

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI
ORIGINAL APPLICATION NO. 200/2014

In The Matter of:

M.C. MEHTA

... Applicant

Versus

UNION OF INDIA & Ors.

... Respondents

AFFIDAVIT ON BEHALF OF THE DISTRICT MAGISTRATE & EX-OFFICIO
CHAIRMAN OF DISTRICT GANGA PROTECTION COMMITTEE, HOWRAH
DISTRICT.

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MB

Filed by Smt. Madhumita Bhattacharjee, Advocate for the State of West Bengal

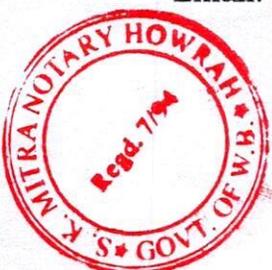
Email: office.advocate.madhumita@gmail.com (M): 9811785211

LGF-1921, J Block, CR Park,

New Delhi

D/2674/1999

02 AUG 2024



BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

PRINCIPAL BENCH, NEW DELHI

ORIGINAL APPLICATION NO. 200/2014

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M.C. MEHTA

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H-87/2024
SL NO.

AFFIDAVIT ON BEHALF OF THE DISTRICT MAGISTRATE & EX-OFFICIO
CHAIRPERSON OF DISTRICT GANGA PROTECTION COMMITTEE,
HOWRAH DISTRICT.

I, Dr. Deepap Priya P., D/o. Sri I. Palraj, 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 I have been communicated with a copy of the order in O.A. No.
200/2014 from the Learned Counsel for the State associated with
the instant case.



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2. That this affidavit is being filed in compliance to the Solemn Order dated 21.02.2024 passed by the Hon'ble Tribunal and the information provided in the format is annexed hereto and marked as

Annexure A-1.

3. That in compliance of Notification vide no. 3206-NGRBA-12012(14)/1/2022-O/o PRO DIR (WBSPMG) dated 09.06.2022 several meetings of the District Ganga Protection Committee for Howrah District held regularly involving all stakeholders promoting IEC activities. Number of awareness programmes conducted as per approved Annual Action Plan for the month of January, February, and June 2024 on Ghat Pe Haat 2024, Behavioral Change Communication, Public Outreach and Knowledge based events, Mass Awareness Vehicle, Wall Painting and Slogan Competition and International Day of Yoga Programme on Ganga Pollution Abatement.

4. That the water quality report during June, 2024 of the West Bengal Pollution Board is as follows:

Station Name	Sample	pH (Unit)	(DO)(mg/l)	BOD (mg/l)
Shibpur	I	7.19	5.5	2.72
Shibpur	II	7.17	5.36	2.86
Uluberia	I	7.04	5.6	2.77
Uluberia	II	7.39	5.59	2.77



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Permissible limit:

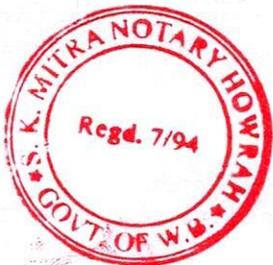
pH (Unit): Between 6.5-8.5

(DO)(mg/l): 5 mg/l or more

BOD (mg/l): 3 mg/l or less

5. That the following is the status of STP which are under construction:

STP Details	Progress on November, 2023	Progress on February, 2024	Incremental Progress since last review meeting of SGC	STP Capacity (MLD)	Completion Date
I&D with STP at Howrah & Bally	Howrah: 94.15 % Bally: 96.09 %	Howrah: 94.79 % Bally: 97.44 %	1.09 %	65 62	Work in progress. Likely To be completed in September 2024



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6. That the following is the status of outfall major drains in River Ganga:

District	Number of Drains	Number of Tapped Drains/Drains to be connected with existing or forthcoming STPs	Number of Drains to be Tapped	Remarks
Howrah	22	01	21	ATR against 22 numbers of CPCB identified drains is annexed as Annexure- "R-1"



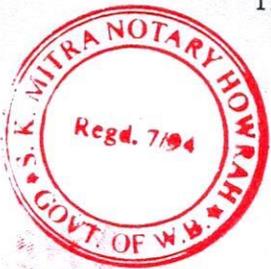
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7. That for afforestation around the river Ganga, the DFO of the Howrah Division has already been requested to do necessary afforestation over the concerned areas and thus steps for necessary afforestation and there by prevention of soil erosion have been taken and further steps will be taken soon in rear future. With the purpose of Ghat protection in Rajganj Ghat, banners were unfurled with the object of Ganga protection awareness. All efforts from the District Administration and District Ganga Protection Committee are made for landscaping and beautification purpose. Many efforts are being made from Howrah District Administration for cleanliness of River Ganga and raising awareness among the masses for protection of the river.
8. That the year wise fund status report of Ganga Action Plan under Swachh Bharat Mission (Gramin) is annexed herewith marked as "R-2".
9. That the year wise achievement status of Solid Waste Management of Ganga bordering Gram Panchayats of Howrah District is annexed herewith marked as "R-3".
10. That the year wise achievement status of Liquid Waste Management of Ganga bordering Gram Panchayats of Howrah District is annexed herewith marked as "R-4".



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11. That the status of fund released to the ULBs of West Bengal under Ring Fenced Account for 2023-2024 & 2024-2025 is annexed herewith marked as **"R-5"**.
12. That the Utilization Certificate for Pollution Abatement (I & D) works at Howrah, Bally & Baranagar- Kamarhati Municipality issued by the Chief Engineer, Water & Sanitation Sector. GAP wing, KMDA is annexed herewith marked as **"R-6"**.
13. That it is submitted that the District Ganga Protection Committee, Howrah District has taken all possible measures for implementing the programmes vis-à-vis work relating to Ganga Pollution Abatement as submitted herein above, which the Hon'ble Tribunal may graciously accept.
14. That the photos of different activities taken to curb for the abatement of pollution of river Ganga have been annexed herewith marked as **"R-7"**.
15. That the statements made in the above paragraphs are true to my knowledge are belief of the record as available in the office of the deponent and the rest are humble submissions before the Hon'ble Tribunal.



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16. That it is most respectfully prayed that this Hon'ble Tribunal may kindly be pleased to pass necessary order / orders as is deemed fit for the ends of justice.

Identified by me

Advocate
State of West Bengal

Deponent



District Magistrate
Howrah



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VERIFICATION:

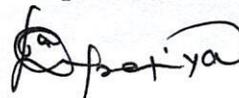
I, the deponent above- named, do hereby verify, and declare that the statements made in the aforesaid paragraphs are true and correct to the best of my knowledge and information and I believe that nothing material has been concealed there from.

Verified at on day of August 2024.

Identified by me

Advocate
State of West Bengal

Deponent



**District Magistrate
Howrah**



SOLEMNLY AFFIRMED & DECLARED
BEFORE ME ON IDENTIFICATION



SHYAMAL KR. MITRA
NOTARY HOWRAH

U 2 AUG 2024

HON'BLE NATIONAL GREEN
TRIBUNAL

PRINCIPAL BENCH, NEW DELHI

O. A. NO. 200/2014

In The Matter of:

M.C. Mehta.

... APPLICANT

VERSUS

Union of India & Ors.

... RESPONDENT(S)

AFFIDAVIT ON BEHALF OF THE
RESPONDENT No. 04, DISTRICT
MAGISTRATE & COLLECTOR,
HOWRAH DISTRICT.

Ms. Madhumita Bhattacharjee,

Advocate

For The State of West Bengal

Email: office.advocate.madhumita@gmail.com

(M): 9811785211



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ANNEXURE A-1

Report in connection with O.A. No. 200/2014 (C.W.P. No. 3727/1985, I.A. No. 340/2022) in between M.C. Mehta - Vs - Union of India & Ors. (Order dated 21.02.2024 of the Hon'ble Tribunal, Principal Bench, New Delhi).

Date of the District: Howrah.

Sl. No	Issue	Remarks
I.	Sewage:	
	a) Per day generation of sewage in each city/town within the district.	a) For Howrah Municipal Corporation (Including Bally): - 233.37 MLD. For Uluberia Municipality: 84.80 MLD
	b) Quantity of sewage treated per day; city / town wise.	b) For Howrah Municipal Corporation (Including Bally): 50 MLD For Uluberia Municipality: 30945 Ltr.
	c) The number of sewage treatment plant existing and their capacity and capacity utilization and mode of disposal in each city / town.	c) For Howrah Municipal Corporation (Including Bally): 2 STPs, built up Capacity: 127 MLD, Capacity utilization is 46.05%. Treated water is being re-used for different purposes as per policy prepared by UD&MA Department (June,2020). Balance treated water is being discharged in surface water body.
	d) Quality of discharged treated sewage from each STP, particularly for fecal coliform.	d) Newly constructed 2 STPs are compliant with the standard set by the Hon'ble NGT in its order dated 30.04.2019. Old STPs are compliant with standard set by MoEFF&CC in its notification dated 13.10.2017.
	e) Time bound plan to meet the gap, if any, in generation and treatment of sewage	e) State is planning for setting up of STPs/FSTPs for the projected population funding from NMCG, AMRUT and State Funds for mitigating the gap. 11MLD Capacity STP for Uluberia Municipality is under proposal stage being implemented by UD&MA Deptt, Govt. of WB.
	f) Details of Hotels, Dharmshala and Ashram operating without proper	f) HMC area: M/S Durga Mukesh Hindu Hotel, M/S Joy Bijoy Hotel, M/S Ranjit Roy/Ashok Roy/Pradip Roy/Sankar Chowdhary, M/S Sai Ganga Hindu Hotel,



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	<p>consent and discharging untreated effluent and the action taken against them.</p> <p>g) Water quality in river and its tributaries in abutting districts /towns in terms of fecal coliform (MPN/100ml)</p>	<p>M/S Islamia Hotel M/S Abhishek Hindu Hotel, M/S Roy Bahadur Mukherjee Hotel, M/S Dutta Cabin Hotel, M/S Kailash Sharma Hotel. The land is under jurisdiction of Kolkata Port Trust & Railways. The Port Trust has initiated taking action regarding eviction against them.</p> <p>Nil for Uluberia Municipality</p> <p>The report in this regard is annexed as Annexure - 'A'</p> <p>g) Water quality report including fecal Coliform for the month of June 2024 as calculated by the WBPCB is as follows:</p> <table border="1" data-bbox="678 667 1433 943"> <thead> <tr> <th>Station</th> <th>Sample</th> <th>Total Coliform (MPN/100 ml)</th> <th>Fecal Coliform (MPN/100 ml)</th> <th>Fecal Streptococci (MPN/100ml)</th> </tr> </thead> <tbody> <tr> <td>Shibpur</td> <td>1</td> <td>110000</td> <td>49000</td> <td>940</td> </tr> <tr> <td>Shibpur</td> <td>2</td> <td>94000</td> <td>39000</td> <td>840</td> </tr> <tr> <td>Uluberia</td> <td>1</td> <td>32000</td> <td>14000</td> <td>490</td> </tr> <tr> <td>Uluberia</td> <td>2</td> <td>27000</td> <td>11000</td> <td>340</td> </tr> </tbody> </table> <p>Permissible limit: Fecal Coliform (MPN/100 ml): 500 (desirable) and 2500 (Maximum Permissible) Fecal Streptococci (MPN/100ml): 100 (desirable) 500 (Maximum Permissible)</p> <p>The Report in this regard is annexed as Annexure - 'B'</p>	Station	Sample	Total Coliform (MPN/100 ml)	Fecal Coliform (MPN/100 ml)	Fecal Streptococci (MPN/100ml)	Shibpur	1	110000	49000	940	Shibpur	2	94000	39000	840	Uluberia	1	32000	14000	490	Uluberia	2	27000	11000	340
Station	Sample	Total Coliform (MPN/100 ml)	Fecal Coliform (MPN/100 ml)	Fecal Streptococci (MPN/100ml)																							
Shibpur	1	110000	49000	940																							
Shibpur	2	94000	39000	840																							
Uluberia	1	32000	14000	490																							
Uluberia	2	27000	11000	340																							
II.	<p>Municipal Solid Waste disposal:</p>																										
	<p>a) Per day generation of Solid waste in each city / town within the district.</p> <p>b) Quantity of solid waste treated per day, in each city / town of the district.</p> <p>c) The gap in treatment of solid waste.</p>	<p>a) For Howrah Municipal Corporation: 911 TPD For Uluberia Municipality: 120 TPD</p> <p>b) For Howrah Municipal Corporation: 206.18 TPD being collected per day in segregated manner, 911 TPD is collected and transported, 10.57 TPD is being processed.</p> <p>For Uluberia Municipality: 92.78 TPD being collected per day in segregated manner, 120 TPD is collected and transported.</p> <p>c) For Howrah Municipal Corporation standalone tender to be floated for engagement of agency for setting up of fresh waste processing plant to mitigate the gap of 900.43 TPD. ASCI is preparing the DPR for collection, transportation and setting up of fresh waste processing unit including setting up of waste to energy plant at HMC. The processing unit is expected to be commissioned within December 2025.</p>																									



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d) Legacy waste and the time bound plan to treat legacy waste

d) For HMC, out of 9,61,567 MT legacy waste, 3,13,906.38 MT processed, expected date of **completion is October 2026.**

There is further accumulation of legacy waste 4,00,000 MT assessed by KMDA. **Tender to be floated by December 2025** (due to space constraint)

Expected timeline within which Biomining and bioremediation of residual quantity is expected to be done within **2.5 (two and a half) years after the completion of existing tendered quantity.**

For Uluberia, in first phase 28,394 MT of legacy waste has been bio remediated. There is further accumulation of 22,000 MT of legacy waste at present. With an upfront projection of additional 42,000 MT tender to be invited (2nd call) **within August 2024** to process the legacy waste.

e) The manner of utilization of the treated waste as well as rejects arising out of remediation of legacy waste.

- e) For HMC: 1. Goodearth: low land filling and partially as soil conditioner in garden.
- 2. Inert: low land filling and base course filling in road construction.
- 3. RDF: Cement manufacturing units
- 4. C & D waste: used as filler material in road construction

For Uluberia:

- 1. Goodearth: low land filling and partially as soil conditioner in garden.
- 2. Inert: low land filling and base course filling in road construction
- 3. RDF: Cement manufacturing units
- 4. C & D waste: used as filler material in road construction

The Report in this regard is annexed as **Annexure - 'D'**

f) Current status of dumping of solid waste with reference to location.

f) For HMC: Belgachia I, II (22.610409'N & 88.326145'E)
For Uluberia: Ward no. 31 beside NH-6 (22.478330'N & 88.078462'E)



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III.	Construction and Demolition waste:	
	<p>a) Total per day generation of C & D waste within the district.</p> <p>b) The detail of plant established for the treatment of C & D waste including the existing capacity and capacity utilization.</p>	<p>a) For Howrah Municipal Corporation 45.59 TPD of C&D waste is generated per day. For Uluberia Municipality 10.85 TPD of C&D waste is generated per day.</p> <p>b) Segregated fractions are being sold and reused and it is planned that remaining to be processed in Cluster mode. Identification of land for the plant is under process. The Report in this regard is annexed as Annexure - 'E'</p>
IV.	Industrial Effluent discharge:	
	<p>a) Number of industrial unit discharging their effluent treated /untreated in river Ganga and its tributaries and details of defaulting industrial units.</p> <p>b) Total daily generation of such industrial waste within the district.</p> <p>c) The manner of treatment of the industrial waste so generated.</p>	<p>a) 4 Nos. of Industrial units are discharging their effluent treated in river Ganga and its tributaries, and the name of these units are M/s Krishna Tissues Pvt. Ltd, M/s Berger Paints India Ltd, M/S Pepsico India Holdings Pvt Ltd, M/s Madhubati Papers Pvt. Ltd.</p> <p>b) 2167.6 KL.</p> <p>c) For M/s Krishna Tissues Pvt. Ltd.: Ash – 90 TPM- Landfilling ETP Sludge- 44 TPM -Land filling Grease /Oil-0.5 Kg/day authorised recycler Board trimmings- 370 TPM recycled in process.</p> <p>For M/s Pepsico India Holdings Pvt. Ltd. (Fritolay Division): ETP/STP/Biomethane sludge – 770 TPM- Biomethamtion/ to be given out for composting Waste potato, meals, peels etc. 1410 TPM -Biomethamtion/ to be given out for composting Food waste- 9 TPM to be given out for</p>



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composting/landfilling Rice husk ash- 2100 TPM - to be given out for
 composting/landfilling
 For M/s Berger Paints India Limited:
 Reject & Packaging items – 1100 pcs. – Recycled Canteen/
 Domestic waste – 4 Kg/day - HMC vat
 For M/s Madhubati Papers (P) Ltd.:
 ETP sludge- 1.2 TP Das per Hazardous Waste Rules Ash- 4 TPD-land
 Filling Plastics etc.- 3.003 TPD registered recycler Wasted resin of DM unit- 0.82 Kg/day as per Hazardous Waste Rules

d) The discharge effluent analysis from the CETP and ETP treating the industrial waste from each outlet.

d) For M/s Krishna Tissues Pvt. Ltd.:

Parameters	Result obtained (mg/l except pH)	Permissible limit (mg/l except pH)	Remarks
pH	6.92	Between 6.5-8.5	Last effluent analysis report dt.04/04/2024 compliant with prescribed standards. Report annexed as Annexure - 'F'
TSS	50.00	100	
BOD	Not done	30	
COD	19.44	250	
O & G	BELOW DETECTION LIMIT	--	

For M/s Pepsico India Holdings Pvt. Ltd. (Fritolay Division):

Parameters	Result obtained (mg/l except pH)	Permissible limit (mg/l except pH)	Remarks
pH	7.35	Between 6.5-8.5	Last effluent analysis report dt.18/01/2024 compliant with prescribed standards. Report annexed as Annexure - 'G'
TSS	46.00	50	
BOD	Not done	30	
COD	18.62	--	
O & G	BELOW DETECTION LIMIT	10	



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For M/s Berger Paints India Limited:

Parameters	Result obtained (mg/l except pH)	Permissible limit (mg/l except pH)	Remarks
pH	7.64	Between 6.0-8.5	Last effluent analysis report dt.26/04/2024 compliant with prescribed standards Report annexed as Annexure - 'H'
TSS	90	100	
BOD	Not done	50	
COD	18.14	250	
O & G	BELOW DETECTION LIMIT	10	
Phenolics as C ₆ H ₅ OH	NT	1.0	
Lead as Pb	BDL	0.1	
Total Cr	BDL	2.0	
Copper as Cu	BDL	2.0	
Nickel as Ni	BDL	2.0	
Zinc as Zn	BDL	5.0	
Cr +6	BDL	0.1	

For M/s Madhubati Papers (P) Ltd.:

Parameters	Result obtained (mg/l except pH)	Permissible limit (mg/l except pH)	Remarks
pH	7.49	Between 6.0-8.5	Last effluent analysis report dt.28/05/2024 compliant with prescribed standards Report annexed as Annexure - 'I'
TSS	18.00	100	
BOD	Not done	50	
COD	21.00	250	



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e) The per day generation of industrial solid waste and manner of its treatment and disposal in the district.

e) Details of Solid Wastes generation from Grossly Polluting Industries & manner of its treatment:

Unit	Waste generated in Kilo Litter per Day	Industrial solid waste generation and manner of its disposal
M/s Krishna Tissues Pvt. Ltd.	Industrial -365 Domestic -20	Ash – 90 TPM- Landfilling ETP Sludge- 44 TPM - Landfilling Grease /Oil-0.5 Kg/day authorised recycler Board trimmings- 370 TPM recycled in process
M/s Pepsico India Holdings Pvt. Ltd. (Fritolay Division)	Industrial - 1624.4 Domestic - 96.88	ETP/STP/Biomethane sludge – 770 TPM- Biomethamation/ to be given out for composting Waste potato, meals, peels etc. 1410 TPM - biomethamation/ to be given out for composting Food waste- 9 TPM to be given out for composting/landfilling Rice husk ash- 2100 TPM - to be given out for composting/landfilling Finished products waste (Food waste)- 500 TPM- to be sold out for animal/ poultry feed Poly films/carton/paper waste- 116 TPM to be sold out to registered recycling unit.
M/s Berger Paints India Limited	Mixed = 58.2 Domestic = 11	Reject & Packaging items – 1100 pcs. – Recycled Canteen/ Domestic waste –4 Kg/day - HMC vat
M/s Madhubati Papers (P) Ltd.	Industrial- 120 Domestic - 28	ETP sludge- 1.2 TPD as per Hazardous Waste Rules Ash- 4 TPD- land Filling Plastics etc.- 3.003 TPD registered recycler Wasted resin of DM unit- 0.82 Kg/day as per Hazardous Waste Rules



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V. Regulation of Flood Plain Zone:	
<p>f) If the flood plain zone has been demarcated and the extent of encroachment on the flood plain zone in the district.</p> <p>g) The details of direct discharge of pollutants by the encroachers by the side of the river Ganga and its tributaries in the district.</p>	<p>f) There is no flood plain zone of River Ganga in the district of Howrah as left bank of River Ganga which is under Howrah District is higher than the High Flood level of River Ganga as mentioned below:</p> <ul style="list-style-type: none"> • Average Bank Level: 6.048 m(GTS) • Average High Flood Level: 5.10m (GTS) <p>The Report in this regard as received from the Irrigation & Waterways Directorate is annexed as Annexure - 'J'</p> <p>An Expert Committee was constituted to demarcate Flood Plain Zones in West Bengal. The report of Expert Committee was examined by Irrigation and Waterways Department for their observation. The entire issues were taken up by Chief Secretary in a meeting with the Stakeholder Departments on 08.07.2022.</p> <p>In the meeting, it was found that it is not practically possible to implement the Flood Plain zoning in West Bengal and advice would be sought from Ministry of Jal Shakti on how to proceed in the matter.</p> <p>Letter was sent to MOJS on 28.07.2022 seeking guidance on floodplain demarcation and management in West Bengal. Further reminder issued on 16-07-2024. Reply is awaited.</p> <p>The letter in this regard as received from the Environment Department is annexed as Annexure - 'K'</p> <p>g) Human sewage, animal waste, wastewater from factories, pesticides etc. IEC activities through Ganga Utsav, Ghat Pe Hat, Behavior Change Communication etc. are organized to make citizens conscious regarding the matter.</p>



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VI.	Bio medical waste:	
	<p>a) The per day total generation of bio medical waste in the district.</p> <p>b) The manner of its treatment and disposal.</p>	<p>a) Total BMW generated per day is 1197.99 kg/ day.</p> <p>b) Incineration: 643.30 kg/day Autoclaving: 554.69 kg/day</p> <p>The Report in this regard as uploaded in BMW Annual Report, 2022 in the website of WBPCB is annexed as Annexure - 'L'.</p>
VII	Mining:	
	<p>a) Number of cases registered within a year against illegal mining in the bed of river Ganga and its tributaries and details of enforcement of mining policy of State and "Enforcement & Monitoring Guidelines for Sand Mining" (EMGSM - 2020) and Sustainable Sand Mining Management Guidelines 2016.</p> <p>b) Number of cases registered within a year against illegal mining in the flood plains of river Ganga and its tributaries and details of enforcement of mining policy of State and "Enforcement & Monitoring Guidelines for Sand Mining" (EMGSM - 2020) and Sustainable Sand Mining Management Guidelines 2016.</p>	<p>a) Whether any mining is legal or illegal can only be determined by the Port Trust Authority as riverbed of Ganga adjacent to district Howrah is under the purview of Port Trust Authority.</p> <p>b) As in-stream in the bed of tributaries of river Ganga is under the jurisdiction of district Howrah is not permissible, there is no legal or illegal mining activity is registered in Howrah district.</p> <p>The Report in this regard as received from the Officer-in-Charge, Mining & Minerals, Howrah, Howrah is annexed as Annexure - 'M'.</p>



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IA

I. Sewage

Name of the District: Howrah

Sl No	Name of Town	Sewage Generation per day (in MLD)	Quantity of Sewage treated per day (in MLD)	Status of existing Sewage Treatment Plant (STP)				Quality of discharged treated sewage from each STP, particularly for Faecal Coliform	Time bound plan to meet up the gap
				Number of STP	Built up Capacity in MLD	Capacity Utilization in (%) *	Mode of disposal in each town		
1	Howrah MC (including Badly)	233.37	50	2	127	46.05%	<p>A) Treated Water is being re-used for different purposes as per policy prepared by UD&MA Deptt. (June, 2020)</p> <p>B) Balance treated water is being discharged in surface water body</p>	Compliant with the standards notified by MoEF&CC; dated 13-10-2017.	a) 11 MLD capacity STP (Uluberia) is under proposal stage b) State is also planning for setting up of STP/s & FSTP/s to mitigate the gap in a phased manner funding from NMCG, AMRUT, & State Funds subject to the availability of land.
2	Uluberia	84.80	NA	NA	NA	NA			
Total		318.17	50	2	127	NA			

* Utilization capacity is worked out on the basis of as on date design flow of each STP.

