Karnataka State Pollution Control Board
Regional Office : Bangalore City East
"Nisarga Bhavan", 3rd Floor, 7th 'D' Main,
Thimmaiah Road, Shivanagar, Bangalore-560 010.
Tel.: 080-23224830
E-mail : bngcityeast@kspcb.gov.in

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ : ಬೆಂಗಳೂರು ನಗರ ಪೂರ್ವ
"ನಿಸರ್ಗ ಭವನ", 3ನೇ ಮಹಡಿ, 7ನೇ 'ಡಿ' ಮುಖ್ಯರಸ್ತೆ,
ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ, ಶಿವನಗರ, ಬೆಂಗಳೂರು-560 010.
ದೂ.: 080-23224830
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ಕರ್ನಾಟಕ ರಾಜ್ಯ
ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ

towards a cleaner Karnataka

No: PCB/BCE/NGT OA No. 308 of 2022/2022-23/ 988 Date: 05 NOV 2022

To,
The Member Secretary
Karnataka State Pollution Control Board
'Parisara Bhavan' No.49,
Church Street, Bengaluru-560 001

Sir,

//Kind Attn: Law Officer (Legal Section)//

Sub : Submission of KSPCB action taken report w.r.t Hon'ble NGT OA No. 308 of 2022 in respect of construction of a massive multistoried building within the buffer zone of primary storm water drain, beside Halasuru Lake, adjacent to Conrad Hotel, by Gurudwara on Kensington Road, Bengaluru - reg.

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With reference to the above subject, this is to inform that the above said Hon'ble NGT OA No. 308 of 2022 in respect of construction of a massive multistoried building within the buffer zone of primary storm water drain, beside Halasuru Lake, adjacent to Conrad Hotel, by Gurudwara on Kensington Road, Bengaluru came up for hearing on 27.07.2022 before the Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi and the Hon'ble Tribunal has passed an interim order on 27.07.2022 and directed to submit to take further remedial action by following due process of law and file its action taken report in respect of the observations/recommendations made by the joint committee and action taken report against the Gurudwara regarding non-compliances with environmental norms.

In the order dated 27.07.2022, the Hon'ble NGT has directed to submit further action taken report of KSPCB. Hence, this office is herewith submitting the further action taken report along with supporting documents.

This is for kind information.

Yours faithfully

5/11/2022

Environmental Officer
RO, Bengaluru City Zone &
Member Convener w.r.t NGT
OA No. 308 of 2022.

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

ORIGINAL APPLICATION NO. OF 308 OF 2022

IN THE MATTER OF:

Sri. Vivek, Secretary of the RWA-Shanthi Apartment, Gangadhara Chetty Road, Halasuru, Bangalore on Gurudwara on Kensington Road, opposite to Shanthi Apartment, Halasuru, Bengaluru in respect of encroachment and also impact on functionality of storm drain and ecology of Halasuru Lake

..... Applicant.

V/s

Government of Karnataka
And others

...Respondent(s).

Index

Sl. No.	Subject	Annexure No.
1	Photographs showing cleaning of accumulated floating debris /solid waste from the storm water drain.	Annexure –I
2	Letter and reminder letters from the Executive Engineer, SWD, East zone BBMP issued to the President, Gurudwara, Halasuru to provide /install Trash barrier to the entry point of storm water drain located at Gurudwara	Annexure-II
3	Photographs showing the trash barriers	Annexure-III (A)
	Tender document for provision for 08 no.s of trash barriers/screen and 08 no.s of silt which is estimated.	Annexure-III (B)
4	Copy of the analysis reports of Halasuru Lake from 01.04.2021 to 30.09.2022	Annexure-IV
5	Reply submitted by the Gurudwara with respect to show cause notice issued by KSPCB.	Annexure-V
6	Reply from Gurudwara to Notice of Proposed Directions (NPD) issued by KSPCB	Annexure-VI
7	Chief Engineer, SWD, East Division letter to the Joint Commissioner BBMP, East division with respect to encroachment of SWD by Gurudwara Sri Guru Singh Sabha.	Annexure-VII
8	Chief engineer, SWD letter to Technical assistant to Deputy Commissioner & Deputy Director, Surveyor	Annexure-VIII
9	Chief engineer, SWD, East division letter to the Revenue Officer, Bengaluru Metropolitan Task Force (BMTF) .	Annexure-IX
10	Reply submitted by the BWSSB Authority	Annexure-X

Action taken report as per the direction of the Hon'ble NGT passed in OA No. 308 of 2022 relating to Gurudwara on Kensington Road, opposite to Shanthi Apartment, Halasuru, Bengaluru in respect of encroachment and also impact on functionality of storm drain and ecology of Halasuru Lake

Preamble:

Sri. Vivek, Secretary of the RWA-Shanthi Apartment, Gangadhara Chetty Road, Halasuru, Bangalore has filed a petition/application at Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi with regard to construction of a massive multistoried building within the buffer zone of primary storm water drain, beside Halasuru Lake, adjacent to Conrad Hotel, by Gurudwara on Kensington Road, Bengaluru, its alleged that the construction will damage Halasuru Lake as well as the storm water drain, though complaint have been made to the authority, they have not taken any action and hence the same has been admitted in Hon'ble NGT, Principal Bench in the name of Original Application No. 308/2022.

The Hon'ble NGT, Principal Bench had passed an order dated 06.05.2022 with respect to Original Application No. 308 of 2022 regarding massive multi-storeyed construction is being done within buffer zone of the primary storm water drain next to Halasuru Lake adjacent to Conrad Hotel, for the past few months in blatant violation of environmental norms by Gurudwara on Kensington road, opposite to Shanthi apartment. In the said order, Hon'ble NGT has appointed a Joint Committee comprising of Deputy Commissioner, Bangalore Urban District, Officer from State Wetland Authority, Commissioner, Bruhat Bengaluru Mahanagara Palike and Senior Environmental officer from KSPCB, Bangalore and directed the Joint Committee to inspect the area in question and to submit a factual as well as action taken report, if there is any violation found and also Karnataka State Pollution Control Board has been made as Nodal agency for co-ordination and for providing necessary logistics for this purpose.

In order to implement the Hon'ble NGT, Principal Bench order dated 06.05.2022, the Karnataka State Pollution Control Board(KSPCB) had passed an Office Memorandum(OM) vide No. PCB 10 Infra NGT 2022/1490, dated 26.05.2022, consists of the above mentioned Departments as per the Hon'ble NGT order.

The Gurudwara was inspected on 14.06.2022 and observed that Gurudwara authorities have taken up the construction activity and engaged in alternation/modification of the existing Gurudwara building of about 10,000 sq.mt with built up area and proposed to install sewage treatment plant of 50KLD and also the expansion activity is constructing on the bed of storm water drain and the construction is started without obtaining Consent for Establishment (CFE) from the Board. Hence, KSPCB, Regional office, Bengaluru City East has issued notice to Gurudwara on 15.06.2022 informing to apply for consent within 07 days from the date of receiving of this notice. But, they not neither applied for Consent nor replied to the KSPCB notice.

A preliminary meeting has been conducted under the Chairmanship of the Deputy Commissioner on 23.06.2022 at 1:00 pm by calling the above departments/authorities. As per the directions of Hon'ble Deputy Commissioner, Joint inspection was carried out on 01.07.2022 and as per the observations made by the Joint committee, action taken report sent to Hon'ble NGT on 06.07.2022.

The Hon'ble NGT directed in the order dated 27.07.2022 considering the Joint Committee report. In the order dated 27.07.2022, Hon'ble NGT directed that, notices along with copies of the applications and report of the Joint Committee and documents enclosed therewith be also issued to the President M/s Gurudwara Sri Guru Singh Sabha, Kensington road, Ulsoor, Bangalore, Chairman, State Wetland Authority, Commissioner Bruhat Bengaluru Mahanagara Palike (BBMP) and Bangalore Water Supply and Sewerage Board (BWSSB) requiring them to file their response to observations/recommendations made in the report of Joint Committee.

The status of measures implemented by the concerned Departments as per the Hon'ble NGT order dated 27.07.2022 are as follows;

Sl. No.	Activity	Department concerned	Status of Implementation
1	Frequent cleaning of accumulated floating debris /solid waste from the storm water drain	BBMP, SWD	BBMP, SWD has submitted a report along with the photographs vide their letter dated 02.11.2022 and reported that, the recommendation of the Joint Committee is complied. The debris and silt is being removed by Annual Maintenance Contract(AMC) of Storm Water Drain(SWD). Copy of the BBMP letter is enclosed as **Annexure-I.**
2	To provide /install Trash barrier to the entry point of storm water drain located at Gurudwara	Gurudwara authority	Directions of Hon'ble NGT to provide/install trash barrier to the entry point of storm water drain located at Gurudwara was not implemented by Gurudwara. Executive Engineer, BBMP, SWD has addressed letter the President, Gurudwara for providing/installation of trash barriers to the entry point of SWD located at Gurudwara on 29.09.2022 and a reminder letter dated 19.10.2022. Copy of the letter is enclosed as **Annexure-II.**
3	Installation of designed appropriate screen to arrest entry floating debris into the drain at different locations before entering to water from SWD located at Gurudwara.	BBMP, SWD	BBMP, SWD has submitted the letter along with the photographs dated 02.11.2022 and reported that, a trash barrier has already been installed at Assaye road, Ganesha temple junction. Photographs are enclosed as **Annexure-III (A)** and tender has been called to provide 08 no.s of trash barriers/screen and 08

			no.s of silt which is estimated and already tendered. The locations are marked in the map. The copy of the Tender is enclosed as **Annexure III (B).**
4	Stoppage of sewage entering into the drain by identifying missing links of lateral sewer lines which are to be connected to the storm water drain.	BBMP & BWSSB	**BBMP, SWD** BBMP, SWD has submitted reply stating that, action to be initiated by BWSSB. **BWSSB** BWSSB has submitted a reply and reported that, The Executive Engineer, Central division, BWSSB has inspected the upstream side of Halasuru Lake and reports as 14 number of lateral UGD works has been taken up and has been linked to the existing sewer sub main. Further, they have reported that at present, there is no flow of sewage into the drain in the jurisdiction of Central division. The Executive Engineer, Northeast division, BWSSB has inspected the upstream side of Halasuru Lake and has reported that 17 number of lateral UGD works have been taken up and has been linked to the existing sewer sub-main to avoid flow of sewage into the drain. Further, The Executive Engineer, Northeast division has reported that there is flow of sewage from 165 quarters at MRS palya. In order to stop the entry of sewage, an estimate has been reported for Rs.25.00 Lakhs for laying 300 mm dia DWC line from MRS palya and link it to the existing sub mains. This work will be taken up and completed at the earliest. Apart from this, at the junction of JC Nagar main road, Munireddy Palya, it was observed that BBMP has laid a permanent concrete slab in order to inspect the flow of sewage (if any) and to take up the in this particular stretch of the drain. The copy of the letter is herewith enclosed as **Annexure X.**
5	Regular monitoring of Halasuru Lake	KSPCB	The Halasuru Lake water quality is monitored every month under the National Water Quality Monitoring Programme (NWMP) by the

			Karnataka State Pollution Control Board (KSPCB)at 03 locations namely 1. Location 01- Halasuru Lake – near Gurudwara Temple 2. Location 01- Halasuru Lake – near Fishing Centre. 3. Location 01- Halasuru Lake – near Kalyani. The analysis reports result shows that, the water quality of Halasuru Lake conforms to designated –best-use classification Class "D" i.e. water is fit for propagation of wildlife and fisheries and E-Irrigation, Industrial cooling, Controlled Waste Disposal. Copy of the analysis reports from 01.04.2021 to 30.09.2022 are enclosed as **Annexure-IV.**
6	To ensure the implementation of notification No. FEE 316 EPC 2015, dated 19.01.2016 issued by Forest, Ecology and Environment Secretariat with respect to installation of Sewage Treatment Plant and reuse of treated sewage	KSPCB	Gurudwara was once again inspected by the officers of KSPCB and drawn Mahazar on 04.08.2022. During the inspection continuation of construction activity was observed. Hence, KSPCB has issued show cause notice on 03.10.2022 and informed to apply & obtain Consent from the Board immediately also in the show cause notice itself, the Gurudwara authority were informed to submit their response to the observations/recommendations made in the joint committee report within 07 days on 03.10.2022. But, till 27.10.2022, the Gurudwara authority have neither submitted reply nor applied for Consent. Hence, a reminder show cause notice was issued on 27.10.2022 and informed to submit the reply within 03 days. Then also, the Gurudwara authority has not submitted reply. Hence, Regional office (RO), Bengaluru City East has recommended to Regional Senior Environmental officer (RSEO), Bengaluru city to issue Notice of Proposed Directions (NPD) on 31.10.2022. Hence, RSEO, Bengaluru city has issued NPD under Section 33(A) of the Water (Prevention and Control of Pollution) Act, 1974 read with rule 34 of the Karnataka State Board for the Prevention and Control of Water Pollution

			(Procedure for Transaction of Business) and the Water (Prevention and Control of Pollution) Rules, 1976. **Reply submitted by Gurudwara Authority** In response to the show cause notice, the Gurudwara authorities have submitted reply to Regional office, Bengaluru City East, KSPCB on 31.10.2022 and the same is received by Regional office, Bengaluru City East, KSPCB on 02.11.2022 and stated the followings; • Total built up area of the Gurudwara Sri Guru Singh Sabha which is getting renovated is less than 5000 sq.mt. • Gurudwara is a located downstream of the Ulsoor lake and water flow will not affect the flow of the lake in the storm water drain during rainy season. • It is also intimated that, floating devotees come and pay respect for a short period and leave the premises. Only few staff to look after the premises stay, hence, STP is not required. Copy of the reply submitted by the Gurudwara authority to the show cause notice is enclosed as **Annexure-V.** The Gurudwara authorities have also submitted reply to the NPD issued by KSPCB on 02.11.2022 and same is received by Regional office, Bengaluru City East, KSPCB on 02.11.2022 and stated the followings; • Gurudwara is registered under Sikh Gurudwara Act 1925 and also under registration of Society Act XXI of 1960 and this Guru singh Sabha is existing since 1941 and is established for convenience of devotees and school students. • Now started to expand the Gurudwara by modifying existing building for providing few rooms, kitchen langar area for our pilgrims and the expansion activity of about 4000 Sq.mt area and

			not more than that. • Further, they have reported that, they have executed registered lease deed on 11.01.1980 in favour of Guru Singh Sabha for land measuring 8284 Sq.ft over the municipal drain behind the existing building for a period of 50 years on lease on payment of Rs.200/- as lease amount/annum and permitted to use the scheduled land only for its purpose by covering the drain with RCC vide approval on 08.04.1983. • Also vide BBMP order dated 29.05.1996 the approval had given to cover the storm water drain which is located adjacent to Gurudwara for the purpose of multi-level vehicle parking and to facilitate devotees to utilize the area during festivals and other functions. • Further, the Gurudwara is running a Guru Harikishan public school from 1st to 10th Standard accommodating about 550 students from backward, down toddler's classes with free education & food and this school is constructed by extending the roof cover SWD at first floor level by making provision for free flow of water in the SWD. • Whereas, the Gurudwara is built at the downstream of the Halasuru lake and the proposed expansion built-up area is less than 5000 Sq. mt. Copy of building plan is enclosed. **However, the building plan submitted by the Gurudwara is not approved by the competitive authority i.e BBMP.** • Whereas, the Gurudwara is non-profit making organizations and not provide any sewage treatment plant and location have the full pledge underground sewage system provided by BWSSB. • Whereas, the Gurudwara authority reported that they will obtain necessary permission from BWSSB and we have good sewer line and also the generated sewage will be discharging into

			BWSSB sewer line, same will be treated BWSSB terminal sewage treatment plant and will not pollute at any point of time. • As expansion activity is less than 5000 Sqmt and hence we are exempted from the notification vide No. FEE 316 EPC 2015 dated 19-01-2016 i.e. institutions/education institutions with or without hostel facility having built-up area of 5000 Sq.mt and above shall install Sewage Treatment Plant. Copy of the reply to the NPD is enclosed as **Annexure-VI.**
	As per the directions of Hon'ble NGT order dated 27.07.2022. It was directed to send the report of the Joint committee to the Chairman, State Wetland authority and requiring them to file their response to observations/recommendations made in the Joint Committee report.	Chairman, State Wetland Authority	As per the directions of Hon'ble NGT order, the Joint Committee report was sent to the Chairman, State Wet Land authority on 10.10.2022 to file their response to observations/recommendations made in the Joint Committee report within 07 days. But, they have not submitted a reply; hence, reminder letter was addressed on 27.10.2022. Reply has to be submitted by the State Wetland Authority.
Additional Information			
	Encroachment of Storm Water Drain by the Gurudwara authority.	BBMP, SWD	Chief Engineer, SWD, East Division vide their letter dated 15.02.2021 has reported to the Joint Commissioner BBMP, East division that the Gurudwara Sri Guru Singh Sabha has encroached the Storm water drain and they have erected the unscientific RCC columns for the expansion activity and also they have erected the RCC slab by covering the storm water drain which is violation of Hon'ble NGT directions and in their letter, they have requested the Joint Commissioner, BBMP, East division to issue directions to the concerned chief engineer/s to take necessary action with respect to removal encroachment of storm water drain which is encroached by the Gurudwara. Copy of the letter is enclosed as **Annexure-VII.** With respect to the above, the Chief engineer, SWD has addressed a letter dated 20.06.2022 to

			Technical assistant to Deputy Commissioner & Deputy Director, Surveyor regarding demarcation of boundary of storm water drain by Gurudwara. Copy of the letter is enclosed as **Annexure-VIII.** Further, Chief engineer, SWD, East division has addressed a letter to the Revenue Officer, Bengaluru Metropolitan Task Force (BMTF) and requested to remove the encroachment of storm water drain by the Gurudwara. After boundary fixation by the surveyor the same may be referred to concerned regional engineer to remove the encroachment of storm water drain. Copy of the letter is enclosed as **Annexure-IX.**

It is respectfully submitted that, KSPCB will be oblige to provide any additional information if so required by this Hon'ble Tribunal and we hereby submit this report for kind consideration.

Environmental officer
and Member Convener
w.r.t NGT OA No. 308 of 2022
RO, Bangalore City East, KSPCB

Senior Environmental Officer, KSPCB
Bangalore and Joint Committee Member

Annexure – I

BRUHAT BANGALORE MAHANAGARA PALIKE

No.EE/SWD/East/PR/447/22-23

Office of the Executive Engineer
S.W.D (East Zone),
BBMP, 9th Floor, shopping complex,
Jayanagar 4th block, Bangalore-560 011
Date:02-11-2022

To,
Environmental Officer
Bangalore City East,
Karnataka State Pollution Control Board

Dear Sir,

Sub: To file response to observations/ recommendations made in the Joint committee report w.r.t. NGT OA No:308 of 2022 reg.

Ref: 1) Your office letter no:KSPCB/BCE/2022-23/957 Dtd:27-10-2022
2) ವಿಶೇಷ ಆಯುಕ್ತರು (ಯೋಜನೆಗಳು) ರವರ ಪತ್ರ ಸಂಖ್ಯೆ:ವಿ.ಆ(ಯೋ)/ಪಿ.ಆರ್/1465/22–23
3)ಈ ಕಛೇರಿಯ ಪತ್ರದ ಸಂಖ್ಯೆ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ/ಪೂರ್ವ/ಪಿ.ಆರ್/86/2020–21
ದಿನಾಂಕ:15/02/2021
4)ಈ ಕಛೇರಿಯ ಪತ್ರದ ಸಂಖ್ಯೆ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ/ಪೂರ್ವ/ಪಿ.ಆರ್/191/2022–23
ದಿನಾಂಕ:20/06/2022
5)ಈ ಕಛೇರಿಯ ಪತ್ರದ ಸಂಖ್ಯೆ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ/ಪೂರ್ವ/ಪಿ.ಆರ್/415/2022–23
ದಿನಾಂಕ:27/09/2022

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With reference to the above subject as per the Hon'ble NGT interim order dated 27-07-2022. The response to the observations/recommendations made in the Joint committee was to be submitted for further hearing on 10-11-2022.

The parawise reply for the compliance of Joint Committee Inspection Report, Photo copies of reminder letter address to the President of Gurudwara for providing trash barrier in Gurudwara premises, Photos of trash barrier already provided in SWD and copy of Estimate for providing trash barriers and silt traps is submitted for your kind information and further needful.

Thanking You.

Yours Faithfully

Executive Engineer
Storm Water Drain
East Zone

2/11/2022

Annexure -I

Measures undertaken / implemented by BBMP as per the directions of Hon'ble NGT Principal Bench of OA No:308/2022

Sl. No	Suggestions of the Joint Committee inspection dated:23-06-2022	Reply/ Compliance
1.	Frequent cleaning of accumulated debris/ solid waste from the storm water drain.	The recommendation of Joint Committee is complied. The debris and silt is being regularly removed by AMC of SWD(Photos enclosed).
2.	To provide / install Trash barrier to the entry point of storm water drain located at Gurudwara.	This subject pertains to Gurudwara authority. A reminder letter has been sent on 29-09-2022 by EE, SWD, East Zone to The President of Gurudwara for its compliance(Letter enclosed).
3.	Installation of designed appropriate to screen to arrest entry floating debris into the drain at different locations before entering to water from SWD located at Gurudwara.	A trash barrier has already been installed at Assaye road, Ganesha temple junction(Photo enclosed). The provision of 8 no's of trash barriers/screen and 8 no's silt traps have been made in the estimate which are already tendered. The locations are marked in the map enclosed.
4.	Stoppage of sewage entering into the drain by identifying missing links of lateral sewer lines which are to be connected to the storm water drain.	BWSSB to submit compliance as respondent.
	Regular monitoring of Halasuru Lake	KSPCB to submit compliance as respondent.
5.	To ensure the implementation of notification No.FEE316 EPC 2015, dated: 19-01-2016 issued by Forest. Ecology and Environment Secretariat with respect to installation of sewage Treatment Plant and reuse of treated sewage.	KSPCB to submit compliance as respondent.

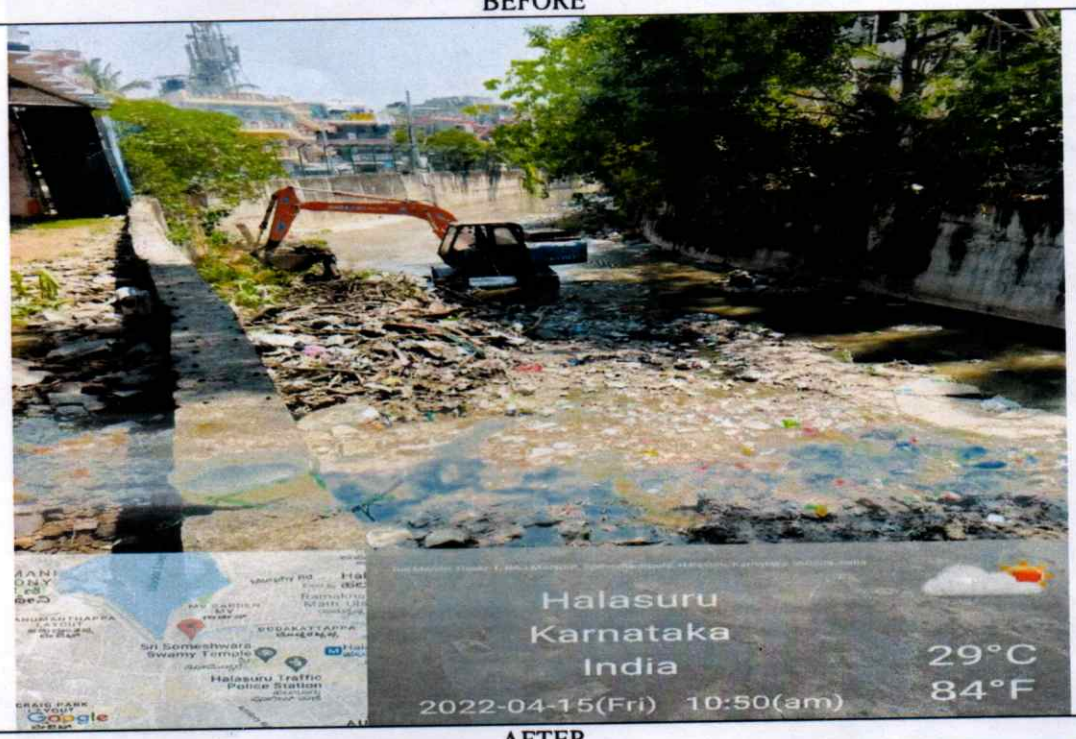
Chief Engineer
Storm Water Drain
BBMP

Annexure-I

EAST ZONE

C100 (Gurudwara halsuru)

BEFORE



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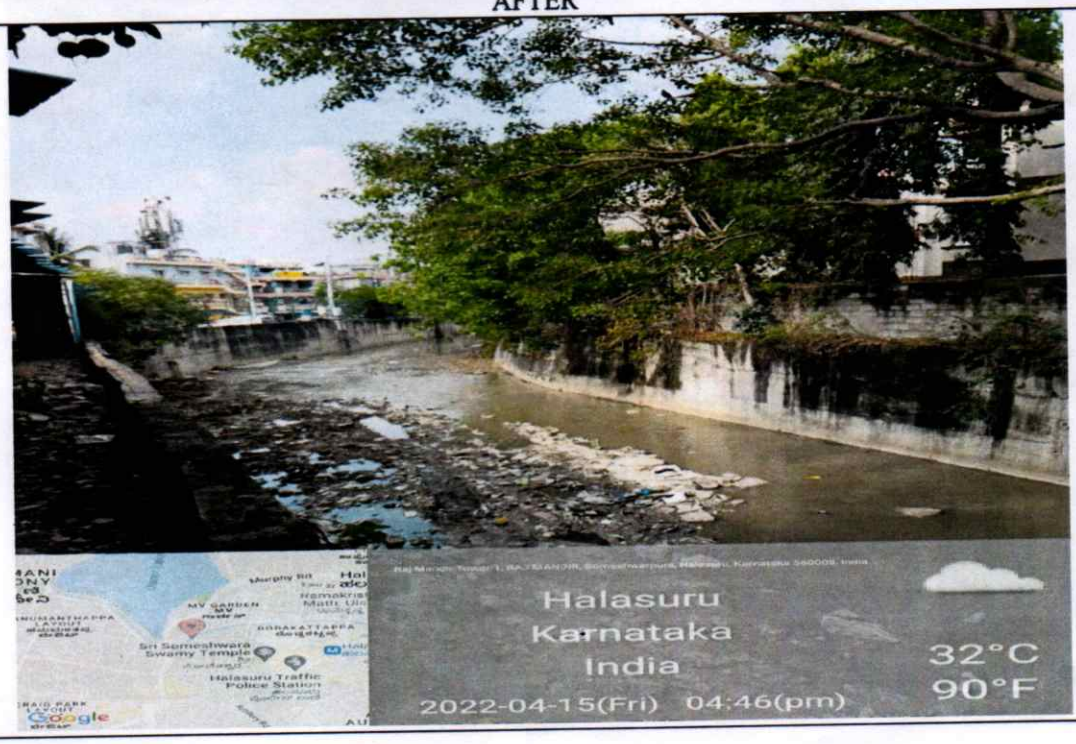

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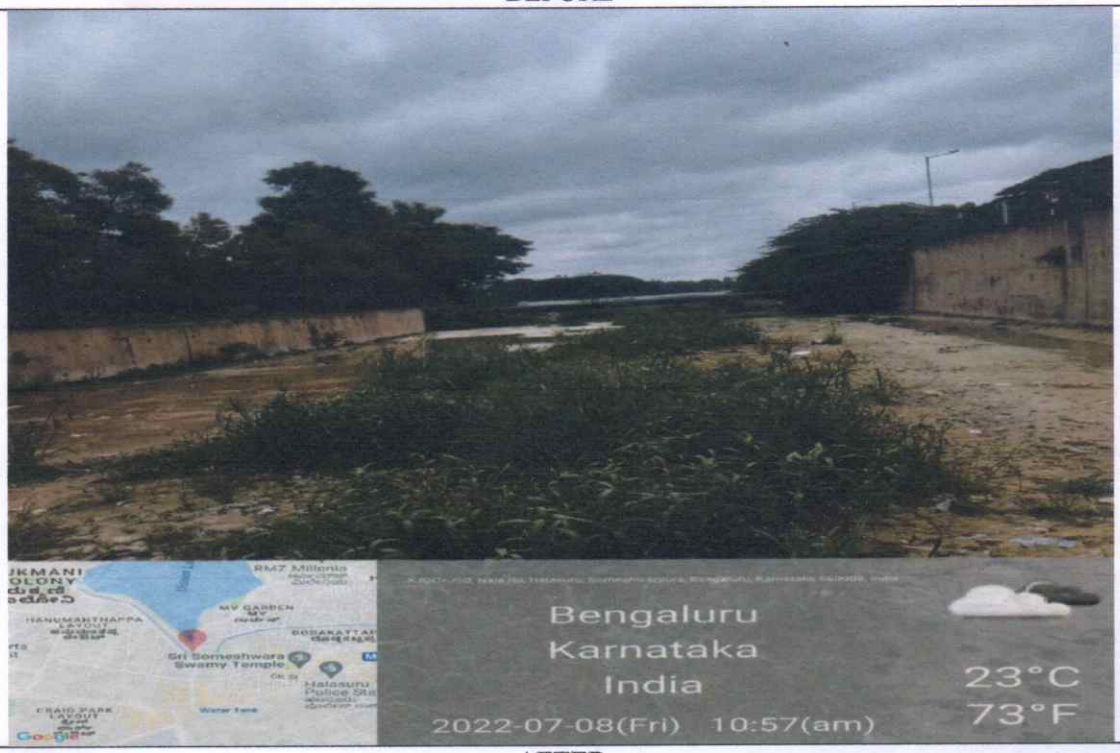
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

