rd edition, 2017)
Calcium	140.00	mg/L	10.00 mg/L	APHA 3500-Ca B (23rd edition, 2017)
Magnesium	38.88	mg/L	10.00 mg/L	APHA 3500-Mg B (23rd edition, 2017)
Sodium	620.00	mg/L	2.30 mg/L	APHA 3500-Na B (23rd edition, 2017)
Potassium	31.00	mg/L	2.20 mg/L	APHA 3500-K B (23rd edition, 2017)
Aluminium	BDL	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (23rd edition, 2017)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Iron	63.20	mg/L	0.14 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (23rd edition, 2017)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Zinc	1.69	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)

5 **---** **1540** **Barjola canal @ Abada – Ghoraghat**

Parameters	Result	Unit	LOD	Method
pH (Unit)	6.28	Units	4 Units	APHA 4500-H+ B (23rd edition, 2017)
DO	Nil	mg/L	0.2 mg/L	APHA 4500-O C (23rd edition, 2017)
COD	106.79	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (23rd edition, 2017),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	10.58	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	1.30	mg/L	1 mg/L	APHA 5520 B (23rd edition, 2017)
TSS	84.00	mg/L	4 mg/L	APHA 2540 D (23rd edition, 2017)
TDS(@180°C)	1258.00	mg/L	4 mg/L	APHA 2540 C (23rd edition, 2017)
Turbidity	778.00	NTU	0.50 NTU	APHA 2130 B (23rd edition, 2017)
Conductivity	1504.00	µS/cm	1 µS/cm	APHA 2510 B (23rd edition, 2017)
Chloride	489.21	mg/L	5.00 mg/L	APHA 4500-Cl B (23rd edition, 2017)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Alkalinity	140.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Hardness	290.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition (2017): 2017
Nitrate-N	0.88	mg/L	0.05 mg/L	APHA 4500-NO3-B (23rd edition, 2017)
Phosphate-P	0.03	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);23rd edition, 2017
Sulfate	45.63	mg/L	5.00 mg/L	APHA 4500-SO42 E (23rd edition, 2017)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (23rd edition, 2017)

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 1781/15

Authorised Signatory :

Jr. Scientist (Checked by) | Scientist (Verified by) | Chief Scientist (Issued by)

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3. Howrah Regional Office, WBPCB

Report NO. 374 Issue Date: 13/09/2023

Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	3.11	mg/L	0.1 mg/L	APHA 4500-NH3 D (23rd edition, 2017)
Phenols	NT	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (23rd edition, 2017)
Fluoride	0.59	mg/L	0.1 mg/L	APHA 4500-F C (23rd edition, 2017)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (23rd edition, 2017)
Calcium	80.00	mg/L	10.00 mg/L	APHA 3500-Ca B (23rd edition, 2017)
Magnesium	21.87	mg/L	10.00 mg/L	APHA 3500-Mg B (23rd edition, 2017)
Sodium	185.00	mg/L	2.30 mg/L	APHA 3500-Na B (23rd edition, 2017)
Potassium	12.70	mg/L	2.20 mg/L	APHA 3500-K B (23rd edition, 2017)
Aluminium	11.04	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (23rd edition, 2017)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Iron	50.10	mg/L	0.14 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (23rd edition, 2017)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Zinc	0.81	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)

6 **---** **1700** **Barjola canal @ Sarenga before confluence with Hooghly**

Parameters	Result	Unit	LOD	Method
pH (Unit)	6.68	Units	4 Units	APHA 4500-H+ B (23rd edition, 2017)
DO	0.41	mg/L	0.2 mg/L	APHA 4500-O C (23rd edition, 2017)
COD	38.83	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (23rd edition, 2017),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	8.82	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	2.00	mg/L	1 mg/L	APHA 5520 B (23rd edition, 2017)
TSS	188.00	mg/L	4 mg/L	APHA 2540 D (23rd edition, 2017)
TDS(@180°C)	2380.00	mg/L	4 mg/L	APHA 2540 C (23rd edition, 2017)
Turbidity	180.00	NTU	0.50 NTU	APHA 2130 B (23rd edition, 2017)
Conductivity	518.00	µS/cm	1 µS/cm	APHA 2510 B (23rd edition, 2017)
Chloride	97.84	mg/L	5.00 mg/L	APHA 4500-Cl B (23rd edition, 2017)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Alkalinity	150.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;23rd Edition (2017) :2017
Total Hardness	170.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition (2017): 2017
Nitrate-N	0.75	mg/L	0.05 mg/L	APHA 4500-NO3-B (23rd edition, 2017)
Phosphate-P	0.05	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);23rd edition, 2017
Sulfate	26.92	mg/L	5.00 mg/L	APHA 4500-SO42 E (23rd edition, 2017)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (23rd edition, 2017)

NOTARY SWAPNA DAS HOWRAH REGN. NO. 1361/18 GOVT. OF INDIA

Authorised Signatory :

Jr. Scientist (Checked by)

Scientist (Verified by)

Chief Scientist (Issued by)

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2. Chief Engineer, Planning / EIM Cell, WBPCB
3. Howrah Regional Office ,WBPCB

07 FEB 2025

Report NO. 374

Issue Date: 13/09/2023

Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	0.74	mg/L	0.1 mg/L	APHA 4500-NH3 D (23rd edition, 2017)
Phenols	NT	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (23rd edition, 2017)
Fluoride	0.43	mg/L	0.1 mg/L	APHA 4500-F C (23rd edition, 2017)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (23rd edition, 2017)
Calcium	40.00	mg/L	10.00 mg/L	APHA 3500-Ca B (23rd edition, 2017)
Magnesium	17.01	mg/L	10.00 mg/L	APHA 3500-Mg B (23rd edition, 2017)
Sodium	66.00	mg/L	2.30 mg/L	APHA 3500-Na B (23rd edition, 2017)
Potassium	6.00	mg/L	2.20 mg/L	APHA 3500-K B (23rd edition, 2017)
Aluminium	BDL	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (23rd edition, 2017)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Iron	13.53	mg/L	0.14 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (23rd edition, 2017)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)
Zinc	0.16	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (23rd edition, 2017)