As per latest Water Quality Report of WBPCB, BOD level of entire stretch of River Ganga is within the permissible limit of bathing standard i.e 3.0 mg/l

Apart from construction of STP for addressing the BOD level, state is also focusing on to reduce Faecal Coliform level in the river Ganga by using different alternative technologies for treatment of Drains, Nallahs and Khals discharging in River Ganga.

For construction of STPs/FSTPs, availability of encumbrance free land with proper title and ownership is one of the major constraints in the State. The State is giving all-out efforts in search of suitable and feasible land for construction of these utilities.

WEST BENGAL POLLUTION CONTROL BOARD

Water Quality of Polluted River stretches of 17 rivers in West Bengal during June 2024

Priority	River	Stations	pH(Unit)	(DO)(mg/l)	BOD(mg/l)	Total Coliform(MPN/100ml)	Fecal Coliform (MPN/100ml)	Fecal Streptococci(MPN/100ml)
I	Mahananda	Siliguri (Upstream)	7.1	5.4	2.5	110000	23000	70
	Mahananda	Ramghat(Downstream)	7.05	3.3	18	220000	50000	4900
II	Vidyadhari	Haroa bridge (upstream)	7.41	2.07	10.36	94000	40000	790
	Vidyadhari	Malancha (downstream)	7.1	1.48	4.47	63000	27000	580
II	Churni	Downstream of Ranaghat town	7.93	3.5	2.4	70000	22000	1700
	Churni	Majhdia	7.85	2.2	3.57	22000	9200	790
III	Matha bhanga	Gobindapur	7.82	1.7	3.86	170000	92000	2800
IV	Ganga	Farakka	7.58	6.7	2.6	790	330	33
	Ganga	Farakka	7.19	6.4	2.8	1100	490	33
	Ganga	Khagra	7.66	6.3	1.95	2200	790	70
	Ganga	Khagra	7.16	6	2.4	2200	1300	49
	Ganga	Baharampore	7.5	6.3	1.8	13000	3500	460
	Ganga	Baharampore	7.29	6	2.5	13000	3500	790
	Ganga	Gorabazar	7.54	6.1	2.1	9400	2400	490
	Ganga	Gorabazar	7.21	5.9	2.6	11000	2200	330
	Ganga	Nabadip	7.68	7.3	2.6	2200	1100	70
	Ganga	Nabadip	7.68	6.5	2.5	3500	1100	63
	Ganga	Tribeni	7.65	7.6	2.8	3500	1400	63
	Ganga	Tribeni	7.31	7	2.8	3500	1300	94
	Ganga	Palta Shitalatala	7.5	6.2	2.6	7000	2400	460
	Ganga	Palta Shitalatala	7.2	6.8	2.7	9400	2400	230
	Ganga	Palta,	7.39	6	2.4	11000	3500	330
	Ganga	Palta	7.26	7.2	2.8	14000	5400	310
	Ganga	Serampore	7.46	6.3	2.3	33000	11000	490
	Ganga	Serampore	7.32	6.6	2.8	23000	7900	790
	Ganga	Dakshmineswar	7.22	5.78	2.69	130000	63000	1200
	Ganga	Dakshmineswar	7.2	5.65	2.7	110000	33000	1100
	Ganga	Garden reach	7.24	5.4	2.82	170000	84000	1100
	Ganga	Garden reach	7.24	5.46	2.81	140000	79000	1300
	Ganga	Howrah-shivpur	7.19	5.5	2.72	110000	49000	940
	Ganga	Howrah-shivpur	7.17	5.36	2.86	94000	39000	840
	Ganga	Uluberia,	7.04	5.6	2.77	32000	14000	490
	Ganga	Uluberia,	7.39	5.59	2.77	27000	11000	340
	Ganga	Durgachak near Pathikhali,	8.4	5.1	1.35	22000	11000	460
	Ganga	Durgachak near Pathikhali,	8.4	5.9	1.4	14000	7900	330
Ganga	Diamond harbour,	7.66	5.93	2.66	4700	2400	170	
Ganga	Diamond harbour,	7.16	5.85	2.7	2600	1300	110	



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**Water Quality of Polluted River stretches of 17 rivers in West Bengal
during June 2024**

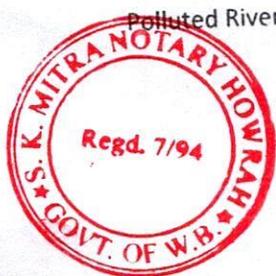
Priority	River	Stations	pH(Unit)	(DO) (mg/l)	BOD (mg/l)	Total Colifor m(MPN /100ml)	Fecal Colifor m(MPN /100ml)	Fecal Strepto cocci (MPN/ 100ml)
IV	KANSI	Downstream at Midnapore	8.4	7	1.5	7900	4900	230
IV	JALANGI,	Downstream of Krishna nagar	7.59	5.1	2.9	7900	3500	330
V	Damodar	Dishergharh	7.94	7.8	2.15	1700	1100	21
	Damodar	IISCO near Dhenna Village,	7.8	7.8	2.05	2100	1700	26
	Damodar	Narainpur	7.7	7.7	2.05	2600	2200	17
	Damodar	Near Mujher Mana Village	7.75	6.8	2.7	2200	1400	21
	Damodar	Andal D/s	7.7	7.8	2.1	2600	2100	14
	Damodar	Andal U/s	7.56	7.7	2.7	2100	1400	17
	Damodar	Asansol U/s	7.85	7.9	2.05	3300	1700	26
	Damodar	Durgapur U/s	7.65	7.7	2.15	2700	1700	17
	Damodar	Raniganj D/s	7.6	7.8	2.15	3200	1700	21
	Damodar	Water intake point for Burdwan Town	8.35	7.9	2.2	2600	2100	14
V	Dwarka	Upstream of Tarapith at Sadhak Bamdeb ghat	7.3	7	2.7	4000	2600	21
	Dwarka,	Downstream of Tarapith Satighat	7.44	6.8	2.75	4600	3300	17
V	Barakar	Asansol	7.89	7.8	2.25	2700	2100	17
V	Rupnarayan	Geonkhali	7.7	5.5	1.4	17000	9400	390
	Rupnarayan	Kolaghat (Down Stream)	8.2	5.3	1.55	9400	4900	140
V	Dwarakeshw ar	Bankura town	7.67	7.8	2.05	2700	2100	22
V	Teesta	At Jalpesh	7.36	6.4	1.7	14000	5000	79
	Teesta	At Sevoke	6.8	8.3	2.5	5000	2200	34

WEST BENGAL POLLUTION CONTROL BOARD

The following four rivers have been removed from this list of polluted River stretches based on improvement in water quality in 2022 compared to 2018

Priority	River	Stations	pH(Unit)	(DO)(mg/l)	BOD (mg/l)	Total Coliform(MPN/10 0ml)	Fecal Colifor m(MP N/100 ml)	Fecal steeptoc occi (MPN/10 0 ml)
Delisted	Silabati	Ghatal (Downstream)	8.37	8	1.55	6300	3300	110
	Mayurakshi	Suri Town	7.93	9.1	1.55	2600	1700	14
	Kaljani	Downstream of Alipurduar	7.48	7.5	1.5	17000	8000	94
	Karola	Downstream of Jalpaiguri	7.13	8.2	2	17000	8000	94
Primary Water quality Criteria for bathing water			6.5-8.5	≥5	≤3		<2500	,500

Note: Implementation of Polluted River Stretches Action Plan, presently the above four Rivers i.e., Silabati, Mayurakshi, Kaljani, Karola have been improved and is removed from the list. Therefore, Polluted River Stretches in West Bengal stands with 13 rivers.



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Fresh Waste Processing Status of Ganga Towns

ULB	Ward	Per day total fresh waste generation (TPD)	Segregation in no of wards	Per day quantity of total waste being collected in segregated manner (TPD)	Total waste collected and transported (TPD)	Waste processing (TPD)	Processing gap (TPD)	Present Status	Dumping of daily solid waste at location
Howrah MC	50	911	29	206.18	911	10.57	900.43	(1) Standalone tender to be floated for engagement of agency for setting up of fresh waste processing plant. (2) ASCI is preparing the DPR for collection, transportation and setting up of fresh waste processing unit including setting up of Waste to Energy Plant at HMC (3) The processing unit is expected to be commissioned within December, 2025.	Existing dumpsite
Ulberia	32	120	32	92.78	120	0	120	(1) LoA cum Work Order issued to the Agency for setting up of fresh waste processing plant. (2) Drawing and design of the plant approved. (3) The processing unit is expected to commence within March, 2025.	Existing dumpsite
TOTAL		82	1031	61	298.96	1031	10.57	1020.43	



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Legacy Waste Processing Status

ULB	No. of Dump sites	Area (In Acre)	Estimated Quantity of Legacy Waste (in MT)	Status/ Time of completion	Legacy Waste Processed	Acre reclaimed	Manner of Utilisation of treated waste	Further assessment of present quantity of legacy waste which has been turned from regular fresh waste during the period of 1st phase of legacy waste processing
Howrah MC	1	21.99	9,61,567	Started/ October, 2026	249105	1.8		Biomining and bio-remediation of legacy waste is currently on progress. Expected to be completed in the next 30 Months
Uluberia	2	6.50	28394.00	Completed	28394	6.5	Good Earth for land filling; RDF being carried to Integrated Cement plant	(1) Assessed further quantity of legacy waste through drone survey and tender floated for engagement of agency for biomining and bioremediation of further quantity of legacy waste processing. 1st call cancelled as there were insufficient number of eligible bidders. (2) 2nd call tender to be floated after the Model Code of Conduct in connection with Parliament General Election, 2024 ceases to be in force. (3) Expected time period for completion of legacy waste processing is 12 months after issuance of work order.
TOTAL	3.00	28.49	989961.00	0.00	277499.00	8.25		



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Municipal Solid Waste										Construction and Demolition waste		
District	Sl. No.	ULB	Per day generation of Solid Waste in each city / town within the District	Quantity of treated waste per day, in each city/town of the District.	The gap in treatment of solid waste.	Legacy Waste and the time bound plan to treat legacy waste.	The manner of utilization of the treated waste as well as rejects arising out of remediation of legacy waste	Current status of dumping of solid waste with reference to location		Total per day generation of C&D waste within the District (TPD)	The detail of plant established for the treatment of C&D waste including the existing capacity and capacity utilization	Remarks
								Dumpsite location	GPS Coordinates of Dumpsite			
HOWRAH	11	Howrah MC	911	10.57	900.43	Out of 9,61,567 MT legacy waste, 3,13,906.38 MT processed, expected date of completion is October, 2026. There is further accumulation of legacy waste 4,00,000 MT assessed by KMUDA Tender to be floated by December 2025 (due to space constraint) Expected timeline within which Biomining and bioremediation of residual quantity is expected to be done within 2.5 (two and a half) years after the completion of existing tendered quantity.	1. Goodearth : low land filling and partially as soil conditioner in garden. 2. Inert : low land filling and base course filling in road construction.	Belgachia I, II	22.610409°N; 88.326145°E	45.59	0	Segregated fractions are being sold and reused and it is planned that remaining to be processed in Cluster mode. Identification of land for the plant is under process.
HOWRAH	12	Uluberia	120	0	120	In first phase 28,394 MT of legacy waste has been remediated. There is further accumulation of 22,000 MT of legacy waste at present. With an upfront projection of additional 42,000 MT tender to be invited (2nd call) within August 2024 to process the legacy waste.	1. Goodearth : low land filling and base course filling in road construction. 2. RDF : Cement manufacturing units as filler material in road construction	Ward No. 31, Beside NH-6	22.4783300N ; 88.0784620E	10.85	0	Segregated fractions are being sold and reused and it is planned that remaining to be processed in Cluster mode. Identification of land for the plant is under process.



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Details of Industrial Effluent & Solid Wastes generation from Grossly Polluting Industries

Sl. No.	Name of Unit	Waste water Generated in KLD (Kilo Litter per Day)	ETP (Effluent Treatment Plant)	Effluent analysis report		Industrial solid waste generation and manner of its disposal		
				(d)				
				Parameters	Result obtained (mg/l except pH)	Permissible Limit (mg/l except pH)		
1	M/s Krishna Tissues Pvt. Ltd.	Industrial -365 Domestic -20	ETP exists and treated effluent complies with environmental norms.	pH	6.92	Between 6.5-8.5	Ash - 90 TPM- Landfilling ETP Sludge- 44 TPM - Landfilling Grease /Oil-0.5 Kg/day authorised recycler Board trimmings- 370 TPM recycled in process	BDL - Below detection limit
				TSS	50.00	100		
				BOD	Not done	30		
				COD	19.44	250		
				O&G	BDL	-		
				Last effluent analysis report dt. 04/04/2024 compliant with prescribed standards				

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Details of Industrial Effluent & Solid Wastes generation from Grossly Polluting Industries

Sl. No.	Name of Unit	Waste water Generated in KLD (Kilo Litter per Day)	ETP (Effluent Treatment Plant)	Effluent analysis report		Industrial solid waste generation and manner of its disposal			
				(d)					
				Parameters	Result obtained (mg/l except pH)	Permissible Limit (mg/l except pH)			
2	M/s Pepsico India Holdings Pvt. Ltd. (Fritolay Division)	Industrial - 1624.4 Domestic - 96.88	ETP exists and treated effluent complies with environmental norms.	pH	7.35	Between 6.5-8.5	ETP/STP/Biomethane sludge - 770 TPM. Bio-methanation/ to be given out for composting Waste potato, meals, peels etc. 1410 TPM - Bio-methanation/ to be given out for composting Food waste- 9 TPM to be given out for composting/landfilling Rice husk ash- 2100 TPM - to be given out for composting/landfilling		
				TSS	46.00	50			
				BOD	Not done	30			
				COD	18.62	-			
				O&G	BDL	10			
				BDL- Below detection limit					
				Last effluent analysis report dt. 18/01/2024 compliant with prescribed standards					



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Details of Industrial Effluent & Solid Wastes generation from Grossly Polluting Industries

Sl. No.	Name of Unit	Waste water Generated in KLD (Kilo Litter per Day)	ETP (Effluent Treatment Plant)	Effluent analysis report		Industrial solid waste generation and manner of its disposal		
				(d)				
				Parameters	Result obtained (mg/l except pH)	Permissible Limit (mg/l except pH)		
3	M/s Berger Paints India Limited	Mixed = 58.2 Domestic = 11	ETP exists and treated effluent complies with environmental norms.	pH	7.64	Between 6.0-8.5	Reject & Packaging items – 1100 pcs. – Recycled Canteen/ Domestic waste – 4 Kg/day - HMC vat	
				TSS	90	100		
				BOD	Not done	50		
				COD	18.14	250		
				O&G	BDL	10		
				Phenolics as C6 H5OH	NT	1.0		
				Lead as Pb	BDL	0.1		
				Total Cr	BDL	2.0		
				Copper as Cu	BDL	2.0		
				Nickel as Ni	BDL	2.0		
Zinc as Zn	BDL	5.0						
Cr+6	BDL	0.1						
				BDL - Below detection limit NT – Not traceable				
				Last effluent analysis report dt.26/04/2024				
				compliant with prescribed standards				



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Details of Industrial Effluent & Solid Wastes generation from Grossly Polluting Industries

Sl. No.	Name of Unit	Waste water Generated in KLD (Kilo Liter per Day)	ETP (Effluent Treatment Plant)	Effluent analysis report			Industrial solid waste generation and manner of its disposal
				(d)			
	(a)	(b)	(c)	Parameters	Result obtained (mg/l except pH)	Permissible Limit (mg/l except pH)	(e)
4	M/s Madhubati Papers (P) Ltd.	Industrial- 120 Domestic - 28	ETP exists and treated effluent complies with environmental norms.	pH	7.49	Between 6.0-8.5	ETP sludge- 1.2 TPD- as per Hazardous Waste Rules Ash- 4 TPD- land filling Plastics etc.- 3.003 TPD registered recycler Wasted resin of DM unit- 0.82 Kg/day as per Hazardous Waste Rules
				TSS	18.00	100	
				BOD	Not done	50	
				COD	21.00	250	
				Last effluent analysis report dt.28/05/2024 compliant with prescribed standards			



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GOVERNMENT OF WEST BENGAL
OFFICE OF THE EXECUTIVE ENGINEERS
LOWER DAMODAR CONSTRUCTION DIVISION
IRRIGATION AND WATERWAYS DIRECTORATE
FULESWAR, ULUBERIA, HOWRAH, W.B. -711316
(E-mail : ee1dded@gmail.com / Ph-033-2661-0311)

Memo No. 287

Date- 04.03.2024

To,
The District Magistrate,
Howrah.

Sub:- Report in connection with NGT case bearing OA no.: 200/2014 of the Principal Bench, New Delhi in pursuance of Solemn Order dated 21-02-2024

Ref:- Memo No. 205(2)/NGT/Howrah Dated 27-02-2024 of the District Magistrate, Howrah.

Madam,

This is to state that there is no flood plain zone of River Ganga in the District of Howrah as left bank of River Ganga which is under the District of Howrah is higher than the High Flood level of River Ganga as mentioned below:-

1. Average Bank Level : 6.048m (GTS).
2. Average High Flood Level : 5.10m (GTS).

This information is for the jurisdiction of both the Executive Engineer-I, Lower Damodar Construction Division and the Executive Engineer-II, Lower Damodar Construction Division, Irrigation & Waterways Directorate.

Submitted for favour of your kind information and necessary action.

Yours faithfully

Executive Engineer- I
Lower Damodar Construction Division
Fuleswar, Uluberia, Howrah



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38218
Roshni Sen, IAS
Additional Chief Secretary



[K]

Environment Department
Government of West Bengal
PRANI SAMPAD BHAWAN, 5th Floor,
LB-2, Sector III, Salt Lake, Kolkata - 700 106
Ph.: (033) 2335 2742 (O), Fax : (033) 2335 0271
E-mail : acsenwb@gmail.com

Date: 16/07/2024

To
The Secretary,
Ministry of Jal Shakti,
Department of Water Resources &
River Development & Ganga Rejuvenation,
Government of India

Sub: Issues related to Flood Plain Zone in West Bengal

Ref: Letter from ACS, Environment Department, Govt. of W.B. dated 28th July, 2022

Sir,

Your kind attention is drawn to the fact that the Hon'ble National Green Tribunal (NGT) has from time to time, passed orders on floodplains, their identification and demarcation by the State concerned. The issue of demarcation of flood plain zone has been dealt with by the Hon'ble Principal Bench in O.A.200/2014 (*M.C. Mehta -vs- Union of India & Ors.*)

In this connection, a letter has been issued by this Department *vide* Memo No. EN/1653/3C-24/2021 dated 28th July, 2022 (copy enclosed) mentioning details of the issues and seeking your guidance in the matter as to how to address the multiple issues related to floodplain demarcation and management in West Bengal due to its unique geographical features.

It is once again requested to kindly offer your guidance in the matter as to how West Bengal should address the multiple issues mentioned above related to floodplain demarcation and management.

Yours faithfully,


Additional Chief Secretary to
the Government of West Bengal

Encl: as stated




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Government of West Bengal
Department of Environment

Prani Sampad Bhawan, 5th Floor, LB-2, Sec-III, Saltlake City, Kolkata-106

No. EN/1653 /3C-24/2021

July 28, 2022

From :: Vivek Kumar
Additional Chief Secretary to the
Government of West Bengal

To :: The Secretary
Ministry of Jal Shakti
Department of Water Resources &
River Development & Ganga Rejuvenation
Government of India

Sub: Issues related to Floodplain Management in West Bengal

Ref: Orders of Hon'ble National Green Tribunal passed in
O.A.200/2014 and O.A. 65(THC) of 2016/EZ

Sir

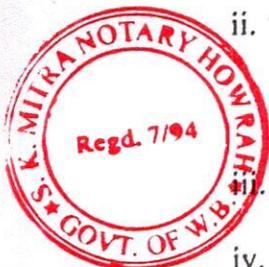
Your kind attention is drawn to the fact that Hon'ble National Green Tribunal (NGT) has, from time to time, passed Orders on floodplains, their identification and demarcation by the States concerned.

2. An Expert Committee under the leadership of Dr. Sunando Bandhopadhyay, Department of Geography, University of Calcutta was constituted to demarcate floodplain zones in Ganga and Bhagirathi- Hooghly river basin of West Bengal. A copy of the said report is enclosed for ready reference. The findings of the Expert Committee are summarised below:

- i. The plains drained by the Ganga and its principal distributary, the Bhagirathi-Hooghly measures 42,371 sq.km in the State of West Bengal.
- ii. Considering five highest magnitude flood events of 1995-2020 period for five overlapping zones, it was found that 33% area of the region is subject to inundation by flood.

The inundated area spreads over 226 CD blocks of 14 districts.

- iv. Estimated population (2021) residing in this area is 76,250,487 and the average population density is 1629/sq.km.



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- v. Some of the most densely populated blocks including some major urban pockets, located close to the principal rivers are susceptible to flooding.

3. The Irrigation & Waterways Department was requested to examine the report of the Expert Committee and give their observations. The observations of Irrigation & Waterways Department are stated as follows:

3.1 It is worthwhile to mention that the Hon'ble NGT in its order dated 29/05/2019, stated that such identified floodplain will have to be declared as "No Construction" Zone. It has also been mentioned in the report that the identified floodplain is a densely populated area, having an average population density of 1629 /square K.M and 35% being urban areas.