EAST ZONE

C-100 (Gurudwara)

BEFORE



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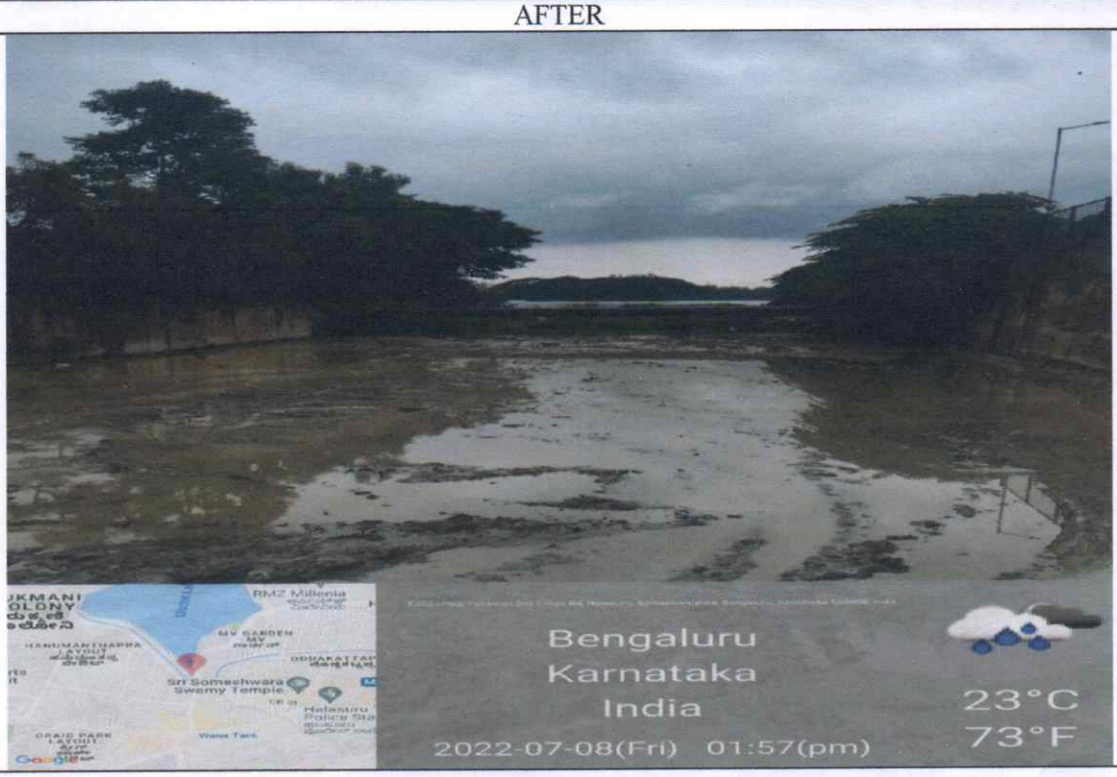

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ಬೃಪತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

EAST ZONE

C-100 (Gurudwara)

BEFORE

AFTER

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ-ಮೂರ್ವ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

EAST ZONE

C-200 (Fraser Town)

BEFORE

AFTER

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಸೃತ್ತ ಮಳೆನೀರುಗಾಲುವೆ-ಪೂರ್ವ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Annexure -I

EAST ZONE

C-200 (Fraser Town)

BEFORE

AFTER

ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ-ಮೇಲ್ವಿಚಾರಣೆ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Annexure-I

EAST ZONE

C-200 (komala junction)

BEFORE

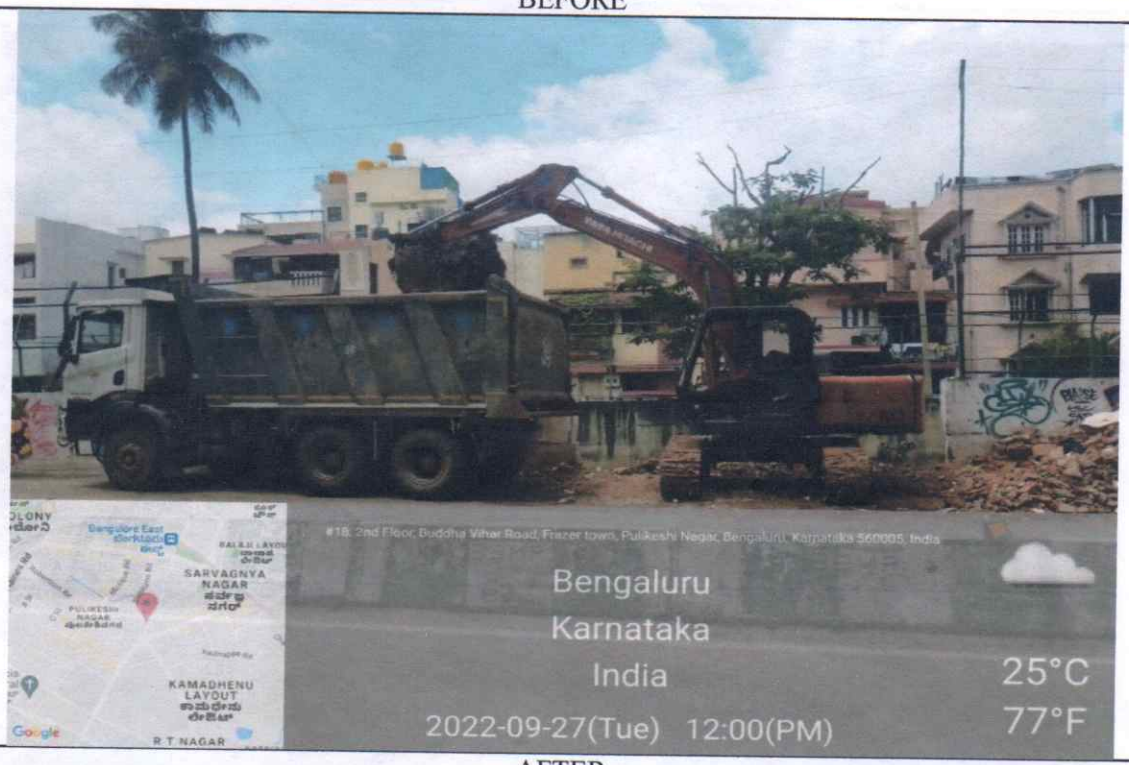
AFTER

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

EAST ZONE

C-200 (komala junction)

BEFORE



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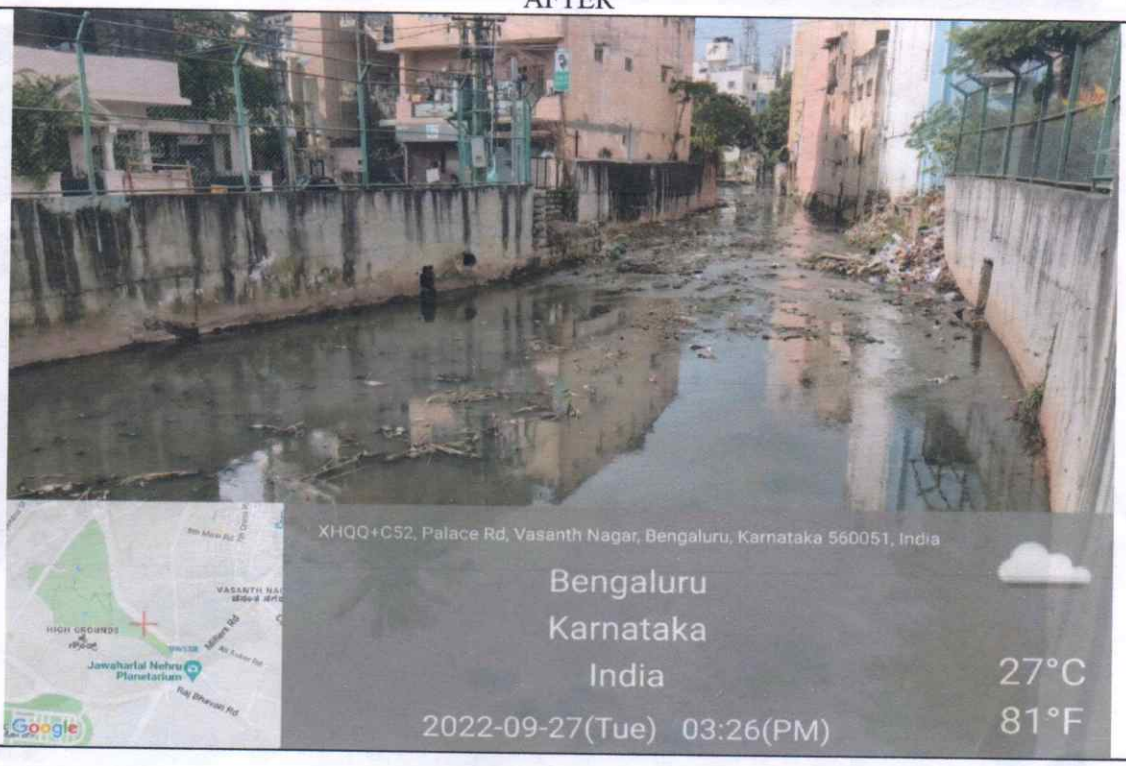


RBanch

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ–ಪೂರ್ವ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

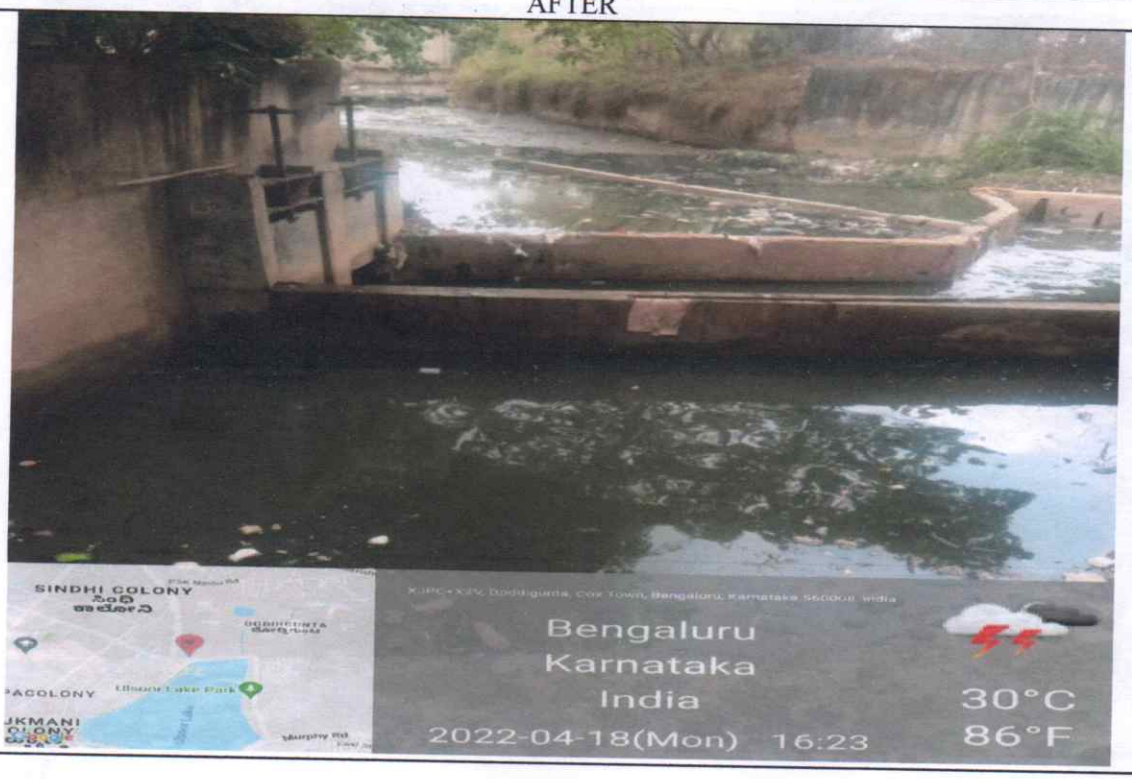
Annexure-I

EAST ZONE

C200 (Komala Junction)

BEFORE

AFTER



ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ-ಪೂರ್ವ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

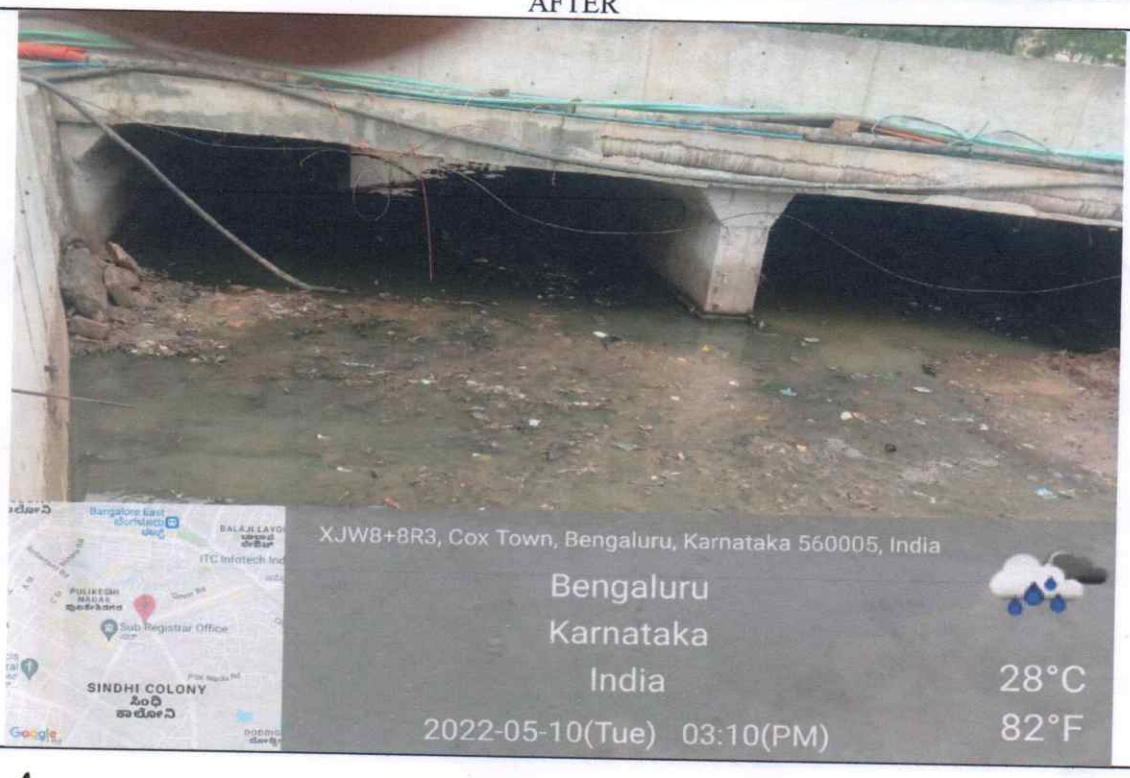
Annexure -I

EAST ZONE

C-100 (komala junction)

BEFORE

AFTER



ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ-ಪೂರ್ವ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Annexure-I

EAST ZONE

C-200 (komala junction)

BEFORE

AFTER

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಹಚ್ ಮಳೆನೀರುಗಾಲುವೆ-ಪೂರ್ವ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Annexure- II

BRUHAT BANGALORE MAHANAGARA PALIKE

No.EE/SWD/East/PR/443/22-23

Office of the Executive Engineer
S.W.D (East Zone),
BBMP, 9th Floor, shopping complex,
Jayanagar 4th block, Bangalore-11
Date:19-10-2022

To,
The President
Halasuru Gurudwara,
Guru singh sabha , Ulsoor,
Bangalore-560008

Dear Sir,

Sub: Providing/installation of trash barriers to the entry point of SWD located at Gurudwara.

Ref: 1) Honorable NGT OA No:308/2022
2) This Office Letter No:EE/SWD/East / PR/431/22-23 Dated:29-09-2022
3) Head of Legal Cell Office Letter No: BBMP/LC/CR/5165/2022-23 Dated:13-10-2022

******

With respect to the above subject, as per the directions of Honorable National Green Tribunal, Principle Bench the Joint Committee inspected the Gurudwara area on 23-06-2022 and has submitted the compliance report vide email dated:06-07-2022. In the recommendation of the Joint Committee, the committee has opined short/medium and long term remedial measures. The Joint Committee discussed in detail and recommended for long term remedial measure of "To provide/install Trash barrier to the entry point of Storm Water Drain located at Gurudwara". The compliance to the above measure is to be taken by the Gurudwara authority, which was conveyed to you vide reference letter (2) and till date no action is taken in this regard.

Hence as per the reference mentioned it is once again requested you to comply with the directions of the Honorable National Green Tribunal, Principle Bench the Joint Committee within a week of receipt of letter as the next hearing is scheduled on 10-11-2022.

Thanking You.

Yours Faithfully

Executive Engineer
Storm Water Drain
East Zone

Annexure - II

BRUHAT BANGALORE MAHANAGARA PALIKE

No.EE/SWD/East / PR/431/22-23

Office of the Executive Engineer
S.W.D (East Zone),
BBMP, 9th Floor, shopping complex,
Jayanagar 4th block, Bangalore-11.
Date:29-09-2022

To,
The President
Halasuru Gurudwara,
Guru singh sabha , Ulsoor,
Bangalore-560008

Dear Sir,

Sub: Providing/installation of trash barriers to the entry point of SWD located at gurudwara.
Ref: Honorable NGT OA No:308/2022

******

With respect to the above subject, as per the directions of Honorable National Green Tribunal, Principle Bench the Joint Committee inspected the gurudwara area on 23-06-2022 and has submitted the report of compliance vide email dated:06-07-2022. In the recommendation of the Joint Committee has derived certain short/medium and long term remedial measures. The Joint Committee disused in detail and recommended for long term remedial measure of "To provide/install Trash barrier to the entry point of Storm Water Drain located at Gurudwara". The compliance to the above measure is to be taken by the Gurudwara authority. Hence as per the reference mentioned it is requested to comply with the directions of the Joint Committee at the earliest.

Thanking You.

Yours Faithfully

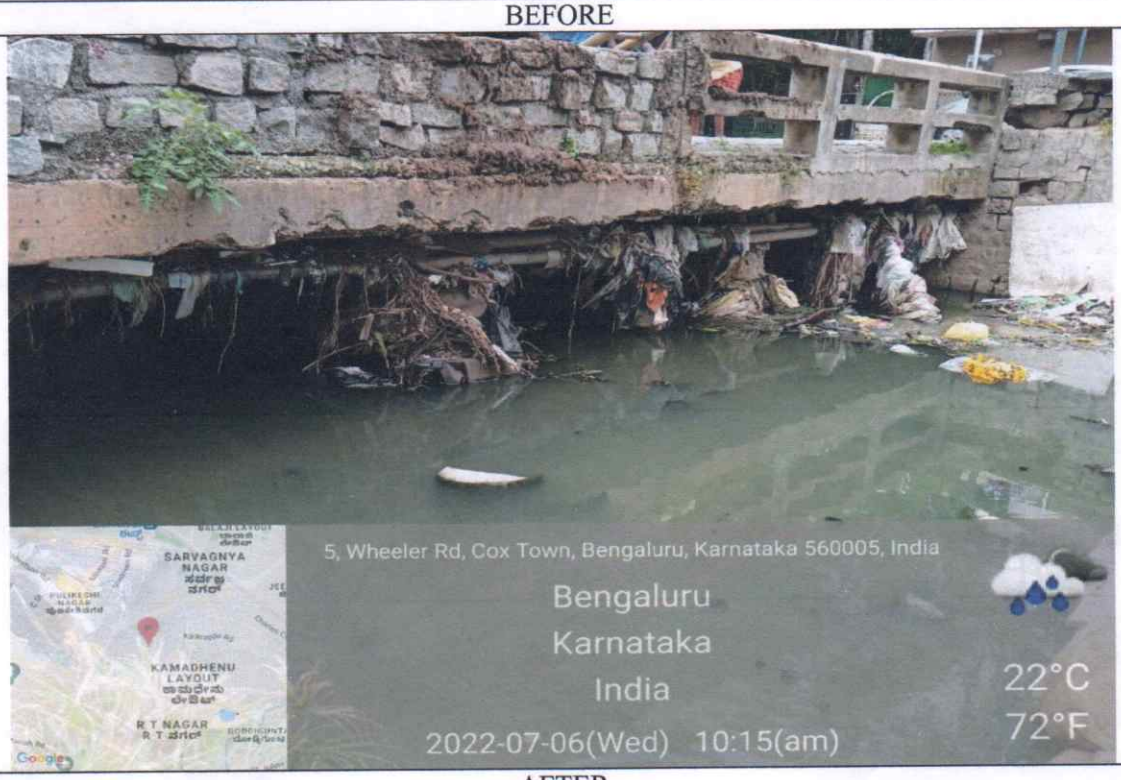
Executive Engineer
Storm Water Drain
East Zone

Annexure-III (A)

EAST ZONE

C-200 (Assaye Road)

BEFORE



AFTER

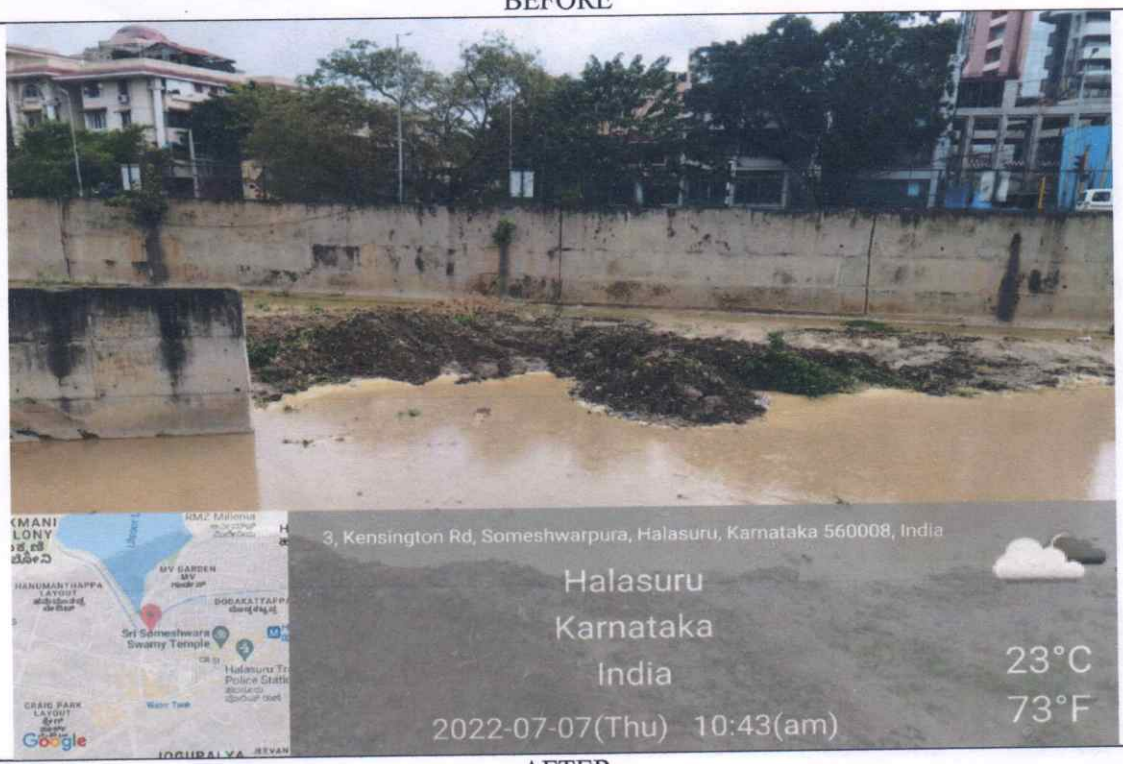
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ-ಪೂರ್ವ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Annexure -III (A)

EAST ZONE

C-100 (Gurudwara)

BEFORE



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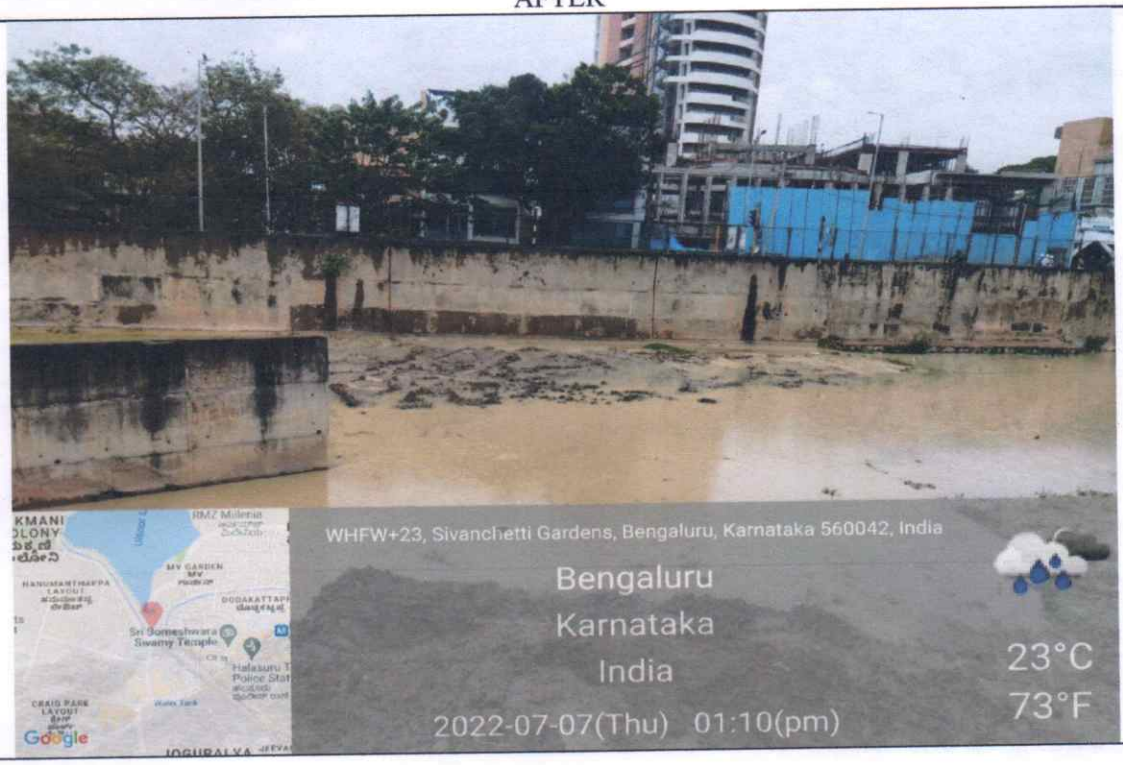


ಮುಖ್ಯ ಅಭಿಯಂತರರು-ಪೂರ್ವ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Annexure-III (A)

EAST ZONE

C-200 (Assaye Road)

BEFORE

AFTER

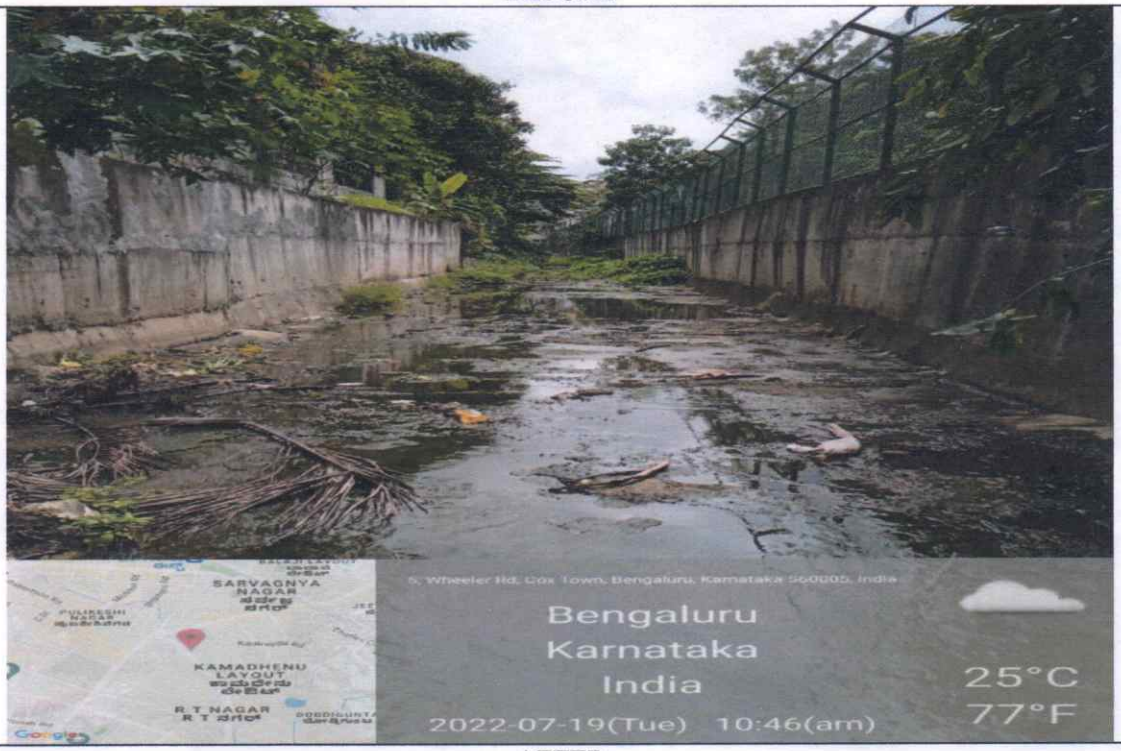
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ-ಮೂಪ್ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Annexure-III(A)

EAST ZONE

C-200 (Assaye road)