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done
1) For Sampling details pl. refer to A.R.F No. (1) 350/2023 (2) 351/2023 (3) 352/2023 (4) 353/2023 (5) 354/2023 (6) 355/2023 Dated: 31/08/2023
2) Results are reported based on preserved materials.
3) Sample will be destroyed after 2 months from the date of issue of the certificate unless otherwise specified. Sample will be preserved according to Standard Method
4) The Test Report shall not be reproduced except in full, without the written permission of the Laboratory.
The Parameter are under the scope of NABL accreditation ISO/IEC 17025:2017 Certificate No. TC-6291 valid upto 30/03/2025

Remarks:-

Authorised Signatory :

Jr. Scientist (Checked by)

Scientist (Verified by)

Chief Scientist (Issued by)

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NOTARY SWAPNA DAS HOWRAH REGN. NO. 13814/18 GOVT. OF INDIA

07 FEB 2025

WEST BENGAL POLLUTION CONTROL BOARD

Central Laboratory
Paribesh Bhawan, 10A, Block LA, Sector III, Salt Lake City, Kolkata 700 106.
Tel: (033) 2335-5953

Report NO. 374 **TEST REPORT** **Issue Date: 13/09/2023**

Sample Details	Canal Water	**A.R.F No.**	(1) 350/2023 (2) 351/2023 (3) 352/2023 (4) 353/2023 (5) 354/2023 (6) 355/2023
Sample Received From	Howrah Regional Office & Central Laboratory	**Sampling Date**	31/08/2023
Test Material	Canal Water Sample	**Sample Received on**	31/08/2023
Sampling Location	Six (06) nos. water sample from Barjola/ Sarenga irrigation canal and major drains joining the canal	**Total no of Sample**	6
Height/Depth	NA	**Period of Analysis**	31/08/2023 to 13/09/2023
Sample Condition	Good	**Climate Condition**	NA
Name of Industry/Canal	Sarenga Canal	**Address**	Howrah
Sample Collected by	Dr. Bijan. Bhaumik, Mr. Bhim Tikader, Mr. Subhendu Show & Mr. Anirban Bera ; in presence of committee members formed by the NGT, EZ		

sl	**Treated/Untreated**	**Collection Time**	**Sampling Details (Collection / Discharge)**
1	---	1305	**Barjola canal @ upstream of Jalan Industrial Complex**

Parameters	Result	Unit	LOD	Method
Sulfide	NT	mg/l	--	APHA 4500-S(-2)F (23rd edition, 2017)
SAR	8.21	Units	--	By Calculation
TFS	2160.00	-	--	APHA 2540 E (23rd edition, 2017)
Total Residual Chlorine	Not Done	-	--	-

2	---	1320	**Drain from Jalan Industrial Complex**

Parameters	Result	Unit	LOD	Method
Sulfide	NT	mg/l	--	APHA 4500-S(-2)F (23rd edition, 2017)
SAR	3.49	Units	--	By Calculation
TFS	1730.00	-	--	APHA 2540 E (23rd edition, 2017)
Total Residual Chlorine	Not Done	-	--	-

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 1301/18

Authorised Signatory :

Jr. Scientist (Checked by) | Scientist (Verified by) | Chief. Scientist (Issued by)

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07 FEB 2025

Report NO. 374 Issue Date: 13/09/2023

3 --- 1405 **Barjola canal @ Sonar Bangla Resort, NH-6**

Parameters	Result	Unit	LOD	Method
Sulfide	NT	mg/l	--	APHA 4500-S(-2)F (23rd edition, 2017)
SAR	9.99	Units	--	By Calculation
TFS	1868.00	-	--	APHA 2540 E (23rd edition, 2017)
Total Residual Chlorine	Not Done	-	--	-

4 --- 1435 **Sandhipur canal @ Sankrail Industrial Park**

Parameters	Result	Unit	LOD	Method
Sulfide	NT	mg/l	--	APHA 4500-S(-2)F (23rd edition, 2017)
SAR	11.91	Units	--	By Calculation
TFS	2044.00	-	--	APHA 2540 E (23rd edition, 2017)
Total Residual Chlorine	Not Done	-	--	-

5 --- 1540 **Barjola canal @ Abada – Ghoraghat**

Parameters	Result	Unit	LOD	Method
Sulfide	NT	mg/l	--	APHA 4500-S(-2)F (23rd edition, 2017)
SAR	4.71	Units	--	By Calculation
TFS	964.00	-	--	APHA 2540 E (23rd edition, 2017)
Total Residual Chlorine	Not Done	-	--	-

6 --- 1700 **Barjola canal @ Sarenga before confluence with Hooghly**

Parameters	Result	Unit	LOD	Method
Sulfide	NT	mg/l	--	APHA 4500-S(-2)F (23rd edition, 2017)
SAR	2.20	Units	--	By Calculation
TFS	1420.00	-	--	APHA 2540 E (23rd edition, 2017)
Total Residual Chlorine	Not Done	-	--	-

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done
1) For Sampling details pl. refer to A.R.F No. (1) 350/2023 (2) 351/2023 (3) 352/2023 (4) 353/2023 (5) 354/2023 (6) 355/2023 Dated: 31/08/2023
2) Results are reported based on preserved materials.
3) Sample will be destroyed after 2 months from the date of issue of the certificate unless otherwise specified. Sample will be preserved according to Standard Method
4) The Test Report shall not be reproduced except in full, without the written permission of the Laboratory.

Remarks:- 1. Facility for Sn(Tin), TKN, Trichloroethane & Trichloroethylene estimation is not available.