3.2 Considering above, it is suggested that only the full river path while ruling at the Highest Flood Level (H.F.L) of last 25 years (1995-2000), is identified and declared as floodplain for the purpose of imposing restriction on construction activities with the following understanding:-

3.2.1 Such identification will be applicable for all the river stretches of main Ganga-Padma River, Bhagirathi- Hooghly River and all its tributaries.

3.2.2 In case of no embankment on either side of the river, the extreme points of the banks considering the meandering of the river in last 25 years, will be considered for the demarcation of floodplain.

3.2.3 In case of no embankments on both sides, the distance between the top of two embankments will be considered for the demarcation of floodplain.

3.2.4 In case of embankment only at one side of the river, the width of the river between the top of embankment on one side and the extreme point of the bank on the other side considering meandering in last 25 years, will be considered for the demarcation of floodplain.

3.2.5 Considering very high level flood discharge through the river Ganga in case of Malda and Murshidabad districts, an additional strip of land along the river bank or embankment on both side of the river, beyond the provisions, stated at (3.2.2), (3.2.3) & (3.2.4) above will also be demarcated as floodplain to provide additional space for the river, the width of which will be fixed on case to case basis on further study.



It is pertinent to mention the definition in 'Floodplain' embodied in the draft "Flood Plain Zoning" bill, sent by Ministry of Jal Shakti, Government of India in 2021, includes any river channel and the adjacent low land susceptible to natural flood inundation during period of maximum discharge due to overtopping or beach of river embankment or natural bank or due to unfavourable outfall condition like existence of high tide level. So considering above, it is suggested

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that demarcation of floodplain is re-assessed based on the assumptions and analogy stated above.

4. On 08.07.2022, a meeting was chaired by the Chief Secretary, Government of West Bengal with the stakeholder Departments to discuss implementation of NGT's Orders on floodplain, the Report of the Expert Committee and the respective observations of the Departments concerned. After a thread-bare discussion, the following decision was taken:

4.1 "It was agreed that unlike upper riparian States, the deltaic West Bengal, having a wide expanse, is extremely fertile, densely populated with sizeable urban pockets and ecologically productive. While the Ganga and its tributaries in the upper catchment is enclosed by valley walls, the Bengal delta is absolutely flat. The Hon'ble Tribunal has clarified that 'the distance for no construction zone is to be measured from highest flood line at least in the last 25 years.' In West Bengal, the HFL went beyond Indo-Bangladesh border during 1998 and 2000 floods.

4.2 Accordingly, it was felt that the unique geographical characteristics of West Bengal make floodplain zoning difficult in the framework stipulated by Hon'ble National Green Tribunal and the Ministry of Jal Shakti, since going by the available flood data, a very large part of the State of West Bengal's geographical area would fall within the floodplains of the Ganga river systems and its tributaries. The House agreed that dealing with the issue of floodplains in lower riparian States falling in Ganga delta, requires a region-specific approach. It was decided that a representation would be sent to Ministry of Jal Shakti highlighting the impracticability/ difficulty in implementing the current guidelines in respect of West Bengal, and seeking their advice on how to proceed further in the matter." (Copy of the minutes of the meeting is enclosed).

5. In the light of the above facts, you are requested to kindly offer your guidance in the matter as to how West Bengal should address the multiple issues mentioned above related to floodplain demarcation and management.

Yours faithfully,


Additional Chief Secretary to the
Government of West Bengal

Encl: as stated



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Annexure- I

District wise number of health care units, Biomedical waste generation by health care units and treatment & disposal of Bio-medical wastes through the Common Bio-Medical Waste Treatment Facilities:

Sl. No.	Name of the State / Union Territory	Name of the District	Number of Health Care Units	Bio-medical Waste Generation (in Kg/day)	Bio-medical Waste Treatment and disposal (in Kg/day)		Total (in Kg/day)
					Incineration	Autoclaving	
1.	West Bengal	Kolkata	1631	9107.38	4381.61	4725.77	9107.38
2.		North 24 Parganas	1179	6646.01	5005.41	1640.60	6646.01
3.		South 24 Parganas	687	2866.11	1390.18	1475.93	2866.11
4.		Hoochly	634	1694.91	1457.63	237.28	1694.91
5.		Howrah	626	1197.99	643.30	554.69	1197.99
6.		Nadia	410	1632.93	1397.68	235.25	1632.93
7.		Murshidabad	308	375.89	321.42	54.47	375.89
8.		Purba Bardhaman	534	3481.89	2857.25	624.64	3481.89
9.		Paschim Bardhaman	457	2101.66	1793.92	307.74	2101.66
10.		Bankura	312	915.05	794.31	120.74	915.05
11.		Birbhum	397	797.87	692.31	105.56	797.87



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Report regarding Mining Activity in District Howrah

Reference :- NGT Case (OA No 200/2014) (CWP No. 3727/1985) (I.A. No. 340/2022)

- 1) Number of cases registered within a year against illegal mining in the bed or flood plains of river Ganga- Whether any mining is legal or illegal can only be determined by the Port Trust Authority as river bed of Ganga adjacent to the district Howrah is under the purview of Port Trust Authority.
- 2) Number of cases registered within a year against illegal mining in the bed or flood plains of tributaries of river Ganga- As In-stream in the bed of tributaries of river Ganga under the jurisdiction of district Howrah is not permissible, there is no legal or illegal Mining activity is registered in district Howrah.

[Handwritten Signature]
Officer in Charge
Mining and Mineral,
O/C DL&LRO, Howrah



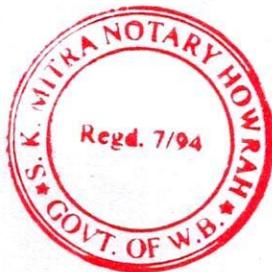
[Handwritten Signature]
02 AUG 2024

Action taken against 22 nos CPCB identified drains in Howrah District				
SL NO	CODE	NAME OF DRAIN	DIST	Action Taken
1	R28	Telkal Ghat drain, Howrah	Howrah	Engagement of consultant for prepration of DPR is under process.
2	R29	Rarnkrishna Mullick Ghat, Howrah	Howrah	Engagement of consultant for prepration of DPR is under process.
3	R30	130- Foreshore Road Drain, Howrah	Howrah	Engagement of consultant for prepration of DPR is under process.
4	R31	101, Foreshore Road Drain, Mowrah	Howrah	Engagement of consultant for prepration of DPR is under process.
5	R32	Shibpur Burning Ghat, Howrah - Shibpur	Howrah	Engagement of consultant for prepration of DPR is under process.
6	R26	Jagannath Drain	Howrah	To be Tapped under Howrah-Bally-Baranagar HAM
7	R33	Botanical Garden - 1, Kolkata	Howrah	Engagement of consultant for prepration of DPR is under process.
8	R34	Botanical Garden - II, iKolkata	Howrah	Engagement of consultant for prepration of DPR is under process.
9	R35	Nazerganj Khal	Howrah	Tender for prepration of DPR to be invited (1st Call)
10	R36	N.C.Pal Khal	Howrah	Tender for prepration of DPR to be invited (1st Call)
11	R37	Saraswati Khal, Sankrail	Howrah	Tender for prepration of DPR to be invited (1st Call)
12	R38	Singhi More Khal	Howrah	Tender for prepration of DPR to be invited (1st Call)
13	R39	Sankrail, near Manikpur ferry ghat	Howrah	Tender for prepration of DPR to be invited (1st Call)
14	R40	Drain @ Bazarpara, Garigha t Sharenga Khal	Howrah	Tender for prepration of DPR to be invited (1st Call)



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15	R45	Rangamati More	Howrah	Engagement of consultant for prepration of DPR is under process.
16	R46	Madai Hat	Howrah	Engagement of consultant for prepration of DPR is under process.
17	R47	Kumar Khali	Howrah	Engagement of consultant for prepration of DPR is under process.
18	R48	Garchumuk	Howrah	Engagement of consultant for prepration of DPR is under process.
19	R41	Chakmadhu, Nalpur near Bauria ferry ghat	Howrah	Consultant has been terminated due to poor performance. New tender shall be floated after MCC, for preparation of DPR.
20	R42	Chakashi - Chengali	Howrah	DO
21	R43	Phuleswar drain @ Uluberia	Howrah	DO
22	R44	Kalinga Nagar drain	Howrah	DO



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ANNEXURE- C1				
Details of 22 Nos. of CPCB Identified Drains in Howrah District.				
SL NO	CODE	NAME OF DRAIN	DIST	REMARKS
1	R28	Telkal Ghat drain, Howrah	Howrah	Report is enclosed.
2	R29	Rarnkrishna Mullick Ghat, Howrah	Howrah	Report is enclosed.
3	R30	130- Foreshore Road Drain, Howrah	Howrah	Report is enclosed.
4	R31	101, Foreshore Road Drain, Howrah	Howrah	Report is enclosed.
5	R32	Shibpur Burning Ghat, Howrah -	Howrah	Report is enclosed.
6	R26	Jagannath Drain	Howrah	Report is enclosed.
7	R33	Botanical Garden -I, Kolkata	Howrah	Report is enclosed.
8	R34	Botanical Garden -II, Kolkata	Howrah	Report is enclosed.
9	R35	Nazerganj Khal	Howrah	Report is enclosed.
10	R36	N.C.Pal Khal	Howrah	Report is enclosed.
11	R37	Saraswati Khal, Sankrail	Howrah	Report is enclosed.
12	R38	Singhi More Khal	Howrah	Report is enclosed.
13	R39	Sankrail, near Manikpur ferry ghat	Howrah	The drain was dried & sample could not be collected during monitoring.
14	R40	Drain @ Bazarpara, Garighat	Howrah	Report is enclosed.
15	R45	Rangamati More	Howrah	Report is enclosed.
16	R46	Madai Hat	Howrah	Report is enclosed.
17	R47	Kumar Khali	Howrah	Report is enclosed.
18	R48	Garchumuk	Howrah	The drain was dried & sample could not be collected during monitoring.



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19	R41	Chakmadhu, Nalpur near Bauria ferry	Howrah	Report is enclosed.
20	R42	Chakashi - Chengali	Howrah	Report is enclosed.
21	R43	Phuleswar drain @ Uluberia	Howrah	Sampling not done.
22	R44	Kalinga Nagar drain	Howrah	Report is enclosed.



02 AUG 2024

38228



WEST BENGAL POLLUTION CONTROL BOARD



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

CHEMICAL TEST REPORT

Report NO. 52

Issue Date: 04.03.2024

Sample Details	Channel (Surface water)	ARF No. : 70/2023
Sample Received From	Central Lab	Sampling Date/Time 07.11.2023/ 13:25 hrs.
Address	Telkal Ghat	Sample Received on 07.11.2023
Test Material	Channel sample	Total no of sample 01
Sampling Location	Near rail museum, Telkal Ghat	Period of Analysis 07.11.2023 to 20.11.2023
Height	NA	Climatic condition Cloudy
Sample condition	Good	Remarks -----
Method Of Sampling	APHA Standard Method 1060, 23 rd Edition, 2017 (Grab)	
Width (m)	2.4	Depth (m) 0.17
		Flow (m/s) 0.75
		Discharge (MLD) 26.44

Parameters	Result	Unit	LOD	Method
pH	6.96	Units	4 Units	APHA Standard Methods, 4500-H+ B, 23rd edition, 2017
Turbidity	141.00	NTU	0.50 NTU	APHA Standard Methods 2130 B; 23rd edition, 2017
EC	823.50	µS/cm	1.00	APHA Standard Methods, 2510 B; 23rd edition, 2017
DO	NIL	mg/L	0.2 mg/L	APHA Standard Methods 4500 O C; 23rd edition, 2017
BOD(3days@27°C)	85.50	mg/L	0.20 mg/L	CLWI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	257.15	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 23rd edition, 2017, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.04	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination); 23rd edition, 2017
Nitrate-N (NO ₃ -N)	1.38	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 23rd edition (2017).
TSS	460.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 23rd edition, 2017
TDS(@180°C)	420.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 23rd edition, 2017
Total Hardness	230.000	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition, 2017
Chloride	83.17	mg/L	5.00 mg/L	APHA Standard Methods 4500-CI-B, 23rd edition, 2017
Sulfate (SO ₄)	34.10	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 23rd edition, 2017
Total Alkalinity	300.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 23rd edition, 2017
Fluoride	0.31	mg/L	0.1 mg/L	APHA Standard Methods 4500- F- C; 23rd edition, 2017
Ammoniacal Nitrogen(NH ₄ -N)	12.10	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA Standard Methods 4500-B, C, 23rd edition, 2017
Sodium(Na ⁺)	60.00	mg/L	2.30 mg/L	APHA Standard Methods 3500-Na B; 23rd edition, 2017
Potassium	12.80	mg/L	2.20 mg/L	APHA Standard Methods 3500-K B; 23rd edition, 2017

Authorised Signatory:

Kalyan
Jr. Scientist
(Checked by)

AD
Scientist
(Verified by)

Balabho
Chief. Scientist
(Issued by)



02 AUG 2024

Report NO. 62

Issue Date: 04.03.2024

parameters	Result	Unit	LOD	Method
Calcium	64.00	mg/L	10.00 mg/L	APHA Standard Methods 3500-Ca B; 23rd edition, 2017
Magnesium	17.01	mg/L	10.00 mg/L	APHA Standard Methods 3500-Mg B; 23rd edition, 2017
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23rd Edition (2017):2017
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Iron	1.42	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23rd Edition (2017):2017
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Alpha-BHC	BDL	ppb	10 µg/L	<ul style="list-style-type: none"> • APHA Standard Methods 6630 B, 23rd edition, 2017 • USEPA Method 3510 C (Liquid-liquid extraction) • USEPA Method 3540 C (Soxlet extraction) • USEPA Method 3620 B (Clean up) • USEPA Method 8081 A (Organo Chlorine Analysis)
Gamma-BHC	BDL	ppb	10 µg/L	
o,p-DDT	BDL	ppb	16 µg/L	
p,p-DDT	BDL	ppb	16 µg/L	
Endosulphan I	BDL	ppb	15 µg/L	
Endosulphan II	BDL	ppb	10 µg/L	
Aldrin	BDL	ppb	10 µg/L	
Dieldrin	BDL	ppb	15 µg/L	

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: 70/2023 Dated: 07.11.2023 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 up to 30/03/2025

Authorised Signatory:

Kalyan
Jr. Scientist
(Checked by)

AB
Scientist
(Verified by)

Subhash
Chief. Scientist
(Issued by)

End of Report



02 AUG 2024

38230



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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

CHEMICAL TEST REPORT

Report No. 52

Issue Date: 04.03.2024

Sample Details	Channel (Surface water)	ARF No. : 70/2023					
Sample Received From	Central Lab ,	Sampling Date	07.11.2023/ 13:25 hrs.				
Address	Telkal Ghat Drain	Sample Received on	07.11.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near rail museum, Telkal Ghat	Period of Analysis	07.11.2023 to 17.11.2023				
Height	NA	Climatic condition	Cloudy				
Sample condition	Good	Remarks	-----				
Method Of Sampling	APHA Standard Method 1060,23 rd Edition , 2017 (Grab)						
Width (m)	2.4	Depth (m)	0.17	Flow (m/s)	0.75	Discharge(MLD)	26.44

Parameters	Result	Unit	LOD	Method
Total Fixed Solids (TFS)	460.00	mg/l	----	APHA Standard Methods 2540 E, 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. 70/2023 Dated: 07.11.2023 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.

Authorized Signatory:

Jr. Scientist
(Checked by)

Scientist
(Verified by)

Chief. Scientist
(Issued by)

----- End of Report -----



02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

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

MICROBIOLOGY TEST REPORT

Report No. 52

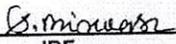
Issue date: 09.01.2024

Sample Details	Channel (Surface water)	ARF No. 70/2023					
Sample Received From	Central Lab ,	Sampling Date/Time	07.11.2023/ 13:25 hrs.				
Address	Telkal Ghat	Sample Received on	07.11.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near rail museum, Telkal Ghat	Period of Analysis	07.11.2023 to 11.11.2023				
Height	NA	Climatic condition	Cloudy				
Sample condition	Good	Remarks	---				
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)						
Width (m)	2.4	Depth (m)	0.17	Flow (m/s)	0.75	Discharge(MLD)	26.44

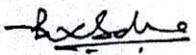
Parameters	Result	Unit	LOD	Method
Total coliform (TC)	220×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 23RD edition 2017
Fecal coliform (FC)	120×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods,9221E; 23RD edition 2017
Fecal Streptococci (FS)	46×10 ³	MPN/100 ml	<1.8	APHA Standard Methods,9230B; 23RD edition 2017

Note:- LOD: Limit of Detection, NA: Not Applicable.

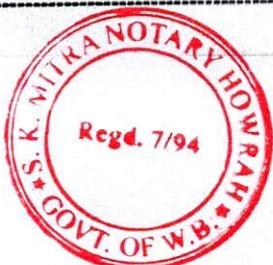
- 1) For Sampling details pl. refer to A.R.F No: 70/2023 Dated: 07.11.2023
 - 2) Results are reported based on preserved materials.
 - 3) Sample will be destroyed after 15days from the date of issue of the certificate unless otherwise specified. Sample will be preserved according to Standard Method
 - 4) The Test Report shall not be reproduced except in full, without the written permission of the Laboratory.
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 JRF
 (Analyzed by)


 Chief Scientist
 (Checked and Verified by)


 Chief Scientist
 (Issued by)

----- End of Report -----



02 AUG 2024

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Central Laboratory
Paribesh Bhawan, 10A, Block LA, Sector III, Salt Lake City, Kolkata 700106.
Tel: (033) 2335-5953

CHEMICAL TEST REPORT

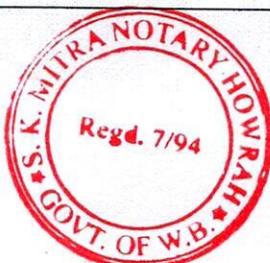
Report NO. 42

Issue Date: 11.03.2024

Sample Details	Channel (Surface water)	ARF No. : 71/2023
Sample Received From	Central Lab	Sampling Date/Time 07/11/2023, 13:55 hrs.
Address	Ramkrishna Mallick Ghat	Sample Received on 07/11/2023
Test Material	Channel sample	Total no of sample 01
Sampling Location	Near Ramkrishna Mallick Ghat jetty	Period of Analysis 07/11/2023 to 15/11/2023
Height	NA	Climatic condition Sunny
Sample condition	Good.	Remarks -----
Method Of Sampling	APHA Standard Method 1060, 23 rd Edition, 2017 (Grab)	
Width (m)	0.84	Depth (m) 0.07
		Flow (m/s) 0.21
		Discharge(MLD) 1.07

Parameters	Result	Unit	LOD	Method
pH	6.5	Units	4 Units	APHA Standard Methods, 4500-H+ B, 23rd edition, 2017
Turbidity	286.00	NTU	0.50 NTU	APHA Standard Methods 2130 B; 23rd edition, 2017
EC	1234.00	$\mu\text{S}/\text{cm}$	1.00	APHA Standard Methods, 2510 B; 23rd edition, 2017
DO	NIL	mg/L	0.2 mg/L	APHA Standard Methods 4500 O C; 23rd edition, 2017
BOD(3days@27°C)	49.25	mg/L	0.20 mg/L	CLWI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	180.96	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 23rd edition, 2017, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P ($\text{PO}_4\text{-P}$)	0.07	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination); 23rd edition, 2017
Nitrate-N ($\text{NO}_3\text{-N}$)	2.71	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 23rd edition (2017).
TSS	150.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 23rd edition, 2017
TDS(@180°C)	756.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 23rd edition, 2017
Total Hardness	360.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition, 2017
Chloride	107.63	mg/L	5.00 mg/L	APHA Standard Methods 4500-CI-B, 23rd edition, 2017
Sulfate (SO_4)	94.52	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 23rd edition, 2017
Total Alkalinity	230.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 23rd edition, 2017
Fluoride	0.32	mg/L	0.1 mg/L	APHA Standard Methods 4500- F- C; 23rd edition, 2017
Ammoniacal Nitrogen($\text{NH}_4\text{-N}$)	15.80	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA Standard Methods 4500-B, C, 23rd edition, 2017
Sodium(Na^+)	96.00	mg/L	2.30 mg/L	APHA Standard Methods 3500-Na B; 23rd edition, 2017
Potassium	19.70	mg/L	2.20 mg/L	APHA Standard Methods 3500-K B; 23rd edition, 2017

Authorised Signatory:



Kohy
Jr. Scientist
(Checked by)

[Signature]
Scientist
(Checked by)

[Signature]
Chief. Scientist
(Issued by)

Page 1 of 2

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parameters	Result	Unit	LOD	Method
Calcium	84.00	mg/L	10.00 mg/L	APHA Standard Methods 3500-Ca B; 23rd edition, 2017
Magnesium	36.45	mg/L	10.00 mg/L	APHA Standard Methods 3500-Mg B; 23rd edition, 2017
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23rd Edition (2017):2017
Cadmium(Cd)	12.70	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Iron	8.88	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23rd Edition (2017):2017
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Zinc	06.00	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Alpha-BHC	BDL	ppb	10 µg/L	<ul style="list-style-type: none"> • APHA Standard Methods 6630 B, 23rd edition, 2017 • USEPA Method 3510 C (Liquid-liquid extraction) • USEPA Method 3540 C (Soxhlet extraction) • USEPA Method 3620 B (Clean up) • USEPA Method 8081 A (Organic Chlorine Analysis)
Gamma-BHC	BDL	ppb	10 µg/L	
o,p-DDT	BDL	ppb	16 µg/L	
p,p-DDT	BDL	ppb	16 µg/L	
Endosulphan I	BDL	ppb	15 µg/L	
Endosulphan II	BDL	ppb	10 µg/L	
Aldrin	BDL	ppb	10 µg/L	
Dieldrin	BDL	ppb	15 µg/L	

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: 71/2023 Dated: 07.11.2023 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 up to 30/03/2025

Authorised Signatory:

[Signature]
 Jr. Scientist
 (Checked by)

[Signature]
 Scientist
 (Checked by)

[Signature]
 Chief. Scientist
 (Issued by)

----- End of Report -----



02 AUG 2024

38234



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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

CHEMICAL TEST REPORT

Report No.42

Issue Date: 11.03.2024

Sample Details	Channel (Surface water)	ARF No. : 71/2023
Sample Received From	Central Lab ,	Sampling Date 07/11/2023, 13:55 hrs.
Address	Ramkrishna Mallick Ghat	Sample Received on 07/11/2023
Test Material	Channel sample	Total no of sample 01
Sampling Location	Near Ramkrishna Mallick Ghat jetty	Period of Analysis 07/11/2023 to 15/11/2023
Height	NA	Climatic condition Sunny
Sample condition	Good	Remarks -----
Method Of Sampling	APHA Standard Method 1060,23 rd Edition , 2017 (Grab)	
Width (m)	0.84	Depth (m) 0.07
		Flow (m/s) 0.21
		Discharge(MLD) 1.07

Parameters	Result	Unit	LOD	Method
Total Fixed Solids (TFS)	526.00	mg/l	---	APHA Standard Methods 2540 E, 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. 71/2023 Dated: 07.11.2023 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.

