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**BEFORE THE NATIONAL GREEN TRIBUNAL, WESTERN ZONE BENCH, AT
PUNE.**

Original Application No.154 of 2024 WZ.

Krunnal Narayan Gharre

.... Applicant

Vs.

Pimpri Chinchwad Municipal Corporation & Ors.

..... Respondents

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FOR APPLICANT

BEFORE THE NATIONAL GREEN TRIBUNAL
(WEST ZONE BENCH AT PUNE)

Original Application No 154 of 2024

IN THE MATTER OF

Krunnal Narayan Gharre

Vs.

Pimpri Chinchwad Municipal Corporation & Ors



..... Applicant

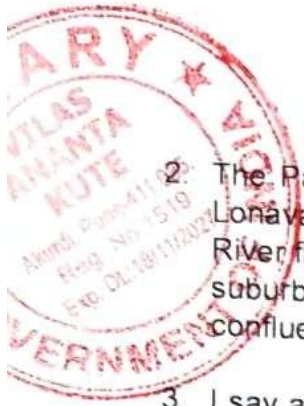
..... Respondents

Affidavit in Reply to the main application filed by the Applicant to protect his rights and interests adversely affected by ongoing pollution in the Pawana River.

I, Prashant Patil, Superintending Engineer of the PMRDA, having my office at Pune Metropolitan Region Development Authority, Near Akurdi Railway Station, Pune 411044 do hereby file an Affidavit in Reply to the main application filed by the Applicant to protect his rights and interests adversely affected by ongoing pollution in the Pawana River. I am filing this affidavit in pursuance of the Order passed by this Hon'ble Tribunal dated 27th August 2024 only with the limited purpose of bringing on record the steps taken by the PMRDA to assess the Pawana River quality along with the drains meeting across the river stretch under the "Pawana Sudhar Prakalp" and further corrective measures to be taken to control the pollution in the Pawana river. I crave leave to file an additional affidavit as and when necessary. I shall not be deemed to admit anything except whatever is specifically stated hereunder.

1. I submit that the Pune Metropolitan Region Development Authority (PMRDA) was notified in 2015 vide Notification dated 31/03/2015 as the Planning and Development Authority for the Pune Metropolitan Region. A copy of the said notification is enclosed herewith and marked as Annexure I. However, the PMRDA Letter has been appointed as the Special Planning Authority excluding the area of Local Authority vide notification dated 18 January 2018. A copy of the said notification is enclosed herewith and marked as an Annexure II. It is further submitted that the local bodies have powers to levy and collect local taxes, duties, tolls, and fees on various activities within its jurisdiction and to make and implement development plans and schemes for their areas. The function of the local bodies includes providing and maintaining basic infrastructure such as roads, drainage, and streetlights. The duties of local bodies are to implement the decisions and resolutions passed by them and to ensure the proper utilization of funds allocated for rural development. [Section 106 (Powers and Functions of Zilla Parishad) and Section 108 (Powers and Functions of Panchayat Samiti) under Maharashtra Zilla Parishad and Panchayat Samitis Act, 1961].

(2)



2. The Pawana River originates from the Western Ghats about 6 Km South of Lonavala, a hill station in the Sahyadri mountains of Maharashtra. Pawana River flows Eastwards initially, it becomes southbound and passes through the suburbs of Ravet, Thergaon, Chinchwad, Pimpri, and Dapodi before its confluence with the Mula River near Sanghvi.
3. I say and submit that the "Pawana Sudhar Prakalp" ambitious project is being undertaken by the PMRDA with the cooperation of Central and State Governments after observing that the Pawana River is being polluted due to drains meeting across the Pawana River stretch from Pawana Dam to PCMC.
4. I say and submit that the Pawana River is a notable river crossing the city of Pune in Maharashtra. The river originates south of Lonavala from the Western Ghats and flows nearly 60 km to meet the Mula River in Pune city, which is 35 km. portion comes under the jurisdiction of PMRDA. The river is stated to be severely polluted due to the accumulation of silt and the discharge of untreated industrial waste being the measure factors for pollution of the river. Therefore, the PMRDA has taken the following steps:
 - 4.1 It has appointed M/s En-Struct Consulting Engineer for preparation of Pre-Feasibility Report vide letter dated 16.10.2023.
 - 4.2 PMRDA further appointed COEP by letter dated 22.12.2023 to collect samples of polluted Nallas and analyze them to examine the quality of water.
 - 4.3 COEP submitted a Report for River Water Quality Assessment on 21.02.2024. A copy of the said report Pawana River Water Quality Assessment dated 21.02.2024 is enclosed and marked as Annexure—III. It was decided to prepare a Detailed Project Report for onward submission to the principal secretary, of the Environment Department, Government of Maharashtra for further necessary approval.
 - 4.4 M/s En-Struct Consulting Engineer has submitted the final Pre-Feasibility Report to PMRDA (amounting to Rs 197.12 Crore) on 12.03.2024. Chief Engineer, PMRDA has approved the said final Pre-Feasibility Report on 16.05.2024.
 - 4.5 Thereafter M/s En-Struct consulting Engineer- consultant has been appointed to prepare a Detailed Project Report on 23.07.2024.
5. Thus, the Pawana River Improvement Work undertaken on 16.10.2023 and the work up-to appointment of M/s En-Struct consulting Engineer- consultant to prepare a Detailed Project Report is assigned to it on 23.07.2024. the work of DPR – Preparation is in progress. Thus, the PMRDA has taken the above steps for further corrective measures to be taken for "Pawana Sudhar Prakalp". There