NOTARY GOVT OF INDIA SWAPNA DAS HOWRAH REGN. NO. 13/419

Authorised Signatory :

Jr. Scientist (Checked by) Scientist (Verified by) Chief. Scientist (Issued by)

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WEST BENGAL POLLUTION CONTROL BOARD

Central Laboratory
Paribesh Bhawan, 10A, Block LA, Sector III, Salt Lake City, Kolkata 700 106.
Tel: (033) 2335-5953

TC-6291

Report NO. 374

TEST REPORT

Issue Date: 13/09/2023

Sample Details	Canal Water	**A.R.F No.**	(1) 1/2023 (2) 2/2023 (3) 3/2023 (4) 4/2023 (5) 5/2023 (6) 6/2023
Sample Received From	Howrah Regional Office & Central Laboratory	**Sampling Date**	31/08/2023
Test Material	Canal Water Sample	**Sample Received on**	31/08/2023
Sampling Location	Six (06) nos. water sample from Barjola/ Sarenga irrigation canal and major drains joining the canal	**Total no of Sample**	6
Height/Depth	NA	**Period of Analysis**	31/08/2023 to 13/09/2023
Sample Condition	Good	**Climate Condition**	NA
Name of Industry/Canal	Sarenga Canal	**Address**	Howrah
Sample Collected by	Dr. Bijan. Bhaumik, Mr. Bhim Tikader, Mr. Subhendu Show & Mr. Anirban Bera ; in presence of committee members formed by the NGT, EZ		

SI	Treated/Untreated	Collection Time	Sampling Details (Collection / Discharge)
1	---	1305	**Barjola canal @ upstream of Jalan Industrial Complex**

parameters	Result	Unit	LOD	Method
Fecal Coliform	<1.8	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(23rd edition, 2017)
Fecal Streptococci	<1.8	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(23rd edition, 2017)
Total Coliform	<1.8	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(23rd edition, 2017)

SI	Treated/Untreated	Collection Time	Sampling Details (Collection / Discharge)
2	---	1320	**Drain from Jalan Industrial Complex**

parameters	Result	Unit	LOD	Method
Fecal Coliform	23×10^2	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(23rd edition, 2017)
Fecal Streptococci	11×10	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(23rd edition, 2017)
Total Coliform	49×10^2	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(23rd edition, 2017)

SI	Treated/Untreated	Collection Time	Sampling Details (Collection / Discharge)
3	---	1405	**Barjola canal @ Sonar Bangla Resort, NH-6**

parameters	Result	Unit	LOD	Method
Fecal Coliform	17×10^3	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(23rd edition, 2017)
Fecal Streptococci	21×10	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(23rd edition, 2017)
Total Coliform	33×10^3	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(23rd edition, 2017)

Authorised Signatory :

Scientist
(Checked & Verified by)

Chief Scientist
(Issued by)

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NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 1361/18

07 FEB 2025

Report NO. 374

Issue Date:13/09/2023

4 --- 1435 **Sandhipur canal @ Sankrail Industrial Park**

parameters	Result	Unit	LOD	Method
Fecal Coliform	17×10^4	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(23rd edition, 2017)
Fecal Streptococci	33 × 10	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(23rd edition, 2017)
Total Coliform	49×10^4	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(23rd edition, 2017)

5 --- 1540 **Barjola canal @ Abada – Ghoraghat**

parameters	Result	Unit	LOD	Method
Fecal Coliform	26×10^4	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(23rd edition, 2017)
Fecal Streptococci	46 × 10	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(23rd edition, 2017)
Total Coliform	70×10^4	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(23rd edition, 2017)

6 --- 1700 **Barjola canal @ Sarenga before confluence with Hooghly**

parameters	Result	Unit	LOD	Method
Fecal Coliform	31×10^4	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(23rd edition, 2017)
Fecal Streptococci	110 × 10	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(23rd edition, 2017)
Total Coliform	94×10^4	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(23rd edition, 2017)

Note.- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done
1) For Sampling details pl. refer to A.R.F No. (1) 1/2023 (2) 2/2023 (3) 3/2023 (4) 4/2023 (5) 5/2023 (6) 6/2023 Dated: 31/08/2023
2) Results are reported based on preserved materials.
3) Sample will be destroyed after 2 months from the date of issue of the certificate unless otherwise specified. Sample will be preserved according to Standard Method
4) The Test Report shall not be reproduced except in full, without the written permission of the Laboratory.
5) The Parameter are under the scope of NABL accreditation ISO/IEC 17025:2017 Certificate No. TC-6291 valid upto 30/03/2025

Remarks:-

Authorised Signatory :

Scientist
(Checked & Verified by)

Chief Scientist
(Issued by)

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NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 1381/18

07 FEB 2025

WEST BENGAL POLLUTION CONTROL BOARD

Lifestyle for Environment

TC-6291

Central Laboratory
Paribesh Bhawan, 10A, Block LA, Sector III, Salt Lake City, Kolkata 700 106.
Tel: (033) 2335-5953

Report No: 1089 | TEST REPORT | Issue Date: 17/09/2024

Sample Details	Canal Water	**A.R.F No.**	(1) 203/2024 (2) 204/2024 (3) 205/2024 (4) 206/2024 (5) 207/2024 (6) 208/2024
Sample Received From	Howrah Regional Office & Central Laboratory	**Sampling Date**	11/09/2024
Test Material	Canal Water Sample	**Sample Received on**	11/09/2024
Sampling Location	Six (06) nos. water sample from Barjola/ Sarenga irrigation canal and major drains joining the canal	**Total no of Sample**	6
Height/Depth	NA	**Period of Analysis**	11/09/2024 to 17/09/2024
Sample Condition	Good	**Climate Condition**	NA
Name of Industry/Source	Sarenga Canal	**Address**	Howrah
Sample Collected by	Mr. Asit Bhowmic, Mr. Bhim Tikader, Mr. Md Sohaib & Mr. Anirban Bera in presence of other committee members of NGT		

Sampling Procedure Reference - CL/SOP/32

Sl	Treated/Untreated	Collection Time	Sampling Details (Collection / Discharge)
1	--	1250	Barjola Canal @ Sarenga before Confluence with Hooghly River (22.521304;88.206838)