Authorized Signatory:

Kaly
Jr. Scientist
(Checked by)

AB
Scientist
(Checked by)

B. Balu
Chief. Scientist
(Issued by)

----- End of Report -----



02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

Central Laboratory
Paribesh Bhawan, 10A, Block LA, Sector III, Salt Lake City, Kolkata 700106.
Tel: (033) 2335-5953

MICROBIOLOGY TEST REPORT

Report No. 42

Issue date: 29.01.2024

Sample Details	Channel (Surface water)	ARF No. : 71/2023
Sample Received From	Central Lab ,	Sampling Date/Time 07/11/2023, 13:55 hrs.
Address	Ramkrishna Mallick Ghat	Sample Received on 07/11/2023
Test Material	Channel sample	Total no of sample 01
Sampling Location	Near Ramkrishna Mallick Ghat jetty	Period of Analysis 07/11/2023 to 10/11/2023
Height	NA	Climatic condition Sunny
Sample condition	Good	Remarks -----
Method Of Sampling	APHA Standard Method 1060, 23rd Edition , 2017 (Grab)	
Width (m)	0.84	Depth (m) 0.07
		Flow (m/s) 0.21
		Discharge(MLD) 1.07

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	84×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods, 9221B; 23RD edition 2017
Fecal coliform (FC)	46×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods, 9221E; 23RD edition 2017
Fecal Streptococci (FS)	21×10 ²	MPN/100 ml	<1.8	APHA Standard Methods, 9230B; 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 71/2023 Dated: 07.11.2023 2) Results are reported based on preserved materials.
 3) Sample will be destroyed after 15 days 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 up to 30/03/2025

Authorised Signatory: *Satta*
 Env. Analyst
 (Checked and Verified by)

B. Saha
 Chief Scientist
 (Issued by)



02 AUG 2024

38236



WEST BENGAL POLLUTION CONTROL BOARD



Central Laboratory
Paribesh Bhawan, 10A, Block LA, Sector III, Salt Lake City, Kolkata 700106.
Tel: (033) 2335-5953

MICROBIOLOGY TEST REPORT

Report No. 42

Issue date: 09.01.2024

Sample Details	Channel (Surface water)	ARF No. : 71/2023
Sample Received From	Central Lab ,	Sampling Date/Time 07/11/2023/ 13:55 hrs.
Address	Ramkrishna Mallick Ghat	Sample Received on 07/11/2023
Test Material	Channel sample	Total no of sample 01
Sampling Location	Near Ramkrishna Mallick Ghat jetty	Period of Analysis 07/11/2023 to 11/11/2023
Height	NA	Climatic condition Sunny
Sample condition	Good	Remarks ----
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)	
Width (m)	0.84	Depth (m) 0.07
		Flow (m/s) 0.21
		Discharge(MLD) 1.07

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	84×10^5	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 23RD edition 2017
Fecal coliform (FC)	46×10^5	MPN/100 ml	<1.8	APHA Standard Methods,9221E; 23RD edition 2017
Fecal Streptococci (FS)	21×10^3	MPN/100 ml	<1.8	APHA Standard Methods,9230B; 23RD edition 2017

Note:- LOD: Limit of Detection, NA: Not Applicable.

1) For Sampling details pl. refer to A.R.F No 71/2023 Dated: 07.11.2023 2) Results are reported based on preserved materials.

3) Sample will be destroyed after 15 days 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 up to 30/03/2025

G. Minerva
JRF

(Analyzed by)

B. Saha

Chief Scientist

(Checked and Verified by)

B. Saha

Chief Scientist

(Issued by)

----- End of Report -----



02 AUG 2024



Central Laboratory

Paribesh Bhawan, 10A, Block LA, Sector III, Salt Lake City, Kolkata 700 106.

Tel: (033) 2335-5953

CHEMICAL TEST REPORT

Report No. 44

Issue Date: 11.03.2024

Sample Details	Channel (Surface water)	ARF No. : 72/2023	
Sample Received From	Central Lab	Sampling Date/ Time	07.11.2023/ 14:15 Hrs.
Address	130, Foreshore Road	Sample Received on	07.11.2023
Test Material	Channel sample	Total no of sample	01
Sampling Location	Near Veedol RKP Plant	Period of Analysis	7.11.2023 to 17.11.2023
Height	NA	Climatic condition	Sunny
Sample condition	Good	Remarks	---
Method Of Sampling	APHA Standard Method 1060,23 rd Edition , 2017 (Grab)		
Width (m)	1.1	Depth (m)	0.27
		Flow (m/s)	0.41
		Discharge(MLD)	10.52

Parameters	Result	Unit	LOD	Method
pH	6.90	Units	4 Units	APHA Standard Methods, 4500-H+ B, 23rd edition, 2017
Turbidity	142.00	NTU	0.50 NTU	APHA Standard Methods 2130 B; 23rd edition, 2017
EC	1939.00	µS/cm	01.00 µS/cm	APHA Standard Methods, 2510 B; 23rd edition, 2017
DO	NIL	mg/L	0.2 mg/L	APHA Standard Methods 4500 C C; 23rd edition, 2017
BOD(3days@27°C)	183.25	mg/L	0.20 mg/L	CL/W/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	314.29	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 23rd edition, 2017, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.03	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination); 23rd edition, 2017
Nitrate-N (NO ₃ -N)	1.61	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 23rd edition (2017).
TSS	152.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 23rd edition, 2017
TDS(@180°C)	580.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 23rd edition, 2017
Total Hardness	470.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition, 2017
Chloride	352.23	mg/L	5.00 mg/L	APHA Standard Methods 4500-Cl-B, 23rd edition, 2017
Sulfate (SO ₄)	31.44	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 23rd edition, 2017
Total Alkalinity	380.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 23rd edition, 2017
Fluoride	0.35	mg/L	0.1 mg/L	APHA Standard Methods 4500- F- C; 23rd edition, 2017
Ammoniacal Nitrogen(NH ₄ -N)	20.60	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA Standard Methods 4500-B, C, 23rd edition, 2017
Sodium(Na ⁺)	194.00	mg/L	2.30 mg/L	APHA Standard Methods 3500-Na B; 23rd edition, 2017
Potassium	19.80	mg/L	2.20 mg/L	APHA Standard Methods 3500-K B; 23rd edition, 2017

Authorised Signatory :

Kohy
Jr. Scientist
(Checked by)

AB
Scientist
(Verified by)

beche
Chief. Scientist
(Issued by)

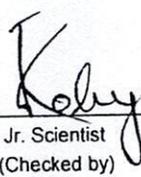


02 AUG 2024

Report NO. 44

parameters	Result	Unit	LOD	Method
Calcium	128.00	mg/L	10.00 mg/L	APHA Standard Methods 3500-Ca B; 23rd edition, 2017
Magnesium	36.45	mg/L	10.00 mg/L	APHA Standard Methods 3500-Mg B; 23rd edition, 2017
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23rd Edition (2017):2017
Cadmium(Cd)	1.04	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Iron	3.13	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23rd Edition (2017):2017
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Zinc	0.57	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Alpha-BHC	BDL	ppb	10 µg/L	<ul style="list-style-type: none"> • APHA Standard Methods 6630 B, 23rd edition, 2017 • USEPA Method 3510 C (Liquid-liquid extraction) • USEPA Method 3540 C (Soxhlet extraction) • USEPA Method 3620 B (Clean up) • USEPA Method 8081 A (Organo Chlorine Analysis)
Gamma-BHC	BDL	ppb	10 µg/L	
o,p-DDT	BDL	ppb	16 µg/L	
p,p-DDT	BDL	ppb	16 µg/L	
Endosulphan I	BDL	ppb	15 µg/L	
Endosulphan II	BDL	ppb	10 µg/L	
Aldrin	BDL	ppb	10 µg/L	
Dieldrin	BDL	ppb	15 µg/L	

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: 72/2023 Dated: 07.11.2023 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 up to 30/03/2025

Authorised Signatory:  Jr. Scientist (Checked by)  Scientist (Verified by)  Chief. Scientist (Issued by)

----- End of Report -----




 02 AUG 2024



- 25 - - 52

38239

WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

Report No. 44

Issue Date: 11.03.2024

Sample Details	Channel (Surface water)	ARF No. : 72/2023	
Sample Received From	Central Lab ,	Sampling Date / Time	07.11.2023/ 14:15 Hrs.
Address	130, Foreshore Road	Sample Received on	07.11.2023
Test Material	Channel sample	Total no of sample	01
Sampling Location	Near Veedol RKP Plant	Period of Analysis	7.11.2023 to 17.11.2023
Height	NA	Climatic condition	Sunny
Sample condition	Good	Remarks	----
Method Of Sampling	APHA Standard Method 1060.23 rd Edition , 2017 (Grab)		
Width (m)	1.1	Depth (m)	0.27
		Flow (m/s)	0.41
		Discharge(MLD)	10.52

Parameters	Result	Unit	LOD	Method
Total Fixed Solids (TFS)	906.00	mg/l	----	APHA Standard Methods 2540 E, 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. 72/2023 Dated: 07.11.2023
- 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.

Authorised Signatory:

[Signature]
Jr. Scientist
(Checked by)

[Signature]
Scientist
(Verified by)

[Signature]
Chief. Scientist
(Issued by)

----- End of Report -----



02 AUG 2024

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

MICROBIOLOGY TEST REPORT

Report No. 44

Issue date: 09.01.2024

Sample Details	Channel (Surface water)	ARF No. : 72/2023					
Sample Received From	Central Lab ,	Sampling Date / Time	07.11.2023/ 14:15 Hrs.				
Address	130,Foreshore road	Sample Received on	07.11.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Veedol RKP Plant	Period of Analysis	7.11.2023 to 11.11.2023				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	----				
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)						
Width (m)	1.1	Depth (m)	0.27	Flow (m/s)	0.41	Discharge(MLD)	10.52

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	350×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 23RD edition 2017
Fecal coliform (FC)	170×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods,9221E; 23RD edition 2017
Fecal Streptococci (FS)	110×10 ³	MPN/100 ml	<1.8	APHA Standard Methods,9230B; 23RD edition 2017

Note:- LOD: Limit of Detection, Not Applicable.

- 1) For Sampling details pl. refer to A.R.F No: 72/2023 Dated: 07.11.2023
 - 2) Results are reported based on preserved materials.
 - 3) Sample will be destroyed after 15 days 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 up to 30/03/2025

S. Miousa
JRF

(Analyzed by)

B. Saha
Chief Scientist

(Checked and Verified by)

B. Saha
Chief Scientist

(Issued by)

----- End of Report -----



02 AUG 2024



WEST BENGAL POLLUTION CONTROL BOARD

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



38241

CHEMICAL TEST REPORT

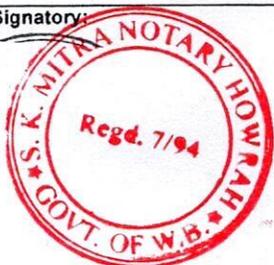
Report No.43

Issue Date: 11.03.2024

Sample Details	Channel (Surface water)	ARF No. : 69/2023					
Sample Received From	Central Lab	Sampling Date / Time	07.11.2023/12:55 Hrs.				
Address	101, Foreshore Road, near Shibpur Ferry Ghat	Sample Received on	07.11.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	near Shibpur Ferry Ghat	Period of Analysis	07.11.2023 to 17.11.2023				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	-----				
Method Of Sampling	APHA Standard Method 1060.23 rd Edition , 2017 (Grab)						
Width (m)	0.96	Depth (m)	0.55	Flow (m/s)	0.25	Discharge(MLD)	11.40

Parameters	Result	Unit	LOD	Method
pH	7.02	Units	4 Units	APHA Standard Methods, 4500-H+ B, 23rd edition, 2017
Turbidity	91.40	NTU	0.50 NTU	APHA Standard Methods 2130 B; 23rd edition, 2017
EC	2818.00	µS/cm	1.00	APHA Standard Methods, 2510 B; 23rd edition, 2017
DO	NIL	mg/L	0.2 mg/L	APHA Standard Methods 4500 O C; 23rd edition, 2017
BOD(3days@27°C)	117.25	mg/L	0.20 mg/L	CL/WI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	323.82	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 23rd edition, 2017, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.03	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination); 23rd edition, 2017
Nitrate-N (NO ₃ -N)	1.84	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 23rd edition (2017).
TSS	76.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 23rd edition, 2017
TDS(@180°C)	1244.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 23rd edition, 2017
Total Hardness	680.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition, 2017
Chloride	645.76	mg/L	5.00 mg/L	APHA Standard Methods 4500-Cl-B, 23rd edition, 2017
Sulfate (SO ₄)	34.89	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 23rd edition, 2017
Total Alkalinity	430.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 23rd edition, 2017
Fluoride	0.33	mg/L	0.1 mg/L	APHA Standard Methods 4500- F- C; 23rd edition, 2017
Ammoniacal Nitrogen(NH ₄ -N)	15.20	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA Standard Methods 4500-B, C, 23rd edition, 2017
Sodium(Na ⁺)	316.00	mg/L	2.30 mg/L	APHA Standard Methods 3500-Na B; 23rd edition, 2017
Potassium	17.10	mg/L	2.20 mg/L	APHA Standard Methods 3500-K B; 23rd edition, 2017

Authorised Signatory:



Kohy
Jr. Scientist
(Checked by)

AD
Scientist
(Verified by)

B. S. Chandra
Chief. Scientist
(Issued by)

02 AUG 2024

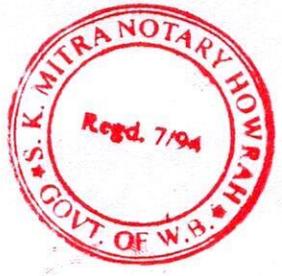
parameters	Result	Unit	LOD	Method
Calcium(Ca ⁺⁺)	192.00	mg/L	10.00 mg/L	APHA Standard Methods 3500-Ca B; 23rd edition, 2017
Magnesium(Mg ⁺⁺)	48.60	mg/L	10.00 mg/L	APHA Standard Methods 3500-Mg B; 23rd edition, 2017
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23rd Edition (2017):2017
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Total chromium (Cr)	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Iron (Fe)	1.26	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Lead (Pb)	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Mercury (Hg)	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23rd Edition (2017):2017
Nickel (Ni)	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Zinc (Zn)	0.10	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Alpha-BHC	BDL	ppb	10 µg/L	<ul style="list-style-type: none"> • APHA Standard Methods 6630 B, 23rd edition, 2017 • USEPA Method 3510 C (Liquid-liquid extraction) • USEPA Method 3540 C (Soxhlet extraction) • USEPA Method 3620 B (Clean up) • USEPA Method 8081 A (Organo Chlorine Analysis)
Gamma-BHC	BDL	ppb	10 µg/L	
o,p-DDT	BDL	ppb	16 µg/L	
p,p-DDT	BDL	ppb	16 µg/L	
Endosulphan I	BDL	ppb	15 µg/L	
Endosulphan II	BDL	ppb	10 µg/L	
Aldrin	BDL	ppb	10 µg/L	
Dieldrin	BDL	ppb	15 µg/L	

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. 69/2023 Dated: 07.11.2023 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

Authorised Signatory: *Koluy* *AB* *Redcho*

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

----- End of Report -----



02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

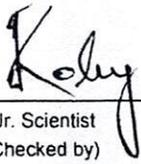
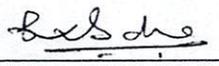
Report No. 43

Issue Date: 11.03.2024

Sample Details	Channel (Surface water)	ARF No. : 69/2023
Sample Received From	Central Lab ,	Sampling Date / Time 07.11.2023/12:55 Hrs.
Address	101, Foreshore Road, near Shibpur Ferry Ghat	Sample Received on 07.11.2023
Test Material	Channel sample	Total no of sample 01
Sampling Location	near Shibpur Ferry Ghat	Period of Analysis 07.11.2023 to 17.11.2023
Height	NA	Climatic condition Sunny
Sample condition	Good	Remarks -----
Method Of Sampling	APHA Standard Method 1060, 23rd Edition, 2017 (Grab)	
Width (m)	0.96	Depth (m) 0.55
		Flow (m/s) 0.25
		Discharge(MLD) 11.40

Parameters	Result	Unit	LOD	Method
Total Fixed Solids (TFS)	1776.00	mg/l	----	APHA Standard Methods 2540 E, 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. 69/2023 Dated 07.11.2023 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.

Authorized Signatory:  Jr. Scientist (Checked by)  Scientist (Verified by)  Chief. Scientist (Issued by)

----- End of Report -----



02 AUG 2024

Central Laboratory

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

MICROBIOLOGY TEST REPORT

Report No. 43

Issue date: 09.01.2024

Sample Details	Channel (Surface water)	ARF No. : 69/2023	
Sample Received From	Central Lab ,	Sampling Date /Time	07.11.2023/12:55 Hrs.
Address	101,Foreshore Road,near Shibpur Ferry Ghat	Sample Received on	07.11.2023
Test Material	Channel sample	Total no of sample	01
Sampling Location	near Shibpur Ferry Ghat	Period of Analysis	07.11.2023 to 10.11.2023
Height	NA	Climatic condition	Sunny
Sample condition	Good	Remarks	-----
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)		
Width (m)	0.96	Depth (m)	0.55
		Flow (m/s)	0.25
		Discharge(MLD)	11.40

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	280×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 23RD edition 2017
Fecal coliform (FC)	130×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods,9221E; 23RD edition 2017
Fecal Streptococci (FS)	49×10 ³	MPN/100 ml	<1.8	APHA Standard Methods,9230B; 23RD edition 2017

Note:- LOD: Limit of Detection , NA: Not Applicable .

- 1) For Sampling details pl. refer to A.R.F No. 69/2023 Dated: 07.11.2023 2) Results are reported based on preserved materials.
 - 3) Sample will be destroyed after 15 days 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

S. Mitter
JRF

(Analyzed by)

B. Saha

Chief Scientist

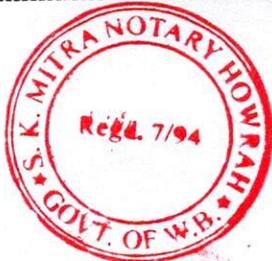
(Checked and Verified by)

B. Saha

Chief Scientist

(Issued by)

----- End of Report -----



02 AUG 2024

211 - 58

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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

CHEMICAL TEST REPORT

Report NO. 51

Issue Date: 04.03.2024

Table with sample details including Channel (Surface water), ARF No.: 68/2023, Sampling Date: 07.11.2023/ 12:25 Hrs., Address: Shibpur Burning Ghat Drain, etc.

Table with parameters and results including pH (7.09), Turbidity (88.70), EC (2847.00), DO (NIL), BOD(3days@27°C) (101.00), COD (304.77), Phosphate-P (PO4-P) (0.03), Nitrate-N (NO3-N) (1.93), TSS (112.00), TDS(@180°C) (1568.00), Total Hardness (620.00), Chloride (606.62), Sulfate (SO4) (51.81), Total Alkalinity (480.00), Fluoride (0.33), Ammoniacal Nitrogen(NH4-N) (22.00), Boron (BDL), Sodium(Na+) (290.00), Potassium (22.00).

Authorised Signatory:

Signature of Jr. Scientist (Checked by)

Signature of Scientist (Verified by)

Signature of Chief Scientist (Issued by)



Handwritten signature in green ink

02 AUG 2024

Report NO. 51

Issue Date: 04.03.2024

parameters	Result	Unit	LOD	Method
Calcium	204.00	mg/L	10.00 mg/L	APHA Standard Methods 3500-Ca B; 23rd edition, 2017
Magnesium	26.73	mg/L	10.00 mg/L	APHA Standard Methods 3500-Mg B; 23rd edition, 2017
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23rd Edition (2017);2017
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017);2017
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017);2017
Iron	0.28	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017);2017
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017);2017
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23rd Edition (2017);2017
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017);2017
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017);2017
Alpha-BHC	BDL	ppb	10 µg/L	<ul style="list-style-type: none"> • APHA Standard Methods 6630 B, 23rd edition, 2017 • USEPA Method 3510 C (Liquid-liquid extraction) • USEPA Method 3540 C (Soxhlet extraction) • USEPA Method 3620 B (Clean up) • USEPA Method 8081 A (Organo Chlorine Analysis)
Gamma-BHC	BDL	ppb	10 µg/L	
o,p-DDT	BDL	ppb	16 µg/L	
p,p-DDT	NT	ppb	16 µg/L	
Endosulphan I	BDL	ppb	15 µg/L	
Endosulphan II	BDL	ppb	10 µg/L	
Aldrin	BDL	ppb	10 µg/L	
Dieldrin	BDL	ppb	15 µg/L	

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

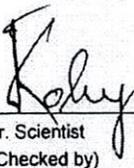
1) For Sampling details pl. refer to A.R.F No: 68/2023 Dated: 07.11.2023 2) Results are reported based on preserved materials.

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

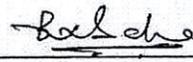
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The Parameter are under the scope of NABL accreditation ISO/IEC 17025:2017 Certificate No. TC-6291 valid up to 30/03/2025

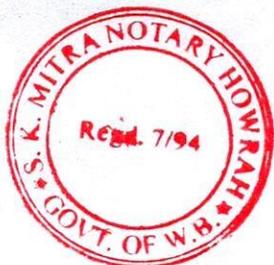
Authorised Signatory:


Jr. Scientist
(Checked by)


Scientist
(Verified by)


Chief Scientist
(Issued by)

----- End of Report -----



02 AUG 2024

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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

CHEMICAL TEST REPORT

Report No. 51

Issue Date: 04.03.2024

Table with sample details including Sample Details, Sample Received From, Address, Test Material, Sampling Location, Height, Sample condition, Method Of Sampling, Width (m), Depth (m), Flow (m/s), Discharge(MLD).

Table with parameters: Total Fixed Solids (TFS), Result (1246.00), Unit (mg/l), LOD (---), Method (APHA Standard Methods 2540 E, 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. 68/2023 Dated: 07.11.2023
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.

Authorised Signatory:

Signature of Jr. Scientist (Checked by)

Signature of Scientist (Verified by)

Signature of Chief Scientist (Issued by)

End of Report



02 AUG 2024

38248

-34 - -61-



WEST BENGAL POLLUTION CONTROL BOARD



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

MICROBIOLOGY TEST REPORT

Report No. 51

Issue date: 09.01.2024

Sample Details	Channel (Surface water)	ARF No. : 68/2023
Sample Received From	Central Lab ,	Sampling Date/Time 07.11.2023/ 12:25 Hrs.
Address	Shibpur Burning Ghat Drain	Sample Received on 07.11.2023
Test Material	Channel sample	Total no of sample 01
Sampling Location	Near Shibpur Burning Ghat	Period of Analysis 07.11.2023 to 11.11.2023
Height	NA	Climatic condition Good
Sample condition	Good	Remarks -----
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)	
Width (m)	2.3	Depth (m) 0.08
		Flow (m/s) 0.037
		Discharge(MLD) 0.59

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	280×10^5	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 23RD edition 2017
Fecal coliform (FC)	140×10^5	MPN/100 ml	<1.8	APHA Standard Methods,9221E; 23RD edition 2017
Fecal Streptococci (FS)	70×10^3	MPN/100 ml	<1.8	APHA Standard Methods,9230B; 23RD edition 2017

Note:- LOD: Limit of Detection, NA: Not Applicable.