BEFORE



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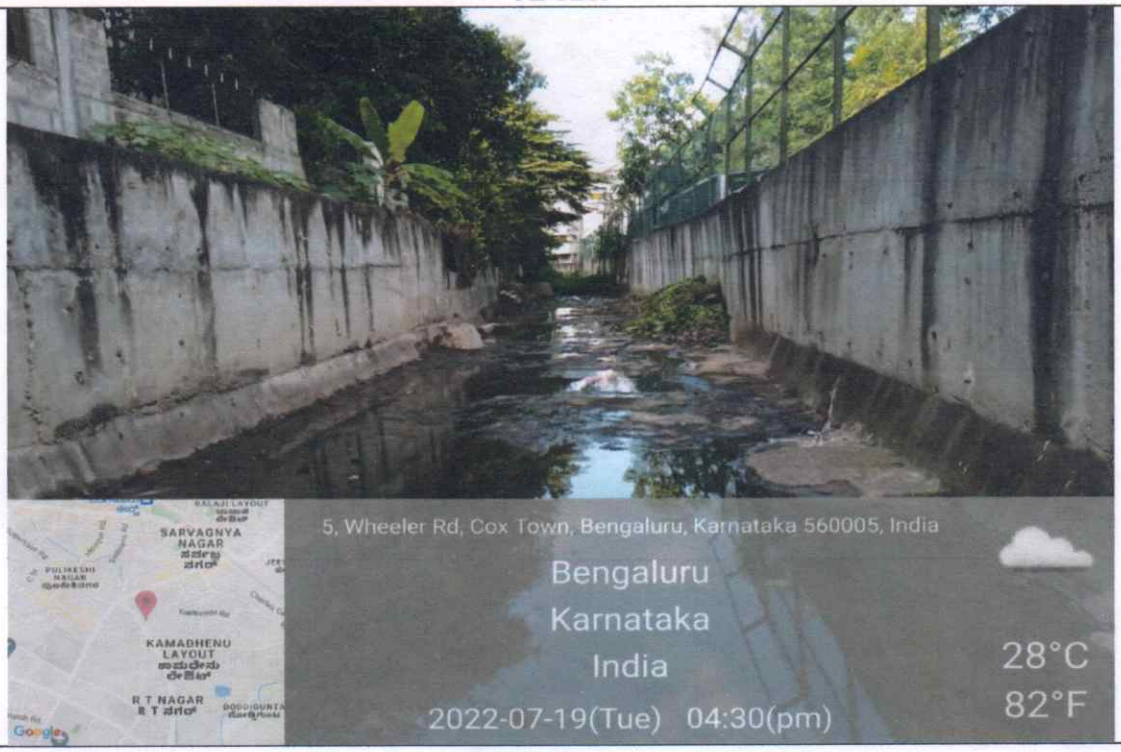


RBeesh
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ-ಪೂರ್ವ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

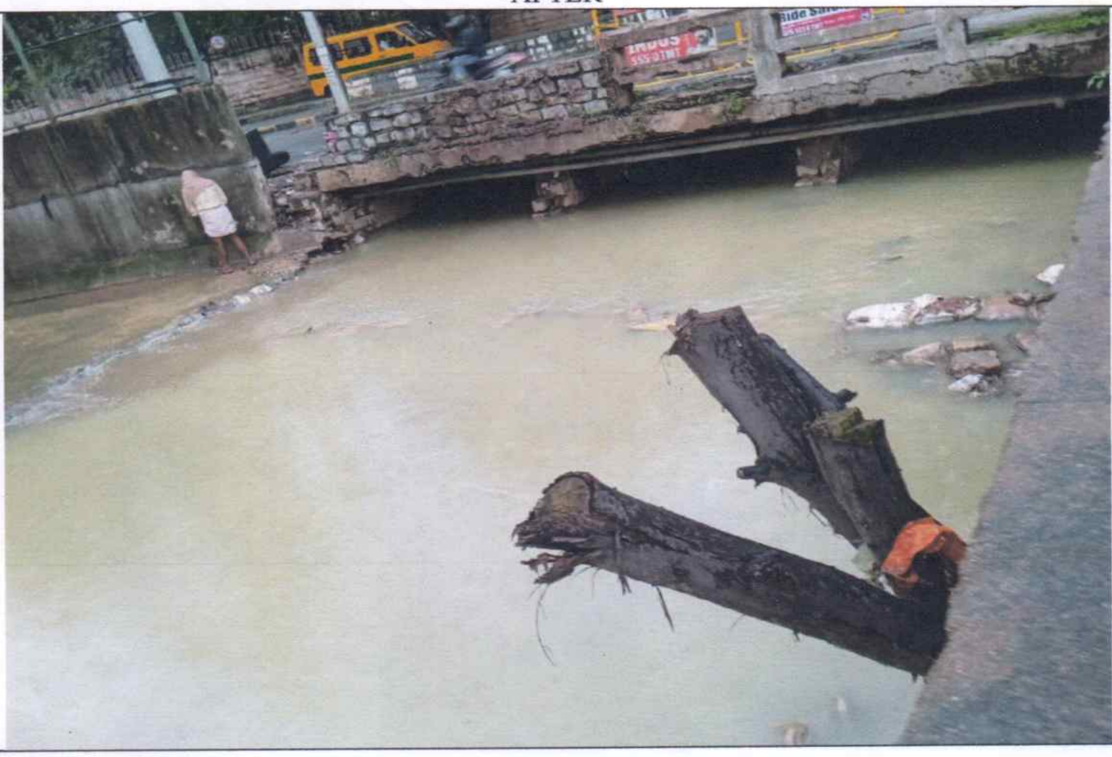
Annexure -III(A)

EAST ZONE

C-200 (Assaye road)

BEFORE

AFTER

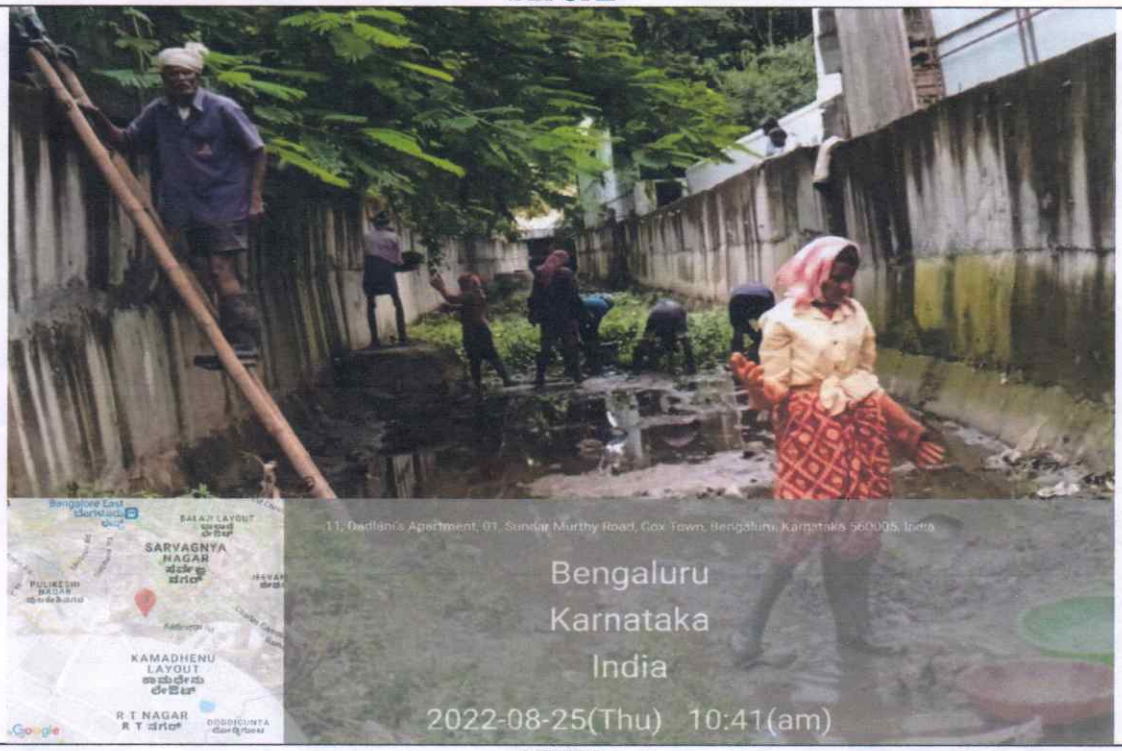


ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ-ಪೂರ್ವ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

EAST ZONE

C-100 (Assaye road)

BEFORE



AFTER

Annexure – III (B)

BRUHATH BANGALORE MAHANAGARA PALIKE

DETAILED PROJECT REPORT- ESTIMATION

East Zone - Shivajinagar Constituency

Name of Work: silt traps,trash barriers and other facilities to avoid contamination of Ulsoor lake as per NGT orders (C-100 -Broad Bridge , Kamaraja Bridge, RBANMS College and Ulsoor Lake Outlet Gurudwara) (C-200 - Ramaswamy Palya, Pottery Town, Komala Junction and Assaye Road)

Sl No.	Description of Work	Unit	Nos	L	B	D	Qty.	Rate in Rs	Amount in Rs
	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead Item no-2.8 (ii) By Mechanical Means. **B Prestressed / RCC grade M-20 & above**								
	Sl No-2.8 ii A, PWD SR 2021-22 Vol-3, Page No. 8								
	Basic Rate							1204.00	
	Add 10 % AW							120.40	
	Total							1324.40	
	Existing RCC Raft								
1	**C-100**								
	Broad Way Bridge		1	10.00	4.5	0.30	13.50		
	Kamaraja Bridge		1	10.00	4.5	0.30	13.50		
	RBANMS College		1	10.00	4.5	0.30	13.50		
	Ulsoor Lake Outlet Gurudwara		1	10.00	4.5	0.30	13.50		
	C-200								
	Ramaswamy Palya		1	10.00	4.5	0.30	13.50		
	Pottery Town		1	10.00	4.5	0.30	13.50		
	Komala Junction		1	10.00	4.5	0.30	13.50		
	Assaye Road		1	10.00	4.5	0.30	13.50		
			Total Qty				**108.00**	**1324.40**	**143035.20**
	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthern bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 5.0 to 9.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)								
	SR, 2021-22 : Page No.153, Item No.21-E 3								
2	Basic Rate							175.00	
	Add 10 % AW							17.50	
	Total item Rate							192.50	
	For Silt Trap								
	For Diversion		80/250*30*8				76.80		
			Total Qty				**76.80**	**192.50**	**14784.00**
	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work In all kinds of soils Depth upto 3 m								
	SL No 1.14.1 PWD SR 2021-22, Vol-1, Page No. 8								
3	Basic Rate							73.00	
	Add 10 % AW							7.30	
	Total							80.30	
	For Silt Trap								
	For Excavation		8	10.00	5.10	2.95	1203.60		
	For Excavation Slope Portion		8	10.00	2.00	0.65	104.00		
			Total Qty.				**1307.60**	**80.30**	**105000.28**
	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.								
	6.4, PWD SR 2021-22 1st addenda (21.04.2022)								
4	Basic Rate							2561.00	
	Add 10 % AW							256.10	
	Total							2817.10	
	For Silt Trap								
	Silt trap		8	10.00	5.10	0.30	122.40		
	For Slope Portion		8	10.00	2.00	0.30	48.00		
			Total Qty.				**170.40**	**2817.10**	**480033.84**

o.	Description of Work	Unit	Nos	L	B	D	Qty.	Rate in Rs	Amount in Rs
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) **Mix 1:3:6 (M10)** Using 20 mm nominal size graded crushed coarse aggregates								
	Sl No :2.1.4. PWD SR 2021-22 Vol -1, Page No. 15								
							Basic Rate	5926.00	
							Add 10 % AW	592.60	
							Total	6518.60	
	For Silt Trap								
	Silt Trap		8	10.00	5.10	0.15	61.20		
	For Slope Portion		8	10.00	2.00	0.10	16.00		
				Total Qty.			**77.20**	**6518.60**	**503235.92**
6	Providing and laying in Reinforced cement concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M25 Design Mix** Using 20 mm nominal size graded crushed coarse aggregates **Raft**								
	2.3.2 PWD SR 2021-22 Vol-1, Page No.16								
							Basic Rate	6288.00	
	PWD SR 2021-22 Vol -1, Appedix-1 Additionalities for formwork, Centring & Scaffolding, Sl No 03, 4% of Concrete Qty, Page No. 115							251.52	
							Sub Total	6539.52	
							Add 10 % AW	653.95	
							Total	7193.47	
	For Silt Trap								
	Silt Trap		8	10.00	5.10	0.30	122.40		
				Total Qty.			**122.40**	**7193.47**	**880480.97**
7	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M25 Design Mix** Using 20 mm nominal size graded crushed coarse aggregates **Wall**								
	2.4.3, PWD SR 2021-22 Vol-1, Page No.16 & 17								
							Basic Rate	6299.00	
	PWD SR 2021-22 Vol -1, Appedix-1 Additionalities for formwork, Centring & Scaffolding, Sl No 09, 10% of Concrete Qty, Page No. 115							629.90	
							Sub Total	6928.90	
							Add 10 % AW	692.89	
							Total	7621.79	
	For Silt Trap								
	Silt Trap (Down Stream Wall)		8	10.00	0.30	1.50	36.00		
	Silt Trap (Up Stream Wall		8	10.00	0.30	1.50	36.00		
				Total Qty			**72.00**	**7621.79**	**548768.88**
9	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) **M30 Design Mix** Using 20 mm nominal size graded crushed coarse aggregates **Slab**								
	2.5.3, PWD SR 2021-22 Vol-1, Page No. 17								
							Basic Rate	7022.00	
	PWD SR 2021-22 Vol -1, Appedix-1 Additionalities for formwork, Centring & Scaffolding, Bridge Sl No 01, 20% of Concrete Qty, Page No. 116							1404.40	
							Sub Total	8426.40	
							Add 10 % AW	842.64	
							Total	9269.04	
	For Silt Trap								
	Silt Trap (UP Stream Slope Slab)		8	10.00	2.00	0.30	48.00		
				Total Qty			**48.00**	**9269.04**	**444913.92**

.o.	Description of Work	Unit	Nos	L	B	D	Qty.	Rate in Rs	Amount in Rs
10	Supplying, Fitting and Placing un-coated TMT Fe 550 bar Reinforcement in Foundation complete as per Drawing and Technical Specifications.								
	12.55, PWD SR 2021-22 (issue rate as on (08.04.2022) Vol 3, Page No.96								
								Basic Rate	103931.00
								Add 10 % AW	10393.10
								Total	114324.10
	For Silt Trap								
	Silt Trap			60 Kg/Cum For Raft			7.34		
				Total Qty			**7.34**	**114324.10**	**839596.19**
11	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in **sub-structure** complete as per Drawing and Technical Specifications.								
	13.1, PWD SR 2021-22 (issue rate as on (08.04.2022) Vol 3, Page No.99								
								Basic Rate	103329.00
								Add 10 % AW	10332.90
								Total	113661.90
	For Silt Trap								
	Silt Trap Wall			60 Kg/Cum For wall			4.32		
	Silt Trap UP Streem Slope Slab			60 Kg/Cum For Slab			2.88		
				Total Qty.			**7.20**	**113661.90**	**818365.68**
13	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3)								
	Sl No 1.1 (C), PWD SR 2021-22, Vol-3, Page No. 3								
								Basic Rate	74.00
	Taking output 18t load and lead 10 km=180t.km Average weight of earth 10Tonne/Km for 10 Km (18*10*7/14)								90.00
								Total	164.00
								Add 10 % AW	16.40
								Total	180.40
	Silt Trap								
				Qty Vide Item No 1			108.00		
				Qty Vide Item No 3			1307.60		
				Total Qty.			**1415.60**	**180.40**	**255374.24**
16	Trash Barrier								.
								Data Rate	425,000.00
	For Silt Trap	No							
	Silt Trap Wall		8				8.00	**425000.00**	**3400000.00**
								Total Amount in Rs	**8,433,590.00**

Consultant

Assistant Executive Engineer
SWD, East Zone

Assistant Engineer
SWD, East Zone

Executive Engineer
SWD, East Zone

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ-ಪೂರ್ವ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Monitoring Results of Ulsoor Lake

Sl. No.	Parameters	01.04.2021 (Accredited Parameters)			01.04.2021 (Non-Accredited Parameters)			03.05.2021			08.06.2021		
		Lake water Near Fishering Center	Lake Water Near Temple	Lake water Near Kalyani	Lake water Near Fishering Center	Lake Water Near Temple	Lake water Near Kalyani	Lake water Near Fishering Center	Lake water	Lake water Near Kalyani	Lake water Near Fishering Center	Lake water Near Temple	Lake water Near Kalyani
	Physical Parameters												
1	pH	7.2	7.0	7.0				7.1	7.0	7.0	8.2	8.0	7.7
2	Total Suspended Solids												
3	Total Dissolved Solids	292.0	290.0					280.0	278.0		242.0	252.0	
4	Turbidity	2.3	2.1					43.2	39.8		2.3	0.9	
5	Conductivity	425.0	424.0	427.0				400.0	398.0	389.0	356.0	363.0	333.0
6	Suspended Solids												
7	**Chemical Parameters**												
8	BOD (3 days @ 27^0 C)	5.0	5.0	6.0				7.0	6.0	7.0	3.0	3.0	5.0
9	Dissolved Oxygen	5.7	5.6	5.0				6.8	7.0	6.2	6.6	6.4	5.4
10	Sodium Absorption Ratio						2.1			2.7			2.04
11	COD	64.0	64.0					72.0	64.0		44.0	40.0	
12	Oil & Grese												
13	Sulphate	12.0	12.0					15.0	15.0		21.0	25.0	
14	Chloride	80.0	76.0					80.0	76.0		124.0	168.0	
15	Nitrate as NO_3				1.12	1.1		1.6	1.4		1.14	1.1	
16	Hardness as $CaCO_3$	116.0	108.0					68.0	64.0		136.0	144.0	
17	Calcium as CaCO3	72.0	64.0					36.0	36.0		76.0	80.0	
18	Magnesium as MgCO3				10.69	10.7		32.0	28.0		15.0	15.0	
19	Boron				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
20	Total Kjedal Nitorgen												

Sl. No.	Parameters												
	Physical Parameters												
21	Ammonical Nitorgen	0.2	0.2					0.4	0.31		0.212	0.3	
22	Potassium	5.0	3.0					9.0	9.0		5.0	5.0	
23	Phosphate				0.15	0.2		0.22	0.1		BDL	BDL	
24	Fluoride	0.49	0.4					0.15	0.2		0.5	0.6	
25	Phenolphthlein Alkalinity				Nil	Nil		Nil	Nil		Nil	Nil	
26	Total Alkalinity	108.0	112.0					60.0	56.0		164.0	152.0	
27	Sodium	63.0	49.0					48.0	48.0		59.0	59.0	
28	Free Ammonia						0.001			BDL			0.006
29	Cyanide												
	Heavy Metals												
30	Total Chromium				BDL	BDL							
31	Lead				BDL	BDL							
32	Copper	0.003	0.0										
33	Zinc	0.022	0.0										
34	Iron	1.1450	0.8										
35	Nickel	0.0040	0.0										
36	Cadmium				BDL	BDL							
	Biological Parameters												
37	Total Coliform	1600 x10^3	350 x 10^3	540 x 10^3				350 x 10^2	240 x 10^2	350 x 10^2	350 x 10^2	1600 x 10^2	350 x 10^2
38	Fecal Coliform	130 x 10^3	49 x 10^3					70 x 10^2	46 x 10^2		49 x 10^2	140 x 10^2	
39	SAR												
40	Free Ammonia												
Sl. No.	**Parameters**												
	Physical Parameters												
41	Total fixed Solids												
42	Dissolved phosphate												
43	Hexavalent chromium												
44	Mercury	0.064	0.0										
45	Manganese												

46	Arsenic												
47	Anionic Surfactants as Methylene blue active (MBA				Nil	Nil		Nil	Nil		Nil		
	Fecal streptococci				108.0	112.0		60.0	56.0		164.0	110.0	
	Bicarbonate (HCO_3)				63.0	79.0		46.0	84.0		33.0	152.0	
	Carbonate											Nil	
	Antimony (Sb)												
	Barium (Ba)												
	Cobalt(Co)												
	Strontium (Sr)												
	Colour												
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**

Monitoring Results of Ulsoor Lake

Sl. No.	Parameters	05.07.2021			28.07.2021(Accredited Parameters)			28.07.2021(Non Accredited Parameters)			10.08.2021		
		Lake water Near Fishering Center	Lake water Near Temple	Lake water Near Kalyani	Lake water Near Temple	Lake water Near Fishering Center	Lake water Near Kalyani	Lake water Near Temple	Lake water Near Fishering Center	Lake water Near Kalyani	Lake water Near Fishering Center	Lake water Near Temple	Lake water
	Physical Parameters												
1	pH	8.5	8.6	6.7	8.5	8.3	8.5				7.7	7.6	6.9
2	Total Suspended Solids				70.0	68.0	72.0						
3	Total Dissolved Solids	222.0	220.0		248.0	246.0	244.0				314.0	320.0	
4	Turbidity	8.1	0.9		58.4	60.6	59.6				40.2	39.9	
5	Conductivity	335.0	340.0	374.0	369.0	367.0	366.0				463.0	464.0	375.0
6	Suspended Solids												
7	**Chemical Parameters**												
8	BOD (3 days @ 27^0 C)	10.0	11.0	9.0	15.0	15.0	16.0				38.0	42.0	8.0
9	Dissolved Oxygen	4.2	4.4	4.1	4.2	4.1	4.4				3.4	3.3	4.7
10	Sodium Absorption Ratio			2.5									
11	COD	120.0	120.0		164.0	160.0	168.0				424.0	452.0	2.1
12	Oil & Grese												
13	Sulphate	15.0	10.0		8.0	8.0	8.0				7.0	7.0	
14	Chloride	84.0	80.0		68.0	56.0	56.0				64.0	68.0	
15	Nitrate as NO_3	2.0	1.8		3.5	3.4	3.4				1.8	2.0	
16	Hardness as $CaCO_3$	120.0	124.0		108.0	80.0	76.0				96.0	92.0	
17	Calcium as CaCO3	80.0	64.0		68.0	48.0	44.0				60.0	60.0	
18	Magnesium as MgCO3	40.0	60.0		9.7	7.7	0.1				9.0	7.8	
19	Boron	BDL	BDL	BDL	BDL	BDL	BDL				BDL	BDL	BDL
20	Total Kjedal Nitorgen				0.35	0.3	0.2						

Sl. No.	Parameters												
	Physical Parameters												
21	Ammonical Nitorgen	0.4	0.2		0.3	0.2	0.14				BDL	BDL	
22	Potassium	8.0	4.8		17.0	17.0	17.0				24.0	24.0	
23	Phosphate	0.2	0.2		BDL	BDL	BDL				BDL	BDL	
24	Fluoride	0.2	0.3		0.1	0.1	0.1				0.5	0.4	
25	Phenolphthlein Alkalinity	28.0	32.0		16.0	Nil	8.0				Nil	Nil	
26	Total Alkalinity	136.0	140.0		84.0	76.0	92.0				112.0	132.0	
27	Sodium	61.0	62.0		56.0	55.0	55.0				54.0	52.0	
28	Free Ammonia			BDL									BDL
29	Cyanide												
	Heavy Metals												
30	Total Chromium				0.017	0.3	0.011						
31	Lead				0.004	0.0	0.003						
32	Copper				0.004	0.1	0.004						
33	Zinc				0.009	0.1	0.011						
34	Iron				1.361	5.8	2.2						
35	Nickel				0.009	0.1	0.011						
36	Cadmium				BDL	BDL	BDL						
	Biological Parameters												
37	Total Coliform	240 x 10^4	350 x 10^4	240 x 10^3	5400.0	1600 x 10^2	16000.0				540 x 10^3	1600 x 10^2	350 x 10^2
38	Fecal Coliform	49 x 10^4	70 x 10^4		410.0	110 x 10^2	1500.0				63 x 10^3	110 x 10^2	
39	SAR												
40	Free Ammonia												
Sl. No.	**Parameters**												
	Physical Parameters												
41	Total fixed Solids							92.0	90.0	86.0			
42	Dissolved phosphate												
43	Hexavalent chromium												
44	Mercury												
45	Manganese				0.059	0.5	7.7						

46	Arsenic												
47	Anionic Surfactants as Methylene blue active (MBA												
	Fecal streptococci												
	Bicarbonate (HCO_3)	108.0	108.0								112.0	132.0	
	Carbonate	56.0	64.0								Nil	Nil	
	Antimony (Sb)												
	Barium (Ba)												
	Cobalt(Co)												
	Strontium (Sr)												
	Colour												
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**

Monitoring Results of Ulsoor Lake

Sl. No.	Parameters	07.09.2021		12.09.201		14.09.2021		16.09.2021		19.09.2021	
		Lake water Near Kalyani	Lake water Near Kalyani	Lake water	Lake water Near Kalyani	Lake water	Lake water Near Kalyani	Lake water Near Kalyani	Kalyani water	Lake water Near Kalyani	Kalyani water
	Physical Parameters										
1	pH	8.4	7.0	8.4	6.8	8.5	6.8	8.5	6.7	8.4	6.6
2	Total Suspended Solids	42.0	34.0	72.0	40.0	88.0	24.0	42.0	44.0	14.0	6.0
3	Total Dissolved Solids	240.0	310.0	256.0	328.0	252.0	340.0	176.0	308.0	244.0	406.0
4	Turbidity	37.0	27.0	58.0	32.0	66.0	18.0	32.0	33.0	68.0	12.0
5	Conductivity	356.0	455.0	368	467.0	371.0	502.0	350.0	504.0	348.0	589.0
6	Suspended Solids										
7	**Chemical Parameters**										
8	BOD (3 days @ 27^0 C)	6.0	8.0	20.0	7.0	19.0	7.0	17.0	19.0	18.0	5.0
9	Dissolved Oxygen	4.5	4.8	2.9	4.2	4.4	5.5	1.5	1.6	1.9	5.6
10	Sodium Absorption Ratio										
11	COD	68.0	80.0	152.0	76.0	192.0	72.0	148.0	166.0	196.0	52.0
12	Oil & Grese										
13	Sulphate										
14	Chloride	64.0	80.0	68.0	60.0	52.0	56.0	64.0	68.0	56.0	60.0
15	Nitrate as NO_3										
16	Hardness as $CaCO_3$	68.0	156.0	72.0	112.0	68.0	140.0	66.0	160.0	64.0	184.0
17	Calcium as CaCO3										
18	Magnesium as MgCO3										
19	Boron										
20	Total Kjedal Nitorgen										

Sl. No.	Parameters										
	Physical Parameters										
21	Ammonical Nitorgen										
22	Potassium										
23	Phosphate										
24	Fluoride										
25	Phenolphthlein Alkalinity										
26	Total Alkalinity	80.0	164.0	72.0	96.0	76.0	104.0	76.0	132.0	80.0	104.0
27	Sodium										
28	Free Ammonia										
29	Cyanide										
	Heavy Metals										
30	Total Chromium	BDL	BDL	BDL	0.006	0.003	0.0	0.002	0.003	BDL	0.003
31	Lead	BDL	0.029	0.010	BDL	0.003	BDL	0.003	BDL	BDL	BDL
32	Copper	BDL	0.005	0.004	0.007	0.004	0.008	0.011	0.013	0.009	0.011
33	Zinc	BDL	BDL	0.014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
34	Iron										
35	Nickel										
36	Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Biological Parameters										
37	Total Coliform										
38	Fecal Coliform										
39	SAR										
40	Free Ammonia										
Sl. No.	**Parameters**										
	Physical Parameters										
41	Total fixed Solids										
42	Dissolved phosphate										
43	Hexavalent chromium										
44	Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
45	Manganese	0.1	0.257	0.187	0.377	0.060	0.367	0.083		0.067	0.3

46	Arsenic										
47	Anionic Surfactants as Methylene blue active (MBA										
	Fecal streptococci										
	Bicarbonate (HCO_3)										
	Carbonate										
	Antimony (Sb)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Barium (Ba)	0.1	0.113	0.1	0.086	0.066	0.090	0.090	0.135	0.068	
	Cobalt(Co)	BDL	BDL	BDL	0.002	BDL	0.002	BDL	BDL	BDL	BDL
	Strontium (Sr)	0.1	0.519	0.119	0.420	0.112	0.433	0.164	0.889	0.127	0.7
	Colour										
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**

Monitoring Results of Ulsoor Lake

Sl. No.	Parameters	23.09.2021			04.10.2021			08.11.2021		
		Near fishing Centre	Near Temple	Near Kalyani	Near fishing Centre	Near Temple	Near Kalyani	Near fishing Centre	Near Temple	Near Kalyani
	Physical Parameters									
1	pH	6.8	6.6	6.9	7.9	7.8	7.7	8.4	8.8	8.1
2	Total Suspended Solids									
3	Total Dissolved Solids	292.0	388.0		308.0	248.0		174.0	176.0	
4	Turbidity	36.3	13.0		8.3	9.6		50.0	52.0	
5	Conductivity	412.0	551.0	410.0	438.0	348.0	306.0	253.0	254.0	268.0
6	Suspended Solids									
7	**Chemical Parameters**									
8	BOD (3 days @ 27^0 C)	5.0	4.0	4.0	6.0	12.0	11.0	9.0	18.0	8.0
9	Dissolved Oxygen	6.6	6.0	6.9	4.3	4.1	4.2	4.8	3.2	5.2
10	Sodium Absorption Ratio		50.0	1.3						2.0
11	COD	48.0	36.0		64.0	136.0		104.0	196.0	
12	Oil & Grese									
13	Sulphate	15.0	25.0		11.0	7.0		10.0	7.0	
14	Chloride	80.0	104.0		68.0	60.0		40.0	40.0	
15	Nitrate as NO_3	1.6	1.72		1.37	1.5		0.67	0.7	
16	Hardness as $CaCO_3$	68.0	128.0		184.0	76.0		48.0	56.0	
17	Calcium as CaCO3	36.0	68.0		116.0	40.0		28.0	32.0	
18	Magnesium as MgCO3	32.0	60.0		68.0	36.0		20.0	24.0	
19	Boron	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL
20	Total Kjedal Nitorgen									