Parameters	Result	Unit	LOD	Method
pH (Unit)	6.71	Units	4 Units	APHA 4500-H+ B (24th edition, 2023)
DO	Nil	mg/L	0.2 mg/L	APHA 4500-O C (24th edition, 2023)
COD	50.00	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (24th edition, 2023),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	10.83	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	1.10	mg/L	1 mg/L	APHA 5520 B (24th edition, 2023)
TSS	110.00	mg/L	4 mg/L	APHA 2540 D (24th edition, 2023)
TDS(@180°C)	912.00	mg/L	4 mg/L	APHA 2540 C (24th edition, 2023)
Turbidity	425.00	NTU	0.50 NTU	APHA 2130 B (24th edition, 2023)
Conductivity	1250.00	µS/cm	1 µS/cm	APHA 2510 B (24th edition, 2023)
Chloride	274.81	mg/L	5.00 mg/L	APHA 4500-Cl B (24th edition, 2023)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Alkalinity	160.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Hardness	240.00	mg/L	10.00 mg/l	APHA Standard Methods 2340 C; 24th edition (2023): 2023
Nitrate-N	0.62	mg/L	0.05 mg/L	APHA 4500-NO3-B (24th edition, 2023)
Phosphate-P	0.03	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);24th edition, 2023
Sulfate	29.25	mg/L	5.00 mg/L	APHA 4500-SO42 E (24th edition, 2023)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (24th edition, 2023)

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Jr. Scientist (Checked by) | Scientist (Verified by) | Chief Scientist (Issued by)

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Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	3.32	mg/L	0.1 mg/L	APHA 4500-NH3 D (24th edition, 2023)
Phenols	BDL	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (24th edition, 2023)
Fluoride	0.45	mg/L	0.1 mg/L	APHA 4500-F C (24th edition, 2023)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),24th edition, 2023
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (24th edition, 2023)
Calcium	68.00	mg/L	10.00 mg/L	APHA 3500-Ca B (24th edition, 2023)
Magnesium	17.01	mg/L	10.00 mg/L	APHA 3500-Mg B (24th edition, 2023)
Sodium	152.00	mg/L	2.30 mg/L	APHA 3500-Na B (24th edition, 2023)
Potassium	13.80	mg/L	2.20 mg/L	APHA 3500-K B (24th edition, 2023)
Aluminium	BDL	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (24th edition, 2023)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Iron	35.38	mg/L	0.14 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (24th edition, 2023)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Zinc	0.93	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)

2 -- 1355 **Barjola Canal @ Abada – Ghoraghat (22.544168;88.19895)**

Parameters	Result	Unit	LOD	Method
pH (Unit)	6.70	Units	4 Units	APHA 4500-H+ B (24th edition, 2023)
DO	Nil	mg/L	0.2 mg/L	APHA 4500-O C (24th edition, 2023)
COD	60.00	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (24th edition, 2023),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	22.25	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	1.00	mg/L	1 mg/L	APHA 5520 B (24th edition, 2023)
TSS	90.00	mg/L	4 mg/L	APHA 2540 D (24th edition, 2023)
TDS(@180°C)	864.00	mg/L	4 mg/L	APHA 2540 C (24th edition, 2023)
Turbidity	195.00	NTU	0.50 NTU	APHA 2130 B (24th edition, 2023)
Conductivity	1476.00	µS/cm	1 µS/cm	APHA 2510 B (24th edition, 2023)
Chloride	332.66	mg/L	5.00 mg/L	APHA 4500-Cl B (24th edition, 2023)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Alkalinity	210.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Hardness	280.00	mg/L	10.00 mg/l	APHA Standard Methods 2340 C; 24th edition (2023): 2023
Nitrate-N	0.99	mg/L	0.05 mg/L	APHA 4500-NO3-B (24th edition, 2023)
Phosphate-P	0.03	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);24th edition, 2023
Sulfate	40.45	mg/L	5.00 mg/L	APHA 4500-SO42 E (24th edition, 2023)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (24th edition, 2023)

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Jr. Scientist (Checked by)

Scientist (Verified by)

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Chief Scientist (Issued by)

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Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	4.46	mg/L	0.1 mg/L	APHA 4500-NH3 D (24th edition, 2023)
Phenols	BDL	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (24th edition, 2023)
Fluoride	0.47	mg/L	0.1 mg/L	APHA 4500-F C (24th edition, 2023)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),24th edition, 2023
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (24th edition, 2023)
Calcium	72.00	mg/L	10.00 mg/L	APHA 3500-Ca B (24th edition, 2023)
Magnesium	24.30	mg/L	10.00 mg/L	APHA 3500-Mg B (24th edition, 2023)
Sodium	176.00	mg/L	2.30 mg/L	APHA 3500-Na B (24th edition, 2023)
Potassium	13.90	mg/L	2.20 mg/L	APHA 3500-K B (24th edition, 2023)
Aluminium	BDL	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (24th edition, 2023)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Iron	17.73	mg/L	0.14 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (24th edition, 2023)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Zinc	0.79	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)

3 -- 1440 **Barjola Canal @ Sonar Bangla Resort, NH-6 (22.573888;88.187893)**

Parameters	Result	Unit	LOD	Method
pH (Unit)	6.68	Units	4 Units	APHA 4500-H+ B (24th edition, 2023)
DO	Nil	mg/L	0.2 mg/L	APHA 4500-O C (24th edition, 2023)
COD	90.00	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (24th edition, 2023),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	25.83	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	2.00	mg/L	1 mg/L	APHA 5520 B (24th edition, 2023)
TSS	92.00	mg/L	4 mg/L	APHA 2540 D (24th edition, 2023)
TDS(@180°C)	870.00	mg/L	4 mg/L	APHA 2540 C (24th edition, 2023)
Turbidity	246.00	NTU	0.50 NTU	APHA 2130 B (24th edition, 2023)
Conductivity	1530.00	µS/cm	1 µS/cm	APHA 2510 B (24th edition, 2023)
Chloride	342.31	mg/L	5.00 mg/L	APHA 4500-Cl B (24th edition, 2023)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Alkalinity	210.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Hardness	330.00	mg/L	10.00 mg/l	APHA Standard Methods 2340 C; 24th edition (2023): 2023
Nitrate-N	1.06	mg/L	0.05 mg/L	APHA 4500-NO3-B (24th edition, 2023)
Phosphate-P	0.02	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);24th edition, 2023
Sulfate	40.67	mg/L	5.00 mg/L	APHA 4500-SO42 E (24th edition, 2023)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (24th edition, 2023)