is no specific evidence about the threats to the applicant's agricultural yield fertility of the land, etc. to its family and domestic animals

Solemnly affirmed on this 25th day of October 2024 at PCMC

For PMRDA

(Prashant Patil)
Superintending Engineer
PMRDA



BEFORE ME
Amens
25/10/24
VILAS ANANTA KUTE
NOTARY
UNION OF INDIA
Vitthalwadi, Akurdi, Pune-35

Noted And Registered
at Serial Number 5858/024.

NOTIFICATION

Urban Development Department
Mantralaya, Mumbai - 400 032
Date: 31/03/2015

Maharashtra
Regional &
Town
Planning Act,
1966

No.TPS-1815/1204/13/CR-87/15/UD-13:- Whereas, the Government in Urban Development Department vide its Notification No.TPS-1899/1191/CR-80/99/UD-13, dated the 3rd July, 1999, (hereinafter referred to as "the said Notification"), issued in exercise of the powers conferred by clause (c) of Article 243-P of the Constitution of India read with clause (c) of Section 2 of the Maharashtra Metropolitan Planning committees (Continuance of Provisions) Act, 1999, certain area, in an around the City of Pune and Pimpri-Chinchwad Municipal Corporation, as specifically described in the *Schedule-A* appended to the said Notification has been declared as the "*Pune Metropolitan Area*" for the purposes of Part IX-A of the Constitution of India (hereinafter referred to as "*the Pune Metropolitan Area*");

And whereas, for the purpose of securing planned development of areas surrounding urban areas, the State Government is empowered to declare any area as a **Development area** under Section 42A of the said Act and for such development area the State Government is empowered to constitute the *Area Development Authority* under Section 42C of the chapter III-A of the Maharashtra Regional & Town Planning Act, 1966, (hereinafter referred to as "the said Act");

And whereas, it has been observed that the rapid urbanization is taking place in the peri-urban areas around Pune and Pimpri Chinchwad Municipal Corporations necessitating an independent authority for controlling the developmental activities with proper infrastructure;

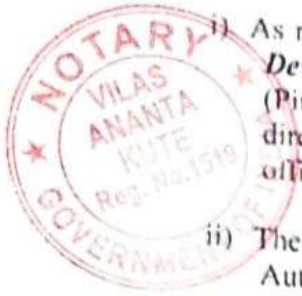
And whereas, Government is of the opinion that the said Pune Metropolitan Area, be declared as "*Development Area*", and further to constitute *Area Development Authority* for the said Development Area for its planned and orderly Development and for proper and effective implementation of Development Projects;

Now therefore, the Government of Maharashtra hereby vide this notification:

- a) in exercise of the powers conferred under sub-section (1) and (2) of Section 42A of the said Act declares that, the area falling under the jurisdiction of *the Pune Metropolitan Area*, as described in the **Schedule A** attached with this notification excluding area of Pune, Dehu and Khadki Cantonment Boards to be the "*Pune Metropolitan Development Area*"
- b) in exercise of the powers conferred under sub-section (1) and (3) of Section 42C of the said Act, constitute "*Pune Metropolitan Regional Development Authority*" consisting of the members as mentioned in **Schedule B**, for the said "*Pune Metropolitan Development Area*"
- c) in exercise of powers conferred under Section 42F (1) (ix) of the said Act issues following directives for the effective functioning of the *Pune Metropolitan Regional Development Authority*";



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UNION OF INDIA
Vithalwadi, Akurdi, Pune-35.



i) As required under Section 42F(5), the office of the **Pune Metropolitan Regional Development Authority** shall be established in the new building of PCNTDA (Pimpri-Chinchwad New Town Development Authority). The Collector, Pune is directed to see that **Pune Metropolitan Regional Development Authority's** office is properly established and starts functioning with immediate effect.

ii) The **Pune Metropolitan Regional Development Authority** shall be the planning Authority as per section 42F(2) and shall perform all duties and functions of the planning Authority. The Pune Metropolitan Regional Development Authority shall prepare Development Plan within the said development area under the provisions of the said Act. Such Development Plan shall be prepared by the said Authority through the Pimpri-Chinchwad New Town Development Authority.

iii) (a) As per the provisions made under Section 42(F)(1)(iii) in order to enable the **Pune Metropolitan Regional Development Authority** to control the developmental activities in accordance with the Development Plan and Town Planning scheme in the said development area, technical support shall be rendered by the office of the Assistant Director Town Planning Pune till the formation of their own staff.