- 1) For Sampling details pl. refer to A.R.F No: 68/2023 Dated: 07.11.2023
 - 2) Results are reported based on preserved materials.
 - 3) Sample will be destroyed after 15days 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 up to 30/03/2025

S. M. JRF
 JRF

(Analyzed by)

B. B. S.

Chief Scientist

(Checked and Verified by)

B. B. S.

Chief Scientist

(Issued by)

----- End of Report -----



02 AUG 2024

CHEMICAL TEST REPORT

Report NO. 54

Issue Date: 04.03.2024

Sample Details	Channel (Surface water)	ARF No. : 88/2023					
Sample Received From	Central Lab	Sampling Date / Time	30.11.2023/11:00 hrs.				
Address	Jagannath Drain	Sample Received on	30.11.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Jagannath Ghat	Period of Analysis	30.11.2023 to 14.12.2023				
Height	NA	Climatic condition	Cloudy				
Sample condition	Good	Remarks	Joint Sampling With CPCB				
Method Of Sampling	APHA Standard Method 1060, 23 rd Edition, 2017 (Grab)						
Width (m)	2.0	Depth (m)	0.07	Flow (m/s)	1.00	Discharge(MLD)	12.10

Parameters	Result	Unit	LOD	Method
pH	7.37	Units	4 Units	APHA Standard Methods, 4500-H+ B, 23rd edition, 2017
BOD(3days@27°C)	39.63	mg/L	0.20 mg/L	CL/W/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	120.64	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 23rd edition, 2017, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	BDL	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination); 23rd edition, 2017
Nitrate-N (NO ₃ -N)	1.35	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 23rd edition (2017).
TSS	162.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 23rd edition, 2017
TDS(@180°C)	1358.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 23rd edition, 2017
Total Hardness	580.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition, 2017
Chloride	449.86	mg/L	5.00 mg/L	APHA Standard Methods 4500-CI-B, 23rd edition, 2017
Sulfate (SO ₄)	50.82	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 23rd edition, 2017
Total Alkalinity	360.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 23rd edition, 2017
Ammoniacal Nitrogen(NH ₄ -N)	17.30	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 23rd edition, 2017

Authorised Signatory:

Keluy
 Jr. Scientist
 (Checked by)

AB
 Scientist
 (Verified by)

Babbar
 Chief. Scientist
 (Issued by)



02 AUG 2024

parameters	Result	Unit	LOD	Method
Calcium	120.00	mg/L	10.00 mg/L	APHA Standard Methods 3500-Ca B; 23rd edition, 2017
Magnesium	68.04	mg/L	10.00 mg/L	APHA Standard Methods 3500-Mg B; 23rd edition, 2017
Arsenic	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23rd Edition (2017):2017
Cadmium	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Total chromium	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Iron	BDL	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23rd Edition (2017):2017
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Copper	BDL	mg/l	0.11 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Cobalt	BDL	mg/L	0.60 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Manganese	0.35	mg/L	0.28 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017

Valadium, Selenium : Facility is not available.

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: 88/2023 Dated: 30.11.2023
 - 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
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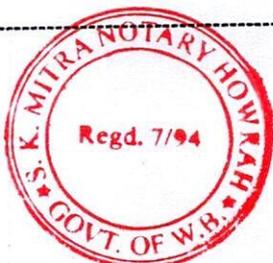
Authorised Signatory:

Jr. Scientist
(Checked by)

Scientist
(Verified by)

Chief. Scientist
(Issued by)

----- End of Report -----



02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

Report No. 54

Issue Date: 04.03.2024

Sample Details	Channel (Surface water)	ARF No. : 88/2023					
Sample Received From	Central Lab ,	Sampling Date / Time	30.11.2023/11:00 hrs.				
Address	Jagannath Drain	Sample Received on	30.11.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Jagannath ghat	Period of Analysis	30.11.2023 to 14.12.2023				
Height	NA	Climatic condition	Cloudy				
Sample condition	Good	Remarks	Joint Sampling With CPCB				
Method Of Sampling	APHA Standard Method 1060,23 rd Edition , 2017 (Grab)						
Width (m)	2.0	Depth (m)	0.07	Flow (m/s)	1.00	Discharge(MLD)	12.10

Parameters	Result	Unit	LOD	Method
Antimony	BDL	mg/l	----	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):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. 88/2023 Dated: 30.11.2023 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
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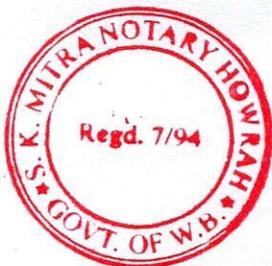
[Signature]
Jr. Scientist
(Checked by)

[Signature]
Scientist
(Verified by)

[Signature]
Chief. Scientist
(Issued by)

Authorised Signatory:

----- End of Report -----



02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

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

MICROBIOLOGY TEST REPORT

Report No. 54

Issue date: 09.01.2024

Sample Details	Channel (Surface water)	ARF No. : 88 /2023					
Sample Received From	Central Lab ,	Sampling Date /Time	30.11.2023/11:00 hrs.				
Address	Jagannath Drain	Sample Received on	30.11.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Jagannath Ghat	Period of Analysis	30.11.2023 to 04.12.2023				
Height	NA	Climatic condition	Cloudy				
Sample condition	Good	Remarks	Joint Sampling With CPCB				
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)						
Width (m)	2.0	Depth (m)	0.07	Flow (m/s)	1.00	Discharge(MLD)	12.10

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	33×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 23RD edition 2017
Fecal coliform (FC)	21×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods,9221E; 23RD edition 2017

Note:- LOD: Limit of Detection, NA: Not Applicable.

- 1) For Sampling details pl. refer to A.R.F No: 88/2023 Dated: 30.11 .2023 2) Results are reported based on preserved materials.
 - 3) Sample will be destroyed after 15 days from the date of issue of the certificate unless otherwise specified. Sample will be preserved according to Standard Method
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S. Miron

JRF

(Analyzed by)

B. Saha

Chief Scientist

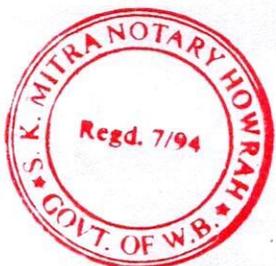
(Checked and Verified by)

B. Saha

Chief Scientist

(Issued by)

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02 AUG 2024

TEST REPORT

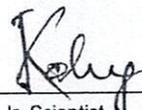
Report NO. 66

Issue Date: 12.04.2024

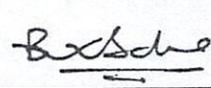
Sample Details		Channel (Surface water)		ARF No. : 105/2024			
Sample Received From		Central Lab		Sampling Date/Time	24.01.2024/ 08:32 Hrs		
Address		Botanical Garden I		Sample Received on	24.01.2024		
Test Material		Channel sample		Total no of sample	01		
Sampling Location		Near Botanical Garden		Period of Analysis	24.01.2024 to 07.02.2024		
Height		NA		Climatic condition	Sunny		
Sample condition		Good		Remarks	Joint Sampling with CPCB		
Method Of Sampling		APHA Standard Method 1060,23 rd Edition , 2017 (Grab)					
Width (m)	1.4	Depth (m)	0.25	Flow (m/s)	2.5	Discharge(MLD)	75.6

Parameters	Result	Unit	LOD	Method
pH	7.28	Units	4 Units	APHA Standard Methods, 4500-H+ B, 24 TH edition, 2023
BOD(3days@27°C)	17.19	mg/L	0.20 mg/L	CL/WI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	51.94	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 24 TH edition, 2023, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.06	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination) 24 TH edition, 2023
Nitrate-N (NO ₃ -N)	0.57	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 24 TH edition, 2023
TSS	52.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 24 TH edition, 2023
TDS(@180°C)	940.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 24 TH edition, 2023
Chloride	324.90	mg/L	5.00 mg/L	APHA Standard Methods 2340 C; 24 TH edition, 2023
Sulfate (SO ₄)	30.11	mg/L	5.00 mg/L	APHA Standard Methods 4500-CI-B, 24 TH edition, 2023
Total Alkalinity	320.00	mg/L	10.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 24 TH edition, 2023
Ammoniacal Nitrogen(NH ₄ -N)	11.30	mg/L	0.1 mg/L	APHA Standard Methods 2320 B, 24 TH edition, 2023

Authorised Signatory:


Jr. Scientist
(Checked by)


Scientist
(Verified by)


Chief. Scientist
(Issued by)




02 AUG 2024

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parameters	Result	Unit	LOD	Method
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 24 TH edition, 2023
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Iron	0.60	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 24 TH edition, 2023
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Copper	BDL	mg/l	0.11 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Cobalt	BDL	mg/L	0.60 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Manganese	0.39	mg/L	0.28 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023

Valadium, Selenium: Facility is not available.

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done
 1) For Sampling details pl. refers to A.R.F No 105/2024 Dated 24.01.2024 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
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Authorised Signatory:

Koluy
 Jr. Scientist
 (Checked by)

[Signature]
 Scientist
 (Verified by)

[Signature]
 Chief. Scientist
 (Issued by)

----- End of Report -----



[Green Signature]
 02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

Report No. 66

Issue Date: 12.04.2024

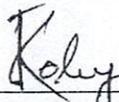
Sample Details	Channel (Surface water)	ARF No. : 105/2024	
Sample Received From	Central Lab	Sampling Date/Time	24.01.2024/ 08:32 Hrs
Address	Botanical Garden I	Sample Received on	24.01.2024
Test Material	Channel sample	Total no of sample	01
Sampling Location	Near Botanical Garden	Period of Analysis	24.01.2024 to 07.02.2024
Height	NA	Climatic condition	Sunny
Sample condition	Good	Remarks	Joint Sampling with CPCB
Method Of Sampling	APHA Standard Method 1060.23 rd Edition, 2017 (Grab)		
Width (m)	1.4	Depth (m)	0.25
		Flow (m/s)	2.5
		Discharge(MLD)	75.6

Parameters	Result	Unit	LOD	Method
Antimony	BDL	mg/l	----	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023

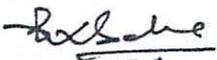
Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

- 1) For Sampling details pl. refer to A.R.F No. 105/2024 Dated: 24.01.2024
- 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.

Authorised Signatory:


 Jr. Scientist
 (Checked by)


 Scientist
 (Verified by)


 Chief. Scientist
 (Issued by)

----- End of Report -----



02 AUG 2024

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

MICROBIOLOGY TEST REPORT

Report No. 66

Issue date: 02.02.2024

Sample Details	Channel (Surface water)	ARF No. : 104/2024	
Sample Received From	Central Lab	Sampling Date/ Time	24.01.2024/ 08:32 Hrs.
Address	Botanical Garden I	Sample Received on	24.01.2024
Test Material	Channel sample	Total no of sample	01
Sampling Location	Near Botanical Garden	Period of Analysis	24.01.2024 to 30.01.2024
Height	NA	Climatic condition	Sunny
Sample condition	Good	Remarks	Joint Sampling with CPCB
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)		
Width (m)	1.4	Depth (m)	0.25
		Flow (m/s)	2.5
		Discharge(MLD)	75.6

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	49×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 24 th edition 2023
Fecal coliform (FC)	11×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods,9221E; 24 th 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: 104/2024 Dated 24.01.2024 2) Results are reported based on preserved materials.
 3) Sample will be destroyed after 15days 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 up to 30/03/2025

Authorised Signatory:

Satta
Env. Analyst
(Checked and Verified by)

Balchandra
Chief Scientist
(Issued by)

----- End of Report -----



02 AUG 2024

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

TEST REPORT

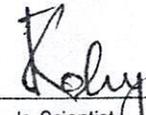
Report NO. 67

Issue Date: 12.04.2024

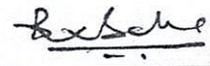
Sample Details		Channel (Surface water)		ARF No. : 106/2024			
Sample Received From		Central Lab		Sampling Date/Time		24.01.2024/ 08:55 Hrs	
Address		Botanical Garden II		Sample Received on		24.01.2024	
Test Material		Channel sample		Total no of sample		01	
Sampling Location		Near Botanical Garden		Period of Analysis		24.01.2024 to 07.02.2024	
Height		NA		Climatic condition		Sunny	
Sample condition		Good		Remarks		Joint Sampling with CPCB	
Method Of Sampling		APHA Standard Method 1060.23 rd Edition . 2017 (Grab)					
Width (m)	0.7	Depth (m)	0.02	Flow (m/s)	0.5	Discharge(MLD)	0.6048

Parameters	Result	Unit	LOD	Method
pH	7.01	Units	4 Units	APHA Standard Methods, 4500-H+ B, 24 TH edition, 2023
BOD(3days@27°C)	26.36	mg/L	0.20 mg/L	CL/WI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	76.44	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 24 TH edition, 2023, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.05	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination) 24 TH edition, 2023
Nitrate-N (NO ₃ -N)	0.89	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 24 TH edition, 2023
TSS	70.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 24 TH edition, 2023
TDS(@180°C)	586.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 24 TH edition, 2023
Chloride	159.95	mg/L	5.00 mg/L	APHA Standard Methods 2340 C; 24 TH edition, 2023
Sulfate (SO ₄)	81.96	mg/L	5.00 mg/L	APHA Standard Methods 4500-Cl-B, 24 TH edition, 2023
Total Alkalinity	310.00	mg/L	10.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 24 TH edition, 2023
Ammoniacal Nitrogen(NH ₄ -N)	10.70	mg/L	0.1 mg/L	APHA Standard Methods 2320 B, 24 TH edition, 2023

Authorised Signatory:


Jr. Scientist
(Checked by)


Scientist
(Verified by)


Chief. Scientist
(Issued by)

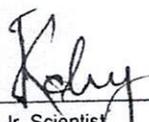
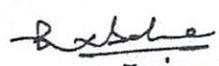


02 AUG 2024

parameters	Result	Unit	LOD	Method
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 24 TH edition, 2023
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Iron	0.21	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 24 TH edition, 2023
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Copper	BDL	mg/l	0.11 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Cobalt	BDL	mg/L	0.60 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Manganese	24.95	mg/L	0.28 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023

Valadium, Selenium: Facility is not available.

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done
 1) For Sampling details pl. refers to A R F No 106/2024 Dated 24.01.2024 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 up to 30/03/2025

Authorised Signatory:  Jr. Scientist (Checked by)  Scientist (Verified by)  Chief. Scientist (Issued by)

----- End of Report -----




 02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

Report No. 67

Issue Date: 12.04.2024

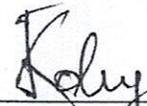
Sample Details	Channel (Surface water)	ARF No. : 106/2024					
Sample Received From	Central Lab	Sampling Date/Time	24.01.2024/ 08:55 Hrs				
Address	Botanical Garden II	Sample Received on	24.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Botanical Garden	Period of Analysis	24.01.2024 to 07.02.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060.23 rd Edition , 2017 (Grab)						
Width (m)	0.7	Depth (m)	0.02	Flow (m/s)	0.5	Discharge(MLD)	0.6048

Parameters	Result	Unit	LOD	Method
Antimony	BDL	mg/l	----	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 th edition, 2023

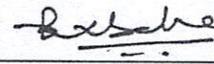
Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

- 1) For Sampling details pl. refer to A.R.F No. 106/2024 Dated: 24.01.2024
- 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.

Authorised Signatory:


 Jr. Scientist
 (Checked by)


 Scientist
 (Verified by)


 Chief. Scientist
 (Issued by)

----- End of Report -----




2 AUG 2024

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

MICROBIOLOGY TEST REPORT

Report No. 67

Issue date: 02.02.2024

Sample Details	Channel (Surface water)	ARF No. : 105/2024	
Sample Received From	Central Lab	Sampling Date/ Time	24.01.2024/ 08:32 Hrs.
Address	Botanical Garden II	Sample Received on	24.01.2024
Test Material	Channel sample	Total no of sample	01
Sampling Location	Near Botanical Garden	Period of Analysis	24.01.2024 to 30.01.2024
Height	NA	Climatic condition	Sunny
Sample condition	Good	Remarks	Joint Sampling with CPCB
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)		
Width (m)	0.7	Depth (m)	0.02
		Flow (m/s)	0.5
		Discharge(MLD)	0.6048

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	110×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods.9221B; 24 th edition 2023
Fecal coliform (FC)	49×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods.9221E; 24 th edition 2023

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

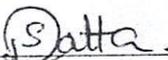
1) For Sampling details pl. refer to A.R.F No: 105/2024 Dated 24.01.2024 2) Results are reported based on preserved materials.

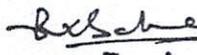
3) Sample will be destroyed after 15days from the date of issue of the certificate unless otherwise specified. Sample will be preserved according to Standard Method

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 up to 30/03/2025

Authorised Signatory:


 Env. Analyst
 (Checked and Verified by)


 Chief Scientist
 (Issued by)

----- End of Report -----




 02 AUG 2024



WEST BENGAL POLLUTION CONTROL BOARD



38261

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

TEST REPORT

Report NO. 75

Issue Date: 12.04.2024

Sample Details	Channel (Surface water)	ARF No. : 107/2024					
Sample Received From	Central Lab	Sampling Date/Time	24.01.2024/ 09: 25 Hrs				
Address	Nazergunj, khal	Sample Received on	24.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Beside Shalimar paints, Howrah	Period of Analysis	24.01.2024 to 07.02.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060, 24 th Edition, 2023 (Grab)						
Width (m)	24	Depth (m)	0.8	Flow (m/s)	0.41	Discharge(MLD)	17.6

Parameters	Result	Unit	LOD	Method
pH	6.94	Units	4 Units	APHA Standard Methods, 4500-H+ B, 24 th edition, 2023
BOD(3days@27°C)	17.60	mg/L	0.20 mg/L	CL/WI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	61.74	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 24 th edition, 2023, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.04	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination) 24 th edition, 2023
Nitrate-N (NO ₃ -N)	0.94	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 24 th edition, 2023
TSS	260.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 24 th edition, 2023
TDS(@180°C)	904.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 24 th edition, 2023
Chloride	219.93	mg/L	5.00 mg/L	APHA Standard Methods 4500-Cl-B, 24 th edition, 2023
Sulfate (SO ₄)	55.03	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 24 th edition, 2023
Total Alkalinity	320.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 24 th edition, 2023
Ammoniacal Nitrogen(NH ₄ -N)	14.15	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 24 th edition, 2023,

Authorised Signatory:

Jr. Scientist
(Checked by)

Scientist
(Verified by)

Chief. Scientist
(Issued by)



02 AUG 2024

parameters	Result	Unit	LOD	Method
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 24 TH edition, 2023
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Iron	1.60	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 24 TH edition, 2023
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Zinc	0.08	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Copper	BDL	mg/l	0.11 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Cobalt	BDL	mg/L	0.60 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Manganese	11.71	mg/L	0.28 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023

Valadium, Selenium: Facility is not available.

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done
 1) For Sampling details pl. refers to A.R.F No 107/2024 Dated 24.01.2024 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
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 The Parameter are under the scope of NABL accreditation ISO/IEC 17025:2017 Certificate No. TC-6291 valid up to 30/03/2025

Authorised Signatory:

Kohy
 Jr. Scientist
 (Checked by)

AB
 Scientist
 (Verified by)

Balsche
 Chief. Scientist
 (Issued by)

----- End of Report -----



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 02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

Report No. 75

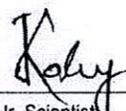
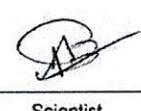
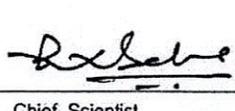
Issue Date: 12.04.2024

Sample Details	Channel (Surface water)	ARF No. : 107/2024					
Sample Received From	Central Lab	Sampling Date/Time	24.01.2024/ 09:25 Hrs				
Address	Nazergunj, khal	Sample Received on	24.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Beside Shalimar paints, Howrah	Period of Analysis	24.01.2024 to 07.02.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060.24th Edition , 2023 (Grab)						
Width (m)	24	Depth (m)	0.8	Flow (m/s)	0.41	Discharge(MLD)	17.6

Parameters	Result	Unit	LOD	Method
Antimony	BDL	mg/l	----	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH 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. 107/2024 Dated: 24.01.2024 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.

Authorized Signatory: _____

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

----- End of Report -----



TR

02 AUG 2024

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

MICROBIOLOGY TEST REPORT

Report No. 75

Issue date: 02.02.2024

Sample Details	Channel (Surface water)	ARF No. : 106/2024					
Sample Received From	Central Lab	Sampling Date/ Time	24.01.2024/ 09:25Hrs.				
Address	Nazergunj, khal	Sample Received on	24.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Beside Shalimar paints, Howrah	Period of Analysis	24.01.2024 to 30.01.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)						
Width (m)	24	Depth (m)	0.8	Flow (m/s)	0.41	Discharge(MLD)	17.6

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	33×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods.9221F; 24 th edition 2023
Fecal coliform (FC)	13×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods.9221E; 24 th edition 2023

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

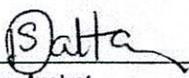
1) For Sampling details pl. refer to A.R.F No: 106/2024 Dated 24.01.2024 2) Results are reported based on preserved materials.