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Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	5.34	mg/L	0.1 mg/L	APHA 4500-NH3 D (24th edition, 2023)
Phenols	0.20	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (24th edition, 2023)
Fluoride	0.57	mg/L	0.1 mg/L	APHA 4500-F C (24th edition, 2023)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),24th edition, 2023
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (24th edition, 2023)
Calcium	76.00	mg/L	10.00 mg/L	APHA 3500-Ca B (24th edition, 2023)
Magnesium	34.02	mg/L	10.00 mg/L	APHA 3500-Mg B (24th edition, 2023)
Sodium	240.00	mg/L	2.30 mg/L	APHA 3500-Na B (24th edition, 2023)
Potassium	14.70	mg/L	2.20 mg/L	APHA 3500-K B (24th edition, 2023)
Aluminium	BDL	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (24th edition, 2023)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Iron	20.73	mg/l	0.14 mg/l	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (24th edition, 2023)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Zinc	0.92	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)

4 -- 1505 **Sandhipur Khal @ Sankrail Industrial Park (22.567053;88.190237)**

Parameters	Result	Unit	LOD	Method
pH (Unit)	6.94	Units	4 Units	APHA 4500-H+ B (24th edition, 2023)
DO	Nil	mg/L	0.2 mg/L	APHA 4500-O C (24th edition, 2023)
COD	120.00	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (24th edition, 2023),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	78.13	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	BDL	mg/L	1 mg/L	APHA 5520 B (24th edition, 2023)
TSS	86.00	mg/L	4 mg/L	APHA 2540 D (24th edition, 2023)
TDS(@180°C)	1594.00	mg/L	4 mg/L	APHA 2540 C (24th edition, 2023)
Turbidity	78.00	NTU	0.50 NTU	APHA 2130 B (24th edition, 2023)
Conductivity	2597.00	µS/cm	1 µS/cm	APHA 2510 B (24th edition, 2023)
Chloride	593.00	mg/L	5.00 mg/L	APHA 4500-Cl B (24th edition, 2023)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Alkalinity	340.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Hardness	450.00	mg/L	10.00 mg/l	APHA Standard Methods 2340 C; 24th edition (2023): 2023
Nitrate-N	1.21	mg/L	0.05 mg/L	APHA 4500-NO3-B (24th edition, 2023)
Phosphate-P	0.06	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);24th edition, 2023
Sulfate	59.76	mg/L	5.00 mg/L	APHA 4500-SO42 E (24th edition, 2023)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (24th edition, 2023)

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Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	7.16	mg/L	0.1 mg/L	APHA 4500-NH3 D (24th edition, 2023)
Phenols	BDL	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (24th edition, 2023)
Fluoride	0.56	mg/L	0.1 mg/L	APHA 4500-F C (24th edition, 2023)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),24th edition, 2023
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (24th edition, 2023)
Calcium	132.00	mg/L	10.00 mg/L	APHA 3500-Ca B (24th edition, 2023)
Magnesium	29.16	mg/L	10.00 mg/L	APHA 3500-Mg B (24th edition, 2023)
Sodium	440.00	mg/L	2.30 mg/L	APHA 3500-Na B (24th edition, 2023)
Potassium	30.50	mg/L	2.20 mg/L	APHA 3500-K B (24th edition, 2023)
Aluminium	BDL	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (24th edition, 2023)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Iron	6.60	mg/L	0.14 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (24th edition, 2023)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Zinc	0.34	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)

5 -- 1540 **Drain from Jalan Industrial Complex (22.59357;88.212892)**

Parameters	Result	Unit	LOD	Method
pH (Unit)	6.51	Units	4 Units	APHA 4500-H+ B (24th edition, 2023)
DO	Nil	mg/L	0.2 mg/L	APHA 4500-O C (24th edition, 2023)
COD	100.00	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (24th edition, 2023),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	50.00	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	1.10	mg/L	1 mg/L	APHA 5520 B (24th edition, 2023)
TSS	146.00	mg/L	4 mg/L	APHA 2540 D (24th edition, 2023)
TDS(@180°C)	1174.00	mg/L	4 mg/L	APHA 2540 C (24th edition, 2023)
Turbidity	441.00	NTU	0.50 NTU	APHA 2130 B (24th edition, 2023)
Conductivity	1298.00	µS/cm	1 µS/cm	APHA 2510 B (24th edition, 2023)
Chloride	323.02	mg/L	5.00 mg/L	APHA 4500-Cl B (24th edition, 2023)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Alkalinity	180.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Hardness	380.00	mg/L	10.00 mg/l	APHA Standard Methods 2340 C; 24th edition (2023): 2023
Nitrate-N	2.51	mg/L	0.05 mg/L	APHA 4500-NO3-B (24th edition, 2023)
Phosphate-P	0.06	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);24th edition, 2023
Sulfate	58.54	mg/L	5.00 mg/L	APHA 4500-SO42 E (24th edition, 2023)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (24th edition, 2023)

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Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	9.37	mg/L	0.1 mg/L	APHA 4500-NH3 D (24th edition, 2023)
Phenols	0.65	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (24th edition, 2023)
Fluoride	0.89	mg/L	0.1 mg/L	APHA 4500-F C (24th edition, 2023)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),24th edition, 2023
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (24th edition, 2023)
Calcium	112.00	mg/L	10.00 mg/L	APHA 3500-Ca B (24th edition, 2023)
Magnesium	24.30	mg/L	10.00 mg/L	APHA 3500-Mg B (24th edition, 2023)
Sodium	155.00	mg/L	2.30 mg/L	APHA 3500-Na B (24th edition, 2023)
Potassium	18.70	mg/L	2.20 mg/L	APHA 3500-K B (24th edition, 2023)
Aluminium	BDL	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (24th edition, 2023)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Iron	53.66	mg/L	0.14 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (24th edition, 2023)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Zinc	4.60	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)