Sl. No.	Parameters									
	Physical Parameters									
21	Ammonical Nitorgen				BDL	BDL		0.1	0.1	
22	Potassium	9.0	9.0		8.0	8.0		12.0	12.0	
23	Phosphate	2.9	0.3		BDL	BDL		BDL	BDL	
24	Fluoride	0.2	0.3		0.1	0.221		0.1	0.1	
25	Phenolphthlein Alkalinity	Nil	Nil		Nil	Nil		12.0	24.0	
26	Total Alkalinity	60.0	84.0		92.0	84.0		68.0	76.0	
27	Sodium	48.0			59.0	58.0		43.0	43.0	
28	Free Ammonia	0.36	0.1	BDL			BDL			BDL
29	Cyanide									
	Heavy Metals									
30	Total Chromium				BDL	BDL	BDL			
31	Lead				BDL	BDL	BDL			
32	Copper				BDL	BDL	BDL			
33	Zinc				0.058	0.0	0.0			
34	Iron				0.654	0.7	1.3			
35	Nickel				BDL	BDL	BDL			
36	Cadmium				BDL	BDL	BDL			
	Biological Parameters									
37	Total Coliform	350 x 10^2	240 x 10^2	540 x 10^2	1600 x 10^3	350 x 10^2	240 x 10^2	240 x 10^2	1600 x 10^2	350 x 10^2
38	Fecal Coliform	46 x 10^2	49 x 10^2		110 x 10^3	46 x 10^2		23 x 10^2	110 x 10^2	
39	SAR									
40	Free Ammonia									
Sl. No.	**Parameters**									
	Physical Parameters									
41	Total fixed Solids									
42	Dissolved phosphate									
43	Hexavalent chromium									
44	Mercury									
45	Manganese				0.065	BDL	0.05			

46	Arsenic									
47	Anionic Surfactants as Methylene blue active (MBA									
	Fecal streptococci									
	Bicarbonate (HCO_3)	60.0	84.0		92.0	84.0		56.0	76.0	
	Carbonate	Nil	Nil		Nil	Nil		24.0	24.0	
	Antimony (Sb)									
	Barium (Ba)									
	Cobalt(Co)									
	Strontium (Sr)									
	Colour									
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**

Monitoring Results of Ulsoor Lake

Sl. No.	Parameters	06.12.2021			04.01.2022			07.02.2022			03.03.2022		
		Near fishing Centre	Near Temple	Lake water	Near fishing Centre	Near Temple	Lake water	Near fishing Centre	Near Temple	Lake water	Near fishing Centre	Near Temple	Lake water
	Physical Parameters												
1	pH	7.7	7.4	7.0	9.3	9.2	6.7	8.8	8.8	8.7	8.2	8.2	8.2
2	Total Suspended Solids												
3	Total Dissolved Solids	188.0	258.0		226.0	240.0		240.0	248.0		214.0	210.0	
4	Turbidity	26.9	24.3		58.2	58.2		16.9	44.4		4.2	39.1	
5	Conductivity	260.0	356.0	263.0	325.0	343.0	717.0	349.0	359.0	339.0	311.0	307.0	316.0
6	Suspended Solids												
7	**Chemical Parameters**												
8	BOD (3 days @ 27^0 C)	9.0	27.0	6.0	4.0	4.0	10.0	6.0	8.0	11.0	9.0	11.0	9.0
9	Dissolved Oxygen	4.2	2.1	4.4	6.8	6.9	4.3	5.3	5.0	4.8	4.4	4.5	4.4
10	Sodium Absorption Ratio			2.0						2.0			3.0
11	COD	100.0	288.0		40.0	42.0		72.0	92.0		108.0	120.0	
12	Oil & Grese												
13	Sulphate	10.0	12.0		15.0	15.0		11.0	10.0		12.0	10.0	
14	Chloride	56.0	60.0		32.0	36.0		56.0	52.0		44.0	44.0	
15	Nitrate as NO_3	1.0	1.48		1.0	1.06		1.0	1.0				
16	Hardness as $CaCO_3$	100.0	116.0		56.0	60.0		60.0	68.0		68.0	56.0	
17	Calcium as CaCO3	60.0	64.0		32.0	36.0		44.0	52.0		48.0	36.0	
18	Magnesium as MgCO3	40.0	52.0		24.0	24.0		16.0	16.0	BDL	20.0	20.0	
19	Boron	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL
20	Total Kjedal Nitorgen												

Sl. No.	Parameters												
	Physical Parameters												
21	Ammonical Nitorgen	0.3	0.2		0.1	0.10		BDL	BDL		0.21	0.31	
22	Potassium	10.0	9.0		8.0	8.0		11.0	12.0		12.0	12.0	
23	Phosphate	BDL	BDL		BDL	BDL		BDL	BDL		0.2	0.2	
24	Fluoride	0.42	0.18		0.18	0.19		BDL	BDL		0.15	0.2	
25	Phenolphthlein Alkalinity	Nil	Nil		28.0	36.0		32.0	16.0		Nil	Nil	
26	Total Alkalinity	96.0	132.0		60.0	64.0		76.0	80.0		76.0	72.0	
27	Sodium	46.0	49.0		29.0	31.0		43.0	43.0		48.0	48.0	
28	Free Ammonia			BDL			BDL			BDL			BDL
29	Cyanide												
	Heavy Metals												
30	Total Chromium												
31	Lead												
32	Copper												
33	Zinc												
34	Iron												
35	Nickel												
36	Cadmium												
	Biological Parameters												
37	Total Coliform	920 x 10^2	540 x 10^2	350 x 10^2	9200.0	5400.0	3500.0	350 x 10^2	240 x 10^2	540 x 10^2	920 x10^2	540 x 10^2	350 x 10^2
38	Fecal Coliform	130 x 10^2	40 x 10^2		1100.0	630.0		46 x 10^2	34 x 10^2		84 x 10^2	49 x 10^2	
39	SAR						2.0						
40	Free Ammonia												
Sl. No.	**Parameters**												
	Physical Parameters												
41	Total fixed Solids												
42	Dissolved phosphate												
43	Hexavalent chromium												
44	Mercury												
45	Manganese												

46	Arsenic												
47	Anionic Surfactants as Methylene blue active (MBA												
	Fecal streptococci												
	Bicarbonate (HCO_3)	96.0	132.0		32.0	28.0		44.0	64.0		76.0	72.0	
	Carbonate	Nil	Nil		56.0	72.0		64.0	32.0		Nil	Nil	
	Antimony (Sb)												
	Barium (Ba)												
	Cobalt(Co)												
	Strontium (Sr)												
	Colour												
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**

Monitoring Results of Ulsoor Lake

Sl. No.	Parameters	05.04.2022			06.05.2022			06.06.2022			01.07.2022		
		Near fishing Centre	Near Temple	Lake water	Near fishing Centre	Near Temple	Lake water	Near fishing Centre	Near Temple	Lake water	Near fishing Centre	Near Temple	Lake water
	Physical Parameters												
1	pH	7.8	7.6	7.7	7.8	7.7	7.3	8.5	6.5	7.3	8.5	8.6	8.6
2	Total Suspended Solids												
3	Total Dissolved Solids	242.0	240.0		234.0	236.0		262.0	240.0		202.0	200.0	
4	Turbidity	62.4	59.6		108.0	132.0		28.0	18.2		36.1	35.7	
5	Conductivity	346.0	345.0	344.0	340	341.0	360.0	391.0	350.0	311.0	298.0	298.0	297.0
6	Suspended Solids												
7	**Chemical Parameters**												
8	BOD (3 days @ 27^0 C)	4.0	4.0	4.0	17.0	26.0	12.0	16.0	9.0	12.0	17.4	19.3	18.7
9	Dissolved Oxygen	5.9	5.7	5.8	4.4	4.2	4.7	2.4	4.3	4.2	0.6	0.5	0.5
10	Sodium Absorption Ratio				53.0		2.3			2.1			2.0
11	COD	44.0	41.0		177.0	271.0		176.0	108.0		150.0	164.0	
12	Oil & Grese												
13	Sulphate	7.0	7.0		11.0	10.0		14.0	13.0		5.0	4.8	
14	Chloride	52.0	48.0		52.0	52.0		52.0	56.0		40.0	40.0	
15	Nitrate as NO_3	1.17	1.15		1.0	1.0		1.08	1.1		1.2	1.2	
16	Hardness as $CaCO_3$	60.0	56.0		88.0	88.0		108.0	100.0		60.0	56.0	
17	Calcium as CaCO3	32.0	32.0		52.0	52.0		60.0	56.0		32.0	28.0	
18	Magnesium as MgCO3	28.0	24.0		36.0	36.0		48.0	44.0		28.0	28.0	
19	Boron	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL
20	Total Kjedal Nitorgen												

Sl. No.	Parameters												
	Physical Parameters												
21	Ammonical Nitorgen	0.38	0.22		0.15	0.14		0.29	0.14		0.3	0.3	
22	Potassium	5.0	5.0		16.0	13.0		15.0	14.0		6.3	6.5	
23	Phosphate	BDL	BDL		0.3	BDL		BDL	BDL		BDL	BDL	
24	Fluoride	0.2	0.16		BDL	BDL		0.2	0.32		0.2	0.2	
25	Phenolphthlein Alkalinity	Nil	Nil		Nil	Nil		36.0	Nil		16.0	16.0	
26	Total Alkalinity	92.0	88.0		92.0	92.0		104.0	108.0		88.0	84.0	
27	Sodium	29.0	29.0			53.0		47.0	48.0		34.0	34.0	
28	Free Ammonia			BDL						BDL			BDL
29	Cyanide												
	Heavy Metals												
30	Total Chromium	0.003	0.012										
31	Lead	BDL	0.008										
32	Copper	0.006	0.007										
33	Zinc	0.020	0.025										
34	Iron	1.063	0.887										
35	Nickel	0.008	0.011										
36	Cadmium	BDL	BDL										
	Biological Parameters												
37	Total Coliform	540 x 10^3	350 x 10^3	540 x 10^2	1600 x 10^2	540 x 10^2	240 x 10^2	920 x 10^2	1600 x 10^2	540 x 10^2	1600 x 10^2	920 x 10^2	350 x 10^2
38	Fecal Coliform	94 x 10^3	40 x 10^3		130 x 10^2	48 x 10^2		39 x 10^2	110 x 10^2		150 x 10^2	84 x 10^2	
39	SAR			BDL									
40	Free Ammonia						BDL						
Sl. No.	**Parameters**												
	Physical Parameters												
41	Total fixed Solids												
42	Dissolved phosphate												
43	Hexavalent chromium												
44	Mercury												
45	Manganese	0.095	0.094										

46	Arsenic												
47	Anionic Surfactants as Methylene blue active (MBA												
	Fecal streptococci												
	Bicarbonate (HCO_3)	92.0	88.0		92.0	92.0		68.0	108.0		88.0	84.0	
	Carbonate	Nil	Nil		Nil	Nil		72.0	Nil		16.0	16.0	
	Antimony (Sb)												
	Barium (Ba)												
	Cobalt(Co)												
	Strontium (Sr)												
	Colour												
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**

Monitoring

Sl. No.	Parameters	28.08.2022	29.08.2022	30.08.2022	31.08.2022	01.09.2022	02.09.2022	03.09.2022	04.09.2022	Sl. No.
		Before Ganesha festival Ulsoor lake Near Kalyani				After Ganesha festival Ulsoor lake Near Kalyani				
	Physical Parameters									
1	pH	7.9	6.7	7.3	8.0	7.8	8.4	7.0	7.0	1
2	Total Suspended Solids	64.0	64.0	18.0	80.0	62.0	154.0	88.0	70.0	2
3	Total Dissolved Solids	212.0	188.0	278.0	176.0	190.0	162.0	384.0	182.0	3
4	Turbidity	48.4	48.8	9.0	61.5	48.2	115.0	78.0	56.2	4
5	Conductivity	310.0	269.0	356.0	255.0	273.0	240.0	556.0	261.0	5
6	Suspended Solids									6
7	**Chemical Parameters**									7
8	BOD (3 days @ 27^0 C)	11.0	6.0	4.0	8.0	10.0	28.0	23.0	7.0	8
9	Dissolved Oxygen	4.2	4.2	7.4	4.8	4.5	BDL	1.1	4.2	9
10	Sodium Absorption Ratio									10
11	COD	126.0	64.0	26.0	84.0	94.0	203.0	240.0	64.0	11
12	Oil & Grese									12
13	Sulphate									13
14	Chloride	64.0	28.0	28.0	28.0	56.0	24.0	48.0	36.0	14
15	Nitrate as NO_3									15
16	Hardness as $CaCO_3$	96.0	68.0	156.0	68.0	116.0	108.0	152.0	92.8	16
17	Calcium as CaCO3									17
18	Magnesium as MgCO3									18
19	Boron									19
20	Total Kjedal Nitorgen									20

Sl. No.	Parameters									Sl. No.
	Physical Parameters									
21	Ammonical Nitorgen									21
22	Potassium									22
23	Phosphate									23
24	Fluoride									24
25	Phenolphthlein Alkalinity									25
26	Total Alkalinity	112.0	80.0	136.0	100.0	100.0	144.0	140.0	80.0	26
27	Sodium									27
28	Free Ammonia									28
29	Cyanide									29
	Heavy Metals									
30	Total Chromium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	30
31	Lead	0.011	0.003	BDL	BDL	0.005	BDL	BDL	0.003	31
32	Copper	0.006	0.006	0.004	0.004	0.007	0.002	BDL	0.003	32
33	Zinc	0.006	0.016	0.008	0.003	0.046	BDL	BDL	0.012	33
34	Iron									34
35	Nickel									35
36	Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	36
	Biological Parameters									
37	Total Coliform									37
38	Fecal Coliform									38
39	SAR									39
40	Free Ammonia									40
Sl. No.	**Parameters**									**Sl. No.**
	Physical Parameters									
41	Total fixed Solids									41
42	Dissolved phosphate									42
43	Hexavalent chromium									43
44	Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	44
45	Manganese	0.105	0.086	0.181	0.101	0.090	0.046	0.065	0.087	45

46	Arsenic									46
47	Anionic Surfactants as Methylene blue active (MBA									47
	Fecal streptococci									
	Bicarbonate (HCO_3)									
	Carbonate									
	Antimony (Sb)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
	Barium (Ba)	0.087	0.1	0.1	0.1	0.1	0.1	0.1		
	Cobalt(Co)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
	Strontium (Sr)	0.136	0.206	0.572	0.139	0.140	0.118	0.213	0.120	
	Colour	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	

nitoring Results of Ulsoor Lake

Parameters	01.08.2022			28.08.2022	29.08.2022	30.08.2022	31.08.2022	01.09.2022	02.09.2022	03.09.2022	04.09.2022
	Near Fishering center	Near Temple	Lake water	Before Ganesha festival Ulsoor lake - Kalyani				After Ganesha festival Ulsoor lake -Kalyani			
Physical Parameters											
pH	8.0	8.0	6.6	7.5	7.1	7.3	6.5	6.8	6.7	7	6.5
Total Suspended Solids				70	54	8	74	48	160	42	112
Total Dissolved Solids	182.0	180.0		222	190	276	246	246	322	508	454
Turbidity	18.0	17.8		53.9	41.9	5	56.7	36.7	121	31.7	97
Conductivity	263.0	262.0	283.0	324	270	357	354	386	461	726	650
Suspended Solids											
Chemical Parameters											
BOD (3 days @ 27^0 C)	5.0	5.0	6.0	6	4	7	7	7	43	4	9
Dissolved Oxygen	6.0	6.1	5.1	4.9	6.1	7.5	5.2	4.9	BDL	5	4.4
Sodium Absorption Ratio			BDL								
COD	54.0	50.0		70	47	48	68	70	301	34	78
Oil & Grese											
Sulphate	4.0	4.0									
Chloride	36.0	36.0		68	36	36	32	64	24	180	40
Nitrate as NO_3	0.8	4.0									
Hardness as $CaCO_3$	68.0	68.0		92	72	144	112	144	104	280	276.8
Calcium as CaCO3	40.0	40.0									
Magnesium as MgCO3	28.0	28.0									
Boron	BDL	BDL	BDL								
Total Kjedal Nitorgen											

Parameters											
Physical Parameters											
Ammonical Nitorgen	0.1	0.1									
Potassium	3.0	3.0									
Phosphate	BDL	BDL									
Fluoride	BDL	BDL									
Phenolphthlein Alkalinity	Nil	Nil									
Total Alkalinity	76.0	76.0		132	84	132	144	112	148	124	108
Sodium	27.0	27.0									
Free Ammonia			BDL								
Cyanide											
Heavy Metals											
Total Chromium				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead				0.009	BDL	BDL	0.004	0.009	0.003	BDL	0.007
Copper				0.138	BDL	0.003	0.004	0.011	0.028	0.005	0.014
Zinc				0.018	BDL	0.019	0.011	0.009	BDL	BDL	BDL
Iron											
Nickel											
Cadmium				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Biological Parameters											
Total Coliform	54000.0	35000.0	160000.0								
Fecal Coliform	4800.0	2100.0									
SAR											
Free Ammonia											
Parameters											
Physical Parameters											
Total fixed Solids											
Dissolved phosphate											
Hexavalent chromium											
Mercury				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese				0.258	0.051	0.115	0.095	0.136	0.196	0.092	0.411

Arsenic											
Anionic Surfactants as Methylene blue active (MBA)Substance											
Fecal streptococci											
Bicarbonate (HCO_3)	76.0	76.0									
Carbonate	Nil	Nil									
Antimony (Sb)				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Barium (Ba)				0.130	0.111	0.105	0.114	0.091	0.102	0.079	0.146
Cobalt(Co)				0.003	BDL	BDL	BDL	BDL	BDL	BDL	0.002
Strontium (Sr)				0.255	0.371	0.147	0.142	0.634	0.787	0.153	1.409
Colour				1	1	1	1	1	1	1	1
Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**								

Monitoring Results of Ulsoor Lake

Sl. No.	Parameters	07.09.2022			
		Near Fishery center	Near temple	Near Kalyani	
	Physical Parameters				
1	pH	7.3	7.9	6.8	
2	Total Suspended Solids				
3	Total Dissolved Solids	206	194		
4	Turbidity	32.5	38.5		
5	Conductivity	293	276	303	
6	Suspended Solids				
7	**Chemical Parameters**				
8	BOD (3 days @ 27^0 C)	4	4	31	
9	Dissolved Oxygen	5.9	6.1	BDL	
10	Sodium Absorption Ratio			BDL	
11	COD	40	39		
12	Oil & Grese				
13	Sulphate	3	3		
14	Chloride	48	44		
15	Nitrate as NO_3	1.12	1.06		
16	Hardness as $CaCO_3$	76	72		
17	Calcium as CaCO3	44	40		
18	Magnesium as MgCO3	32	32		
19	Boron	BDL	BDL	BDL	
20	Total Kjedal Nitorgen				

Sl. No.	Parameters				
	Physical Parameters				
21	Ammonical Nitorgen	0.12	0.11		
22	Potassium	6	6		
23	Phosphate	BDL	BDL		
24	Fluoride	0.14	0.16		
25	Phenolphthlein Alkalinity	Nil	Nil		
26	Total Alkalinity	60	76		
27	Sodium	23	22		
28	Free Ammonia			BDL	
29	Cyanide				
	Heavy Metals				
30	Total Chromium				
31	Lead				
32	Copper				
33	Zinc				
34	Iron				
35	Nickel				
36	Cadmium				
	Biological Parameters				
37	Total Coliform	5400	35000	24000	
38	Fecal Coliform	460	7000		
39	SAR				
40	Free Ammonia				
Sl. No.	**Parameters**				
	Physical Parameters				
41	Total fixed Solids				
42	Dissolved phosphate				
43	Hexavalent chromium				
44	Mercury				
45	Manganese				

46	Arsenic					
47	Anionic Surfactants as Methylene blue active (MBA					
	Fecal streptococci					
	Bicarbonate (HCO_3)	60	76			
	Carbonate	Nil	Nil			
	Antimony (Sb)					
	Barium (Ba)					
	Cobalt(Co)					
	Strontium (Sr)					
	Colour					
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'E'**		

Monitoring Results of Ulsoor Lake												
Sl. No.	**Parameters**	**01.04.2021 (Accredited Parameters)**			**01.04.2021 (Non- Accredited Parameters)**			**03.05.2021**		**08.06.2021**		
		Lake water Near Fishering Center	Lake Water Near Temple	Lake water Near Kalyani	Lake water Near Fishering Center	Lake Water Near Temple	Lake water Near Kalyani	Lake water Near Fishering Center	Lake water Near Kalyani	Lake water Near Fishering Center	Lake water Near Temple	Lake water Near Kalyani
	Physical Parameters											
1	pH	7.2	7.0	7.0				7.1	7.0	8.2	8.0	7.7
2	Total Suspended Solids											
3	Total Dissolved Solids	292.0	290.0					280.0		242.0	252.0	
4	Turbidity	2.3	2.1					43.2		2.3	0.9	
5	Conductivity	425.0	424.0	427.0				400.0	389.0	356.0	363.0	333.0
6	Suspended Solids											
7	**Chemical Parameters**											
8	BOD (3 days @ 27^0 C)	5.0	5.0	6.0				7.0	7.0	3.0	3.0	5.0
9	Dissolved Oxygen	5.7	5.6	5.0				6.8	6.2	6.6	6.4	5.4
10	Sodium Absorption Ratio						2.1		2.7			2.04
11	COD	64.0	64.0					72.0		44.0	40.0	
12	Oil & Grese											
13	Sulphate	12.0	12.0					15.0		21.0	25.0	
14	Chloride	80.0	76.0					80.0		124.0	168.0	
15	Nitrate as NO_3				1.12	1.1		1.6		1.14	1.1	
16	Hardness as $CaCO_3$	116.0	108.0					68.0		136.0	144.0	
17	Calcium as CaCO3	72.0	64.0					36.0		76.0	80.0	
18	Magnesium as MgCO3				10.69	10.7		32.0		15.0	15.0	
19	Boron				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
20	Total Kjedal Nitorgen											

Sl. No.	Parameters											
	Physical Parameters											
21	Ammonical Nitorgen	0.2	0.2					0.4		0.212	0.3	
22	Potassium	5.0	3.0					9.0		5.0	5.0	
23	Phosphate				0.15	0.2		0.22		BDL	BDL	
24	Fluoride	0.49	0.4					0.15		0.5	0.6	
25	Phenolphthlein Alkalinity				Nil	Nil		Nil		Nil	Nil	
26	Total Alkalinity	108.0	112.0					60.0		164.0	152.0	
27	Sodium	63.0	49.0					48.0		59.0	59.0	
28	Free Ammonia						0.001		BDL			0.006
29	Cyanide											
	Heavy Metals											
30	Total Chromium				BDL	BDL						
31	Lead				BDL	BDL						
32	Copper	0.003	0.0									
33	Zinc	0.022	0.0									
34	Iron	1.1450	0.8									
35	Nickel	0.0040	0.0									
36	Cadmium				BDL	BDL						
	Biological Parameters											
37	Total Coliform	1600 x10^3	350 x 10^3	540 x 10^3				350 x 10^2	350 x 10^2	350 x 10^2	1600 x 10^2	350 x 10^2
38	Fecal Coliform	130 x 10^3	49 x 10^3					70 x 10^2		49 x 10^2	140 x 10^2	
39	SAR											
40	Free Ammonia											

Sl. No.	Parameters											
	Physical Parameters											
41	Total fixed Solids											
42	Dissolved phosphate											
43	Hexavalent chromium											
44	Mercury	0.064	0.0									
45	Manganese											
46	Arsenic											
47	Anionic Surfactants as Methylene blue active (MBA s)Substance				Nil	Nil		Nil		Nil		
	Fecal streptococci				108.0	112.0		60.0		164.0	110.0	
	Bicarbonate (HCO_3)				63.0	79.0		46.0		33.0	152.0	
	Carbonate										Nil	
	Antimony (Sb)											
	Barium (Ba)											
	Cobalt(Co)											
	Strontium (Sr)											
	Colour											
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**

Monitoring Results of Ulsoor Lake												
Sl. No.	**Parameters**	**05.07.2021**			**28.07.2021(Accredited Parameters)**			**28.07.2021(Non Accredited Parameters)**			**10.08.2021**	
		Lake water Near Fishering Center	Lake water Near Temple	Lake water Near Kalyani	Lake water Near Temple	Lake water Near Fishering Center	Lake water Near Kalyani	Lake water Near Temple	Lake water Near Fishering Center	Lake water Near Kalyani	Lake water Near Fishering Center	Lake water Near Temple
	Physical Parameters											
1	pH	8.5	8.6	6.7	8.5	8.3	8.5				7.7	7.6
2	Total Suspended Solids				70.0	68.0	72.0					
3	Total Dissolved Solids	222.0	220.0		248.0	246.0	244.0				314.0	320.0
4	Turbidity	8.1	0.9		58.4	60.6	59.6				40.2	39.9
5	Conductivity	335.0	340.0	374.0	369.0	367.0	366.0				463.0	464.0
6	Suspended Solids											
7	**Chemical Parameters**											
8	BOD (3 days @ 27^0 C)	10.0	11.0	9.0	15.0	15.0	16.0				38.0	42.0
9	Dissolved Oxygen	4.2	4.4	4.1	4.2	4.1	4.4				3.4	3.3
10	Sodium Absorption Ratio			2.5								
11	COD	120.0	120.0		164.0	160.0	168.0				424.0	452.0
12	Oil & Grese											
13	Sulphate	15.0	10.0		8.0	8.0	8.0				7.0	7.0
14	Chloride	84.0	80.0		68.0	56.0	56.0				64.0	68.0
15	Nitrate as NO_3	2.0	1.8		3.5	3.4	3.4				1.8	2.0
16	Hardness as $CaCO_3$	120.0	124.0		108.0	80.0	76.0				96.0	92.0
17	Calcium as CaCO3	80.0	64.0		68.0	48.0	44.0				60.0	60.0
18	Magnesium as MgCO3	40.0	60.0		9.7	7.7	0.1				9.0	7.8
19	Boron	BDL	BDL	BDL	BDL	BDL	BDL				BDL	BDL
20	Total Kjedal Nitorgen				0.35	0.3	0.2					

Sl. No.	Parameters											
	Physical Parameters											
21	Ammonical Nitorgen	0.4	0.2		0.3	0.2	0.14				BDL	BDL
22	Potassium	8.0	4.8		17.0	17.0	17.0				24.0	24.0
23	Phosphate	0.2	0.2		BDL	BDL	BDL				BDL	BDL
24	Fluoride	0.2	0.3		0.1	0.1	0.1				0.5	0.4
25	Phenolphthlein Alkalinity	28.0	32.0		16.0	Nil	8.0				Nil	Nil
26	Total Alkalinity	136.0	140.0		84.0	76.0	92.0				112.0	132.0
27	Sodium	61.0	62.0		56.0	55.0	55.0				54.0	52.0
28	Free Ammonia			BDL								
29	Cyanide											
	Heavy Metals											
30	Total Chromium				0.017	0.3	0.011					
31	Lead				0.004	0.0	0.003					
32	Copper				0.004	0.1	0.004					
33	Zinc				0.009	0.1	0.011					
34	Iron				1.361	5.8	2.2					
35	Nickel				0.009	0.1	0.011					
36	Cadmium				BDL	BDL	BDL					
	Biological Parameters											
37	Total Coliform	240×10^4	350×10^4	240×10^3	5400.0	1600×10^2	16000.0				540×10^3	1600×10^2
38	Fecal Coliform	49×10^4	70×10^4		410.0	110×10^2	1500.0				63×10^3	110×10^2
39	SAR											
40	Free Ammonia											

Sl. No.	Parameters											
	Physical Parameters											
41	Total fixed Solids							92.0	90.0	86.0		
42	Dissolved phosphate											
43	Hexavalent chromium											
44	Mercury											
45	Manganese				0.059	0.5	7.7					
46	Arsenic											
47	Anionic Surfactants as Methylene blue active (MBA s)Substance											
	Fecal streptococci											
	Bicarbonate (HCO_3)	108.0	108.0								112.0	132.0
	Carbonate	56.0	64.0								Nil	Nil
	Antimony (Sb)											
	Barium (Ba)											
	Cobalt(Co)											
	Strontium (Sr)											
	Colour											
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**

Monitoring Results of Ulsoor Lake									
Sl. No.	**Parameters**	**07.09.2021**		**12.09.2021**	**14.09.2021**	**16.09.2021**		**19.09.2021**	
		Lake water Near Kalyani	Lake water Near Kalyani	Lake water Near Kalyani	Lake water Near Kalyani	Lake water Near Kalyani	Kalyani water	Lake water Near Kalyani	Kalyani water
	Physical Parameters								
1	pH	8.4	7.0	6.8	6.8	8.5	6.7	8.4	6.6
2	Total Suspended Solids	42.0	34.0	40.0	24.0	42.0	44.0	14.0	6.0
3	Total Dissolved Solids	240.0	310.0	328.0	340.0	176.0	308.0	244.0	406.0
4	Turbidity	37.0	27.0	32.0	18.0	32.0	33.0	68.0	12.0
5	Conductivity	356.0	455.0	467.0	502.0	350.0	504.0	348.0	589.0
6	Suspended Solids								
7	**Chemical Parameters**								
8	BOD (3 days @ 27^0 C)	6.0	8.0	7.0	7.0	17.0	19.0	18.0	5.0
9	Dissolved Oxygen	4.5	4.8	4.2	5.5	1.5	1.6	1.9	5.6
10	Sodium Absorption Ratio								
11	COD	68.0	80.0	76.0	72.0	148.0	166.0	196.0	52.0
12	Oil & Grese								
13	Sulphate								
14	Chloride	64.0	80.0	60.0	56.0	64.0	68.0	56.0	60.0
15	Nitrate as NO_3								
16	Hardness as $CaCO_3$	68.0	156.0	112.0	140.0	66.0	160.0	64.0	184.0
17	Calcium as CaCO3								
18	Magnesium as MgCO3								
19	Boron								
20	Total Kjedal Nitorgen								