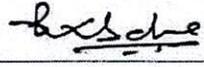
3) Sample will be destroyed after 15days from the date of issue of the certificate unless otherwise specified. Sample will be preserved according to Standard Method

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The Parameter are under the scope of NABL accreditation ISO/IEC 17025:2017 Certificate No. TC-6291 valid up to 30/03/2025

Authorised Signatory:


 Env. Analyst
 (Checked and Verified by)


 Chief Scientist
 (Issued by)

----- End of Report -----



02 AUG 2024

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38265



WEST BENGAL POLLUTION CONTROL BOARD



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

CHEMICAL TEST REPORT

Report NO. 46

Issue Date: 04.03.2024

Sample Details	Channel (Surface water)	ARF No. :67/2023
Sample Received From	Central Lab	Sampling Date/ Time 05.10.2023/ 12:45 hrs.
Address	N.C. Paul, Sankrail	Sample Received on 05.10.2023
Test Material	Channel sample	Total no of sample 01
Sampling Location	Brick Factory, Burning Ghat Shantidham	Period of Analysis 05.10.2023 to 13.10.2023
Height	NA	Climatic condition Sunny
Sample condition	Good	Remarks ----
Method Of Sampling	APHA Standard Method 1060, 23 rd Edition, 2017 (Grab)	
Width(m)	13	Depth(m) 1.35
		Flow(m/s) 0.28
		Discharge(MLD) 424.57

Parameters	Result	Unit	LOD	Method
pH	7.22	Units	4 Units	APHA Standard Methods, 4500-H+ B, 23rd edition, 2017
Turbidity	56.90	NTU	0.50 NTU	APHA Standard Methods 2130 B; 23rd edition, 2017
EC	865.60	µS/cm	1.00	APHA Standard Methods, 2510 B; 23rd edition, 2017
DO	NIL	mg/L	0.2 mg/L	APHA Standard Methods 4500 O C; 23rd edition, 2017
BOD(3days@27°C)	12.36	mg/L	0.20 mg/L	CL/W/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	48.96	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 23rd edition, 2017, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.10	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination); 23rd edition, 2017
Nitrate-N (NO ₃ -N)	1.46	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO ₃ -B; 23rd edition (2017).
TSS	168.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 23rd edition, 2017
TDS(@180°C)	820.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 23rd edition, 2017
Total Hardness	200.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition, 2017
Chloride	94.97	mg/L	5.00 mg/L	APHA Standard Methods 4500-Cl-B, 23rd edition, 2017
Sulfate (SO ₄)	18.48	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO ₄ 2-E; 23rd edition, 2017
Total Alkalinity	220.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 23rd edition, 2017
Fluoride	0.46	mg/L	0.1 mg/L	APHA Standard Methods 4500- F- C; 23rd edition, 2017
Ammoniacal Nitrogen(NH ₄ -N)	5.88	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH ₃ D, 23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA Standard Methods 4500-B, C, 23rd edition, 2017
Sodium(Na ⁺)	85.00	mg/L	2.30 mg/L	APHA Standard Methods 3500-Na B; 23rd edition, 2017
Potassium	13.90	mg/L	2.20 mg/L	APHA Standard Methods 3500-K B; 23rd edition, 2017

Authorised Signatory:

Kaly
Jr. Scientist

[Signature]
Scientist

[Signature]
Chief Scientist



02 AUG 2024

parameters	Result	Unit	LOD	Method
Calcium	48.00	mg/L	10.00 mg/L	APHA Standard Methods 3500-Ca B; 23rd edition, 2017
Magnesium	19.44	mg/L	10.00 mg/L	APHA Standard Methods 3500-Mg B; 23rd edition, 2017
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23rd Edition (2017):2017
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Iron	3.00	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23rd Edition (2017):2017
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Alpha-BHC	BDL	ppb	10 µg/L	<ul style="list-style-type: none"> • APHA Standard Methods 6630 B, 23rd edition, 2017 • USEPA Method 3510 C (Liquid-liquid extraction) • USEPA Method 3540 C (Soxhlet extraction) • USEPA Method 3620 B (Clean up) • USEPA Method 8081 A (Organo Chlorine Analysis)
Gamma-BHC	BDL	ppb	10 µg/L	
o,p-DDT	BDL	ppb	16 µg/L	
p,p-DDT	BDL	ppb	16 µg/L	
Endosulphan I	BDL	ppb	15 µg/L	
Endosulphan II	BDL	ppb	10 µg/L	
Aldrin	BDL	ppb	10 µg/L	
Dieldrin	BDL	ppb	15 µg/L	

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: 67/2023 Dated: 05.10.2023 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 up to 30/03/2025

Authorised Signatory:

Jr. Scientist
(Checked by)

Scientist
(Verified by)

Chief. Scientist
(Issued by)



02 AUG 2024



WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

Report No. 46

Issue Date: 04.03.2024

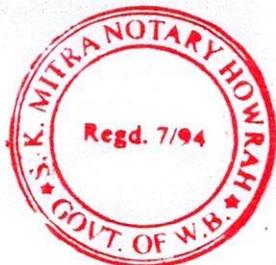
Table with sample details including Channel (Surface water), Central Lab, N.C.Paul Khal, Sankrail, Channel sample, Brick Factory, Burning Ghat, Shantidham, NA, Good, APHA Standard Method 1060,23rd Edition, 2017 (Grab), and flow/discharge data.

Table with parameters: Total Fixed Solids (TFS), Result: 980.00, Unit: mg/l, LOD: ---, Method: APHA Standard Methods 2540 E, 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. 67/2023 Dated: 05.10.2023
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.

Authorized Signatory: [Signatures of Jr. Scientist, Scientist, and Chief Scientist]

End of Report



02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD


Central Laboratory

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

MICROBIOLOGY TEST REPORT

Report No. 46

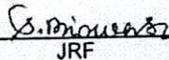
Issue date: 09.01.2024

Sample Details	Channel (surface Water)	ARF No.: 67/2023	
Sample Received From	Central Laboratory	Sampling Date /Time	05.10.2023/ 12:45 hrs.
Address	N.C Paul, Sankrail	Sample Received on	05.10.2023
Test Material	Channel Sample	Total no of sample	01
Sampling Location	Brick Factory, Burning Ghat, Shantidham	Period of Analysis	05.10.2023 to 09.10.2023
Height	NA	Climatic condition	Sunny
Sample condition	Good	Remarks	-----
Method Of Sampling	APHA Standard Method 1060, 24 th edition, 2023 (Grab)		
Width(m)	13	Depth(m)	1.35
		Flow(m/s)	0.28
		Discharge(MLD)	424.57

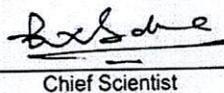
Parameters	Result	Unit	LOD	Method
Total coliform (TC)	94x10 ³	MPN/100 ml	<1.8-1600	APHA Standard Methods, 9221B; 23RD edition 2017
Fecal coliform (FC)	46x10 ³	MPN/100 ml	<1.8-1600	APHA Standard Methods, 9221E; 23RD edition 2017
Fecal Streptococci (FS)	11x10 ²	MPN/100 ml	<1.8-1600	APHA Standard Methods, 9230B; 23RD edition 2017

Note: - LOD: Limit of Detection, NA: Not Applicable.

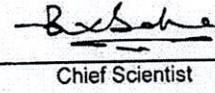
- 1) For Sampling details pl. refer to A.R.F No. 67/2023 Dated: 05.10.2023 2) Results are reported based on preserved materials.
 - 3) Sample will be destroyed after 2 months from the date of issue of the certificate unless otherwise specified. Sample will be preserved according to Standard Method
 - 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


 JRF

(Analyzed by)


 Chief Scientist

(Checked and Verified by)


 Chief Scientist

(Issued by)

End of Report



02 AUG 2024



WEST BENGAL POLLUTION CONTROL BOARD



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

CHEMICAL TEST REPORT

Report NO.50

Issue Date: 11.03.2024

Sample Details	Channel (Surface water)	ARF No. : 73/2023
Sample Received From	Central Lab	Sampling Date/ Time 21.11.2023/14:20 hrs
Address	Saraswati Khal	Sample Received on 21.11.2023
Test Material	Channel sample	Total no of sample 01
Sampling Location	Near Netaji Subhas Sporting Club	Period of Analysis 21.11.2023 to 07.12.2023
Height	NA	Climatic condition Suuny
Sample condition	Good	Remarks ----
Method Of Sampling	APHA Standard Method 1060,23 rd Edition , 2017 (Grab)	
Width (m)	3.5	Depth (m) 0.2
		Flow (m/s) 0.13
		Discharge(MLD) 7.86

Parameters	Result	Unit	LOD	Method
pH	7.55	Units	4 Units	APHA Standard Methods, 4500-H+ B, 23rd edition, 2017
Turbidity	20.10	NTU	0.50 NTU	APHA Standard Methods 2130 B; 23rd edition, 2017
EC	2018.80	µS/cm	1.00	APHA Standard Methods, 2510 B; 23rd edition, 2017
DO	NIL	mg/L	0.2 mg/L	APHA Standard Methods 4500 O C; 23rd edition, 2017
BOD(3days@27°C)	34.10	mg/L	0.20 mg/L	CLM/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	68.82	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 23rd edition, 2017, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.05	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination); 23rd edition, 2017
Nitrate-N (NO ₃ -N)	2.39	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 23rd edition (2017).
TSS	130.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 23rd edition, 2017
TDS(@180°C)	1172.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 23rd edition, 2017
Total Hardness	470.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition, 2017
Chloride	384.88	mg/L	5.00 mg/L	APHA Standard Methods 4500-Cl-B, 23rd edition, 2017
Sulfate (SO ₄)	54.27	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 23rd edition, 2017
Total Alkalinity	510.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 23rd edition, 2017
Fluoride	0.42	mg/L	0.1 mg/L	APHA Standard Methods 4500- F- C; 23rd edition, 2017
Ammoniacal Nitrogen(NH ₄ -N)	13.00	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA Standard Methods 4500-B, C, 23rd edition, 2017
Sodium(Na ⁺)	250.00	mg/L	2.30 mg/L	APHA Standard Methods 3500-Na B; 23rd edition, 2017
Potassium	16.00	mg/L	2.20 mg/L	APHA Standard Methods 3500-K B; 23rd edition, 2017

Authorised Signatory:

Jr. Scientist
(Checked by)

Scientist
(Verified by)

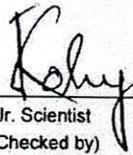
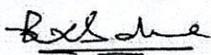
Chief. Scientist
(Issued by)



02 AUG 2024

parameters	Result	Unit	LOD	Method
Calcium	116.00	mg/L	10.00 mg/L	APHA Standard Methods 3500-Ca B; 23rd edition, 2017
Magnesium	43.74	mg/L	10.00 mg/L	APHA Standard Methods 3500-Mg B; 23rd edition, 2017
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23rd Edition (2017):2017
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Iron	1.41	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23rd Edition (2017):2017
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Zinc	0.20	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Alpha-BHC	BDL	ppb	10 µg/L	<ul style="list-style-type: none"> • APHA Standard Methods 6630 B, 23rd edition, 2017 • USEPA Method 3510 C (Liquid-liquid extraction) • USEPA Method 3540 C (Soxlet extraction) • USEPA Method 3620 B (Clean up) • USEPA Method 8081 A (Organo Chlorine Analysis)
Gamma-BHC	BDL	ppb	10 µg/L	
o,p-DDT	BDL	ppb	16 µg/L	
p,p-DDT	NT	ppb	16 µg/L	
Endosulphan I	BDL	ppb	15 µg/L	
Endosulphan II	BDL	ppb	10 µg/L	
Aldrin	NT	ppb	10 µg/L	
Dieldrin	BDL	ppb	15 µg/L	

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:73 /2023 Dated: 21.11.2023 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 up to 30/03/2025

Authorized Signatory:   
 Jr. Scientist (Checked by) Scientist (Verified by) Chief Scientist (Issued by)



02 AUG 2024

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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

CHEMICAL TEST REPORT

Report No. 50

Issue Date: 11.03.2024

Table with sample details including Sample Details, Sample Received From, Address, Test Material, Sampling Location, Height, Sample condition, Method Of Sampling, and physical parameters like Width, Depth, Flow, and Discharge.

Table with 5 columns: Parameters, Result, Unit, LOD, Method. Row for Total Fixed Solids (TFS) with result 900.00 mg/l.

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. 73/2023 Dated: 21.11.2023
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.
4) The Test Report shall not be reproduced except in full, without the written permission of the Laboratory.

Authorised Signatory:

Handwritten signature of Jr. Scientist

Jr. Scientist
Checked by)

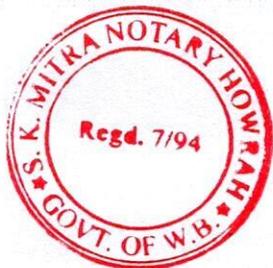
Handwritten signature of Scientist

Scientist
(Verified by)

Handwritten signature of Chief Scientist

Chief Scientist
(Issued by)

End of Report



Handwritten date stamp: 02 AUG 2024

38272



WEST BENGAL POLLUTION CONTROL BOARD



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

MICROBIOLOGY TEST REPORT

Report No. 50

Issue date: 09.01.2024

Sample Details	Channel (Surface water)	ARF No. : 73/2023					
Sample Received From	Central Lab ,	Sampling Date/ Time	21.11.2023/14:20 hrs				
Address	Saraswati khal	Sample Received on	21.11.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Subhas Chandra bose sporting club, Champetala	Period of Analysis	21.11.2023 to 25.11.2023				
Height	NA	Climatic condition	Suuny				
Sample condition	Good	Remarks	----				
Method Of Sampling	APHA Standard Method 1060, 23rd Edition , 2017 (Grab)						
Width (m)	3.5	Depth (m)	0.2	Flow (m/s)	0.13	Discharge(MLD)	7.86

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	130×10^4	MPN/100 ml	<1.8	APHA Standard Methods, 9221B; 23RD edition 2017
Fecal coliform (FC)	70×10^4	MPN/100 ml	<1.8	APHA Standard Methods, 9221E; 23RD edition 2017
Fecal Streptococci (FS)	33×10^2	MPN/100 ml	<1.8	APHA Standard Methods, 9230B; 23RD edition 2017

Note: - LOD: Limit of Detection, NA: Not Applicable.

- 1) For Sampling details pl. refer to A.R.F No: 73/2023 Dated: 21.11.2023
 - 2) Results are reported based on preserved materials.
 - 3) Sample will be destroyed after 15 days 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 up to 30/03/2025

S. Miousa
JRF

(Analyzed by)

B. Chelva

Chief Scientist

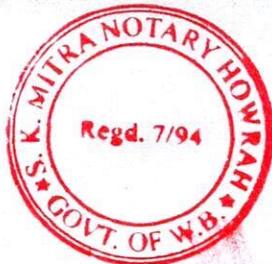
(Checked and Verified by)

B. Chelva

Chief Scientist

(Issued by)

----- End of Report -----



2 AUG 2024



WEST BENGAL POLLUTION CONTROL BOARD



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

TEST REPORT

Report NO. 74

Issue Date: 12.04.2024

Sample Details	Channel (Surface water)	ARF No. : 103/2024					
Sample Received From	Central Lab ,	Sampling Date/Time	24.01.2024/ 09: 15 Hrs				
Address	Singhi More Khal	Sample Received on	24.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near kapatti pool,Sankrail south	Period of Analysis	24.01.2024 to 07.02.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060, 24 th Edition , 2024 (Grab)						
Width (m)	1.92	Depth (m)	0.65	Flow (m/s)	No flow	Discharge(MLD)	No flow

Parameters	Result	Unit	LOD	Method
pH	7.20	Units	4 Units	APHA Standard Methods, 4500-H+ B, 24 th edition, 2023
BOD(3days@27°C)	9.29	mg/L	0.20 mg/L	CL/WI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	24.50	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 24 th edition, 2023, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.08	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination) 24 th edition, 2023
Nitrate-N (NO ₃ -N)	0.98	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 24 th edition, 2023
TSS	102.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 24 th edition, 2023
TDS(@180°C)	354.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 24 th edition, 2023
Total Hardness	240.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 24 th edition, 2023
Chloride	64.98	mg/L	5.00 mg/L	APHA Standard Methods 4500-CI-B, 24 th edition, 2023
Sulfate (SO ₄)	33.23	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 24 th edition, 2023
Total Alkalinity	270.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 24 th edition, 2023
Ammoniacal Nitrogen(NH ₄ -N)	3.27	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 24 th edition, 2023,

Authorised Signatory:

Jr. Scientist
(Checked by)

Scientist
(Verified by)

Chief. Scientist
(Issued by)



02 AUG 2024

parameters	Result	Unit	LOD	Method
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 24 TH edition, 2023
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Iron	1.01	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 24 TH edition, 2023
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Zinc	0.08	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Copper	BDL	mg/l	0.11 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Cobalt	BDL	mg/L	0.60 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Manganese	0.32	mg/L	0.28 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023

Valadium, Selenium: Facility is not available.

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

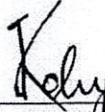
1) For Sampling details pl. refers to A.R.F No 103/2024 Dated 24.01.2024 2) Results are reported based on preserved materials.

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

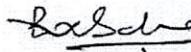
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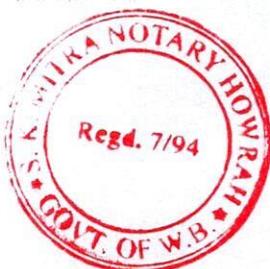
Authorised Signatory:


Jr. Scientist
(Checked by)


Scientist
(Verified by)


Chief. Scientist
(Issued by)

----- End of Report -----



02 AUG 2024

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- 88 - 38275

WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

Report No. 74

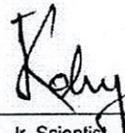
Issue Date: 12.04.2024

Sample Details		Channel (Surface water)		ARF No. : 103/2024			
Sample Received From		Central Lab ,		Sampling Date/Time		24.01.2024/ 09:15 Hrs	
Address		Singhi More Khal		Sample Received on		24.01.2024	
Test Material		Channel sample		Total no of sample		01	
Sampling Location		Near kapatti pool,Sankrail south		Period of Analysis		24.01.2024 to 07.02.2024	
Height		NA		Climatic condition		Sunny	
Sample condition		Good		Remarks		Joint Sampling with CPCB	
Method Of Sampling		APHA Standard Method 1060,23 rd Edition , 2017 (Grab)					
Width (m)	1.92	Depth (m)	0.65	Flow (m/s)	No flow	Discharge(MLD)	No flow

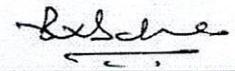
Parameters	Result	Unit	LOD	Method
Antimony	BDL	mg/l	---	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 th edition, 2023

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. 103/2024 Dated: 24.01.2024 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.

Authorised Signatory:


 Jr. Scientist
 (Checked by)


 Scientist
 (Verified by)


 Chief. Scientist
 (Issued by)



02 AUG 2024

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- 89 -

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

MICROBIOLOGY TEST REPORT

Report No. 74

Issue date: 02.02.2024

Sample Details	Channel (Surface water)	ARF No. : 102/2024					
Sample Received From	Central Lab ,	Sampling Date/ Time	24.01.2024/ 09:15Hrs.				
Address	Singhi More Khal	Sample Received on	24.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near kapatti pool, Sankrail south	Period of Analysis	24.01.2024 to 30.01.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060, 24 TH Edition , 2024 (Grab)						
Width (m)	1.92	Depth (m)	0.65	Flow (m/s)	No flow	Discharge(MLD)	No flow

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	110×10 ⁴	MPN/100 ml	<1.8	APHA Standard Methods, 9221B; 24 th edition 2023
Fecal coliform (FC)	49×10 ⁴	MPN/100 ml	<1.8	APHA Standard Methods, 9221E; 24 th edition 2023

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

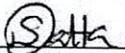
1) For Sampling details pl. refer to A.R.F No: 102/2024 Dated 24.01.2024 2) Results are reported based on preserved materials.

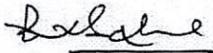
3) Sample will be destroyed after 15 days from the date of issue of the certificate unless otherwise specified. Sample will be preserved according to Standard Method

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 up to 30/03/2025

Authorised Signatory:


 Env. Analyst
 (Checked and Verified by)


 Chief Scientist
 (Issued by)

----- End of Report -----



02 AUG 2024

CHEMICAL TEST REPORT

Report NO. 48

Issue Date: 04.03.2024

Sample Details	Channel (Surface water)	ARF No. : 75/2023
Sample Received From	Central Lab	Sampling Date/ Time 21.11.2023/ 15:20 hrs.
Address	Bazarpara Garighat drain	Sample Received on 21.11.2023
Test Material	Channel sample	Total no of sample 01
Sampling Location	Near Sarenga Lock gate	Period of Analysis 21.11.2023 to 01.12.2023
Height	NA	Climatic condition Sunny
Sample condition	Good	Remarks -----
Method Of Sampling	APHA Standard Method 1060, 23 rd Edition, 2017 (Grab)	
Width(m)	8.6	Depth(m) 0.7
		Flow(m/s) 0.62
		Discharge(MLD) 322.48

Parameters	Result	Unit	LOD	Method
pH	6.59	Units	4 Units	APHA Standard Methods, 4500-H+ B, 23rd edition, 2017
Turbidity	128.00	NTU	0.50 NTU	APHA Standard Methods 2130 B; 23rd edition, 2017
EC	3622.00	µS/cm	1.00	APHA Standard Methods, 2510 B; 23rd edition, 2017
DO	NIL	mg/L	0.2 mg/L	APHA Standard Methods 4500 O C; 23rd edition, 2017
BOD(3days@27°C)	25.92	mg/L	0.20 mg/L	CL/W/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	57.68	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 23rd edition, 2017, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.04	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination); 23rd edition, 2017
Nitrate-N (NO ₃ -N)	2.29	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 23rd edition (2017).
TSS	120.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 23rd edition, 2017
TDS(@180°C)	2630.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 23rd edition, 2017
Total Hardness	440.00	mg/l	10.00 mg/l	APHA Standard Methods 2340 C; 23rd edition, 2017
Chloride	1199.63	mg/L	5.00 mg/L	APHA Standard Methods 4500-CI-B, 23rd edition, 2017
Sulfate (SO ₄)	78.67	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 23rd edition, 2017
Total Alkalinity	300.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 23rd edition, 2017
Fluoride	0.73	mg/L	0.1 mg/L	APHA Standard Methods 4500- F- C; 23rd edition, 2017
Ammoniacal Nitrogen(NH ₄ -N)	8.34	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 23rd edition, 2017
Boron	BDL	mg/L	0.10 mg/L	APHA Standard Methods 4500-B, C, 23rd edition, 2017
Sodium(Na ⁺)	340.00	mg/L	2.30 mg/L	APHA Standard Methods 3500-Na B; 23rd edition, 2017
Potassium	21.50	mg/L	2.20 mg/L	APHA Standard Methods 3500-K B; 23rd edition, 2017

Authorised Signatory:

Kaly
Jr. Scientist
(Checked by)

AB
Scientist
(Verified by)

Bochane
Chief. Scientist
(Issued by)



02 AUG 2024

parameters	Result	Unit	LOD	Method
Calcium	120.00	mg/L	10.00 mg/L	APHA Standard Methods 3500-Ca B; 23rd edition, 2017
Magnesium	34.02	mg/L	10.00 mg/L	APHA Standard Methods 3500-Mg B; 23rd edition, 2017
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23rd Edition (2017):2017
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Iron	3.03	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23rd Edition (2017):2017
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Zinc	0.34	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23rd Edition (2017):2017
Alpha-BHC	BDL	ppb	10 µg/L	<ul style="list-style-type: none"> • APHA Standard Methods 6630 B, 23rd edition, 2017 • USEPA Method 3510 C (Liquid-liquid extraction) • USEPA Method 3540 C (Soxlet extraction) • USEPA Method 3620 B (Clean up) • USEPA Method 8081 A (Organo Chlorine Analysis)
Gamma-BHC	BDL	ppb	10 µg/L	
o,p-DDT	BDL	ppb	16 µg/L	
p,p-DDT	BDL	ppb	16 µg/L	
Endosulphan I	BDL	ppb	15 µg/L	
Endosulphan II	BDL	ppb	10 µg/L	
Aldrin	BDL	ppb	10 µg/L	
Dieldrin	BDL	ppb	15 µg/L	

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

1) For Sampling details pl. refers to A.R.F No: 75/2023 Dated: 21.11.2023 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 up to 30/03/2025

Authorised Signatory:

Kohly
Jr. Scientist
(Checked by)

AB
Scientist
(Verified by)

Beche
Chief. Scientist
(Issued by)



2 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

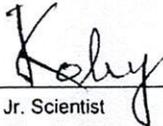
Report No. 48

Issue Date: 04.03.2024

Sample Details	Channel (Surface water)	ARF No. : 75/2023					
Sample Received From	Central Lab ,	Sampling Date/Time	21.11.2023/ 15:20 hrs.				
Address	Bazarpara Garighat drain	Sample Received on	21.11.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Sarenga Lock gate	Period of Analysis	21.11.2023 to 01.12.2023				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	-----				
Method Of Sampling	APHA Standard Method 1060,23 rd Edition , 2017 (Grab)						
Width(m)	8.6	Depth(m)	0.7	Flow(m/s)	0.62	Discharge(MLD)	322.48

Parameters	Result	Unit	LOD	Method
Total Fixed Solids (TFS)	2036.00	mg/l	----	APHA Standard Methods 2540 E, 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. 75/2023 Dated: 21.11.2023 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.