6 -- 1600 **Barjola Canal @ upstream of Jalan Industrial Complex (22.593557;88.213314)**

Parameters	Result	Unit	LOD	Method
pH (Unit)	6.44	Units	4 Units	APHA 4500-H+ B (24th edition, 2023)
DO	Nil	mg/L	0.2 mg/L	APHA 4500-O C (24th edition, 2023)
COD	100.00	mg/L	6.00 mg/L	APHA 5220 B, 5220 D (24th edition, 2023),USEPA Method 410.4, revision 2.0,August 1993
BOD(3days@27°C)	31.67	mg/L	0.20 mg/L	CL/WI/5.4/19 issue # 2 issue Date 13/02/2015 ,2015
O&G	1.20	mg/L	1 mg/L	APHA 5520 B (24th edition, 2023)
TSS	134.00	mg/L	4 mg/L	APHA 2540 D (24th edition, 2023)
TDS(@180°C)	1422.00	mg/L	4 mg/L	APHA 2540 C (24th edition, 2023)
Turbidity	669.00	NTU	0.50 NTU	APHA 2130 B (24th edition, 2023)
Conductivity	1780.00	µS/cm	1 µS/cm	APHA 2510 B (24th edition, 2023)
Chloride	544.79	mg/L	5.00 mg/L	APHA 4500-Cl B (24th edition, 2023)
p-Alkalinity	Nil	mg/L	-	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Alkalinity	90.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B;24th Edition (2023) :2023
Total Hardness	340.00	mg/L	10.00 mg/l	APHA Standard Methods 2340 C; 24th edition (2023): 2023
Nitrate-N	0.97	mg/L	0.05 mg/L	APHA 4500-NO3-B (24th edition, 2023)
Phosphate-P	0.04	mg/L	0.01 mg/L	APHA 4500-P B, 3030 K(digestion)& 4500-P D(determination);24th edition, 2023
Sulfate	65.30	mg/L	5.00 mg/L	APHA 4500-SO42 E (24th edition, 2023)
Chromium (6+)	BDL	mg/L	0.10 mg/L	APHA 3500-Cr B (24th edition, 2023)

Authorised Signatory :

Jr. Scientist (Checked by)

Scientist (Verified by)

Chief Scientist (Issued by)

NOTARY SWAPNA DAS HOWRAH REGN. NO 13814/16 GOVT. OF INDIA

07 FEB 2025

Copy To-
1. Chief Engineer, Planning / EIM Cell, WBPCB
2. OSD (O & E), WBPCB
3. Howrah Regional Office, WBPCB

Report No: 1089 Issue Date: 17/09/2024

Parameters	Result	Unit	LOD	Method
Ammoniacal Nitrogen	8.66	mg/L	0.1 mg/L	APHA 4500-NH3 D (24th edition, 2023)
Phenols	BDL	mg/L	0.20 mg/L	APHA 5530 B, 5530 D (24th edition, 2023)
Fluoride	0.72	mg/L	0.1 mg/L	APHA 4500-F C (24th edition, 2023)
Cyanide	BDL	mg/L	0.1 mg/L	APHA 4500-CN C,(Distillation), 4500-CN F (determination),24th edition, 2023
Boron	BDL	mg/L	0.10 mg/L	APHA 4500-B C (24th edition, 2023)
Calcium	96.00	mg/L	10.00 mg/L	APHA 3500-Ca B (24th edition, 2023)
Magnesium	24.30	mg/L	10.00 mg/L	APHA 3500-Mg B (24th edition, 2023)
Sodium	190.00	mg/L	2.30 mg/L	APHA 3500-Na B (24th edition, 2023)
Potassium	14.20	mg/L	2.20 mg/L	APHA 3500-K B (24th edition, 2023)
Aluminium	BDL	mg/L	5.00 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Arsenic	BDL	mg/L	0.005 mg/L	APHA 3030 E, 3030 K & 3113 B (24th edition, 2023)
Cadmium	BDL	mg/L	0.055 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Copper	BDL	mg/L	0.11 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Total Chromium	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Iron	99.45	mg/L	0.14 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Lead	BDL	mg/L	0.25 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Mercury	BDL	mg/L	0.003 mg/L	APHA 3112 B (24th edition, 2023)
Nickel	BDL	mg/L	0.35 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)
Zinc	6.00	mg/L	0.08 mg/L	APHA 3030 E, 3030 K & 3111B (24th edition, 2023)

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done
1) For Sampling details pl. refer to A.R.F No. (1) 203/2024 (2) 204/2024 (3) 205/2024 (4) 206/2024 (5) 207/2024 (6) 208/2024 Dated: 11/09/2024.
2) Results are reported based on preserved materials.
3) Sample will be destroyed after 2 months from the date of receiving of the sample/s. Sample will be preserved according to Standard Method.
4) The Test Report shall not be reproduced without the written permission of the Laboratory.
The Parameter are under the scope of NABL accreditation ISO/IEC 17025:2017 Certificate No TC-6291 valid upto 30/03/2025.