Sl. No.	Parameters								
	Physical Parameters								
21	Ammonical Nitorgen								
22	Potassium								
23	Phosphate								
24	Fluoride								
25	Phenolphthlein Alkalinity								
26	Total Alkalinity	80.0	164.0	96.0	104.0	76.0	132.0	80.0	104.0
27	Sodium								
28	Free Ammonia								
29	Cyanide								
	Heavy Metals								
30	Total Chromium	BDL	BDL	0.006	0.0	0.002	0.003	BDL	0.003
31	Lead	BDL	0.029	BDL	BDL	0.003	BDL	BDL	BDL
32	Copper	BDL	0.005	0.007	0.008	0.011	0.013	0.009	0.011
33	Zinc	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
34	Iron								
35	Nickel								
36	Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Biological Parameters								
37	Total Coliform								
38	Fecal Coliform								
39	SAR								
40	Free Ammonia								

Sl. No.	Parameters								
	Physical Parameters								
41	Total fixed Solids								
42	Dissolved phosphate								
43	Hexavalent chromium								
44	Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
45	Manganese	0.1	0.257	0.377	0.367	0.083		0.067	0.3
46	Arsenic								
47	Anionic Surfactants as Methylene blue active (MBA s)Substance								
	Fecal streptococci								
	Bicarbonate (HCO_3)								
	Carbonate								
	Antimony (Sb)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Barium (Ba)	0.1	0.113	0.086	0.090	0.090	0.135	0.068	
	Cobalt(Co)	BDL	BDL	0.002	0.002	BDL	BDL	BDL	BDL
	Strontium (Sr)	0.1	0.519	0.420	0.433	0.164	0.889	0.127	0.7
	Colour								
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**

Monitoring Results of Ulsoor Lake										
Sl. No.	**Parameters**	**23.09.2021**			**04.10.2021**			**08.11.2021**		
		Near fishing Centre	Near Temple	Near Kalyani	Near fishing Centre	Near Temple	Near Kalyani	Near fishing Centre	Near Temple	Near Kalyani
	Physical Parameters									
1	pH	6.8	6.6	6.9	7.9	7.8	7.7	8.4	8.8	8.1
2	Total Suspended Solids									
3	Total Dissolved Solids	292.0	388.0		308.0	248.0		174.0	176.0	
4	Turbidity	36.3	13.0		8.3	9.6		50.0	52.0	
5	Conductivity	412.0	551.0	410.0	438.0	348.0	306.0	253.0	254.0	268.0
6	Suspended Solids									
7	**Chemical Parameters**									
8	BOD (3 days @ 27^0 C)	5.0	4.0	4.0	6.0	12.0	11.0	9.0	18.0	8.0
9	Dissolved Oxygen	6.6	6.0	6.9	4.3	4.1	4.2	4.8	3.2	5.2
10	Sodium Absorption Ratio		50.0	1.3						2.0
11	COD	48.0	36.0		64.0	136.0		104.0	196.0	
12	Oil & Grese									
13	Sulphate	15.0	25.0		11.0	7.0		10.0	7.0	
14	Chloride	80.0	104.0		68.0	60.0		40.0	40.0	
15	Nitrate as NO_3	1.6	1.72		1.37	1.5		0.67	0.7	
16	Hardness as $CaCO_3$	68.0	128.0		184.0	76.0		48.0	56.0	
17	Calcium as CaCO3	36.0	68.0		116.0	40.0		28.0	32.0	
18	Magnesium as MgCO3	32.0	60.0		68.0	36.0		20.0	24.0	
19	Boron	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL
20	Total Kjedal Nitorgen									

Sl. No.	Parameters									
	Physical Parameters									
21	Ammonical Nitorgen				BDL	BDL		0.1	0.1	
22	Potassium	9.0	9.0		8.0	8.0		12.0	12.0	
23	Phosphate	2.9	0.3		BDL	BDL		BDL	BDL	
24	Fluoride	0.2	0.3		0.1	0.221		0.1	0.1	
25	Phenolphthlein Alkalinity	Nil	Nil		Nil	Nil		12.0	24.0	
26	Total Alkalinity	60.0	84.0		92.0	84.0		68.0	76.0	
27	Sodium	48.0			59.0	58.0		43.0	43.0	
28	Free Ammonia	0.36	0.1	BDL			BDL			BDL
29	Cyanide									
	Heavy Metals									
30	Total Chromium				BDL	BDL	BDL			
31	Lead				BDL	BDL	BDL			
32	Copper				BDL	BDL	BDL			
33	Zinc				0.058	0.0	0.0			
34	Iron				0.654	0.7	1.3			
35	Nickel				BDL	BDL	BDL			
36	Cadmium				BDL	BDL	BDL			
	Biological Parameters									
37	Total Coliform	350×10^2	240×10^2	540×10^2	1600×10^3	350×10^2	240×10^2	240×10^2	1600×10^2	350×10^2
38	Fecal Coliform	46×10^2	49×10^2		110×10^3	46×10^2		23×10^2	110×10^2	
39	SAR									
40	Free Ammonia									

Sl. No.	Parameters									
	Physical Parameters									
41	Total fixed Solids									
42	Dissolved phosphate									
43	Hexavalent chromium									
44	Mercury									
45	Manganese				0.065	BDL	0.05			
46	Arsenic									
47	Anionic Surfactants as Methylene blue active (MBA s)Substance									
	Fecal streptococci									
	Bicarbonate (HCO_3)	60.0	84.0		92.0	84.0		56.0	76.0	
	Carbonate	Nil	Nil		Nil	Nil		24.0	24.0	
	Antimony (Sb)									
	Barium (Ba)									
	Cobalt(Co)									
	Strontium (Sr)									
	Colour									
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**

Monitoring Results of Ulsoor Lake									
Sl. No.	**Parameters**	**06.12.2021**		**04.01.2022**		**07.02.2022**		**03.03.2022**		**Sl. No.**
		Near fishing Centre	Near Temple	Near fishing Centre	Near Temple	Near fishing Centre	Near Temple	Near fishing Centre	Near Temple	
	Physical Parameters									
1	pH	7.7	7.4	9.3	9.2	8.8	8.8	8.2	8.2	1
2	Total Suspended Solids									2
3	Total Dissolved Solids	188.0	258.0	226.0	240.0	240.0	248.0	214.0	210.0	3
4	Turbidity	26.9	24.3	58.2	58.2	16.9	44.4	4.2	39.1	4
5	Conductivity	260.0	356.0	325.0	343.0	349.0	359.0	311.0	307.0	5
6	Suspended Solids									6
7	**Chemical Parameters**									7
8	BOD (3 days @ 27^0 C)	9.0	27.0	4.0	4.0	6.0	8.0	9.0	11.0	8
9	Dissolved Oxygen	4.2	2.1	6.8	6.9	5.3	5.0	4.4	4.5	9
10	Sodium Absorption Ratio									10
11	COD	100.0	288.0	40.0	42.0	72.0	92.0	108.0	120.0	11
12	Oil & Grese									12
13	Sulphate	10.0	12.0	15.0	15.0	11.0	10.0	12.0	10.0	13
14	Chloride	56.0	60.0	32.0	36.0	56.0	52.0	44.0	44.0	14
15	Nitrate as NO_3	1.0	1.48	1.0	1.06	1.0	1.0			15
16	Hardness as $CaCO_3$	100.0	116.0	56.0	60.0	60.0	68.0	68.0	56.0	16
17	Calcium as CaCO3	60.0	64.0	32.0	36.0	44.0	52.0	48.0	36.0	17
18	Magnesium as MgCO3	40.0	52.0	24.0	24.0	16.0	16.0	20.0	20.0	18
19	Boron	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	19
20	Total Kjedal Nitorgen									20

Sl. No.	Parameters									Sl. No.
	Physical Parameters									
21	Ammonical Nitorgen	0.3	0.2	0.1	0.10	BDL	BDL	0.21	0.31	21
22	Potassium	10.0	9.0	8.0	8.0	11.0	12.0	12.0	12.0	22
23	Phosphate	BDL	BDL	BDL	BDL	BDL	BDL	0.2	0.2	23
24	Fluoride	0.42	0.18	0.18	0.19	BDL	BDL	0.15	0.2	24
25	Phenolphthlein Alkalinity	Nil	Nil	28.0	36.0	32.0	16.0	Nil	Nil	25
26	Total Alkalinity	96.0	132.0	60.0	64.0	76.0	80.0	76.0	72.0	26
27	Sodium	46.0	49.0	29.0	31.0	43.0	43.0	48.0	48.0	27
28	Free Ammonia									28
29	Cyanide									29
	Heavy Metals									
30	Total Chromium									30
31	Lead									31
32	Copper									32
33	Zinc									33
34	Iron									34
35	Nickel									35
36	Cadmium									36
	Biological Parameters									
37	Total Coliform	920 x 10^2	540 x 10^2	9200.0	5400.0	350 x 10^2	240 x 10^2	920 x10^2	540 x 10^2	37
38	Fecal Coliform	130 x 10^2	40 x 10^2	1100.0	630.0	46 x 10^2	34 x 10^2	84 x 10^2	49 x 10^2	38
39	SAR									39
40	Free Ammonia									40

Sl. No.	Parameters									Sl. No.
	Physical Parameters									
41	Total fixed Solids									41
42	Dissolved phosphate									42
43	Hexavalent chromium									43
44	Mercury									44
45	Manganese									45
46	Arsenic									46
47	Anionic Surfactants as Methylene blue active (MBA s)Substance									47
	Fecal streptococci									
	Bicarbonate (HCO_3)	96.0	132.0	32.0	28.0	44.0	64.0	76.0	72.0	
	Carbonate	Nil	Nil	56.0	72.0	64.0	32.0	Nil	Nil	
	Antimony (Sb)									
	Barium (Ba)									
	Cobalt(Co)									
	Strontium (Sr)									
	Colour									
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	

Monitoring Results of Ulsoor Lake

Parameters	05.04.2022		06.05.2022		06.06.2022		01.07.2022		Sl. No.
	Near fishing Centre	Near Temple	Near fishing Centre	Near Temple	Near fishing Centre	Near Temple	Near fishing Centre	Near Temple	
Physical Parameters									
pH	7.8	7.6	7.8	7.7	8.5	6.5	8.5	8.6	1
Total Suspended Solids									2
Total Dissolved Solids	242.0	240.0	234.0	236.0	262.0	240.0	202.0	200.0	3
Turbidity	62.4	59.6	108.0	132.0	28.0	18.2	36.1	35.7	4
Conductivity	346.0	345.0	340	341.0	391.0	350.0	298.0	298.0	5
Suspended Solids									6
Chemical Parameters									7
BOD (3 days @ 27^0 C)	4.0	4.0	17.0	26.0	16.0	9.0	17.4	19.3	8
Dissolved Oxygen	5.9	5.7	4.4	4.2	2.4	4.3	0.6	0.5	9
Sodium Absorption Ratio			53.0						10
COD	44.0	41.0	177.0	271.0	176.0	108.0	150.0	164.0	11
Oil & Grese									12
Sulphate	7.0	7.0	11.0	10.0	14.0	13.0	5.0	4.8	13
Chloride	52.0	48.0	52.0	52.0	52.0	56.0	40.0	40.0	14
Nitrate as NO_3	1.17	1.15	1.0	1.0	1.08	1.1	1.2	1.2	15
Hardness as $CaCO_3$	60.0	56.0	88.0	88.0	108.0	100.0	60.0	56.0	16
Calcium as CaCO3	32.0	32.0	52.0	52.0	60.0	56.0	32.0	28.0	17
Magnesium as MgCO3	28.0	24.0	36.0	36.0	48.0	44.0	28.0	28.0	18
Boron	BDL	BDL	BDL	BDL	BDL	BDL		BDL	19
Total Kjedal Nitorgen									20

Parameters									Sl. No.
Physical Parameters									
Ammonical Nitorgen	0.38	0.22	0.15	0.14	0.29	0.14	0.3	0.3	21
Potassium	5.0	5.0	16.0	13.0	15.0	14.0	6.3	6.5	22
Phosphate	BDL	BDL	0.3	BDL	BDL	BDL	BDL	BDL	23
Fluoride	0.2	0.16	BDL	BDL	0.2	0.32	0.2	0.2	24
Phenolphthlein Alkalinity	Nil	Nil	Nil	Nil	36.0	Nil	16.0	16.0	25
Total Alkalinity	92.0	88.0	92.0	92.0	104.0	108.0	88.0	84.0	26
Sodium	29.0	29.0		53.0	47.0	48.0	34.0	34.0	27
Free Ammonia									28
Cyanide									29
Heavy Metals									
Total Chromium	0.003	0.012							30
Lead	BDL	0.008							31
Copper	0.006	0.007							32
Zinc	0.020	0.025							33
Iron	1.063	0.887							34
Nickel	0.008	0.011							35
Cadmium	BDL	BDL							36
Biological Parameters									
Total Coliform	540×10^3	350×10^3	1600×10^2	540×10^2	920×10^2	1600×10^2	1600×10^2	920×10^2	37
Fecal Coliform	94×10^3	40×10^3	130×10^2	48×10^2	39×10^2	110×10^2	150×10^2	84×10^2	38
SAR									39
Free Ammonia									40

Parameters									Sl. No.
Physical Parameters									
Total fixed Solids									41
Dissolved phosphate									42
Hexavalent chromium									43
Mercury									44
Manganese	0.095	0.094							45
Arsenic									46
Anionic Surfactants as Methylene blue active (MBA s)Substance									47
Fecal streptococci									
Bicarbonate (HCO_3)	92.0	88.0	92.0	92.0	68.0	108.0	88.0	84.0	
Carbonate	Nil	Nil	Nil	Nil	72.0	Nil	16.0	16.0	
Antimony (Sb)									
Barium (Ba)									
Cobalt(Co)									
Strontium (Sr)									
Colour									
Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	

Monitoring Results of Ulsoor Lake								
Parameters	**28.08.2022**	**29.08.2022**	**30.08.2022**	**31.08.2022**	**01.09.2022**	**02.09.2022**	**03.09.2022**	**04.09.2022**
	Before Ganesha festival Ulsoor lake Near Kalyani				**After Ganesha festival Ulsoor lake Near Kalyani**			
Physical Parameters								
pH	7.9	6.7	7.3	8.0	7.8	8.4	7.0	7.0
Total Suspended Solids	64.0	64.0	18.0	80.0	62.0	154.0	88.0	70.0
Total Dissolved Solids	212.0	188.0	278.0	176.0	190.0	162.0	384.0	182.0
Turbidity	48.4	48.8	9.0	61.5	48.2	115.0	78.0	56.2
Conductivity	310.0	269.0	356.0	255.0	273.0	240.0	556.0	261.0
Suspended Solids								
Chemical Parameters								
BOD (3 days @ 27^0 C)	11.0	6.0	4.0	8.0	10.0	28.0	23.0	7.0
Dissolved Oxygen	4.2	4.2	7.4	4.8	4.5	BDL	1.1	4.2
Sodium Absorption Ratio								
COD	126.0	64.0	26.0	84.0	94.0	203.0	240.0	64.0
Oil & Grese								
Sulphate								
Chloride	64.0	28.0	28.0	28.0	56.0	24.0	48.0	36.0
Nitrate as NO_3								
Hardness as $CaCO_3$	96.0	68.0	156.0	68.0	116.0	108.0	152.0	92.8
Calcium as CaCO3								
Magnesium as MgCO3								
Boron								
Total Kjedal Nitorgen								

Parameters								
Physical Parameters								
Ammonical Nitorgen								
Potassium								
Phosphate								
Fluoride								
Phenolphthlein Alkalinity								
Total Alkalinity	112.0	80.0	136.0	100.0	100.0	144.0	140.0	80.0
Sodium								
Free Ammonia								
Cyanide								
Heavy Metals								
Total Chromium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	0.011	0.003	BDL	BDL	0.005	BDL	BDL	0.003
Copper	0.006	0.006	0.004	0.004	0.007	0.002	BDL	0.003
Zinc	0.006	0.016	0.008	0.003	0.046	BDL	BDL	0.012
Iron								
Nickel								
Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Biological Parameters								
Total Coliform								
Fecal Coliform								
SAR								
Free Ammonia								

Parameters								
Physical Parameters								
Total fixed Solids								
Dissolved phosphate								
Hexavalent chromium								
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese	0.105	0.086	0.181	0.101	0.090	0.046	0.065	0.087
Arsenic								
Anionic Surfactants as Methylene blue active (MBA s)Substance								
Fecal streptococci								
Bicarbonate (HCO_3)								
Carbonate								
Antimony (Sb)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Barium (Ba)	0.087	0.1	0.1	0.1	0.1	0.1	0.1	
Cobalt(Co)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Strontium (Sr)	0.136	0.206	0.572	0.139	0.140	0.118	0.213	0.120
Colour	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Remarks	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**	**Class 'D'**

Monitoring Results of Ulsoor Lake											
Sl. No.	**Parameters**	**01.08.2022**		**28.08.2022**	**29.08.2022**	**30.08.2022**	**31.08.2022**	**01.09.2022**	**02.09.2022**	**03.09.2022**	**04.09.2022**
		Near Fishering center	**Near Temple**	**Before Ganesha festival Ulsoor lake - Kalyani**				**After Ganesha festival Ulsoor lake -Kalyani**			
	Physical Parameters										
1	pH	8.0	8.0	7.5	7.1	7.3	6.5	6.8	6.7	7	6.5
2	Total Suspended Solids			70	54	8	74	48	160	42	112
3	Total Dissolved Solids	182.0	180.0	222	190	276	246	246	322	508	454
4	Turbidity	18.0	17.8	53.9	41.9	5	56.7	36.7	121	31.7	97
5	Conductivity	263.0	262.0	324	270	357	354	386	461	726	650
6	Suspended Solids										
7	**Chemical Parameters**										
8	BOD (3 days @ 27^0 C)	5.0	5.0	6	4	7	7	7	43	4	9
9	Dissolved Oxygen	6.0	6.1	4.9	6.1	7.5	5.2	4.9	BDL	5	4.4
10	Sodium Absorption Ratio										
11	COD	54.0	50.0	70	47	48	68	70	301	34	78
12	Oil & Grese										
13	Sulphate	4.0	4.0								
14	Chloride	36.0	36.0	68	36	36	32	64	24	180	40
15	Nitrate as NO_3	0.8	4.0								
16	Hardness as $CaCO_3$	68.0	68.0	92	72	144	112	144	104	280	276.8
17	Calcium as CaCO3	40.0	40.0								
18	Magnesium as MgCO3	28.0	28.0								
19	Boron	BDL	BDL								
20	Total Kjedal Nitorgen										

Sl. No.	Parameters										
	Physical Parameters										
21	Ammonical Nitorgen	0.1	0.1								
22	Potassium	3.0	3.0								
23	Phosphate	BDL	BDL								
24	Fluoride	BDL	BDL								
25	Phenolphthlein Alkalinity	Nil	Nil								
26	Total Alkalinity	76.0	76.0	132	84	132	144	112	148	124	108
27	Sodium	27.0	27.0								
28	Free Ammonia										
29	Cyanide										
	Heavy Metals										
30	Total Chromium			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
31	Lead			0.009	BDL	BDL	0.004	0.009	0.003	BDL	0.007
32	Copper			0.138	BDL	0.003	0.004	0.011	0.028	0.005	0.014
33	Zinc			0.018	BDL	0.019	0.011	0.009	BDL	BDL	BDL
34	Iron										
35	Nickel										
36	Cadmium			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Biological Parameters										
37	Total Coliform	54000.0	35000.0								
38	Fecal Coliform	4800.0	2100.0								
39	SAR										
40	Free Ammonia										

Sl. No.	Parameters										
	Physical Parameters										
41	Total fixed Solids										
42	Dissolved phosphate										
43	Hexavalent chromium										
44	Mercury			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
45	Manganese			0.258	0.051	0.115	0.095	0.136	0.196	0.092	0.411
46	Arsenic										
47	Anionic Surfactants as Methylene blue active (MBA s)Substance										
	Fecal streptococci										
	Bicarbonate (HCO_3)	76.0	76.0								
	Carbonate	Nil	Nil								
	Antimony (Sb)			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Barium (Ba)			0.130	0.111	0.105	0.114	0.091	0.102	0.079	0.146
	Cobalt(Co)			0.003	BDL	BDL	BDL	BDL	BDL	BDL	0.002
	Strontium (Sr)			0.255	0.371	0.147	0.142	0.634	0.787	0.153	1.409
	Colour			1	1	1	1	1	1	1	1
	Remarks	**Class 'D'**	**Class 'D'**								

Monitoring Results of Ulsoor Lake				
Sl. No.	**Parameters**	**07.09.2022**		
		Near Fishery center	**Near temple**	**Near Kalyani**
	Physical Parameters			
1	pH	7.3	7.9	6.8
2	Total Suspended Solids			
3	Total Dissolved Solids	206	194	
4	Turbidity	32.5	38.5	
5	Conductivity	293	276	303
6	Suspended Solids			
7	**Chemical Parameters**			
8	BOD (3 days @ 27^0 C)	4	4	31
9	Dissolved Oxygen	5.9	6.1	BDL
10	Sodium Absorption Ratio			BDL
11	COD	40	39	
12	Oil & Grese			
13	Sulphate	3	3	
14	Chloride	48	44	
15	Nitrate as NO_3	1.12	1.06	
16	Hardness as $CaCO_3$	76	72	
17	Calcium as CaCO3	44	40	
18	Magnesium as MgCO3	32	32	
19	Boron	BDL	BDL	BDL
20	Total Kjedal Nitorgen			

Sl. No.	Parameters			
	Physical Parameters			
21	Ammonical Nitorgen	0.12	0.11	
22	Potassium	6	6	
23	Phosphate	BDL	BDL	
24	Fluoride	0.14	0.16	
25	Phenolphthlein Alkalinity	Nil	Nil	
26	Total Alkalinity	60	76	
27	Sodium	23	22	
28	Free Ammonia			BDL
29	Cyanide			
	Heavy Metals			
30	Total Chromium			
31	Lead			
32	Copper			
33	Zinc			
34	Iron			
35	Nickel			
36	Cadmium			
	Biological Parameters			
37	Total Coliform	5400	35000	24000
38	Fecal Coliform	460	7000	
39	SAR			
40	Free Ammonia			

Sl. No.	Parameters				
	Physical Parameters				
41	Total fixed Solids				
42	Dissolved phosphate				
43	Hexavalent chromium				
44	Mercury				
45	Manganese				
46	Arsenic				
47	Anionic Surfactants as Methylene blue active (MBA s)Substance				
	Fecal streptococci				
	Bicarbonate (HCO_3)	60	76		
	Carbonate	Nil	Nil		
	Antimony (Sb)				
	Barium (Ba)				
	Cobalt(Co)				
	Strontium (Sr)				
	Colour				
	Remarks	**Class 'D'**	**Class 'D'**	**Class 'E'**	

No.PCB/CCB/CSO/2022-23/ 164 **Date:** 26 APR 2022

To,

The Regional Officer,
Karnataka State Pollution Control Board,
Regional Office –**Bng. City East,**
"Nisarga Bhavana", 3rd Floor,
Thimmaiah Road, 7th D Cross,
Bengaluru.

Sir/Madam,

Sub: Submission of analysis reports – reg.

****

Adverting to the above, please find herewith enclosed the analysis reports of the Water samples received during the month of April-2022.

Sl. No.	Name of the Lake	Sample No.	Date of Receipt
1.	Ulsoor Lake (Near Fishing centre)	W-44	05-04-2022
2.	Ulsoor Lake (Near Temple)	W-45	
3.	Ulsoor Lake	W-46	

Thanking you,

Yours Sincerely,

Chief Scientific Officer (I/C)

: 080-23238458
: 080-23238300

Email:centrallab@kspcb.gov.in
Website : http://kspcb. gov.in

ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., ನಿಸರ್ಗಭವನ",
೭ ನೇ 'ಡಿ' ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

8-21

TC-5487

KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

Legal 42(3)/87,E(P)ACT, 1986 RECOGNISED ENVIRONMENTAL LABORATORY
ISO/IEC 17025 Accredited Testing Laboratory by NABL Vide Certificate Number TC-5487
ISO 45001:2018 CERTIFIED LABORATORY

ANALYSIS REPORT

Date: 21-04-2022

1	Station code	1388				Page 1of 2		
2	Date & time of Sample taken	Date	05-04-2022	Time	01.55PM	Type of Water Body	Lake	
3	Name of Monitoring Station	Ulsoor Lake (Near Fishering Centre)				**SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO RO: Bng City East**		
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √	Completed by	Scientific Assistant	
5	Weather	Cloudy	Clear √	Windy	Raining	Verified by:	Deputy Scientific Officer	
6	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood	AGENCY:	KARNATAKA	
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other √ Boating	Date of commencement of test	05-04-2022	
8	Colour	Clear	Turbid	Green	Brown√	Date of completion of	13-04-2022	
9	Odour	None	Fishy	H_2S	Other √	Sample Report No.	**W-44**	
10	Particulars of sample collected	Lake Water Sample				Sample No.	**W-44**	

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.8	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	346	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	**540x10^3**	APHA 23rd edition (9221 A, B,C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	94x10^3	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	5.9	IS 3025 (Part 38)
7	Biochemical Oxygen Demand (3 days @ 27 ^{0} C)	mg/L	2	3	3	-	-	**4.0**	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	44	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2.0	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	1.17	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.38	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	62.4	IS 3025 (Part 10)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	60	IS 3025 (Part 21)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	32	IS 3025 (Part 40)

P.T.O

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1	Station code	1388				Page 2 of 2	
2	Date & time of Sample taken	Date	05-04-2022	Time	01.55PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake (Near Fishering Centre)				**SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO RO: Bng City East**	
4	Date of commencement of test	05-04-2022				**W-44**	
5	Date of completion of test	13-04-2022				**W-44**	
6	Particulars of sample collected	Lake Water Sample					

15	Magnesium as $CaCO_3$	mg/L	-	-	-	-	-	28	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	52	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	29	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	5.0	IS 3025 (Part 45)
19	Sulphate as SO_4	mg/L	-	-	-	-	-	7.0	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as $CaCO_3$	mg/L	-	-	-	-	-	92	
22	Bicarbonate (HCO_3)	mg/L	-	-	-	-	-	92	
23	Carbonate (CO_3)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	242	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.18	IS 3025 (Part 60)
27	Copper as Cu	mg/L	-	-	-	-	-	0.006	APHA 23rd edition (3125B)
28	Zinc as Zn	mg/L	-	-	-	-	-	0.020	
29	Nickel as Ni	mg/L	-	-	-	-	-	0.008	
30	Manganese as Mn	mg/L	-	-	-	-	-	0.095	
31	Total Chromium as Cr	mg/L	-	-	-	-	-	0.003	
32	Cadmium as Cd	mg/L	-	-	-	-	-	BDL	
33	Lead as Pb	mg/L	-	-	-	-	-	BDL	
34	Iron as Fe	mg/L	-	-	-	-	-	1.063	IS 3025 (Part 53)

INFERENCE	**Class -"D"**— As Per Primary water quality criteria-CPCB.
	Designated best use- Irrigation, Industrial cooling, Controlled Waste disposal

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity / non conformity applies only to test results as per standard stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B:0.1; Total Phosphate as P:0.05; Cadmium as Cd : 0.001; Total Lead as Pb:0.002.