Authorized Signatory:  Jr. Scientist (Checked by)  Scientist (Verified by)  Chief. Scientist (Issued by)

----- End of Report -----




02 AUG 2024

Central Laboratory

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

MICROBIOLOGY TEST REPORT

Report No. 48

Issue date: 09.01.2024

Sample Details	Channel (surface Water)	ARF No.: 75/2023				
Sample Received From	Central Laboratory	Sampling Date /Time	21.11.2023/ 15:20 hrs.			
Address	Bazarpara Garighat Drain	Sample Received on	21.11.2023			
Test Material	Channel Sample	Total no of sample	01			
Sampling Location	Near Sarenga Lock gate	Period of Analysis	21.11.2023 to 25.11.2023			
Height	NA	Climatic condition	Sunny			
Sample condition	Good	Remarks	-----			
Method Of Sampling	APHA Standard Method 1060, 24 th edition, 2023 (Grab)					
Width(m)	8.6	Depth(m)	0.7	Flow(m/s)	0.62	Discharge(MLD) 322.48

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	39x10 ⁴	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 23RD edition 2017
Fecal coliform (FC)	21x10 ⁴	MPN/100 ml	<1.8	APHA Standard Methods,9221E; 23RD edition 2017
Fecal Streptococci (FS)	12x10 ²	MPN/100 ml	<1.8	APHA Standard Methods,9230B; 23RD edition 2017

Note: - LOD: Limit of Detection. NA: Not Applicable.

- 1) For Sampling details pl. refer to A.R.F No.75/2023 Dated: 21.11.2023
 - 2) Results are reported based on preserved materials.
 - 3) Sample will be destroyed after 15days 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

S. Mousumi
JRF

(Analyzed by)

B. S. Chakrabarti

Chief Scientist

(Checked and Verified by)

B. S. Chakrabarti

Chief Scientist

(Issued by)



02 AUG 2024



WEST BENGAL POLLUTION CONTROL BOARD



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

TEST REPORT

Report NO. 70

Issue Date: 12.04.2024

Sample Details	Channel (Surface water)	ARF No. : 111/2024					
Sample Received From	Central Lab	Sampling Date/Time	25.01.2024/ 17.00 Hrs				
Address	Rangamati Drain	Sample Received on	25.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Rangamati More	Period of Analysis	25.01.2024 to 08.02.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060, 23 rd Edition, 2017 (Grab)						
Width (m)	2.0	Depth (m)	0.15	Flow (m/s)	1.11	Discharge(MLD)	28.77

Parameters	Result	Unit	LOD	Method
pH	7.44	Units	4 Units	APHA Standard Methods, 4500-H+ B, 24 TH edition, 2023
BOD(3days@27°C)	3.67	mg/L	0.20 mg/L	CL/WI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	10.78	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 24 TH edition, 2023, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.05	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination) 24 TH edition, 2023
Nitrate-N (NO ₃ -N)	0.67	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 24 TH edition, 2023
TSS	38.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 24 TH edition, 2023
TDS(@180°C)	306.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 24 TH edition, 2023
Chloride	24.99	mg/L	5.00 mg/L	APHA Standard Methods 4500-Cl-B, 24 TH edition, 2023
Sulfate (SO ₄)	36.25	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 24 TH edition, 2023
Total Alkalinity	190.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 24 TH edition, 2023
Ammoniacal Nitrogen(NH ₄ -N)	BDL	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 24 TH edition, 2023,

Authorised Signatory:

Jr. Scientist
(Checked by)

Scientist
(Verified by)

Chief. Scientist
(Issued by)



02 AUG 2024

parameters	Result	Unit	LOD	Method
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Iron	0.54	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 24 TH edition, 2023
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Copper	BDL	mg/l	0.11 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Cobalt	BDL	mg/L	0.60 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Manganese	BDL	mg/L	0.28 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023

Valadium, Selenium: Facility is not available.

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

- 1) For Sampling details pl. refers to A.R.F No 111/2024 Dated 25.01.2024
 - 2) Results are reported based on preserved materials.
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Kohly

 Jr. Scientist
 (Checked by)

AB

 Scientist
 (Verified by)

Basheer

 Chief. Scientist
 (Issued by)

Authorised Signatory:

----- End of Report -----



02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

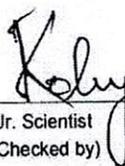
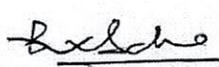
Report No. 70

Issue Date: 12.04.2024

Sample Details	Channel (Surface water)	ARF No. : 111/2024					
Sample Received From	Central Lab	Sampling Date/Time	25.01.2024/ 17:00 Hrs				
Address	Rangamati Drain	Sample Received on	25.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Rangamati More	Period of Analysis	25.01.2024 to 08.02.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060,23 rd Edition , 2017 (Grab)						
Width (m)	2.0	Depth (m)	0.15	Flow (m/s)	1.11	Discharge(MLD)	28.77

Parameters	Result	Unit	LOD	Method
Antimony	BDL	mg/l	---	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 th 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. 111/2024 Dated: 25.01.2024 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.

Authorized Signatory:   
 Jr. Scientist (Checked by) Scientist (Verified by) Chief Scientist (Issued by)



End of Report

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02 AUG 2024

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

MICROBIOLOGY TEST REPORT

Report No. 70

Issue date: 02.02.2024

Sample Details	Channel (Surface water)	ARF No. : 110/2024
Sample Received From	Central Lab	Sampling Date/ Time 25.01.2024/ 17:00 Hrs
Address	Madaihat Drain	Sample Received on 25.01.2024
Test Material	Channel sample	Total no of sample 01
Sampling Location	Near Sankhabhanga	Period of Analysis 25.01.2024 to 30.01.2024
Height	NA	Climatic condition Sunny
Sample condition	Good	Remarks Joint Sampling with CPCB
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)	
Width (m)	2.0	Depth (m) 0.15
		Flow (m/s) 1.11
		Discharge(MLD) 28.77

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	110×10 ⁴	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 24 th edition 2023
Fecal coliform (FC)	47×10 ⁴	MPN/100 ml	<1.8	APHA Standard Methods,9221E; 24 th edition 2023

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

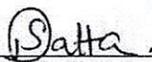
1) For Sampling details pl. refer to A.R.F No: 110/2024 Dated 25.01.2024 2) Results are reported based on preserved materials.

3) Sample will be destroyed after 15days 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.

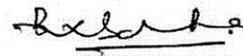
The Parameter are under the scope of NABL accreditation ISO/IEC 17025:2017 Certificate No. TC-6291 valid up to 30/03/2025

Authorised Signatory:



Env. Analyst

(Checked and Verified by)



Chief Scientist

(Issued by)

----- End of Report -----




 2 AUG 2024

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

TEST REPORT

Report NO. 69

Issue Date: 12.04.2024

Sample Details	Channel (Surface water)	ARF No. : 110/2024			
Sample Received From	Central Lab	Sampling Date/Time	25.01.2024/ 16.00 Hrs		
Address	Madaihat Drain	Sample Received on	25.01.2024		
Test Material	Channel sample	Total no of sample	01		
Sampling Location	Near Sankhabhanga	Period of Analysis	25.01.2024 to 08.02.2024		
Height	NA	Climatic condition	Sunny		
Sample condition	Good	Remarks	Joint Sampling with CPCB		
Method Of Sampling	APHA Standard Method 1060.23 rd Edition . 2017 (Grab)				
Width (m)	2.5	Depth (m)	0.5	Flow (m/s)	0.30
				Discharge(MLD)	32.40

Parameters	Result	Unit	LOD	Method
pH	7.26	Units	4 Units	APHA Standard Methods, 4500-H+ B, 24 TH edition, 2023
BOD(3days@27°C)	14.38	mg/L	0.20 mg/L	CL/WI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	40.18	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 24 TH edition, 2023, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.11	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination) 24 TH edition, 2023
Nitrate-N (NO ₃ -N)	0.58	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 24 TH edition, 2023
TSS	42.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 24 TH edition, 2023
TDS(@180°C)	338.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 24 TH edition, 2023
Chloride	28.99	mg/L	5.00 mg/L	APHA Standard Methods 4500-Cl-B, 24 TH edition, 2023
Sulfate (SO ₄)	34.66	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 24 TH edition, 2023
Total Alkalinity	200.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 24 TH edition, 2023
Ammoniacal Nitrogen(NH ₄ -N)	BDL	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 24 TH edition, 2023,

Authorised Signatory:

Kaly
Jr. Scientist
(Checked by)

SB
Scientist
(Verified by)

Belera
Chief. Scientist
(Issued by)



02 AUG 2024

parameters	Result	Unit	LOD	Method
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 24 TH edition, 2023
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Iron	0.67	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 24 TH edition, 2023
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Copper	BDL	mg/l	0.11 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Cobalt	BDL	mg/L	0.60 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Manganese	BDL	mg/L	0.28 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023

Valadium, Selenium: Facility is not available.

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

- 1) For Sampling details pl. refers to A.R.F No 110/2024 Dated 25.01.2024
 - 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 up to 30/03/2025

Authorised Signatory:

Koluy
 Jr. Scientist
 (Checked by)

AB
 Scientist
 (Verified by)

Besha
 Chief. Scientist
 (Issued by)

----- End of Report -----



62
 02 AUG 2024

- 73 -

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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

CHEMICAL TEST REPORT

Report No. 69

Issue Date: 12.04.2024

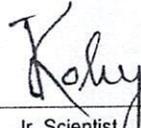
Sample Details	Channel (Surface water)	ARF No. : 110/2024					
Sample Received From	Central Lab	Sampling Date/Time	25.01.2024/ 16:00 Hrs				
Address	Madaihat Drain	Sample Received on	25.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Sankhabhanga	Period of Analysis	25.01.2024 to 08.02.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060,23 rd Edition , 2017 (Grab)						
Width (m)	2.5	Depth (m)	0.5	Flow (m/s)	0.30	Discharge(MLD)	32.40

Parameters	Result	Unit	LOD	Method
Antimony	BDL	mg/l	----	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 th 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. 110/2024 Dated: 25.01.2024
- 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.

Authorised Signatory:


 Jr. Scientist
 (Checked by)


 Scientist
 (Verified by)


 Chief. Scientist
 (Issued by)



02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOA

- 101 -

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

MICROBIOLOGY TEST REPORT

Report No. 69

Issue date: 30.01.2024

Sample Details	Channel (Surface water)	ARF No. : 109/2024					
Sample Received From	Central Lab	Sampling Date/ Time	25.01.2024/ 16:00 Hrs				
Address	Madaihat Drain	Sample Received on	25.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Sankhabhanga	Period of Analysis	25.01.2024 to 30.01.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)						
Width (m)	2.5	Depth (m)	0.5	Flow (m/s)	0.30	Discharge(MLD)	32.40

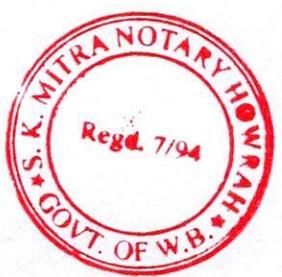
Parameters	Result	Unit	LOD	Method
Total coliform (TC)	11×10 ³	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 24 th edition 2023
Fecal coliform (FC)	4.5×10 ³	MPN/100 ml	<1.8	APHA Standard Methods,9221E; 24 th edition 2023

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: 109/2024 Dated 25.01.2024 2) Results are reported based on preserved materials.
 3) Sample will be destroyed after 15days 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 up to 30/03/2025

Authorized Signatory: IS Datta
Env. Analyst
 (Checked and Verified by)

B. Chakraborty
Chief Scientist
 (Issued by)

----- End of Report -----



02 AUG 2024

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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

TEST REPORT

Report NO. 68

Issue Date: 12.04.2024

Sample Details	Channel (Surface water)	ARF No. : 109/2024					
Sample Received From	Central Lab	Sampling Date/Time	25.01.2024/ 15:05 Hrs				
Address	Kumarkhali Drain	Sample Received on	25.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Baganda Khal	Period of Analysis	25.01.2024 to 08.02.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060,23 rd Edition , 2017 (Grab)						
Width (m)	5.79	Depth (m)	0.85	Flow (m/s)	No Flow	Discharge(MLD)	No Flow

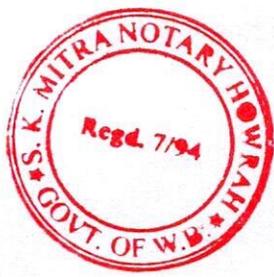
Parameters	Result	Unit	LOD	Method
pH	7.37	Units	4 Units	APHA Standard Methods, 4500-H+ B, 24 TH edition, 2023
BOD(3days@27°C)	3.82	mg/L	0.20 mg/L	CLWI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	9.80	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 24 TH edition, 2023, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.06	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination) 24 TH edition, 2023
Nitrate-N (NO ₃ -N)	0.71	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 24 TH edition, 2023
TSS	40.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 24 TH edition, 2023
TDS(@180°C)	296.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 24 TH edition, 2023
Chloride	26.99	mg/L	5.00 mg/L	APHA Standard Methods 4500-Cl-B, 24 TH edition, 2023
Sulfate (SO ₄)	31.57	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 24 TH edition, 2023
Total Alkalinity	200.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 24 TH edition, 2023
Ammoniacal Nitrogen(NH ₄ -N)	0.11	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 24 TH edition, 2023,

Authorised Signatory:

Kohy
Jr. Scientist
(Checked by)

[Signature]
Scientist
(Verified by)

[Signature]
Chief. Scientist
(Issued by)



2 AUG 2024

parameters	Result	Unit	LOD	Method
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 24 TH edition, 2023
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Iron	0.45	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 24 TH edition, 2023
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Copper	BDL	mg/l	0.11 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Cobalt	BDL	mg/L	0.60 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023
Manganese	BDL	mg/L	0.28 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH edition, 2023

Valadium, Selenium: Facility is not available.

Note: - LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done
 1) For Sampling details pl. refers to A.R.F No 109/2024 Dated 25.01.2024 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 up to 30/03/2025

Authorised Signatory:

Keluy
 Jr. Scientist
 (Checked by)

AB
 Scientist
 (Verified by)

Subhojit
 Chief. Scientist
 (Issued by)

----- End of Report -----



02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

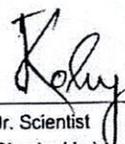
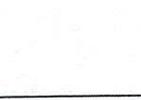
Report No. 68

Issue Date: 12.04.2024

Sample Details	Channel (Surface water)	ARF No. : 109/2024					
Sample Received From	Central Lab	Sampling Date/Time	25.01.2024/ 15:05 Hrs				
Address	Kumarkhali Drain	Sample Received on	25.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Baganda Khal	Period of Analysis	25.01.2024 to 08.02.2024				
Height	NA	Climatic condition	Sunny				
Sample condition:	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060, 23 rd Edition, 2017 (Grab)						
Width (m)	5.79	Depth (m)	0.85	Flow (m/s)	No Flow	Discharge(MLD)	No Flow

Parameters	Result	Unit	LOD	Method
Antimony	BDL	mg/l	---	APHA Standard Methods 3030 E, 3030 K & 3111 B; 24 TH 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. 109/2024 Dated: 25.01.2024 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.

Authorized Signatory:   

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

----- End of Report -----




02 AUG 2024



WEST BENGAL POLLUTION CONTROL BOARD



WEST BENGAL POLLUTION CONTROL BOA

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

MICROBIOLOGY TEST REPORT

Report No. 68

Issue date: 27.02.2024

Sample Details	Channel (Surface water)	ARF No. : 108/2024					
Sample Received From	Central Lab	Sampling Date/ Time	25.01.2024/ 15:05 Hrs				
Address	Kumarkhali Drain	Sample Received on	25.01.2024				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Baganda Khal	Period of Analysis	25.01.2024 to 30.01.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)						
Width (m)	5.79	Depth (m)	0.85	Flow (m/s)	No Flow	Discharge(MLD)	No Flow

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	14×10^3	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 24 th edition 2023
Fecal coliform (FC)	6.1×10^3	MPN/100 ml	<1.8	APHA Standard Methods,9221E; 24 th 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: 108/2024 Dated 25.01.2024 2) Results are reported based on preserved materials.

3) Sample will be destroyed after 15days 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 up to 30/03/2025

Authorised Signatory:

Saha
Env. Analyst
(Checked and Verified by)

Chief Scientist
(Issued by)

----- End of Report -----



2 AUG 2024

Central Laboratory
Paribesh Bhawan, 10A, Block LA, Sector III, Salt Lake City, Kolkata 700 176.
Tel: (033) 2335-5953

TEST REPORT

Issue Date: 12.04.2024

Report NO. 73

Sample Details	Channel (Surface water)	ARF No. : 95/2023			
Sample Receiver' From	Central Lab	Sampling Date/Time	26.12.2023 / 16:30 Hrs		
Address	Chakmadhu Drain	Sample Received on	26.12.2023		
Test Material	Channel sample	Total no of sample	01		
Sampling Location	Near Bauria Ferry Ghat	Period of Analysis	26.12.2023 to 11.01.2024		
Height	NA	Climatic condition	Sunny		
Sample condition	Good	Remarks	Joint Sampling with CPCB		
Method Of Sampling	APHA Standard Method 1060.23 rd Edition, 2017 (Grab)				
Width (m)	1.2	Depth (m)	0.17	Flow (m/s)	0.17
				Discharge(MLD)	3.102

Parameters	Result	Unit	LOD	Method
pH	7.43	Units	4 Units	APHA Standard Methods, 4500-H+ B, 23RD edition 2017
BOD(3days@27°C)	20.11	mg/L	0.20 mg/L	CL/WI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	37.37	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D 23RD edition 2017; USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.03	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination 23RD edition 2017
Nitrate-N (NO ₃ -N)	0.94	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 23RD edition 2017
TSS	50.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 23RD edition 2017
TDS(@180°C)	472.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 23RD edition 2017
Chloride	84.97	mg/L	5.00 mg/L	APHA Standard Methods 4500-Cl-B, 23RD edition 2017
Sulfate (SO ₄)	34.93	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 23RD edition 2017
Total Alkalinity	380.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 23RD edition 2017
Ammoniacal Nitrogen(NH ₄ -N)	4.71	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 24 th edition, 2023.

Authorised Signatory:

Koluy
Jr. Scientist
(Checked by)

AB
Scientist
(Verified by)

Babbar
Chief. Scientist
(Issued by)



02 AUG 2024

parameters	Result	Unit	LOD	Method
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23RD edition 2017
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B23RD edition 2017
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Iron	0.40	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 201
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23RD edition 2017
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Copper	BDL	mg/l	0.11 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Cobalt	BDL	mg/L	0.60 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Manganese	BDL	mg/L	0.28 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B23RD edition 2017

Valadium, Selenium: Facility is not available.

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done

- 1) For Sampling details pl. refers to A. R. F No 95/2023 Dated 26.12.2023
 - 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
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Authorised Signatory:

Kohy
Jr. Scientist
(Checked by)

AB
Scientist
(Verified by)

Bxshu
Chief. Scientist
(Issued by)

----- End of Report -----



Handwritten signature
02 AUG 2024

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

CHEMICAL TEST REPORT

Report No. 73

Issue Date: 12.04.2024

Sample Details	Channel (Surface water)	ARF No. : 95/2023					
Sample Received From	Central Lab	Sampling Date/Time	26.12.2023 / 16:30 Hrs				
Address	Chakmadhu Drain	Sample Received on	26.12.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Bauria ferry Ghat	Period of Analysis	26.12.2023 to 11.01.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060,23 rd Edition . 2017 (Grab)						
Width (m)	1.2	Depth (m)	0.17	Flow (m/s)	0.17	Discharge(MLD)	3.102

Parameters	Result	Unit	LOD	Method
Antimony	BDL	mg/l	----	APHA Standard Methods 3030 E, 3030 K & 3111 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. 95/2023 Dated: 26 12 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.

Authorised Signatory:

Kaly
 Jr. Scientist
 (Checked by)

AB
 Scientist
 (Verified by)

B. S. Chandra
 Chief. Scientist
 (Issued by)



End of Report

02 AUG 2024

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

MICROBIOLOGY TEST REPORT

Report No.73

Issue date: 30.01.2024

Sample Details	Channel (Surface water)	ARF No. : 95/2023
Sample Received From	Central Lab	Sampling Date/ Time 26.12.2023 / 16:30 Hrs
Address	Chakmadhu Drain	Sample Received on 26.12.2023
Test Material	Channel sample	Total no of sample 01
Sampling Location	Near Bauria ferry Ghat	Period of Analysis 26.12.2023 to 30.12.2023
Height	NA	Climatic condition Sunny
Sample condition	Good	Remarks Joint Sampling with CPCB
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)	
Width (m)	1.2	Depth (m) 0.17
		Flow (m/s) 0.17
		Discharge(MLD) 3.102

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	79×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods.9221B; 23RD edition 2017
Fecal coliform (FC)	33×10 ⁵	MPN/100 ml	<1.8	APHA Standard Methods.9221E; 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: 95/2023 Dated 26.12.2023 2) Results are reported based on preserved materials.