Remarks:-

Authorised Signatory :

Jr. Scientist (Checked by) | Scientist (Verified by) | Chief Scientist (Issued by)

Copy To-

1. Chief Engineer, Planning / EIM Cell, WBPCB
2. OSD (O & E), WBPCB
3. Howrah Regional Office, WBPCB

End of Report

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 13/1/19

07 FEB 2025

WEST BENGAL POLLUTION CONTROL BOARD

Central Laboratory
Paribesh Bhawan, 10A, Block LA, Sector III, Salt Lake City, Kolkata 700 106.
Tel: (033) 2335-5953

Report No: 1089 | TEST REPORT | Issue Date: 17/09/2024

Sample Details	Canal Water	**A.R.F No.**	(1) 203/2024 (2) 204/2024 (3) 205/2024 (4) 206/2024 (5) 207/2024 (6) 208/2024
Sample Received From	Howrah Regional Office & Central Laboratory	**Sampling Date**	11/09/2024
Test Material	Canal Water Sample	**Sample Received on**	11/09/2024
Sampling Location	Six (06) nos. water sample from Barjola/ Sarenga irrigation canal and major drains joining the canal	**Total no of Sample**	6
Height/Depth	NA	**Period of Analysis**	11/09/2024 to 17/09/2024
Sample Condition	Good	**Climate Condition**	NA
Name of Industry/Source	Sarenga Canal	**Address**	Howrah
Sample Collected by	Mr. Asit Bhowmic, Mr. Bhim Tikader, Mr. Md Sohaib & Mr. Anirban Bera in presence of other committee members of NGT		

Sampling Procedure Reference - CL/SOP/32

Sl	Treated/Untreated	Collection Time	Sampling Details (Collection / Discharge)
1	--	1250	Barjola Canal @ Sarenga before Confluence with Hooghly River (22.521304;88.206838)

Parameters	Result	Unit	LOD	Method
SAR	4.26	Units	--	By Calculation
Sulfide	NT	mg/L	--	APHA 4500-S(-2)F (24th edition, 2023)
TFS	694.00	mg/L	--	APHA 2540 E (24th edition, 2023)
Total Residual Chlorine	Not Done	-	--	--

Sl	Treated/Untreated	Collection Time	Sampling Details (Collection / Discharge)
2	--	1355	Barjola Canal @ Abada – Ghoraghat (22.544168;88.19895)

Parameters	Result	Unit	LOD	Method
SAR	4.56	Units	--	By Calculation
Sulfide	NT	mg/L	--	APHA 4500-S(-2)F (24th edition, 2023)
TFS	780.00	mg/L	--	APHA 2540 E (24th edition, 2023)
Total Residual Chlorine	Not Done	-	--	--

Sl	Treated/Untreated	Collection Time	Sampling Details (Collection / Discharge)
3	--	1440	Barjola Canal @ Sonar Bangla Resort, NH-6 (22.573888;88.187893)

Parameters	Result	Unit	LOD	Method
SAR	5.73	Units	--	By Calculation
Sulfide	NT	mg/L	--	APHA 4500-S(-2)F (24th edition, 2023)
TFS	848.00	mg/L	--	APHA 2540 E (24th edition, 2023)
Total Residual Chlorine	Not Done	-	--	--

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 31/2018

Authorised Signatory

Jr. Scientist (Checked by)

Scientist (Verified by)

Chief Scientist (Issued by)

07 FEB 2025

Copy To-
1. Chief Engineer, Planning / EIM Cell, WBPCB
2. OSD (O & E), WBPCB
3. Howrah Regional Office ,WBPCB

eport No: 1089 Issue Date: 17/09/2024

4 -- 1505 Sandhipur Khal @ Sankrail Industrial Park (22.567053;88.190237)

Parameters	Result	Unit	LOD	Method
SAR	9.00	Units	- -	By Calculation
Sulfide	NT	mg/L	- -	APHA 4500-S(-2)F (24th edition, 2023)
TFS	1354.00	mg/L	- -	APHA 2540 E (24th edition, 2023)
Total Residual Chlorine	Not Done	-	--	--

5 -- 1540 Drain from Jalan Industrial Complex (22.59357;88.212892)

Parameters	Result	Unit	LOD	Method
SAR	3.45	Units	- -	By Calculation
Sulfide	NT	mg/L	- -	APHA 4500-S(-2)F (24th edition, 2023)
TFS	874.00	mg/L	- -	APHA 2540 E (24th edition, 2023)
Total Residual Chlorine	Not Done	-	--	--

6 -- 1600 Barjola Canal @ upstream of Jalan Industrial Complex (22.593557;88.213314)

Parameters	Result	Unit	LOD	Method
SAR	4.47	Units	- -	By Calculation
Sulfide	NT	mg/L	- -	APHA 4500-S(-2)F (24th edition, 2023)
TFS	988.00	mg/L	- -	APHA 2540 E (24th edition, 2023)
Total Residual Chlorine	Not Done	-	--	--

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable,ND: Not Done
1) For Sampling details pl. refer to A.R.F No. (1) 203/2024 (2) 204/2024 (3) 205/2024 (4) 206/2024 (5) 207/2024 (6) 208/2024 Dated: 11/09/2024.
2) Results are reported based on preserved materials.
3) Sample will be destroyed after 2 months from the date of receiving of the sample/s. Sample will be preserved according to Standard Method.
4) The Test Report shall not be reproduced without the written permission of the Laboratory.

Remarks:- 1. Facility for Sn (Tin), TKN, Trichloroethane & Trichloroethylene estimation is not available.

Authorised Signatory :

Jr. Scientist (Checked by)

Scientist (Verified by)

Chief Scientist (Issued by)

Copy To-
1. Chief Engineer, Planning / EIM Cell, WBPCB
2. OSD (O & E), WBPCB
3. Howrah Regional Office ,WBPCB

End of Report

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 13614/10

07 FEB 2025

WEST BENGAL POLLUTION CONTROL BOARD

Central Laboratory
Paribesh Bhawan, 10A, Block LA, Sector III, Salt Lake City, Kolkata 700 106.
Tel: (033) 2335-5953