Radha. M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

---End of Report---

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

ax : 080-23238300

Email:centrallab@kspcb.gov.in
Website : http://kspcb. gov.in

KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., ನಿಸರ್ಗಭವನ",
೭ನೇ 'ಡಿ'ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು–೫೬೦೦೭೯

K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

TC-5487

Legal 42(3)/87,E(P)ACT, 1986 RECOGNISED ENVIRONMENTAL LABORATORY
ISO/IEC 17025 Accredited Testing Laboratory by NABL Vide Certificate Number TC-5487
ISO 45001:2018 CERTIFIED LABORATORY

ANALYSIS REPORT

Date: 21-04-2022

1	Station code	3593				Page 1of 2		
2	Date & time of Sample taken	Date	05-04-2022	Time	02.15PM	Type of Water Body		Lake
3	Name of Monitoring Station	Ulsoor Lake (Near Temple)				**SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO RO: Bng City East**		
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √	Completed by		Scientific Assistant
5	Weather	Cloudy	Clear √	Windy	Raining	Verified by:		Deputy Scientific Officer
6	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood	AGENCY:		KARNATAKA
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other √ Boating	Date of commencement of test		05-04-2022
8	Colour	Clear	Turbid	Green	Brown√	Date of completion of		13-04-2022
9	Odour	None	Fishy	H_2S	Other √	Sample Report No.		**W-45**
10	Particulars of sample collected	Lake Water Sample				Sample No.		**W-45**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.6	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	345	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	**350x10^3**	APHA 23rd edition (9221 A, B,C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	40x10^3	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	5.7	IS 3025 (Part 38)
7	Biochemical Oxygen Demand (3 days @ 27 °C)	mg/L	2	3	3	-	-	**4.0**	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	41	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2.0	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	1.15	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.22	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	59.6	IS 3025 (Part 10)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	56	IS 3025 (Part 21)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	32	IS 3025 (Part 40)

P.T.O

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1	Station code	3593				Page 2 of 2	
2	Date & time of Sample taken	Date	05-04-2022	Time	02.15PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake (Near Temple)				**SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO RO: Bng City East**	
4	Date of commencement of test	05-04-2022				**W-45**	
5	Date of completion of test	13-04-2022				**W-45**	
6	Particulars of sample collected	Lake Water Sample					

15	Magnesium as $CaCO_3$	mg/L	-	-	-	-	-	24	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	48	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	29	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	5.0	IS 3025 (Part 45)
19	Sulphate as SO_4	mg/L	-	-	-	-	-	7.0	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as $CaCO_3$	mg/L	-	-	-	-	-	88	
22	Bicarbonate (HCO_3)	mg/L	-	-	-	-	-	88	
23	Carbonate (CO_3)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	240	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.16	IS 3025 (Part 60)
27	Copper as Cu	mg/L	-	-	-	-	-	0.007	APHA 23rd edition (3125B)
28	Zinc as Zn	mg/L	-	-	-	-	-	0.025	
29	Nickel as Ni	mg/L	-	-	-	-	-	0.011	
30	Manganese as Mn	mg/L	-	-	-	-	-	0.094	
31	Total Chromium as Cr	mg/L	-	-	-	-	-	0.012	
32	Cadmium as Cd	mg/L	-	-	-	-	-	BDL	
33	Lead as Pb	mg/L	-	-	-	-	-	0.008	
34	Iron as Fe	mg/L	-	-	-	-	-	0.887	IS 3025 (Part 53)

INFERENCE	**Class -"D"—** As Per Primary water quality criteria-CPCB.
	Designated best use- Irrigation, Industrial cooling, Controlled Waste disposal

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity / non conformity applies only to test results as per standard stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B:0.1; Total Phosphate as P:0.05; Cadmium as Cd : 0.001;

Radha M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

---End of Report---

: 080-23238458
ax : 080-23238300

Email:centrallab@kspcb.gov.i
Website : http://kspcb. gov.in

ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., ನಿಸರ್ಗಭವನ",
೭ನೇ 'ಡಿ'ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ್, ಬೆಂಗಳೂರು–೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

TC-5487

KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

Legal 42(3)/87,E(P)ACT, 1986 RECOGNISED ENVIRONMENTAL LABORATORY
ISO/IEC 17025 Accredited Testing Laboratory by NABL Vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

ANALYSIS REPORT

Date: 21-04-2022

NAME OF THE LAKE:	Ulsoor Lake	Page 1 of 1 DATE OF COMMENCEMENT OF TEST:05-04-2022
SAMPLE COLLECTED BY :	**Sri. M.M.Ameenulla Baig, DEO** **RO: Bng City East**	DATE OF COMPLETION OF TEST:12-04-2022
DATE OF COLLECTION :	05-04-2022	
DATE OF RECEIPT :	05-04-2022	SAMPLE REPORT NO:**W-46**
PARTICULARS :	Lake Water Sample	SAMPLE NO : **W-46**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1.	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.7	IS 3025 (Part 11)
2.	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	344	IS 3025 (Part 14)
3.	Dissolved Oxygen	mg/L	6	5	4	4		5.8	IS 3025 (Part 38)
4.	Biochemical Oxygen Demand (3 days @ 27 ^{0} C)	mg/L	2	3	3	-	-	**4.0**	IS 3025 (Part 44)
5.	Free Ammonia	mg/L	-	-	-	1.2	-	BDL	APHA 23rd edition (4500 NH3-D)
6.	Sodium Absorption Ratio	-	-	-	-	-	26	BDL	IS;11624
7.	Boron as B	mg/L	-	-	-	-	2.0	BDL	APHA 23rd edition (4500-B B)
8.	Total Coliform	MPN /100ml	50	500	5000	-	-	**540x10^2**	APHA 23rd edition (9221 A, B,C). 9-68 to 9-75

INFERENCE	**Class -"D"**— As Per Primary water quality criteria-CPCB.
	Designated best use- Propagation of Wild Life, Fisheries

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity / non conformity applies only to test results as per standard stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B:0.1; Free Ammonia:1.0; Sodium Absorption Ratio:2.0.

Radha M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

----End of Report---

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ

KARNATAKA STATE POLLUTION CONTROL BOARD

ಕೇಂದ್ರ ಪರಿಸರ ಪ್ರಯೋಗಾಲಯ / CENTRAL ENVIRONMENTAL LABORATORY
Legal 42(3)/87, E(P)ACT, 1986 RECOGNISED ENVIRONMENTAL LABORATORY
ISO 9001 : 2015 and ISO 45001 : 2018 CERTIFIED LABORATORY

No.PCB/CCB/CSO/2022-23/ 597 **Date:** 10 JUN 202

To,

The Regional Officer,
Karnataka State Pollution Control Board,
Regional Office –**Bng. City East,**
"Nisarga Bhavana", 3rd Floor,
Thimmaiah Road, 7th D Cross,
Bengaluru.

Sir/Madam,

Sub: Submission of analysis reports – reg.

****

Adverting to the above, please find herewith enclosed the analysis reports of the Water samples received during the month of May-2022.

Sl. No.	Name of the Lake	Sample No.	Date of Receipt
1.	Ulsoor Lake (Near Fishing centre)	W-314	06-05-2022
2.	Ulsoor Lake (Near Temple)	W-315	
3.	Ulsoor Lake	W-316	
4.	Byrasandra Upper Lake	W-317	
5.	Byrasandra Lower Lake	W-318	

Thanking you,

Yours Sincerely,

Chief Scientific Officer (I/C)

15/6/2022

K.S.P.C.B., "Nisarga Bhavana", 'B' Block, 7th D Main, Thimmiah Road, Shivanagara, Bangaluru-560 079.
ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., "ನಿಸರ್ಗ ಭವನ" 'ಬಿ' ವಿಭಾಗ, 7ನೇ "ಡಿ" ಮುಖ್ಯರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ, ಶಿವನಗರ, ಬೆಂಗಳೂರು–560079.
Phone: 080-23238458, 23230200 Fax: 080-23238300 E-mail:centrallab@kspcb.gov.in, Website: http//kspcb.karnataka.gov.in

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KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY
MoEF RECOGNISED ENVIRONMENTAL LABORATORY
ISO/IEC 17025 Accredited Testing Laboratory by NABL Vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY
TC-5487

Email:centrallab@kspcb.gov.in
Website : http://kspcb. gov.in

ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., ನಿಸರ್ಗಭವನ",
೭ ನೇ 'ಡಿ'ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

1	Station code	1388					Date : 03-06-2022	
2	Date & time of Sample taken	Date	6/5/2022	Time	02.20 PM		Page 1of 2	
3	Name of Monitoring Station	Ulsoor Lake (Near Fishering Centre)					Type of Water Body	Lake
							SAMPLE COLLECTED BY : Smt. Shylaja M, AEO RO: Bng City East	
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √		Completed by	Scientific Assistant
5	Weather	Cloudy	Clear√	Windy	Raining		Verified by:	Deputy Scientific Officer
6	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood		AGENCY:	KARNATAKA
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other √ Boating		Date of commencement of test	6/5/2022
8	Colour	Clear	Turbid	Green √	Brown		Date of completion of test	12/5/2022
9	Odour	None	Fishy	H2S	Other √		Sample Report No.	W-314
10	Particulars of sample collected	Lake Water Sample					Sample No.	W-314

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.8	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	340	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	$1600x10^2$	APHA 23rd edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	$130x10^2$	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	4.4	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 ^{0}C)	mg/L	2	3	3	-	-	17.0	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	177	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	1.0	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.15	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	108	IS 3025 (Part 10)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	88	IS 3025 (Part 21)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	52	IS 3025 (Part 40)

P.T.O

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1	Station code	1388				Page 2of 2	
2	Date & time of Sample taken	Date	6/5/2022	Time	02.20 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake (Near Fishering Centre)				SAMPLE COLLECTED BY : **Smt. Shylaja M, AEO RO: Bng City East**	
4	Date of commencement of test	6/5/2022				**W-314**	
5	Date of completion of test	12/5/2022				**W-314**	
6	Particulars of sample collected	Lake Water Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as $CaCO_3$	mg/L	-	-	-	-	-	36	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	52	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	53	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	16	IS 3025 (Part 45)
19	Sulphate as SO_4	mg/L	-	-	-	-	-	11	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as $CaCO_3$	mg/L	-	-	-	-	-	92	
22	Bicarbonate (HCO_3)	mg/L	-	-	-	-	-	92	
23	Carbonate (CO_3)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	234	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	0.25	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 60)
INFERENCE		**Class "D"**- As per Primary Water Quality Criteria – CPCB.							
		Designated best use- Propagation of Wild Life, Fisheries							

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 15 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B :0.1;Fluoride as F:0.1.

Radha. M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

----End of Report----

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

Ph : 080-23238458

Email:centrallab@kspcb.gov.in
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TC-5487

KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

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೭ನೇ 'ಡಿ'ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 03-06-2022

1	Station code	3593				Page 2of 2		
2	Date & time of Sample taken	Date	6/5/2022		Time	02.10 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake (Near Temple)					SAMPLE COLLECTED BY : **Smt. Shylaja M, AEO RO: Bng City East**	
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √		Completed by	Scientific Assistant
5	Weather	Cloudy	Clear√	Windy	Raining		Verified by:	Deputy Scientific Officer
6	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood		AGENCY:	KARNATAKA
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other √ Boating		Date of commencement of test	6/5/2022
8	Colour	Clear	Turbid	Green √	Brown		Date of completion of test	12/5/2022
9	Odour	None	Fishy	H_2S	Other √		Sample Report No.	**W-315**
10	Particulars of sample collected	Lake Water Sample					Sample No.	**W-315**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.7	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	341	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	**540x10^2**	APHA 23rd edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	48x10^2	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	4.2	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 ^{0}C)	mg/L	2	3	3	-	-	**26.0**	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	271	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	1.0	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.14	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	132	IS 3025 (Part 10)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	88	IS 3025 (Part 21)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	52	IS 3025 (Part 40)

P.T.O

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1	Station code	3593				Page 2of 2	
2	Date & time of Sample taken	Date	6/5/2022	Time	02.10 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake (Near Temple)				SAMPLE COLLECTED BY : **Smt. Shylaja M, AEO** **RO: Bng City East**	
4	Date of commencement of test	6/5/2022				W-315	
5	Date of completion of test	12/5/2022				W-315	
6	Particulars of sample collected	Lake Water Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as $CaCO_3$	mg/L	-	-	-	-	-	36	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	52	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	53	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	13	IS 3025 (Part 45)
19	Sulphate as SO_4	mg/L	-	-	-	-	-	10	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as $CaCO_3$	mg/L	-	-	-	-	-	92	
22	Bicarbonate (HCO_3)	mg/L	-	-	-	-	-	92	
23	Carbonate (CO_3)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	236	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 60)
INFERENCE		**Class "D"**- As per Primary Water Quality Criteria – CPCB.							
		Designated best use- Propagation of Wild Life, Fisheries							

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 15 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B :0.1;Total Phosphate as P:0.05; Fluoride as F:0.1.

Radha. M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

----End of Report----

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

Ph : 080-23238458

TC-5487

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K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

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ANALYSIS REPORT

Date : 03-06-2022

NAME OF THE LAKE :	Ulsoor Lake	Page 1 of 1
SAMPLE COLLECTED BY :	**Smt. Shylaja M, AEO** **RO: Bng City East**	DATE OF COMMENCEMENT OF TEST :06-05-2022
DATE OF COLLECTION :	06/05/2022	DATE OF COMPLETION OF TEST : 11-05-2022
DATE OF RECEIPT :	06/05/2022	SAMPLE REPORT NO. : **W-316**
PARTICULARS	Lake Water Sample	SAMPLE NO. : **W-316**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH at 25° C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.3	IS 3025 (Part 11)
2	Conductivity @ 25°C	µS/cm	-	-	-	-	2250	360	IS 3025 (Part 14)
3	Oxygen (Dissolved)	mg/L	6	5	4	4	-	4.7	IS 3025 (Part 38)
4	Biochemical Oxygen Demand(3 days @ 27° C)	mg/L	2	3	3	-	-	**12**	IS 3025 (Part 44)
5	Total coliforms	MPN/ 100mL	50	500	5000	-	-	**$240x10^2$**	APHA 23rd edition (9221 A, B, C). 9-68 to 9-75
6	Sodium Absorption Ratio	-	-	-	-	-	26	2.3	IS 11624
7	Free Ammonia as NH_3	mg/L	-	-	-	1.2	-	BDL	APHA 23rd edition (4500 NH3- D)
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
INFERENCE		**Class "D"**- As per Primary Water Quality Criteria – CPCB.							
		Designated best use - Propagation of Wild Life, Fisheries							

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Free Ammonia as NH3:1.0;Boron as B:0.1.

Radha M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

——End of Report——

No.PCB/CCB/CSO/2022-23/ 712 Date: 6 JUL 2022

To,

The Regional Officer,
Karnataka State Pollution Control Board,
Regional Office –**Bng. City East,**
"Nisarga Bhavana", 3rd Floor,
Thimmaiah Road, 7th D Cross,
Bengaluru.

Sir/Madam,

Sub: Submission of analysis reports – reg.

****

Adverting to the above, please find herewith enclosed the analysis reports of the Water samples received during the month of June-2022.

Sl. No.	Name of the Lake	Sample No.	Date of Receipt
1.	Ulsoor Lake (Near Fishing centre)	W-624	06-06-2022
2.	Ulsoor Lake (Near Temple)	W-625	
3.	Ulsoor Lake	W-626	
4.	Byrasandra Upper Lake	W-627	
5.	Byrasandra Lower Lake	W-628	

Thanking you,

Yours Sincerely,

Chief Scientific Officer (I/C)

Ph : 080-23238458

Email:centrallab@kspcb.gov.in
Website : http://kspcb. gov.in

TC-5487

KARNATAKA STATE POLLUTION CONTROL BOARD
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K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 29/06/2022

1	Station code	1388						
2	Date & time of Sample taken	Date	6/6/2022		Time	12.15PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Fishing Centre)					SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √		Completed by	Assistant Scientific Officer
5	Weather	Cloudy	Clear √	Windy	Raining		Verified by:	Deputy Scientific Officer
6	Depth of water body (meter)	< 50 cm	50-100√cm	>100 cm	Flood		AGENCY:	KARNATAKA
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other √ Boating		Date of commencement of test	6/6/2022
8	Colour	Clear	Turbid	Green √	Brown		Date of completion of test	15/06/2022
9	Odour	None	Fishy	H2S	Other √		Sample Report No.	**W-624**
10	Particulars of sample collected	Lake Water Sample					Sample No.	**W-624**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	8.5	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	391	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	920x10^2	APHA 23rd edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	39x10^2	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	2.4	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 ^{0}C)	mg/L	2	3	3	-	-	16	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	176	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	1.08	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.29	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	28	IS 3025 (Part 10)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	108	IS 3025 (Part 21)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	60	IS 3025 (Part 40)

P.T.O

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1	Station code	1388				Page 2of 2	
2	Date & time of Sample taken	Date	6/6/2022	Time	12.15PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Fishing Centre)				SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Date of commencement of test	6/6/2022				**W-624**	
5	Date of completion of test	15/06/2022				**W-624**	
6	Particulars of sample collected	Lake Water Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as $CaCO_3$	mg/L	-	-	-	-	-	48	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	52	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	47	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	15.0	IS 3025 (Part 45)
19	Sulphate as SO_4	mg/L	-	-	-	-	-	14	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	36	IS 3025 (Part 23)
21	Total Alkalinity as $CaCO_3$	mg/L	-	-	-	-	-	104	
22	Bicarbonate (HCO_3)	mg/L	-	-	-	-	-	68	
23	Carbonate (CO_3)	mg/L	-	-	-	-	-	72	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	262	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.21	IS 3025 (Part 60)
INFERENCE		**Class "E"**- As per Primary Water Quality Criteria – CPCB.							
		Designated best use - Irrigation, Industrial cooling, Controlled Waste disposal							

Note: 1. The above results pertain only to the sample tested.
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3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B :0.1;Total Phosphate as P:0.05.

Radha. M. N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

----End of Report----

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

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K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 29/06/2022

1	Station code	3593					Page 1of 2	
2	Date & time of Sample taken	Date	6/6/2022		Time	12.30PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(NearTemple)					SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √		Completed by	Assistant Scientific Officer
5	Weather	Cloudy	Clear √	Windy	Raining		Verified by:	Deputy Scientific Officer
6	Depth of water body (meter)	< 50 cm	50-100√ cm	>100 cm	Flood		AGENCY:	KARNATAKA
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other √ Boating		Date of commencement of test	6/6/2022
8	Colour	Clear	Turbid	Green √	Brown		Date of completion of test	15/06/2022
9	Odour	None	Fishy	H2S	Other √		Sample Report No.	**W-625**
10	Particulars of sample collected	Lake Water Sample					Sample No.	**W-625**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	6.5	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	350	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	**1600x10^2**	APHA 23rd edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	110x10^2	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	4.3	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 ^{0}C)	mg/L	2	3	3	-	-	**9.0**	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	108	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	1.1	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.14	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	18.2	IS 3025 (Part 10)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	100	IS 3025 (Part 21)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	56	IS 3025 (Part 40)

P.T.O

855

1	Station code	3593				Page 2of 2	
2	Date & time of Sample taken	Date	6/6/2022	Time	12.30PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(NearTemple)				SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Date of commencement of test	6/6/2022				**W-625**	
5	Date of completion of test	15/06/2022				**W-625**	
6	Particulars of sample collected	Lake Water Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as $CaCO_3$	mg/L	-	-	-	-	-	44	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	56	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	48	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	14	IS 3025 (Part 45)
19	Sulphate as SO_4	mg/L	-	-	-	-	-	13	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as $CaCO_3$	mg/L	-	-	-	-	-	108	
22	Bicarbonate (HCO_3)	mg/L	-	-	-	-	-	108	
23	Carbonate (CO_3)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	240	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.32	IS 3025 (Part 60)
INFERENCE		**Class "D"**- As per Primary Water Quality Criteria – CPCB.							
		Designated best use - Propagation of Wild Life, Fisheries							

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B :0.1;Total Phosphate as P:0.05.

Radha - M - N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

----End of Report----

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY
MoEF RECOGNISED ENVIRONMENTAL LABORATORY
ISO/IEC 17025 Accredited Testing Laboratory by NABL Vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

TC-5487

Email: centrallab@kspcb.gov.in
Website : http://kspcb.gov.in

K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 30-06-2022

NAME OF THE LAKE :	Ulsoor Lake		Page 1 of 1
SAMPLE COLLECTED BY :	Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	DATE OF COMMENCEMENT OF TEST :06-06-2022	
DATE OF COLLECTION :	06/06/2022	DATE OF COMPLETION OF TEST : 15-06-2022	
DATE OF RECEIPT :	06/06/2022	SAMPLE REPORT NO. : **W-626**	
PARTICULARS	Lake Water Sample	SAMPLE NO. : **W-626**	

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH at 25° C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.3	IS 3025 (Part 11)
2	Conductivity @ 25°C	µS/cm	-	-	-	-	2250	311	IS 3025 (Part 14)
3	Oxygen (Dissolved)	mg/L	6	5	4	4	-	4.2	IS 3025 (Part 38)
4	Biochemical Oxygen Demand(3 days @ 27° C)	mg/L	2	3	3	-	-	**12.0**	IS 3025 (Part 44)
5	Total coliforms	MPN/ 100mL	50	500	5000	-	-	**540×10^2**	APHA 23rd edition (9221 A, B, C). 9-68 to 9-75
6	Sodium Absorption Ratio	-	-	-	-	-	26	2.08	IS 11624
7	Free Ammonia	mg/L	-	-	-	1.2	-	BDL	APHA 23rd edition (4500 NH3- D)
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
INFERENCE		Class **"D"**- As per Primary Water Quality Criteria – CPCB.							
		Designated best use - Propagation of Wild Life, Fisheries							

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Free Ammonia :1.0;Boron as B:0.1.

Radha M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

——End of Report——

No.PCB/CCB/CSO/2022-23/ 912 **Date:** 30 JUL 2022

To,

The Regional Officer,
Karnataka State Pollution Control Board,
Regional Office –**Bng. City East,**
"Nisarga Bhavana", 3rd Floor,
Thimmaiah Road, 7th D Cross,
Bengaluru.

Sir/Madam,

Sub: Submission of analysis reports – reg.

****

Adverting to the above, please find herewith enclosed the analysis reports of the Water samples received during the month of July-2022.

Sl. No.	Name of the Lake	Sample No.	Date of Receipt
1.	Ulsoor Lake (Near Fishing centre)	**W-908**	**01-07-2022**
2.	Ulsoor Lake (Near Temple)	**W-909**	
3.	Ulsoor Lake	**W-910**	
4.	Byrasandra Upper Lake	**W-911**	

Thanking you,

Yours Sincerely,

Chief Scientific Officer (I/C)

ಪ್ರಾದೇಶಿಕ ಅಧಿಕಾರಿಗಳ ಕಛೇರಿ ಬೆಂಗಳೂರು ನಗರ ಜಿಲ್ಲೆ ಸಂ. 903 ದಿನಾಂಕ 1/8/22

1/8/2022

KARNATAKA STATE POLLUTION CONTROL BOARD
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Website : http://kspcb. gov.in

ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., ನಿಸರ್ಗಧಾಮ",
೭ ನೇ 'ಡಿ' ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 19/07/2022

Page 1of 2

1	Station code	1388					
2	Date & time of Sample taken	Date	1/7/2022	Time	01.15 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Fishing Centre)				SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √	Completed by	Project Assistant
5	Weather	Cloudy	Clear √	Windy	Raining	Verified by:	Deputy Scientific Officer
6	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood	AGENCY:	KARNATAKA
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other √ Boating	Date of commencement of test	1/7/2022
8	Colour	Clear	Turbid	Green√	Brown	Date of completion of test	8/7/2022
9	Odour	None	Fishy	H2S	Other √	Sample Report No.	**W-908**
10	Particulars of sample collected	Lake Water Sample				Sample No.	**W-908**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	8.5	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	298	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	1600x10^2	APHA 23rd edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	150x10^2	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	0.6	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 °C)	mg/L	2	3	3	-	-	17.4	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	150	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	1.2	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.3	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	36.1	IS 3025 (Part 10)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	60	IS 3025 (Part 21)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	32	IS 3025 (Part 40)

P.T.O

1	Station code	1388				Page 2of 2	
2	Date & time of Sample taken	Date	1/7/2022	Time	01.15 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Fishing Centre)				SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Date of commencement of test	1/7/2022				**W-908**	
5	Date of completion of test	8/7/2022				**W-908**	
6	Particulars of sample collected	Lake Water Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as $CaCO_3$	mg/L	-	-	-	-	-	28	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	40	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	34	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	6.3	IS 3025 (Part 45)
19	Sulphate as SO_4	mg/L	-	-	-	-	-	5.0	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	16	IS 3025 (Part 23)
21	Total Alkalinity as $CaCO_3$	mg/L	-	-	-	-	-	88	
22	Bicarbonate (HCO_3)	mg/L	-	-	-	-	-	88	
23	Carbonate (CO_3)	mg/L	-	-	-	-	-	16	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	202	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.17	IS 3025 (Part 60)
INFERENCE		**Class "E"**- As per Primary Water Quality Criteria – CPCB.							
		Designated best use - Irrigation, Industrial cooling, Controlled Waste disposal							

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B :0.1;Total Phosphate as P:0.05.

Radha. M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

----End of Report----

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

KARNATAKA STATE POLLUTION CONTROL BOARD
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ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., ನಿಸರ್ಗಭವನ",
೭ ನೇ 'ಡಿ' ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 19/07/2022

1	Station code	3593						
2	Date & time of Sample taken	Date	1/7/2022		Time	12.55 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Temple)					SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO RO: Bng City East	
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √		Completed by	Project Assistant
5	Weather	Cloudy	Clear √	Windy	Raining		Verified by:	Deputy Scientific Officer
6	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood		AGENCY:	KARNATAKA
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other√ Boating		Date of commencement of test	1/7/2022
8	Colour	Clear	Turbid	Green√	Brown		Date of completion of test	8/7/2022
9	Odour	None	Fishy	H2S	Other √		Sample Report No.	W-909
10	Particulars of sample collected	Lake Water Sample					Sample No.	W-909

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	8.6	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	298	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	920x10^2	APHA 23rd edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	84x10^2	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	0.5	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 ^{0}C)	mg/L	2	3	3	-	-	19.3	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	164	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	1.2	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.3	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	35.7	IS 3025 (Part 10)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	56	IS 3025 (Part 21)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	28	IS 3025 (Part 40)

P.T.O

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ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., "ನಿಸರ್ಗಭವನ",
೭ ನೇ 'ಡಿ' ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 20/07/2022

NAME OF THE LAKE :	Ulsoor Lake	Page 1 of 1
SAMPLE COLLECTED BY :	Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	DATE OF COMMENCEMENT OF TEST : 01-07-2022
DATE OF COLLECTION :	1/7/2022	DATE OF COMPLETION OF TEST : 06-07-2022
DATE OF RECEIPT :	1/7/2022	SAMPLE REPORT NO. : **W-910**
PARTICULARS	Lake Water Sample	SAMPLE NO. : **W-910**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH at 25° C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	8.6	IS 3025 (Part 11)
2	Conductivity @ 25°C	µs/cm	-	-	-	-	2250	297	IS 3025 (Part 14)
3	Oxygen (Dissolved)	mg/L	6	5	4	4	-	**0.5**	IS 3025 (Part 38)
4	Biochemical Oxygen Demand(3 days @ 27° C)	mg/L	2	3	3	-	-	18.7	IS 3025 (Part 44)
5	Total coliforms	MPN/ 100mL	50	500	5000	-	-	$350x10^2$	APHA 23rd edition (9221 A, B, C). 9-68 to 9-75
6	Sodium Absorption Ratio	-	-	-	-	-	26	2.0	IS 11624
7	Free Ammonia	mg/L	-	-	-	1.2	-	BDL	APHA 23rd edition (4500 NH3- D)
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
INFERENCE		**Class "E"**- As per Primary Water Quality Criteria – CPCB.							
		Designated best use.- Irrigation, Industrial cooling, Controlled Waste disposal							

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Free Ammonia as NH_3:1.0; Boron as B:0.1.

Radha. M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

———End of Report———

No.PCB/CCB/CSO/2022-23/ 1294 **Date:** 20 SEP 2022

To,

The Regional Officer,
Karnataka State Pollution Control Board,
Regional Office –**Bng. City East,**
"Nisarga Bhavana", 3rd Floor,
Thimmaiah Road, 7th D Cross,
Bengaluru.

Sir/Madam,

Sub: Submission of analysis reports – reg.

****

Adverting to the above, please find herewith enclosed the analysis reports of the Water samples received during the month of August -2022.

Sl. No.	Name of the Lake	Sample No.	Date of Receipt
1.	Ulsoor Lake (Near Fishing centre)	**W-1203**	**01-08-2022**
2.	Ulsoor Lake (Near Temple)	**W-1204**	
3.	Ulsoor Lake	**W-1205**	
4.	Byrasandra Upper Lake	**W-1206**	
5.	Byrasandra Lower Lake	**W-1207**	

Thanking you,

Yours Sincerely,

Chief Scientific Officer (I/C)

ಪರಿಸರ ಅಧಿಕಾರಿಗಳ ಕಛೇರಿ ಬೆಂಗಳೂರು ನಗರ ಜಿಲ್ಲೆ ಸಂ: 123 26/9/22

Email: centrallab@kspcb.gov.in
Website : http://kspcb. gov.in

TC-5487

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CENTRAL ENVIRONMENTAL LABORATORY

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ISO/IEC 17025 Accredited Testing Laboratory by NABL Vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 15-09-2022

1	Station code	1388					
2	Date & time of Sample taken	Date	01-08-2022	Time	01.35 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Fishing Centre)				SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √	Completed by	Scientific Assistant
5	Weather	Cloudy	Clear √	Windy	Raining	Verified by:	Deputy Scientific Officer
6	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood	AGENCY:	KARNATAKA
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other √ Boating	Date of commencement of test	01-08-2022
8	Colour	Clear	Turbid	Green√	Brown	Date of completion of test	06-08-2022
9	Odour	None	Fishy	H2S	Other √	Sample Report No.	**W-1203**
10	Particulars of sample collected	Lake Water Sample				Sample No.	**W-1203**

Sl. No	Parameters	Unit	Water Quality Criteria A	B	C	D	E	Result	Test Method
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	8.0	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	263	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	**54000**	APHA 23rd edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	4800	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4			
7	Biochemical Oxygen Demand(3 days @ 27 °C)	mg/L	2	3	3			6.0	IS 3025 (Part 38)
8	Chemical Oxygen Demand	mg/L						**5.0**	IS 3025 (Part 44)
9	Boron as B	mg/L	-	-	-	-	-	54	IS 3025 (Part 58)
10	Nitrate as N	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
11	Ammonia as N	mg/L	-	-	-	-	-	0.8	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	0.11	IS 3025 (Part 34)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	18	IS 3025 (Part 10)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	68	IS 3025 (Part 21)
			-	-	-	-	-	40	IS 3025 (Part 40)

P.T.O

1	Station code	1388				Page 2of 2	
2	Date & time of Sample taken	Date	01-08-2022	Time	01.35 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Fishing Centre)				SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Date of commencement of test	01-08-2022				**W-1203**	
5	Date of completion of test	06-08-2022				**W-1203**	
6	Particulars of sample collected	Lake Water Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as $CaCO_3$	mg/L	-	-	-	-	-	28	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	36	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	27	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	3.0	IS 3025 (Part 45)
19	Sulphate as SO_4	mg/L	-	-	-	-	-	4.0	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as $CaCO_3$	mg/L	-	-	-	-	-	76	
22	Bicarbonate (HCO_3)	mg/L	-	-	-	-	-	76	
23	Carbonate (CO_3)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	182	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 60)

INFERENCE	**Class "D"**- As per Primary Water Quality Criteria – CPCB.
	Designated best use - Propagation of Wild Life, Fisheries

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B :0.1;Total Phosphate as P:0.05;Fluoride as F:0.1.