3) Sample will be destroyed after 15days 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 up to 30/03/2025

S. Binoy

JRF
(Analysed by)

Chief Scientist
(Checked and Verified by)

[Signature]

Chief Scientist
(Issued by)

----- End of Report -----



02 AUG 2024



TEST REPORT

-110-

Issue Date: 12.04.2024

Report NO. 72

Sample Details	Channel (Surface water)	ARF No. : 96/2023			
Sample Received From	Central Lab	Sampling Date/Time	26.12.2023 / 15:30 Hrs		
Address	Chakashi Chengail Drain	Sample Received on	26.12.2023		
Test Material	Channel sample	Total no of sample	01		
Sampling Location	Near Chakashi Chengail	Period of Analysis	26.12.2023 to 11.01.2024		
Height	NA	Climatic condition	Sunny		
Sample condition	Good	Remarks	Joint Sampling with CPCB		
Method Of Sampling	APHA Standard Method 1060.23 rd Edition . 2017 (Grab)				
Width (m)	1.00	Depth (m)	2.00	Flow (m/s)	0.42
				Discharge(MLD)	7.78

Parameters	Result	Unit	LOD	Method
pH	7.47	Units	4 Units	APHA Standard Methods, 4500-H+ B, 23RD edition 2017
BOD(3days@27°C)	4.29	mg/L	0.20 mg/L	CLWI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	18.85	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D 23RD edition 2017, USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.06	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination 23RD edition 2017
Nitrate-N (NO ₃ -N)	0.85	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 23RD edition 2017
TSS	26.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 23RD edition 2017
TDS(@180°C)	348.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 23RD edition 2017
Chloride	45.99	mg/L	5.00 mg/L	APHA Standard Methods 4500-CI-23RD edition 2017
Sulfate (SO ₄)	27.86	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 23RD edition 2017
Total Alkalinity	280.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 23RD edition 2017
Ammoniacal Nitrogen(NH ₄ -N)	BDL	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 23RD edition 2017

Authorised Signatory:

Kaly
Jr. Scientist
(Checked by)

AB
Scientist
(Verified by)

Babane
Chief. Scientist
(Issued by)



02 AUG 2024

parameters	Result	Unit	LOD	Method
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23RD edition 2017
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Iron	0.56	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23RD edition 2017
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Copper	BDL	mg/l	0.11 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Cobalt	BDL	mg/L	0.60 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017
Manganese	BDL	mg/L	0.28 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017

Valadium, Selenium: Facility is not available.

Note - LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done
 1) For Sampling details pl. refers to A. R. F No 96/2023 Dated 26.12.2023 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 up to 30/03/2025

Authorised Signatory:

Kaly
 Jr. Scientist
 (Checked by)

[Signature]
 Scientist
 (Verified by)

[Signature]
 Chief. Scientist
 (Issued by)

----- End of Report -----



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 02 AUG 2024

WEST BENGAL POLLUTION CONTROL BOARD

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

CHEMICAL TEST REPORT

Report No. 72

Issue Date: 12.04.2024

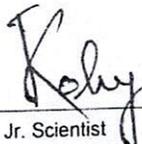
Sample Details	Channel (Surface water)	ARF No. : 96/2023	
Sample Received From	Central Lab	Sampling Date/Time	26.12.2023 / 15:30 Hrs
Address	Chakashi Chengail Drain	Sample Received on	26.12.2023
Test Material	Channel sample	Total no of sample	01
Sampling Location	Near Chakashi Chengail	Period of Analysis	26.12.2023 to 11.01.2024
Height	NA	Climatic condition	Sunny
Sample condition	Good	Remarks	Joint Sampling with CPCB
Method Of Sampling	APHA Standard Method 1060.23 rd Edition , 2017 (Grab)		
Width (m)	1.00	Depth (m)	2.00
		Flow (m/s)	0.42
		Discharge(MLD)	7.78

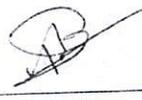
Parameters	Result	Unit	LOD	Method
Antimony	BDL	mg/l	----	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23RD edition 2017

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. 96/2023 Dated: 26.12.2023
- 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.

Authorised Signatory:


Jr. Scientist
(Checked by)


Scientist
(Verified by)

Chief Scientist
(Issued by)




02 AUG 2024

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

MICROBIOLOGY TEST REPORT

Report No.72

Issue date: 30.01.2024

Sample Details	Channel (Surface water)	ARF No. : 96/2023			
Sample Received From	Central Lab	Sampling Date/ Time	26.12.2023 / 15:30 Hrs		
Address	Chakashi Chengail Drain	Sample Received on	26.12.2023		
Test Material	Channel sample	Total no of sample	01		
Sampling Location	Near Chakashi Chengail	Period of Analysis	26.12.2023 to 30.12.2023		
Height	NA	Climatic condition	Sunny		
Sample condition	Good	Remarks	Joint Sampling with CPCB		
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)				
Width (m)	1.00	Depth (m)	2.00	Flow (m/s)	0.42
				Discharge(MLD)	7.78

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	130×10 ³	MPN/100 ml	<1.8	APHA Standard Methods.9221B; 23RD edition 2017
Fecal coliform (FC)	49×10 ³	MPN/100 ml	<1.8	APHA Standard Methods.9221E; 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: 96/2023 Dated 26 12.2023 2) Results are reported based on preserved materials.
 3) Sample will be destroyed after 15days 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 up to 30/03/2025

S. Biswas

JRF
(Analysed by)

Chief Scientist
(Checked and Verified by)

Chief Scientist
(Issued by)

----- End of Report -----



02 AUG 2024

TEST REPORT

Issue Date: 12.04.2024

Report NO. 71

Sample Details	Channel (Surface water)	ARF No. : 97/2023					
Sample Received From	Central Lab	Sampling Date/Time	26.12.2023 / 14:05 Hrs				
Address	Kalinganagar Drain	Sample Received on	26.12.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Kalinganagar	Period of Analysis	26.12.2023 to 11.01.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060.23 rd Edition . 2017 (Grab)						
Width (m)	7.90	Depth (m)	1.85	Flow (m/s)	0.26	Discharge(MLD)	328.31

Parameters	Result	Unit	LOD	Method
pH	7.58	Units	4 Units	APHA Standard Methods, 4500-H+ B, 23 rd edition 2017
BOD(3days@27°C)	4.29	mg/L	0.20 mg/L	CLWI/5.4/19 Issue #. 2 Issue Date 13/02/2015, 2015
COD	16.86	mg/L	6.00 mg/L	APHA Standard Methods 5220 B & 5220 D; 23 rd edition 2017 USEPA Method 410.4, revision 2.0, August 1993
Phosphate-P (PO ₄ -P)	0.04	mg/L	0.01 mg/L	APHA Standard Methods 4500- P B, 3030 K (digestion) & 4500-P D (determination) 2423 rd edition 2017
Nitrate-N (NO ₃ -N)	0.70	mg/L	0.05 mg/L	APHA Standard Methods 4500-NO3-B; 23 rd edition 2017
TSS	62.00	mg/L	4 mg/L	APHA Standard Methods 2540 D, 23 rd edition 2017
TDS(@180°C)	228.00	mg/L	4 mg/L	APHA Standard Methods 2540 C, 23 rd edition 2017
Chloride	15.32	mg/L	5.00 mg/L	APHA Standard Methods 4500-Cl-B, 23 rd edition 2017
Sulfate (SC.)	25.99	mg/L	5.00 mg/L	APHA Standard Methods 4500-SO4 2-E; 23 rd edition 2017
Total Alkalinity	180.00	mg/L	10.00 mg/L	APHA Standard Methods 2320 B, 23 rd edition 2017
Ammoniacal Nitrogen(NH ₄ -N)	BDL	mg/L	0.1 mg/L	APHA Standard Methods 4500 - NH3 D, 23 rd edition 2017

Authorised Signatory:

Kaly
Jr. Scientist
(Checked by)

AB
Scientist
(Verified by)

Balchandra
Chief. Scientist
(Issued by)

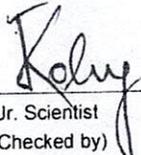
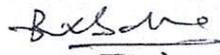


2 AUG 2024

parameters	Result	Unit	LOD	Method
Arsenic(As)	BDL	mg/L	0.005 mg/L	APHA Standard Methods 3030 E, 3030 K & 3113 B; 23 rd edition 2017, 2023
Cadmium(Cd)	BDL	mg/L	0.055 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23 rd edition 2017
Total chromium (Cr)	BDL	mg/l	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23 rd edition 2017
Iron	0.49	mg/L	0.14 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23 rd edition 2017
Lead	BDL	mg/L	0.25 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23 rd edition 2017
Mercury	BDL	mg/L	0.003 mg/L	APHA Standard Methods 3112 B; 23 rd edition 2017
Nickel	BDL	mg/L	0.35 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23 rd edition 2017
Zinc	BDL	mg/L	0.08 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23 rd edition 2017, 2023
Copper	BDL	mg/l	0.11 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23 rd edition 2017
Cobalt	BDL	mg/L	0.60 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23 rd edition 2017
Manganese	BDL	mg/L	0.28 mg/L	APHA Standard Methods 3030 E, 3030 K & 3111 B; 23 rd edition 2017

Valadium, Selenium: Facility is not available.

Note:- LOD: Limit of Detection, BDL: Below Detection Limit, NT: Not Traceable, NA: Not Applicable, ND: Not Done
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Authorised Signatory:
 Jr. Scientist (Checked by)
 Scientist (Verified by)
 Chief. Scientist (Issued by)

----- End of Report -----




 02 AUG 2024

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

CHEMICAL TEST REPORT

Report No. 71

Issue Date: 12.04.2024

Sample Details	Channel (Surface water)	ARF No. : 97/2023					
Sample Received From	Central Lab	Sampling Date/Time	26.12.2023 / 14:05 Hrs				
Address	Kalinganagar Drain	Sample Received on	26.12.2023				
Test Material	Channel sample	Total no of sample	01				
Sampling Location	Near Kalinganagar	Period of Analysis	26.12.2023 to 11.01.2024				
Height	NA	Climatic condition	Sunny				
Sample condition	Good	Remarks	Joint Sampling with CPCB				
Method Of Sampling	APHA Standard Method 1060.23 rd Edition , 2017 (Grab)						
Width (m)	7.90	Depth (m)	1.85	Flow (m/s)	0.26	Discharge(MLD)	328.31

Parameters	Result	Unit	LOD	Method
Antimony	BDL	mg/l	---	APHA Standard Methods 3030 E, 3030 K & 3111 B23 rd 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. 97/2023 Dated: 26.12.2023 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.

Authorized Signatory:

Kaly
 Jr. Scientist
 (Checked by)

[Signature]
 Scientist
 (Verified by)

[Signature]
 Chief. Scientist
 (Issued by)

----- End of Report -----



[Green Signature]
02 AUG 2024

-117-

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

MICROBIOLOGY TEST REPORT

Report No.71

Issue date: 30.01.2024

Sample Details	Channel (Surface water)	ARF No. : 97/2023	
Sample Received From	Central Lab	Sampling Date/ Time	26.12.2023 / 14:05 Hrs
Address	Kalinganagar Drain	Sample Received on	26.12.2023
Test Material	Channel sample	Total no of sample	01
Sampling Location	Near Kalinganagar	Period of Analysis	26.12.2023 to 30.12.2023
Height	NA	Climatic condition	Sunny
Sample condition	Good	Remarks	Joint Sampling with CPCB
Method Of Sampling	APHA Standard Method 1060,23rd Edition , 2017 (Grab)		
Width (m)	7.90	Depth (m)	1.85
		Flow (m/s)	0.26
		Discharge(MLD)	328.31

Parameters	Result	Unit	LOD	Method
Total coliform (TC)	170×10 ²	MPN/100 ml	<1.8	APHA Standard Methods,9221B; 23 rd edition 2017
Fecal coliform (FC)	70×10 ²	MPN/100 ml	<1.8	APHA Standard Methods.9221E; 23 rd 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: 97/2023 Dated 26.12.2023 2) Results are reported based on preserved materials.
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S. Misra
JRF
(Analysed by)

Chief Scientist
(Checked and Verified by)

B. Babu
Chief Scientist
(Issued by)

----- End of Report -----



02 AUG 2024

Year wise Fund status report of Ganga Action Plan under Swachh Bharat Mission (Gramin)

(in Crore)

Year	GR			Amount received from State			Interest received			Other receipts*			Total Available fund			Expenditure reported			Balance (Difference between available fund and Expenditure)		
	Central share	State share	Total	Central share	State share	Total	Central share	State share	Total	Central share	State share	Total	Central share	State share	Total	Central share	State share	Total	Central share	State share	Total
2015-2016	0.0000	0.0000	0.0000	2.0000	4.0000	6.0000	0.0006	0.0200	0.0206	0.0000	0.0000	0.0000	2.0066	4.0200	6.0266	1.6126	3.7027	5.3153	0.3940	0.2573	0.6513
2016-2017	0.394	0.2573	0.6513	1.5000	1.0000	2.5000	0.0955	0.0037	0.0992	0.0000	0.0000	0.0000	1.8995	1.2610	3.1605	1.4119	1.2079	3.0198	0.0876	0.0531	0.1407
2017-2018	0.0876	0.0531	0.1407	0.0000	0.0000	0.0000	0.0021	0.0014	0.0035	0.0000	0.0000	0.0000	0.0897	0.0545	0.1442	0.0000	0.0000	0.0000	0.0897	0.0545	0.1442
2018-2019	0.0897	0.0545	0.1442	22.0873	14.7214	36.8087	0.4523	0.3015	0.7538	0.0030	0.0020	0.0050	22.6271	15.0794	37.7065	0.1653	0.1102	0.2755	22.4618	14.9692	37.4310
2019-2020	22.4618	14.9692	37.4310	0.0000	0.0000	0.0000	1.0393	0.6929	1.7322	0.0152	0.0101	0.0253	23.5163	15.6722	39.1885	0.3264	0.2176	0.5440	23.1899	15.4536	38.6435
2020-2021	23.1899	15.4536	38.6435	0.0000	0.0000	0.0000	0.7068	0.4712	1.1780	0.0000	0.0000	0.0000	23.8967	15.9258	39.8225	10.6822	7.1214	17.8036	13.2145	8.8044	22.0189
2021-2022	13.2145	8.8044	22.0189	0.0000	0.0000	0.0000	0.4443	0.2962	0.7405	1.5745	1.0497	2.6242	15.2333	10.1502	25.3835	1.9526	1.3018	3.2544	13.2807	8.8485	22.1292
2022-2023	13.2807	8.8485	22.1292	0.0000	0.0000	0.0000	0.4600	0.3100	0.7700	5.8900	3.9000	9.7900	19.5907	13.0585	32.6492	3.9900	2.6600	6.6500	15.6007	10.3985	25.9992
2023-2024	15.6007	10.3985	25.9992	0.0000	0.0000	0.0000	0.8319	0.5546	1.3865	0.0000	0.0000	0.0000	16.4226	10.9531	27.3757	5.5054	3.6703	9.1757	10.9222	7.2828	18.2100

Additional Executive Officer
Howrah Zilla Parishad

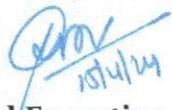
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02 AUG 2024

Year wise SWM achievement status of Ganga Bordering Gram Panchayat of Howrah District

Sl No	Year of SWM achievement	Name of the Block	Name of the Gram Panchayat
1	2019-2020		
2	2020-2021		
3	2021-2022	Sankrail	Raghudebbati
4			Sankrail
5	2022-2023	Sankrail	Sarenga,
6			Thanamakua
7		Shyampur-I	Belari
8			Dingakhola
9			Nabagram
10			Dhulasimla
11	Uluberia-I	Heerapur	
12		Kalinagar	
13	2023-2024	Sankrail	Banupur-I
14		Shyampur-I	Baneswarpur-I
15			Baneswarpur-II


10/8/24
Additional Executive Officer
Howrah Zilla Parishad




02 AUG 2024

Year wise LWM achievement status of Ganga Bordering Gram Panchayat of Howrah Distric

Sl No	Year of LWM achievement	Name of the Block	Name of the Gram Panchayat	Name of the Village
1	2019-2020			
2	2020-2021			
3	2021-2022			
4	2022-2023	Sankrail	Banupur-I	All Villages
5			Banupur-II	All Villages
6			Dakshin Sankrail	All Villages
7			Panchpara	All Villages
8			Raghudebbati	All Villages
9			Sankrail	All Villages
10			Sarenga	All Villages
11			Thanamakua	All Villages
12			Shyampur-I	Dingakhola
13		Nabagram		Gabardaha, Joy Krishnapur, Nabagram
14		Uluberia-I	Heerapur	All Villages
15	Kalinagar		All Villages	
16	2023-2024	Sankrail	Jorhat	All Villages
17			Manikpur	All Villages
18		Shyampur-I	Baneswarpur-I	Gadiara


Additional Executive Officer
Howrah Zilla Parishad





02 AUG 2024

Fund released to the ULBs of West Bengal under Ring Fenced Account

2023-24

Rs. In lakh

Sl. No	Name of District	Name of ULB/Agency	Amount Released
1	Murshidabad	Jiaganj Azimganj	117.19800
2	Kolkata	Kolkata MC	5423.19000
3	North 24 Parganas	Bidhannagar MC	355.08000
4		Executive Engineer, MED, Barasat	137.53800
5	Nadia	Coopers Camp	3.09200
6		Santipur	3.98500
7	Birbhum	Sainthia	41.91000
8		Rampurhat	9.31300
9	Hooghly	Arambag	15.00000
10	Purba Medinipur	Tamluk	4.50000
11		KMDA	10031.79200
12		SUDA	4150.58100
13	Malda		0.00000
14	South 24 Parganas		0.00000
15	Howrah		0.00000
Total Release 2023-24			20293.17900

2024-25

Rs. In lakh

Sl. No	Name of District	Name of ULB/Agency	Amount Released
1	Kolkata	Kolkata MC	161.43000
2	Purba Bardhaman	Burdwan	32.83898
3	North 24 Parganas	Executive Engineer, MED, Bidhannagar	21.76600
4		SLRDC	148.77600
Total Release 2024-25			364.81098
Total Release			20657.98998

** The indicated fund includes release for NMCG in different Ganga Towns



02 AUG 2024

Standard Format of Utilisation Certificate

1) Name of Scheme/Project as per Administrative Approval Order Pollution Abatement (I&D) works at Howrah, Bally & Baranagar - Kamarhati Municipality

2) Reference to Administrative Approval (NMCG Order No. and Date): Pr-12013/2/2020-PPP NMCG Dt.10.02.2021

3) Source of funding: (For all schemes under EAP/NON-EAP/NGP)* HAM(Supervision Cost)

Sl.No	WBS(NGR BA) Fund release Order No. & Date.	Amount released by WBS(NGRBA)PMG (Rs. In lakh) (Central & State shares to be shown separately)	Remarks
1	2	3	6
			<p>1. Certified that out of Rs.182.44 Crore sanctioned during the year 2024-25 in favour of GAP(EB - 1) under WBS(NGRBA)PMG Letter(s) No. given in the margin, a cumulative sum of Rs.182.44 Crore has been utilised for the purpose for which it was sanctioned and the balance sum of Rs. NIL remains unutilised.</p> <p>2. Utilisation of fund stated above, does not include any excess/supplementary works.</p> <p>or,</p> <p>Utilisation of fund stated above includes interalia, excess/supplementary works within the limit of sanction by the competent authority as per codal provisions & prevailing Govt. orders in the UD & MA Department and within the administratively approved cost.</p> <p>or,</p> <p>utilisation of fund includes interalia, excess/supplementary requiring approval of the Government and such approval has been accorded by the UD & MA Department vide No. dated,</p>
	Total		

Note:

- 1 In the 2nd Certificate, there are three options keep only and strike out the remaining two.
- 2 Project preparation & Supervision charges sanctioned for Rs. 20.27 Crore



Chief Engineer
 Water & Sanitation Sector,
 GAP Wing, KMDA

Countersigned

02/08/2024

2 AUG 2024

- 123 -

Statement of Status of the Scheme and Regulation of Fund for the Scheme/Project under HAM(Supervision Cost)

Executing Division: EB - 1, GAP Wing, W&S Sector, KMDA

Sl. No.	Name of the Scheme/Project	Location	Sanctioned Cost (Balance cost / Administratively Approved cost)	Awarded Cost/ Tendered Amount	Cumulative fund already received	Cumulative UC submitted (copy of U.C. against last instalment of fund to be enclosed.)	Gross Booked Expenditure against col. 8 (gross amount inclusive of statutory deductions).	Cumulative physical progress (%) anticipated uptill end of indenting month if indent submitted by 7th of the month & upto to the end of the next month, if indent submitted thereafter	Anticipated gross value of works depending on physical progress shown in col. 10	Indent of fund (gross amount inclusive of statutory deductions) Refer to Note below (IT, VAT, ST, Cess/ Royalty included)
1	Pollution Abatement (I&D) works at Howrah, Bally & Baranagar Kamarhati Municipality	Howrah, Bally & Baranagar - Kamarhati	Total Rs.595.72 Crore in which Project Preparation & Supervision Cost Rs.20.27 Crore	N/A	182.44 Crore	Up-to-date	182.44 Crore	N/A	N/A	Nil

proforma (format enclosed) for the last instalment of fund received.

- Please submit source of fund-wise (NGP) separate indents (Modified).
- Project preparation & Supervision charges sanctioned for Rs. 20.27 Crore

Chief Engineer
 Chief Engineer
 Water & Sanitation Sector,
 GAP Wing, KMDA

Srinivas
of 02/08/2024



38310

02 AUG 2024

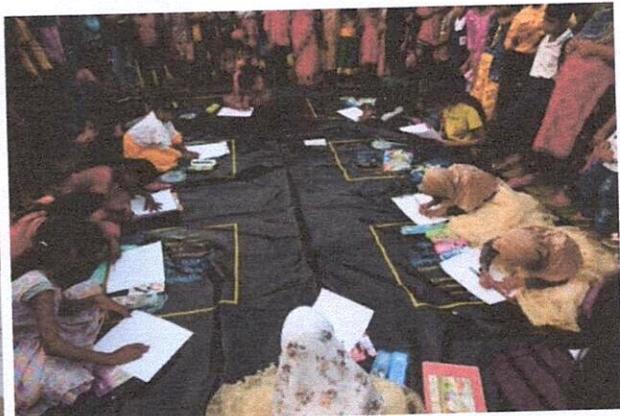
Photos



Ghat Pe Haat Shyampur-I Block



Mass Awareness Vehicle of Sankrail & Uluberai-I Block



Slogan Competition of Uluberia-I & Sankrail Block



02 AUG 2024

Photos



Behavioral Change Communication of Shyampur –I Block



Public Outreach and Knowledge based events of Uluberia-I Block



Ghat Pe Haat Of Sankrail Block



02 AUG 2024

Photos



Wall Painting of Sankrail Block



International Day of Yoga 2024 of Uluberia Block



02 AUG 2024



Advance service foe Affidavit in compliance with the order of Hon'ble National Green Tribunal Principal Bench, New Delhi, Dated 24.11.2023, 21.02.2024 & 02.05.2024 in matter M.C. Mehta vs. Union of India & Ors. O.A. 200 of 2014.

2 messages

Office of Adv Madhumita <office.advocate.madhumita@gmail.com>
To: Katyayni Chaubey <katyaynichaubey986@gmail.com>

Sat, Aug 10, 2024 at 1:30 PM

Dear Mam,
Please find the attachment.

 OA 200 of 2014.pdf

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With Regards

Office of Advocate Madhumita Bhattacharjee
1921, J Block, Opposite Ariston Hospital, C.R. Park,
New Delhi-110019
Mob. No. 7011332809

Chamber No. 807, Additional Building Complex,
Supreme Court of India,
New Delhi-110001
Telephone No. 011-43029802

Office of Adv Madhumita <office.advocate.madhumita@gmail.com>
To: Katyayni Chaubey <katyaynichaubey986@gmail.com>

Sat, Aug 10, 2024 at 3:01 PM

Dear Mam,
Please find the attachment.

 NGT OA 200 hOWRAH August.pdf

 North 24 Parganas OA 200 August.pdf

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