TC-8291

Report No: 314 | TEST REPORT | Issue Date: 17/09/2024

Sample Details	Canal Water	**A.R.F No.**	(1) 200/2024 (2) 201/2024 (3) 202/2024 (4) 203/2024 (5) 204/2024 (6) 205/2024
Sample Received From	Howrah Regional Office & Central Laboratory	**Sampling Date**	11/09/2024
Test Material	Canal Water Sample	**Sample Received on**	11/09/2024
Sampling Location	Six (06) nos. water sample from Barjola/ Sarenga irrigation canal and major drains joining the canal	**Total no of Sample**	6
Height/Depth	NA	**Period of Analysis**	11/09/2024 to 16/09/2024
Sample Condition	Good	**Climate Condition**	NA
Name of Industry/Source	Sarenga Canal	**Address**	Howrah
Sample Collected by	Mr. Asit Bhowmic, Mr. Bhim Tikader, Mr. Md Sohaib & Mr. Anirban Bera in presence of other committee members of NGT		

Sampling Procedure Reference - CL/SOP/32

Sl	Treated/Untreated	Collection Time	Sampling Details (Collection / Discharge)
1	--	1250	Barjola Canal @ Sarenga before Confluence with Hooghly Rive (22.521304;88.206838)

Parameters	Result	Unit	LOD	Method
Total Coliform	7.8×10^5	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(24th edition, 2023)
Fecal Coliform	4.5×10^5	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(24th edition, 2023)
Fecal Streptococci	7.8×10^3	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(24th edition, 2023)

Sl	Treated/Untreated	Collection Time	Sampling Details (Collection / Discharge)
2	--	1355	Barjola Canal @ Abada – Ghoraghat (22.544168;88.19895)

Parameters	Result	Unit	LOD	Method
Total Coliform	79×10^5	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(24th edition, 2023)
Fecal Coliform	23×10^5	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(24th edition, 2023)
Fecal Streptococci	23×10^3	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(24th edition, 2023)

Sl	Treated/Untreated	Collection Time	Sampling Details (Collection / Discharge)
3	--	1440	Barjola Canal @ Sonar Bangla Resort, NH-6 (22.573888;88.187893)

Parameters	Result	Unit	LOD	Method
Total Coliform	46×10^5	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(24th edition, 2023)
Fecal Coliform	4.5×10^5	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(24th edition, 2023)
Fecal Streptococci	49×10^3	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(24th edition, 2023)

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN NO 13814/18

Authorised Signatory

Env. Analyst
(Checked & Verified by)

Chief Scientist
(Issued by)

07 FEB 2025

Copy To-

1. Chief Engineer, Planning / EIM Cell, WBPCB
2. OSD (O & E), WBPCB

Report No: 314

Issue Date: 17/09/2024

4 -- 1505 Sandhipur Khal @ Sankrail Industrial Park (22.567053;88.190237)

Parameters	Result	Unit	LOD	Method
Total Coliform	240×10^5	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(24th edition, 2023)
Fecal Coliform	120×10^5	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(24th edition, 2023)
Fecal Streptococci	32×10^3	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(24th edition, 2023)

5 -- 1540 Drain from Jalan Industrial Complex (22.59357;88.212892)

Parameters	Result	Unit	LOD	Method
Total Coliform	4.0×10^5	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(24th edition, 2023)
Fecal Coliform	2.0×10^5	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(24th edition, 2023)
Fecal Streptococci	4.5×10^3	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(24th edition, 2023)

6 -- 1600 Barjola Canal @ upstream of Jalan Industrial Complex (22.593557;88.213314)

Parameters	Result	Unit	LOD	Method
Total Coliform	4.5 × 10	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 B(24th edition, 2023)
Fecal Coliform	2.0 × 10	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9221 E(24th edition, 2023)
Fecal Streptococci	4.5 × 10	MPN/100 ml	<1.8 MPN/100 ml	APHA Standard Methods,9230 B(24th edition, 2023)

Note:- LOD: Limit of Detection, BDL. Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done
1) For Sampling details pl. refer to A.R.F No. (1) 200/2024 (2) 201/2024 (3) 202/2024 (4) 203/2024 (5) 204/2024 (6) 205/2024 Dated: 11/09/2024.
2) Results are reported based on preserved materials.
3) Sample will be destroyed after 15 days from the date of receiving of the sample/s. Sample will be preserved according to Standard Method.
4) The Test Report shall not be reproduced without the written permission of the Laboratory.
The Parameter are under the scope of NABL accreditation ISO/IEC 17025:2017 Certificate No TC-6291 valid upto 30/03/2025.

Remarks:-

Authorised Signatory :

Env. Analyst
(Checked & Verified by)

Chief Scientist
(Issued by)

Copy To-

1. Chief Engineer, Planning / EIM Cell, WBPCB
2. OSD (O & E), WBPCB
3. Howrah Regional Office, WBPCB

End of Report

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 13814/18

07 FEB 2025

R-3

GOVERNMENT OF WEST BENGAL

OFFICE OF THE DISTRICT MAGISTRATE & DISTRICT COLLECTOR
HOWRAH
(ENVIRONMENT CELL)

Memo No.: 33 /Env. /Howrah **Date: 04 /02/2025**

To: Sri Sanjay Agarwal,
President,
Welfare Society to the Members of Jalan Industrial Complex
Gate-I, Left Lane -I
Jalan Industrial Complex,
Howrah-711411

Sub : Seeking Action Taken Report with regard to Central Effluent Treatment Plant (CETP) in connection with solemn order passed by Hon'ble NGT, Eastern Zone Bench, Kolkata on 13-12-2024 in connection OA No.75 /2023 /EZ.

Enclosed please find the solemn order dated 13-12-2024 passed by the Hon'ble National Green Tribunal, Eastern Zone Bench, Kolkata in connection with O.A. No. 75 of 2023/EZ desiring the details regarding installation of **Central Effluent Treatment Plant (CETP).**

In view of above, you are requested to inform the present status regarding installation of CETP in the Jalan Industrial Park and its functional status at an early date preferably within 11-02-2025 positively for compliance of the order passed by the Hon'ble Tribunal.

Enclo: - as stated.

Addl. District Magistrate (Environment)
&
District Land & Land Reforms Officer
Howrah

NOTARY GOVT. OF INDIA SWAPNA DAS HOWRAH REGN. NO. 1301416

07 FEB 2025