Radha. M. N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

----End of Report----

080-23238458

Email:centrallab@kspcb.gov.in
Website : http://kspcb. gov.in

TC-5487

KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

MoEF RECOGNISED ENVIRONMENTAL LABORATORY
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ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., ನಿಸರ್ಗಭವನ",
೭ ನೇ 'ಡಿ'ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 15-09-2022

1	Station code	3593					Type of Water Body	Lake
2	Date & time of Sample taken	Date	01-08-2022		Time	01.55 PM		
3	Name of Monitoring Station	Ulsoor Lake(Near Temple)					SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √		Completed by	Scientific Assistant
5	Weather	Cloudy	Clear √	Windy	Raining		Verified by:	Deputy Scientific Officer
6	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood		AGENCY:	KARNATAKA
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other √ Boating		Date of commencement of test	01-08-2022
8	Colour	Clear	Turbid	Green √	Brown		Date of completion of test	06-08-2022
9	Odour	None	Fishy	H2S	Other √		Sample Report No.	**W-1204**
10	Particulars of sample collected	Lake Water Sample					Sample No.	**W-1204**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	8.0	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	262	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	**35000**	APHA 23rd edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	2100	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	6.1	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 ^{0}C)	mg/L	2	3	3	-	-	**5.0**	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	50	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	4.0	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.1	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	17.8	IS 3025 (Part 10)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	68	IS 3025 (Part 21)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	40	IS 3025 (Part 40)

P.T.O

1	Station code	3593				Page 2of 2	
2	Date & time of Sample taken	Date	01-08-2022	Time	01.55 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Temple)				SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Date of commencement of test	01-08-2022				**W-1204**	
5	Date of completion of test	06-08-2022				**W-1204**	
6	Particulars of sample collected	Lake Water Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as $CaCO_3$	mg/L	-	-	-	-	-	28	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	36	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	27	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	3.0	IS 3025 (Part 45)
19	Sulphate as SO_4	mg/L	-	-	-	-	-	4.0	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as $CaCO_3$	mg/L	-	-	-	-	-	76	
22	Bicarbonate (HCO_3)	mg/L	-	-	-	-	-	76	
23	Carbonate (CO_3)	mg/L	-	-	-	-	-	Nil	
24	*Total Dissolved Solids*	mg/L	-	-	-	-	-	180	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 60)

INFERENCE	**Class "D"**- As per Primary Water Quality Criteria – CPCB.
	Designated best use - Propagation of Wild Life, Fisheries

Note: 1. The above results pertain only to the sample tested.
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3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B :0.1;Total Phosphate as P:0.05;Fluoride as F:0.1.

Radha. M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

----End of Report----

0-23238458

Email:centrallab@kspcb.gov.in
Website : http://kspcb. gov.in

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KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

MoEF RECOGNISED ENVIRONMENTAL LABORATORY
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ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., ನಿಸರ್ಗಧಾಮ",
೭ ನೇ 'ಡಿ' ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು–೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 15-09-2022

NAME OF THE LAKE :	Ulsoor Lake	Page 1 of 1
SAMPLE COLLECTED BY :	Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	DATE OF COMMENCEMENT OF TEST : 01-08-2022
DATE OF COLLECTION :	01-08-2022	DATE OF COMPLETION OF TEST : 06-08-2022
DATE OF RECEIPT :	01-08-2022	SAMPLE REPORT NO. : **W-1205**
PARTICULARS	Lake Water Sample	SAMPLE NO. : **W-1205**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH at 25° C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	6.6	IS 3025 (Part 11)
2	Conductivity @ 25°C	µs/cm	-	-	-	-	2250	283	IS 3025 (Part 14)
3	Oxygen (Dissolved)	mg/L	6	5	4	4	-	5.1	IS 3025 (Part 38)
4	Biochemical Oxygen Demand(3 days @ 27° C)	mg/L	2	3	3	-	-	**6.0**	IS 3025 (Part 44)
5	Total coliforms	MPN/ 100mL	50	500	5000	-	-	**160000**	APHA 23rd edition (9221 A, B, C). 9-68 to 9-75
6	Sodium Absorption Ratio	-	-	-	-	-	26	BDL	IS 11624
7	Free Ammonia	mg/L	-	-	-	1.2	-	BDL	APHA 23rd edition (4500 NH3- D)
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
INFERENCE			**Class "D"**- As per Primary Water Quality Criteria – CPCB.						
			Designated best use - Propagation of Wild Life, Fisheries						

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Free Ammonia as NH_3:1.0; Sodium Absorption Ratio:2.0;Boron as B:0.1.

Radha. M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

———End of Report———

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ

KARNATAKA STATE POLLUTION CONTROL BOARD

ಕೇಂದ್ರ ಪರಿಸರ ಪ್ರಯೋಗಾಲಯ / CENTRAL ENVIRONMENTAL LABORATORY
Legal 42(3)/87, E(P)ACT, 1986 RECOGNISED ENVIRONMENTAL LABORATORY
ISO 9001 : 2015 and ISO 45001 : 2018 CERTIFIED LABORATORY

No.PCB/CCB/CSO/2022-23/ 1486 **Date:** 14 OCT 2022

To,

The Regional Officer,
Karnataka State Pollution Control Board,
Regional Office –**Bng. City East,**
"Nisarga Bhavana", 3rd Floor,
Thimmaiah Road, 7th D Cross,
Bengaluru.

Sir/Madam,

Sub: Submission of analysis reports – reg.

****

Adverting to the above, please find herewith enclosed the analysis reports of the Water samples received during the month of September-2022.

Sl. No.	Name of the Lake	Sample No.	Date of Receipt
1.	Ulsoor Lake (Near Fishing centre)	W-1949	07-09-2022
2.	Ulsoor Lake (Near Temple)	W-1950	
3.	Ulsoor Lake	W-1951	
4.	Byrasandra Upper Lake	W-1952	
5.	Byrasandra Lower Lake	W-1953	

Thanking you,

Yours Sincerely,

H Roopadevi

Chief Scientific Officer (I/C)

18/10/2022

1442 18/10/22

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KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY
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ಒ ನೇ 'ಡಿ'ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 11-10-2022

1	Station code	1388					Page 1of 2	
2	Date & time of Sample taken	Date	07-09-2022		Time	01.55 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Fishing Centre)					SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √		Completed by	Scientific Assistant
5	Weather	Cloudy	Clear √	Windy	Raining		Verified by:	Deputy Scientific Officer
6	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood		AGENCY:	KARNATAKA
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other √ Boating		Date of commencement of test	07-09-2022
8	Colour	Clear	Turbid	Green√	Brown		Date of completion of test	13-09-2022
9	Odour	None	Fishy	H2S	Other √		Sample Report No.	**W-1949**
10	Particulars of sample collected	Lake Water Sample					Sample No.	**W-1949**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.3	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	293	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	**5400**	APHA 23rd edition(9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	460	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	5.9	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 ^{0}C)	mg/L	2	3	3	-	-	**4.0**	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	40	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	1.12	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.12	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	32.5	IS 3025 (Part 10)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	76	IS 3025 (Part 21)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	44	IS 3025 (Part 40)

P.T.O

1	Station code	1388				Page 2of 2	
2	Date & time of Sample taken	Date	07-09-2022	Time	01.55 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Fishing Centre)				SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Date of commencement of test	07-09-2022				**W-1949**	
5	Date of completion of test	13-09-2022				**W-1949**	
6	Particulars of sample collected	Lake Water Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as $CaCO_3$	mg/L	-	-	-	-	-	32	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	48	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	23	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	6.0	IS 3025 (Part 45)
19	Sulphate as SO_4	mg/L	-	-	-	-	-	3.0	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as $CaCO_3$	mg/L	-	-	-	-	-	60	
22	Bicarbonate (HCO_3)	mg/L	-	-	-	-	-	60	
23	Carbonate (CO_3)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	206	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.14	IS 3025 (Part 60)
INFERENCE		**Class "D"**- As per Primary Water Quality Criteria – CPCB.							
		Designated best use - Propagation of Wild Life, Fisheries							

Note: 1. The above results pertain only to the sample tested.
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3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B :0.1;Total Phosphate as P:0.05.

Radha. M. N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

----End of Report----

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

Ph : 080-23238458

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Website : http://kspcb. gov.in

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TC-5487

ಕ.ಮಾ.ಮಂ.ನಿ.ಮಂ., ನಿಸರ್ಗಭವನ",
೭ ನೇ 'ಡಿ'ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 11-10-2022

1	Station code	3593						
2	Date & time of Sample taken	Date	07-09-2022		Time	02.15 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Temple)					SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Visible Effluent Discharge in Proximity	None	Moderate	High	Other √		Completed by	Scientific Assistant
5	Weather	Cloudy	Clear √	Windy	Raining		Verified by:	Deputy Scientific Officer
6	Depth of water body (meter)	< 50 cm	50-100cm√	>100 cm	Flood		AGENCY:	KARNATAKA
7	Human Activities	Cattle Wading	Melon Farming	Fishing√	Other √ Boating		Date of commencement of test	07-09-2022
8	Colour	Clear	Turbid	Green√	Brown		Date of completion of test	13-09-2022
9	Odour	None	Fishy	H2S	Other √		Sample Report No.	**W-1950**
10	Particulars of sample collected	Lake Water Sample					Sample No.	**W-1950**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	Temperature	°C	-	-	-	-	-	25	Thermometric
2	pH@25^0 C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	7.9	IS 3025 (Part 11)
3	Conductivity@25^0 C	µs/cm	-	-	-	-	2250	276	IS 3025 (Part 14)
4	Total Coliform	MPN /100ml	50	500	5000	-	-	**35000**	APHA 23rd edition (9221 A, B, C). 9-68 to 9-75
5	Fecal Coliform	MPN /100ml	-	500 (Desirable) 2500 (Max permissible)	-	-	-	7000	APHA 23rd edition (9221 E,D). 9-77 to 9-78
6	Dissolved Oxygen	mg/L	6	5	4	4	-	6.1	IS 3025 (Part 38)
7	Biochemical Oxygen Demand(3 days @ 27 ^{0}C)	mg/L	2	3	3	-	-	**4.0**	IS 3025 (Part 44)
8	Chemical Oxygen Demand	mg/L	-	-	-	-	-	39	IS 3025 (Part 58)
9	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)
10	Nitrate as N	mg/L	-	-	-	-	-	1.06	IS 3025 (Part 34)
11	Ammonia as N	mg/L	-	-	-	-	-	0.11	IS 3025 (Part 34)
12	Turbidity	NTU	-	-	-	-	-	38.5	IS 3025 (Part 10)
13	Total Hardness as $CaCO_3$	mg/L	-	-	-	-	-	72	IS 3025 (Part 21)
14	Calcium as $CaCO_3$	mg/L	-	-	-	-	-	40	IS 3025 (Part 40)

P.T.O

1	Station code	3593				Page 2of 2	
2	Date & time of Sample taken	Date	07-09-2022	Time	02.15 PM	Type of Water Body	Lake
3	Name of Monitoring Station	Ulsoor Lake(Near Temple)				SAMPLE COLLECTED BY : Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	
4	Date of commencement of test	07-09-2022				**W-1950**	
5	Date of completion of test	13-09-2022				**W-1950**	
6	Particulars of sample collected	Lake Water Sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
15	Magnesium as $CaCO_3$	mg/L	-	-	-	-	-	32	IS 3025 (Part 46)
16	Chloride as Cl	mg/L	-	-	-	-	-	44	IS 3025 (Part 32)
17	Sodium as Na	mg/L	-	-	-	-	-	22	IS 3025 (Part 45)
18	Potassium as K	mg/L	-	-	-	-	-	6.0	IS 3025 (Part 45)
19	Sulphate as SO_4	mg/L	-	-	-	-	-	3.0	IS 3025 (Part 24)
20	P- Alkalinity	mg/L	-	-	-	-	-	Nil	IS 3025 (Part 23)
21	Total Alkalinity as $CaCO_3$	mg/L	-	-	-	-	-	76	
22	Bicarbonate (HCO_3)	mg/L	-	-	-	-	-	76	
23	Carbonate (CO_3)	mg/L	-	-	-	-	-	Nil	
24	Total Dissolved Solids	mg/L	-	-	-	-	-	194	IS 3025 (Part 16)
25	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31)
26	Fluoride as F	mg/L	-	-	-	-	-	0.16	IS 3025 (Part 60)

INFERENCE	**Class "D"**- As per Primary Water Quality Criteria – CPCB.
	Designated best use - Propagation of Wild Life, Fisheries

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Boron as B :0.1;Total Phosphate as P:0.05.

Radha. M.N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

----End of Report----

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

Email:centrallab@kspcb.gov.in
Website : http://kspcb. gov.in

KARNATAKA STATE POLLUTION CONTROL BOARD
CENTRAL ENVIRONMENTAL LABORATORY

MoEF RECOGNISED ENVIRONMENTAL LABORATORY
ISO/IEC 17025 Accredited Testing Laboratory by NABL Vide Certificate Number TC-5487
ISO 9001:2015 and ISO 45001:2018 CERTIFIED LABORATORY

TC-5487

ಕ.ರಾ.ಮಾ.ನಿ.ಮಂ., ನಿಸರ್ಗಧಾಮ",
೮ ನೇ 'ಡಿ' ಮುಖ್ಯ ರಸ್ತೆ, ತಿಮ್ಮಯ್ಯ ರಸ್ತೆ,
ಶಿವನಗರ, ಬೆಂಗಳೂರು-೫೬೦೦೭೯
K.S.P.C.B., "Nisarga Bhavan"
7th D Cross, Thimmaiah Road,
Shivanagar, Bangalore – 560079

ANALYSIS REPORT

Date : 11-10-2022

NAME OF THE LAKE :	Ulsoor Lake	Page 1 of 1
SAMPLE COLLECTED BY :	Sri. M.M.Ameenulla Baig, DEO **RO: Bng City East**	DATE OF COMMENCEMENT OF TEST : 07-09-2022
DATE OF COLLECTION :	07-09-2022	DATE OF COMPLETION OF TEST : 14-09-2022
DATE OF RECEIPT :	07-09-2022	SAMPLE REPORT NO. : **W-1951**
PARTICULARS	Near Kalyani	SAMPLE NO. : **W-1951**

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH at 25° C	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	6.8	IS 3025 (Part 11)
2	Conductivity @ 25°C	µs/cm	-	-	-	-	2250	303	IS 3025 (Part 14)
3	Oxygen (Dissolved)	mg/L	6	5	4	4	-	**BDL**	IS 3025 (Part 38)
4	Biochemical Oxygen Demand(3 days @ 27° C)	mg/L	2	3	3	-	-	31	IS 3025 (Part 44)
5	Total coliforms	MPN/ 100mL	50	500	5000	-	-	24000	APHA 23rd edition (9221 A, B, C). 9-68 to 9-75
6	Sodium Absorption Ratio	-	-	-	-	-	26	BDL	IS 11624
7	Free Ammonia	mg/L	-	-	-	1.2	-	BDL	APHA 23rd edition (4500 NH3- D)
8	Boron as B	mg/L	-	-	-	-	2	BDL	APHA 23rd edition (4500-B B)

INFERENCE	**Class "E"**- As per Primary Water Quality Criteria – CPCB.
	Designated best use - Irrigation, Industrial cooling, Controlled Waste disposal

Note: 1. The above results pertain only to the sample tested.
2. The report shall not be reproduced without the written approval of the laboratory.
3. Samples will be stored for a period of 10 days from the date of issue of report.
4. Decision Rule: "Statement of conformity applies only to analysis of results which meets the standards stipulated by regulatory authority".
5. BDL: Below Detection Level in mg/L.
Free Ammonia as NH_3:1.0; Sodium Absorption Ratio:2.0;Boron as B:0.1;Oxygen (Dissolved):0.5.

Radha. M. N

Authorized Signatory (Biological)
(Radha M.N)
Assistant Scientific Officer

Authorized Signatory (Chemical)
(Farhath Jabeen)
Deputy Scientific Officer

———End of Report———

ੴ ਸਤਿਗੁਰ ਪ੍ਰਸਾਦਿ ॥

ਸ੍ਰੀ ਗੁਰੂ ਸਿੰਘ ਸਭਾ (ਰਜਿ:)

SRI GURU SINGH SABHA (Regd.)

(A Sikh Religious & Linguistic Minority Organisation)

Annexure-V

Date: 31st Oct 2022

To,
Environmental Officer,
Karnataka State Pollution Control Board,

Regional Office: Bangalore City East,

Nisarga Bhavan, 3rd Floor, 7th D Main,

Thimmaiah Road, Shivanagar, Bangalore – 10

Ref: Your letter No. PCB/BCE/NGT OA 308 OF 2022 / 2022-23/ 955 dated 27th Oct 2022

With Reference to the above, we wish to state as mention below:-

1. We wish to inform you that total built up area of Gurdwara Sri Guru Singh Sabha which is getting renovated is less than 5000 sq. mtrs.
2. In this case STP is not required as per the norms and condition.
3. This is certified that no further raising of building is required and not being undertaken.
4. Our place of worship is downstream of the Ulsoor lake and water flow will not affect the flow of the lake in the storm water drain during rainy season.
5. It is also intimated that floating devotees come and pay respect for a short period and leave the premises. Only few staff to look after the premises stay.
6. In view of above facts you are requested to clear the project which is the modification to the old building.

Thanking You,

For Sri Guru Singh Sabha,

SRI GURU SINGH SABHA HALASURU BANGALORE 560 008 INDIA GURUDWARA ROAD

Col. MS. Khaira.

Chairman (SGSS RD Committee)

2/11/22

Gurdwara Road, Halasuru, Bengaluru-560 008 Karnataka (INDIA)
Phone: 080-25553461 Email: sgssblr@gmail.com Website: www.sgssbangalore.com

ੴ ਸਤਿਗੁਰ ਪ੍ਰਸਾਦਿ ॥

ਸ੍ਰੀ ਗੁਰੂ ਸਿੰਘ ਸਭਾ (ਰਜਿ:)

SRI GURU SINGH SABHA (Regd.)

(A Sikh Religious & Linguistic Minority Organisation)

Annexure-VI

Date: 2nd Nov 2022

To,
The Environmental Officer
R.O. Bengaluru City East
Karnataka State Pollution Control Board,
Nisarga Bhavan, Shivanagar,
Bengaluru-560 010

Sir,

Sub: Reply to Notice of proposed directions issued on 31.10.2022

Ref: 1. Your office notice no.322 dated 15.06.2022
2. Inspection of joint committee on 01.07.2022
3. Your office notice dated 03.10.2022
4. Your notice of proposed directions No. KSPCB/RSEO/BNG-City/NPD/2022-23/257/ dated 31.10.2022

With reference to the above subject, it is to be submit that, our Gurudwara is registered under Sikh Gurudwara Act 1925 and also under registration of Society Act XXI of 1960 and this Gurusingh Sabha is existing since 1941 and is established for convenience of devotees and school students.

Now we have started to expand the Gurudwara by modifying existing building for providing few rooms, kitchen langar area for our pilgrims and the expansion activity of about 4000 Sq.mt area and not more than that.

Further it is to be submit that, we have executed registered lease deed on 11.01.1980 in favour of Guru Singh Sabha for land measuring 8284 Sqft over the municipal drain behind the existing building for a period of 50 years on lease on payment of Rs.200/- as lease amount/annum and permitted to use the scheduled land only for its purpose by covering the drain with RCC vide approval on 08.04.1983.

Also vide BBMP order dated 29.05.1996 the approval had given to cover the storm water drain which is located adjacent to Gurudwara for the purpose of multi-level vehicle parking and to facilitate devotees to utilize the area during festivals and other functions.

3/11/2022

Gurdwara Road, Halasuru, Bengaluru-560 008 Karnataka (INDIA)
Phone: 080-25553461 Email: sgssblr@gmail.com Website: www.sgssbangalore.com

ੴ ਸਤਿਗੁਰ ਪ੍ਰਸਾਦਿ ॥
ਸ੍ਰੀ ਗੁਰੂ ਸਿੰਘ ਸਭਾ (ਰਜਿ:)
SRI GURU SINGH SABHA (Regd.)
(A Sikh Religious & Linguistic Minority Organisation)

Further, Gurudwara is running a Guru Harikishan public school from 1st to 10th Standard accommodating about 550 students from backward, down toddler's classes with free education & food and this school is constructed by extending the roof cover SWD at first floor level by making provision for free flow of water in the SWD.

Whereas Gurudwara is built at the downstream of the lake and the proposed expansion built-up grea is less than 5000 Sqmt. Copy of building plan is enclosed for your kind reference.

Whereas Gurudwara is non-profit making organizations and we will not provide any sewage treatment plant and we have the full pledge underground sewage system.

Whereas Gurudwara will have necessary permission from BWSSB and we have good sewer line and also the generated sewage will be discharging into BWSSB sewer line, same will be treated BWSSB terminal sewage treatment plant and will not pollute at any point of time.

As our expansion activity is less than 5000 Sqmt and hence we are exempted from the notification vide No. FEE 316 EPC 2015 dated 19-01-2016 i.e. institutions/education institutions with or without hostel facility having built-up area of 5000 Sqmt and above shall install Sewage Treatment Plant.

In view of the above, it is requested to consider our above said points and not to issue further course of action.

Thanking you,

Yours faithfully,

Col. MS Khaira
Chairman (SGSS RD Committee)

Gurdwara Road, Halasuru, Bengaluru-560 008 Karnataka (INDIA)
Phone: 080-25553461 Email: sgssblr@gmail.com Website: www.sgssbangalore.com

AREA CALCULATIONS

1	Basement lvl	5,475 sqft
2	Langar lvl	14,015 sqft
3	Prayer hall level	12,355 sqft
4	Dorm 1 lvl	7,834 sqft
5	Dorm 2 lvl	6,312 sqft
	Total	45,991 sqft

42 FT 2 Sq mts

Annexure-VII

O/C

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ರವರ ಕಛೇರಿ, ಬೃಹತ್ ನೀರುಗಾಲುವೆ-ಪೂರ್ವ ಉಪವಿಭಾಗ, 9ನೇ ಮಹಡಿ, ಜಯನಗರ ವಾಣಿಜ್ಯ ಸಂಕೀರ್ಣ, ಜಯನಗರ, ಬೆಂಗಳೂರು-560011.

ಸಂಖ್ಯೆ : ಕಾ.ಪಾ.ಅ/ಬೃ.ನಿ.ಗಾ/ಪೂರ್ವ/ಪಿ.ಆರ್/ 86 /20-21 ದಿನಾಂಕ: 15.02.2021

ಇವರಿಗೆ,

ಜಂಟಿ ಆಯುಕ್ತರು,
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ,
ಪೂರ್ವ ವಲಯ, ಮೇಯೋಹಾಲ್,
ಬೆಂಗಳೂರು.

CE SWD
Discuss in detail

ವಿಶೇಷ ಆಯುಕ್ತರು (ಯೋಜನೆ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಮಾನ್ಯರೇ,

ವಿಷಯ:- ರಾಜಕಾಲುವೆಯನ್ನು ಒತ್ತುವರಿ ಮಾಡಿಕೊಂಡು ಗುರುದ್ವಾರ ಕಟ್ಟಡ ಹಾಗೂ ಶಾಲೆಯನ್ನು ನಿರ್ಮಿಸುತ್ತಿರುವ ಬಗ್ಗೆ ದೂರು.

ಉಲ್ಲೇಖ: 1) ನೋಡಲ್ ಅಧಿಕಾರಿ ವಾರ್ಡ್ ಸಂಖ್ಯೆ: 90 ಹಲಸೂರು ರವರ ಪತ್ರ ಸಂಖ್ಯೆ: ಜಂ.ಆ/ಪಿ.ಆರ್/386/2020-21, ದಿನಾಂಕ: 09-12-2020.
2) ಶ್ರೀ ಚಂದ್ರನ್‌ರವರ ದೂರಿನ ಪತ್ರ, ದಿನಾಂಕ: 02.11.2020
3) ಈ ಕಛೇರಿಯ ಸಂಖ್ಯೆ:ಸಂ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ-ಪೂ/63/2020-21,ದಿನಾಂಕ:07-01-21
4) ಈ ಕಛೇರಿಯ ಸಂಖ್ಯೆ:ಸಂ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ-ಪೂ/74/2020-21,ದಿನಾಂಕ:20-01-21
5) ಈ ಕಛೇರಿಯ ಸಂಖ್ಯೆ:ಸಂ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ-ಪೂ/77/2020-21,ದಿನಾಂಕ:02-02-21
6) ಈ ಕಛೇರಿಯ ಸಂಖ್ಯೆ:ಸಂ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ-ಪೂ/77/2020-21,ದಿನಾಂಕ:02-02-21
7) ಈ ಕಛೇರಿಯ ಸಂಖ್ಯೆ:ಸಂ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ-ಪೂ/79/2020-21,ದಿನಾಂಕ:04-02-21
8) ಈ ಕಛೇರಿಯ ಸಂಖ್ಯೆ:ಸಂ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ-ಪೂ/80/2020-21,ದಿನಾಂಕ:05-02-21

******

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ರಾಜಕಾಲುವೆಯನ್ನು ಒತ್ತುವರಿ ಮಾಡಿಕೊಂಡು ಗುರುದ್ವಾರ ಕಟ್ಟಡದ ಕಾಮಗಾರಿ ಮತ್ತು ಶಾಲೆಯನ್ನು ನಿರ್ಮಾಣ ಮಾಡುತ್ತಿರುವ ಬಗ್ಗೆ ಈ ಕಛೇರಿಯಲ್ಲಿ ಉಲ್ಲೇಖಿತ(1) ಮತ್ತು (2)ರ ಪತ್ರದಲ್ಲಿ ದೂರು ಸ್ವೀಕೃತವಾಗಿರುವ ಹಿನ್ನಲೆಯಲ್ಲಿ ದಿನಾಂಕ:02-01-2021 ರಂದು ಸ್ಥಳ ಪರಿವೀಕ್ಷಣೆ ಮಾಡಲಾಯಿತು. ಸದರಿ ಸಂದರ್ಭದಲ್ಲಿ ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆಯ ಬಫರ್ ಪ್ರದೇಶದಲ್ಲಿ ಗುರುದ್ವಾರದ ನವೀಕರಣ ಕಾಮಗಾರಿಯನ್ನು ಪ್ರಾರಂಭಿಸಿರುವುದು ಕಂಡು ಬಂದಿರುತ್ತದೆ. ಸದರಿ ಕಾಮಗಾರಿಗೆ ನಕ್ಷೆ ಮಂಜೂರಾತಿ ಅನುಮತಿಗಳನ್ನು ಪಡೆದಿರುವ ಬಗ್ಗೆ ಪರಿಶೀಲಿಸಲು ಹಾಗೂ ಅಗತ್ಯ ಕ್ರಮಕೈಗೊಳ್ಳಲು ಶ್ರೀ.ಗುರುಸಿಂಗ್‌ಸಭಾ ಅಧ್ಯಕ್ಷರು ಹಾಗೂ ಸದಸ್ಯರು, ಕೆನ್ನಿಂಗ್ಟನ್‌ರಸ್ತೆ, ಹಲಸೂರು, ಬೆಂಗಳೂರು ರವರಿಗೆ ಉಲ್ಲೇಖ (3) ರಂತೆ ಮೊದಲನೇ ತಿಳುವಳಿಕೆ ಪತ್ರವನ್ನು ನೀಡಲಾಗಿರುತ್ತದೆ.

ಮುಂದುವರೆದು ಸದರಿ ಕಾಮಗಾರಿಗೆ ನಕ್ಷೆ ಮಂಜೂರಾತಿ ಅನುಮತಿಗಳನ್ನು ನೀಡಿರುವ ಬಗ್ಗೆ ಪರಿಶೀಲಿಸಲು ಹಾಗೂ ಮುಂದಿನ ಅಗತ್ಯ ಕ್ರಮಕೈಗೊಳ್ಳಲು ಕೋರಿ ಉಲ್ಲೇಖ (4) ರಂತೆ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ಶಿವಾಜಿನಗರ ವಿಭಾಗ, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ, ಬೆಂಗಳೂರು ರವರಿಗೆ ಪತ್ರವನ್ನು ಬರೆಯಲಾಗಿದೆ.

ಮುಂದುವರೆದು ಅಧ್ಯಕ್ಷರು, ಶ್ರೀ.ಗುರುಸಿಂಗ್‌ಸಭಾ ದವರಿಂದ ಯಾವುದೇ ದಾಖಲಾತಿಗಳು ಈ ಕಛೇರಿಯಲ್ಲಿ ಸ್ವೀಕೃತವಾಗದಿರುವ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ದಿನಾಂಕ:02-02-2021 ರಂದು ಸ್ಥಳ ಪರಿವೀಕ್ಷಣೆ ಮಾಡಿದ ಸಂದರ್ಭದಲ್ಲಿ ಪಾಲಿಕೆ ವತಿಯಿಂದ ಯಾವುದೇ ಅನುಮೋದನೆ ಪಡೆಯದೆ ಅವೈಜ್ಞಾನಿಕವಾಗಿ ರಾಜಕಾಲುವೆಯಲ್ಲಿಯೇ ಆರ್.ಸಿ.ಸಿ ಕಾಲಂಗಳನ್ನು ನಿರ್ಮಿಸುತ್ತಿರುವುದು ಕಂಡುಬಂದಿರುವ ಕಾರಣ ಕಾಮಗಾರಿಯನ್ನು ಈ ಕೂಡಲೇ ಸ್ಥಗಿತಗೊಳಿಸಲು ಸ್ಥಳದಲ್ಲೇ ಸೂಚಿಸಿ, ಅಧ್ಯಕ್ಷರು, ಶ್ರೀ.ಗುರುಸಿಂಗ್‌ಸಭಾ ಕೆನ್ಸಿಂಗ್ಟನ್‌ರಸ್ತೆ, ಹಲಸೂರು, ಬೆಂಗಳೂರು ರವರಿಗೆ ಉಲ್ಲೇಖ (5)ರಂತೆ ಎರಡನೇ ತಿಳುವಳಿಕೆ ಪತ್ರವನ್ನು ನೀಡಲಾಯಿತು.

ಮುಂದುವರೆದು ಮಾನ್ಯ ಆಯುಕ್ತರ ಕಛೇರಿ ಸುತ್ತೋಲೆ ಸಂಖ್ಯೆ:ಆಯುಕ್ತರು/ಬಿಬಿಎಂಪಿ/ಪಿಆರ್(4)/12257/ 17-18, ದಿನಾಂಕ:27-02-2019ರಂತೆ ರಾಜಕಾಲುವೆ ಹಾಗೂ ಮಳೆನೀರುಗಾಲುವೆಯ ಮೇಲೆ ಇರುವ ಒತ್ತುವರಿಗಳನ್ನು

ತೆರವುಗೊಳಿಸುವುದು ವಲಯ ವ್ಯಾಪ್ತಿಯ ಸಂಬಂಧಿಸಿದ ವಿಭಾಗದ ಅಭಿಯಂತರರುಗಳ ಕರ್ತವ್ಯ ಹಾಗೂ ಜವಾಬ್ದಾರಿಯಾಗಿರುತ್ತದೆ. ಆದುದರಿಂದ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ಶಿವಾಜಿನಗರ ಉಪವಿಭಾಗ ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು ರವರಿಗೆ ಪತ್ರ ಮುಖೇನ ಈ ದೂರಿನ ಬಗ್ಗೆ ಸ್ಥಳ ಪರಿಶೀಲಿಸಿ, ಸೂಕ್ತ ಕ್ರಮಕೈಗೊಳ್ಳಲು ಹಾಗೂ ಬಫರ್ ಪ್ರದೇಶದಲ್ಲಿನ ಒತ್ತುವರಿಯನ್ನು ತಡೆಗಟ್ಟಲು ಸೂಕ್ತ ಕ್ರಮ ಕೈಗೊಳ್ಳಲು ಕೋರಿ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ಶಿವಾಜಿನಗರ ವಿಭಾಗ, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ, ಬೆಂಗಳೂರು ರವರಿಗೆ ಉಲ್ಲೇಖ (6) ರಂತೆ ಮತ್ತೊಂದು ಪತ್ರವನ್ನು ಬರೆಯಲಾಯಿತು.

ಈ ಮೇಲೆ ತಿಳಿಸಿದಂತೆ ಗುರುದ್ವಾರದ ನವೀಕರಣ ಕಾಮಗಾರಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಶ್ರೀಗುರುಸಿಂಗ್‌ಸಭಾ ದವರು ಯಾವುದೇ ದಾಖಲಾತಿಗಳನ್ನು ನೀಡದೇ ಇರುವುದು ಹಾಗೂ ಪಾಲಿಕೆ ವತಿಯಿಂದ ಕಾಲುವೆ ನಿರ್ಮಾಣಕ್ಕೆ ಯಾವುದೇ ಅನುಮತಿಯನ್ನು ಪಡೆಯದೇ ಇರುವುದರಿಂದ ಅಲ್ಲದೇ ಈಗಾಗಲೇ ಎರಡು ತಿಳುವಳಿಕೆ ಪತ್ರಗಳನ್ನು ನೀಡಿ ಕಾಮಗಾರಿ ಸ್ಥಗಿತಗೊಳಿಸಲು ಸೂಚಿಸಿದ್ದರೂ ಸಹ ಕಾಮಗಾರಿಯನ್ನು ಸ್ಥಗಿತಗೊಳಿಸುವ ಲಕ್ಷಣಗಳು ಕಂಡುಬರದೇ ಇರುವ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಶ್ರೀ.ಗುರುಸಿಂಗ್ ಸಭಾದವರ ಅಧ್ಯಕ್ಷರು ಹಾಗೂ ಇತರೆ ಸದಸ್ಯರು, ಗುತ್ತಿಗೆದಾರರಾದ K2K (Prestige Group), Studio 30 ಆರ್ಕಿಟೆಕ್ಟ್ ಆದ ಶ್ರೀ.ರಾಣಾರಾಮ್ ಹಾಗೂ ಇತರರುಗಳ ಮೇಲೆ ದೂರನ್ನು ದಾಖಲಿಸಲು ಹಾಗೂ ಕಾಮಗಾರಿಯನ್ನು ಸ್ಥಗಿತಗೊಳಿಸಲು ಕೋರಿ ಪೊಲೀಸ್ ಅಧೀಕ್ಷರರು, ಬೆಂಗಳೂರು ಮಹಾನಗರ ಕಾರ್ಯಾಚರಣೆ ಪಡೆ, ಬಿ.ಎಂ.ಟಿ.ಎಫ್ ಪೊಲೀಸ್‌ಠಾಣೆ, ಬೆಂಗಳೂರು ರವರಿಗೆ ಉಲ್ಲೇಖ (7) ರಂತೆ ಪತ್ರ ಮುಖೇನ ಕೋರಲಾಗಿದೆ.

ಮುಂದುವರೆದು, ಶ್ರೀ.ಗುರುಸಿಂಗ್‌ಸಭಾ ರವರಿಂದ ಮಳೆನೀರುಗಾಲುವೆಯಲ್ಲಿ ಆಗಿರುವ ಒತ್ತುವರಿಯನ್ನು ಸ್ಥಳದಲ್ಲಿ ಗುರುತುಪಡಿಸಲು ಕೋರಿ ಭೂದಾಖಲೆಗಳ ಉಪ ನಿರ್ದೇಶಕರು, (DDLR), ಬೆಂಗಳೂರು ಜಿಲ್ಲಾಧಿಕಾರಿಗಳ ಕಛೇರಿ, ಬೆಂಗಳೂರುರವರಿಗೆ ಉಲ್ಲೇಖ (8) ರಂತೆ ಪತ್ರ ಬರೆಯಲಾಗಿದೆ.

ಮುಂದುವರೆದು, ಶ್ರೀ.ಗುರುಸಿಂಗ್‌ಸಭಾ ಅಧ್ಯಕ್ಷರು ಹಾಗೂ ಸದಸ್ಯರು ಇವರುಗಳಿಂದ ಹಾಲಿ/ ಅವಶ್ಯವಿರುವ ಕ್ರಾಸ್ ಸೆಕ್ಷನ್ 10.60ಮೀ*2.50ಮೀ ಅನ್ನು ಕೇವಲ 5.00ಮೀ*1.40ಮೀ ಗೆ ಕಡಿಮೆಗೊಳಿಸಿ ರಾಜಕಾಲುವೆಯನ್ನು ಒತ್ತುವರಿ ಮಾಡಿಕೊಂಡು ಅವೈಜ್ಞಾನಿಕವಾಗಿ ಆರ್.ಸಿ.ಸಿ ಕಾಲಂಗಳನ್ನು ನಿರ್ಮಿಸಿರುವುದು, ಕಾಲುವೆಗೆ ಆರ್.ಸಿ.ಸಿ ಸ್ಲಾಬ್ ಕವರಿಂಗ್ ಮಾಡಿರುವುದು ಎನ್.ಜಿ.ಟಿ ನಿಯಮಗಳಂತೆ ಕಾನೂನುಬಾಹಿರವಾಗಿರುತ್ತದೆ ಹಾಗೂ ನಿರ್ಮಾಣವು ಅನಧಿಕೃತವಾಗಿರುತ್ತದೆ. ಮೇಲಿನ ವಿಷಯವನ್ನು ತಮ್ಮ ಅವಗಾಹನೆಗೆ ತರುತ್ತಾ ಮಾನ್ಯ ಆಯುಕ್ತರ ಕಛೇರಿ ಸುತ್ತೋಲೆ ಸಂಖ್ಯೆ:ಆಯುಕ್ತರು/ಬಿಬಿಎಂಪಿ/ಪಿಆರ್(4)/12257/17-18, ದಿನಾಂಕ:27-02-2019ರಂತೆ ರಾಜಕಾಲುವೆ ಹಾಗೂ ಮಳೆನೀರುಗಾಲುವೆಯ ಮೇಲೆ ಇರುವ ಒತ್ತುವರಿಗಳನ್ನು ತೆರವುಗೊಳಿಸುವುದು ವಲಯ ವ್ಯಾಪ್ತಿಯ ಸಂಬಂಧಿಸಿದ ವಿಭಾಗದ ಅಭಿಯಂತರರುಗಳ ಕರ್ತವ್ಯ ಹಾಗೂ ಜವಾಬ್ದಾರಿಯಾಗಿರುವುದರಿಂದ ಸದರಿ ಒತ್ತುವರಿಯನ್ನು ತೆರವುಗೊಳಿಸಲು ಸಂಬಂಧಿಸಿದವರಿಗೆ ಸೂಕ್ತ ನಿರ್ದೇಶನ ನೀಡಲು ಈ ಮೂಲಕ ಕೋರಿದೆ.

ಮುಖ್ಯ ಅಭಿಯಂತರರು,
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ-ಪೂರ್ವ ವಿಭಾಗ 15/2/2019

ಪ್ರತಿಯನ್ನು:

1. ಮಾನ್ಯ ವಿಶೇಷ ಆಯುಕ್ತರು, (ಯೋಜನೆ) ರವರ ಮಾಹಿತಿಗಾಗಿ.
2. ಜಂಟಿ ಆಯುಕ್ತರು, ಘನ ತ್ಯಾಜ್ಯ ನಿರ್ವಹಣೆ ಮತ್ತು ನೋಡಲ್ ಅಧಿಕಾರಿ, ವಾರ್ಡ್ ನಂ.90, ಹಲಸೂರು ರವರ ಮಾಹಿತಿಗಾಗಿ.
3. ಮುಖ್ಯ ಅಭಿಯಂತರರು, ಪೂರ್ವ ವಲಯರವರ ಮಾಹಿತಿಗಾಗಿ ಮತ್ತು ಸೂಕ್ತ ಕ್ರಮಕ್ಕಾಗಿ.

Annexure – VIII

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ. ಪೂರ್ವ ವಲಯ, ಬೃಹತ್ ನೀರುಗಾಲುವೆ 9ನೇಮಹಡಿ,ಜಯನಗರ ವಾಣಿಜ್ಯ ಸಂಕೀರ್ಣ, 4ನೇ ಬ್ಲಾಕ್, ಜಯನಗರ, ಬೆಂಗಳೂರು.

ಸಂಖ್ಯೆ: ಕಾ.ಪಾ.ಅ/ಬೃನೀಗಾ/ಪೂರ್ವ/ಪಿಆರ್/191/2022–23 ದಿನಾಂಕ:20–06–2022

ರವರಿಗೆ,

ಜಿಲ್ಲಾಧಿಕಾರಿಗಳ ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಹಾಗೂ
ಪದ ನಿಮಿತ್ತ, ಭೂದಾಖಲೆಗಳ ಉಪ ನಿರ್ದೇಶಕರು,
ಜಿಲ್ಲಾಧಿಕಾರಿಗಳ ಕಛೇರಿ,
ಬೆಂಗಳೂರು ನಗರ ಜಿಲ್ಲೆ,
ಬೆಂಗಳೂರು – 560009

ವಿಷಯ: ಹಲಸೂರು ವ್ಯಾಪ್ತಿಯ ಕೆನ್ಸಿಂಗ್ಟನ್ ರಸ್ತೆಯಲ್ಲಿರುವ ಶ್ರೀಗುರುಸಿಂಗ್ ಸಭಾದವರು (ಗುರುದ್ವಾರ) ರಾಜಕಾಲುವೆಯನ್ನು ಒತ್ತುವರಿಮಾಡಿಕೊಂಡು ಗುರುದ್ವಾರ ಕಟ್ಟಡದ ಕಾಮಗಾರಿ ಮತ್ತು ಶಾಲೆಯನ್ನು ನಿರ್ಮಿಸುತ್ತಿರುವ ಬಗ್ಗೆ ದೂರು ಬಂದಿದ್ದು ಈ ಮಳೆನೀರುಗಾಲುವೆ ಗಡಿ ಗುರುತು ಮಾಡುವ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖ: 1). ನೋಡಲ್‌ಅಧಿಕಾರಿ ವಾರ್ಡ್ ಸಂಖ್ಯೆ: 90 ಹಲಸೂರುರವರ ಪತ್ರ ಸಂಖ್ಯೆ:ಜಂ.ಆ/ಪಿ.ಆರ್/386/2020–21, ದಿನಾಂಕ: 09–12–2020.

2). ಈ ಕಛೇರಿಯ ಸಂಖ್ಯೆ: ಸ0:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ–ಪೂ/63/2020–21, ದಿನಾಂಕ:07–01–2021

3). ಈ ಕಛೇರಿಯ ಸಂಖ್ಯೆ: ಸ0:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ–ಪೂ/77/2020–21, ದಿನಾಂಕ:03–02–2021

4). ಈ ಕಛೇರಿಯ ಪತ್ರ ಸಂಖ್ಯೆ:, ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ–ಪೂ/80/2020–21, ದಿನಾಂಕ:05–02–2021

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ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ರಾಜಕಾಲುವೆಯನ್ನು ಒತ್ತುವರಿ ಮಾಡಿಕೊಂಡು ಗುರುದ್ವಾರ ಕಟ್ಟಡದ ಕಾಮಗಾರಿ ಮತ್ತು ಶಾಲೆಯನ್ನು ನಿರ್ಮಾಣ ಮಾಡುತ್ತಿರುವ ಬಗ್ಗೆ ಈ ಕಛೇರಿಯಲ್ಲಿ ಉಲ್ಲೇಖಿತ (1)ರ ಪತ್ರದಲ್ಲಿ ದೂರು ಸ್ವೀಕೃತವಾಗಿರುವ ಹಿನ್ನಲೆಯಲ್ಲಿ ದಿನಾಂಕ:02–01–2021 ರಂದು ಸ್ಥಳ ಪರಿವೀಕ್ಷಣೆ ಮಾಡಲಾಯಿತು. ಸದರಿ ಸಂದರ್ಭದಲ್ಲಿ ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆಯ ಬಫರ್ ಪ್ರದೇಶದಲ್ಲಿ ಗುರುದ್ವಾರದ ನವೀಕರಣ ಕಾಮಗಾರಿಯನ್ನು ಪ್ರಾರಂಭಿಸಿರುವುದು ಕಂಡುಬಂದಿರುತ್ತದೆ. ಸದರಿ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಉಲ್ಲೇಖಿತ (2)ರ ಪತ್ರದಲ್ಲಿ ಸದರಿ ಗುರುದ್ವಾರದ ನವೀಕರಣ ಕಾಮಗಾರಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ, ನಕ್ಷೆ ಮಂಜೂರಾತಿ ಅನುಮತಿಗಳನ್ನು ಪಡೆದಿರುವ ಬಗ್ಗೆ ಪರಿಶೀಲಿಸಲು ಹಾಗೂ ವಿಷಯ ಇತ್ಯರ್ಥವಾಗುವವರೆಗೆ / ಪರಿಶೀಲನೆ ಮುಗಿಯುವವರೆಗೂ ಕಾಮಗಾರಿಯನ್ನು ಸ್ಥಗಿತಗೊಳಿಸಲು ಸೂಚಿಸಲಾಗಿದ್ದರು ಸಹ ಕಾಮಗಾರಿಯನ್ನು ಸ್ಥಗಿತಗೊಳಿಸದೆ ಮುಂದುವರೆಸಿರುವುದು ಕಂಡುಬಂದಿರುತ್ತದೆ.

ಈ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಒತ್ತವರಿಯಾಗಿರುವ ಮಳೆನೀರುಗಾಲುವೆಯ ಗಡಿಯನ್ನು ಗುರುತಿಸಿಕೊಡಲು ಭೂಮಾಪಕರನ್ನು ನಿಯೋಜಿಸುವಂತೆ ಉಲ್ಲೇಖ (4) ರಲ್ಲಿ ಕೋರಲಾಗಿತ್ತು. ಆದರೆ ಇಲ್ಲಿಯವರೆಗೂ ಭೂಮಾಪಕರನ್ನು ನಿಯೋಜಿಸದಿರುವುದು ಕಂಡುಬಂದಿರುತ್ತದೆ. ಆದಕಾರಣ ಭೂಮಾಪಕರನ್ನು ನಿಯೋಜಿಸಲು ಮತ್ತೊಮ್ಮೆ ಈ ಮೂಲಕ ಕೋರಿದೆ.

ಸಹಿ/–
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ

ಪ್ರತಿಯನ್ನು:

1 .ಆಯುಕ್ತರು ಬಿಬಿಎಂಪಿ ಎನ್ ಆರ್ ವೃತ್ತ ಬೆಂಗಳೂರು ರವರ ಅವಗಾಹನೆಗೆ ಸಲ್ಲಿಸಿದೆ.
2. ವಿಶೇಷ ಆಯುಕ್ತರು (ಯೋಜನೆ), ಬಿಬಿಎಂಪಿ ರವರ ಅವಗಾಹನೆಗೆ ಸಲ್ಲಿಸಿದೆ.
3. ಜಂಟಿ ಆಯುಕ್ತರು ಪೂರ್ವ ವಲಯ ರವರ ಮಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ,
4. ಮುಖ್ಯ ಅಭಿಯಂತರರು, ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ ಬಿಬಿಎಂಪಿ ರವರ ಮಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.
5. ಮುಖ್ಯ ಅಭಿಯಂತರರು, ಬಿಬಿಎಂಪಿ ಪೂರ್ವ ವಲಯ ರವರ ಮಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.
6. ಕಛೇರಿ ಪ್ರತಿ.

20/06/22
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ

Annexure-1

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ಬೃ.ನೀ.ಗಾ–ಪೂರ್ವ, 9ನೇ ಮಹಡಿ, ಜಯನಗರ ವಾಣಿಜ್ಯ ಸಂಕೀರ್ಣ 4ನೇ ಬ್ಲಾಕ್, ಜಯನಗರ ಬೆಂಗಳೂರು–560011

ಸಂ:ಸ.ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ/ಪೂರ್ವ/ಪಿ.ಆರ್/415/2022–23 ದಿನಾಂಕ:27–09–2022

ರವರಿಗೆ,
ಕಂದಾಯ ಅಧಿಕಾರಿ
ಬೆಂಗಳೂರು ಮಹಾನಗರ ಕಾರ್ಯಾಚರಣೆ ಪಡೆ,
ಬಿಬಿಎಂಪಿ ಕೇಂದ್ರ ಕಛೇರಿ ಆವರಣ,
ಎನ್.ಆರ್. ಚೌಕ, ಬೆಂಗಳೂರು 560002.

ಮಾನ್ಯರೇ,

ವಿಷಯ:– ಹಲಸೂರು ವ್ಯಾಪ್ತಿಯ ಕೆನ್ಸಿಂಗ್‌ಟನ್ ರಸ್ತೆಯಲ್ಲಿರುವ ಶ್ರೀ ಗುರುಸಿಂಗ್ ಸಭಾದವರು (ಗುರುದ್ವಾರ) ರಾಜಕಾಲುವೆಯನ್ನು ಒತ್ತುವರಿ ಮಾಡಿಕೊಂಡು ಗುರುದ್ವಾರ ಕಟ್ಟಡದ ಕಾಮಗಾರಿ ಮತ್ತು ಶಾಲೆಯನ್ನು ನಿರ್ಮಿಸುತ್ತಿರುವ ಬಗ್ಗೆ ನೀಡಿದ ದೂರಿನ ಕುರಿತು.

ಉಲ್ಲೇಖ: 1)ಕಂದಾಯ ಅಧಿಕಾರಿ, ಬಿ.ಎಮ್.ಟಿ.ಎಫ್ ರವರ ಕಛೇರಿ ಪತ್ರದ ಸಂಖ್ಯೆ:ಬಿಎಂಟಿಎಫ್/ಕಂ/ವಿವ/04/2021–22 ದಿನಾಂಕ:20–09–2022

2)ಈ ಕಛೇರಿಯ ಪತ್ರದ ಸಂಖ್ಯೆ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ/ಪೂರ್ವ/ಪಿ.ಆರ್/292/2022–23, ದಿನಾಂಕ:20–06–2022

3)ಈ ಕಛೇರಿಯ ಪತ್ರದ ಸಂಖ್ಯೆ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ/ಪೂರ್ವ/ಪಿ.ಆರ್/413/2022–23, ದಿನಾಂಕ:21–09–2022

4)ಈ ಕಛೇರಿಯ ಪತ್ರದ ಸಂಖ್ಯೆ:ಕಾ.ಪಾ.ಅ/ಬೃ.ನೀ.ಗಾ/ಪೂರ್ವ/ಪಿ.ಆರ್/414/2022–23, ದಿನಾಂಕ:21–09–2022

5)ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಸುತ್ತೋಲೆ ಸಂಖ್ಯೆ: ಆಯುಕ್ತರು/ಬಿಬಿಎಂಪಿ/ಪಿಆರ್/12257/2017–18 ದಿನಾಂಕ:27–02–2018

6)ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಆದೇಶ ಸಂಖ್ಯೆ:ಮುಆ/ಪಿಆರ್/184/22–23 ದಿನಾಂಕ:09–09–2022

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ಮೇಲ್ಕಂಡ ವಿಷಯ ಹಾಗೂ ಉಲ್ಲೇಖಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಉಲ್ಲೇಖ (1)ರಲ್ಲಿ ಶ್ರೀ.ಗುರುಸಿಂಗ್ ಸಭಾರವರು(ಗುರುದ್ವಾರ) ರವರು ರಾಜಕಾಲುವೆಯಲ್ಲಿ ನಿರ್ಮಿಸುತ್ತಿರುವ ಕಟ್ಟಡವನ್ನು ಪೂರ್ಣ ಪ್ರಮಾಣದಲ್ಲಿ ತೆರವುಗೊಳಿಸಲಾಗಿದೆಯೇ? ಎಂಬ ವರದಿಯನ್ನು ಕೋರಿರುತ್ತೀರಿ.

ಈ ಬಗ್ಗೆ ಒತ್ತುವರಿಯನ್ನು ಗುರುತಿಸಿ ಕೊಡಲು ಭೂಮಾಪಕರನ್ನು ನಿಯೋಜಿಸುವಂತೆ ಉಲ್ಲೇಖ (2) ರಲ್ಲಿ ಭೂದಾಖಲೆಗಳ ಉಪ ನಿರ್ದೇಶಕರು ರವರಿಗೆ ದಿನಾಂಕ:20–06–2022 ರಂದು ಪತ್ರ ಬರೆಯಲಾಗಿದೆ. ಉಲ್ಲೇಖ (3) ರಲ್ಲಿ ಒತ್ತುವರಿಯ ಸರಹದ್ದುಗಳನ್ನು ಗುರುತಿಸಲು ಭೂಮಾಪಕರನ್ನು ನಿಯೋಜಿಸುವಂತೆ ತಹಶೀಲ್ದಾರ್ ಹಾಗೂ ದಂಢಾಧಿಕಾರಿಗಳು, ಬೆಂಗಳೂರು ಉತ್ತರ, ಬೆಂಗಳೂರು ನಗರ ಜಿಲ್ಲೆ, ಬೆಂಗಳೂರು ರವರಿಗೆ ದಿನಾಂಕ:21–09–2022 ರಂದು ಪತ್ರ ಬರೆಯಲಾಗಿದೆ.

ಉಲ್ಲೇಖ (4) ರಲ್ಲಿ ಒತ್ತುವರಿಯ ಸರಹದ್ದುಗಳನ್ನು ಗುರುತಿಸಲು ಭೂಮಾಪಕರನ್ನು ನಿಯೋಜಿಸುವಂತೆ ಮಾನ್ಯ ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು, ಬೆಂಗಳೂರು ನಗರ ಜಿಲ್ಲೆ, ಬೆಂಗಳೂರು ರವರಿಗೆ ದಿನಾಂಕ:21-09-2022 ರಂದು ಪತ್ರ ಬರೆಯಲಾಗಿದೆ. ಉಲೇಖ(5)ರ ಅನ್ವಯ ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ಆದೇಶಿಸಿರುವಂತೆ, ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆಗಳ ಮೇಲಿನ ಒತ್ತುವರಿಗಳನ್ನು ಬೃಹತ್ ಮಳೆನೀರುಗಾಲುವೆ ವಲಯದ ಅಭಿಯಂತರರುಗಳ ರೆವಿನ್ಯೂ ಇಲಾಖೆಯ ಭೂಮಾಪಕರಿಂದ ಸ್ಥಳದಲ್ಲಿ ಗುರುತಿಸಿ, ದೃಢೀಕೃತ ಸರ್ವೆ ನಕ್ಷೆಯನ್ನು ಪಡೆದು, ಒತ್ತುವರಿಗಳನ್ನು ತೆರವುಗೊಳಿಸಲು ಕ್ರಮವಹಿಸಲು ಸಂಬಂಧಿಸಿದ ವಲಯದ ಜಂಟಿ ಆಯುಕ್ತರು ಹಾಗೂ ಮುಖ್ಯ ಅಭಿಯಂತರರಿಗೆ ವಿವರಗಳನ್ನು ಸಲ್ಲಿಸುವುದು. ಅದರಂತೆ, ಸದರಿ ಒತ್ತುವರಿಗಳನ್ನು ತೆರವುಗೊಳಿಸುವುದು ವಲಯ ವ್ಯಾಪ್ತಿಯ ಸಂಬಂಧಿಸಿದ ವಿಭಾಗದ ಅಭಿಯಂತರರುಗಳ ಕರ್ತವ್ಯ ಹಾಗೂ ಜವಾಬ್ದಾರಿಯಾಗಿರುತ್ತದೆ. ಉಲ್ಲೇಖ (6) ರಲ್ಲಿ ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ಆದೇಶಿಸಿರುವಂತೆ ಒತ್ತುವರಿಯನ್ನು ತೆರವುಗೊಳಿಸುವ ಜವಾಬ್ದಾರಿಯು ವಲಯ ಅಭಿಯಂತರರುಗಳದ್ದಾಗಿರುತ್ತದೆ.

ಮುಂದುವರೆದು, ಭೂಮಾಪಕರು ರಾಜಕಾಲುವೆಯ ಗಡಿಯನ್ನು ಗುರುತಿಸಿದ ನಂತರ ವಲಯ ಅಭಿಯಂತರರುಗಳಿಗೆ ಒತ್ತುವರಿಯನ್ನು ತೆರವುಗೊಳಿಸಲು ಸೂಚಿಸಲಾಗುವುದು ಎಂಬ ವರದಿಯನ್ನು ಈ ಮೂಲಕ ತಮಗೆ ತಿಳಿಯಪಡಿಸಿದೆ.

ವಂದನೆಗಳೊಂದಿಗೆ,

ತಮ್ಮ ವಿಶ್ವಾಸಿ

27/9/2022

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃ.ನೀ.ಗಾ. ಪೂರ್ವ ವಲಯ,
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Office Copy

Annexure-X

- E Mail ID: eic@bwssb.gov.in

Ph:080-22945105

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

2nd Floor, Cauvery Bhavan, K.G.Road, Bangalore-560009

No.BWSSB/EIC/CE(N)/ACE(N)-I/DCE(M)-2/TA(N)/ 3784 **/ 2022-23 dt:** 04/11/2022

To

Environmental Officer,
Bengaluru City East,
Karnataka State Pollution Control Board,
"Nisarga Bhavan", 3rd floor, 7th D main,
Thimmaiah road, Shivanagar,
Bangalore-560010.

Sir,

Sub: To file response to observations/recommendations made in the Joint Committee report w.r.t NGT OA No.308 of 2022

Ref: No.KSPCB/BCE/2022-23/954 dt: 27.10.2022

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The matter pertains to observations/recommendations made in the Joint Committee report NGT OA No.308 of 2022. The parawise compliance is furnished as follows:

Sl No.	Particulars	Replies
4	Stoppage of sewage entering into the drain by identifying missing links of lateral sewer lines which are to be connected to the Sewer Sub Mains.	The Executive Engineer, Central Division, BWSSB inspected the upstream side of Halasuru lake and has reported as follows: 14 No. of lateral UGD works have been taken up and has been linked to the existing sewer sub main. Further it is reported that at present, there is no flow of sewage into the drain in the jurisdiction of Central division. The Executive Engineer, Northeast Division, BWSSB has inspected the upstream side of Halasuru lake and has reported that 17 No. of lateral UGD works have been taken up and has been linked to

4/11/22

		the existing sewer sub-main to avoid flow of sewage into the drain. Further, EE-NE has reported that there is flow of sewage from 165 quarters at MRS palya. In order to stop the entry of sewage, an estimate has been prepared for Rs.25.00 lakhs for laying 300 mm dia DWC line from MRS palya and link it to the existing sub mains. This work will be taken up and completed at the earliest. Apart from this, at the junction of JC Nagar main road, Munireddy Palya, it was observed that BBMP has laid a permanent concrete slab over the drain. BBMP has been requested to remove the concrete slab in order to inspect the flow of sewage (if any) and to take-up the work in this particular stretch of the drain.

Thanking you,

Yours faithfully

Engineer-in-Chief
BWSSB