(b) All Development permission fees viz. scrutiny fee, premium charges, development charges, compounding charges etc. shall be deposited in the separate heads of Pune Metropolitan Regional Development Authority as "**Development Fund**". The Authority shall open the separate account for this purpose.

(c) The development proposals and special regulations of the sanctioned Regional Plan alongwith Development Control and Promotion Regulations modified from time to time shall be applicable within the area till the finalisation of Development Plan for the said PMRDA area,

Plan showing the area and of Pune Metropolitan Development Area is available in following offices:-

- i) Collector, Pune.
- ii) Chief Executive Officer, Zilla Parishad Pune.
- iii) Director of Town Planning, Maharashtra State, Pune.
- iv) Joint Director of Town Planning, Pune Division, Pune.
S.No. 74/2, Sahakar Nagar, Sarang Society, Pune 9.
- v) Office of the Pune Metropolitan Regional Development Authority
At New Administrative Building, Near Aakurdi Railway station, Pune-35.

This Notification shall also be made available on Government website - www.maharashtra.gov.in and web site of Director of Town Planning Maharashtra State www.dtp.maharashtra.gov.in.

By Order and in the Name of Governor of Maharashtra,




(Sanjay Saoji)

Under Secretary to Government

Schedule-A

Accompaniment to the Government in Urban Development Department Notification bearing No.TPS-1815/1204/13/CR-87/15/UD-13 dated 31/03/2015.



The Pune Metropolitan Development Area shall comprise the whole of the area of Maval and Pune City taluka and parts of the Haveli, Bhor, Daund, Shirur, Mulshi and Khed Taluka of Pune District within the following boundaries namely:

East	Eastern boundary of village Ganegaon, Khalsa, Koundhapuri, Kasari, Talegaon, Dhamdhere, Vitthalwadi of Shirur Taluka continued along river Bhima Eastern boundary of villages SangaviSandas, Shindewadi Hingangaon of Haveli Taluka along river Mulla-Mutha and eastern boundary of village Nandur, Boratewadi, Sahajpurwadi of Dound Taluka, Southern boundary of village Boriyendi to Southern boundary of village Boribhadak.
West	western boundary of village Ghutake to village Deoghar of a Mulshi Taluka continued north ward along western boundary of Maval taluka.
North	Northern boundary of village Malegaon (Bu.) of Maval Taluka continued east ward along western and northern boundary of village Sawardari of Khed Taluka. Northern boundary of village Mahalunge along western boundary of village Ambethan and thereafter along river Bhima, upto and along eastern boundary of village Kadachiwadi and village Rase, northern boundaries of village Kelgaon, Charholi Khurd, Dhanore, Solu and Markal, northern Boundary of Charholi Khurd, Dhanore, Solu and Markal, northern boundary of village Vajewadi, along northern boundary of village Pimpale Jagtap to western and northern boundary of village Jategaon (Khu.) to river Bhima to western and northern boundary of villages Rautwadi, Burunjwadi, Ganegaonkhalsa.
South	Southern boundary of village Shindwne to Bhilarewadi of Haveli taluka, eastern boundary of village Gogalwadi, eastern boundary form village Velu to village Pande of Bhor Taluka, along river Nira, river Gunjawani further continued along western boundary of village Khadki, southern, western and northern boundary of village Malegaon, river Shivanga, southern and western boundary of village Kondhanpur of Haveli Taluka, southern boundary of village Ghera Sinhad of Haveli Taluka, western boundary of villages Malkhed, Mandavi (Bk), Mandavi (Khu) Kudje, Agalambe and Ahire, Kondhave, Dhawade to western boundary, of village Bhukum of Mulshi Taluka, southern boundary of village Pirangut, Eastern Southern and Western boundary of village Uravade to Southern and Western boundary of village Ambadvet, western and northern boundary of village Ghotavade to western boundary of village Chande Man to southern boundary of village Kusgaon p.,m. to village Ajivli of Maval Taluka, southern boundary of village Shirol of Mulshi Taluka, Tata Lake (Mulshi Lake) and eastern boundary of village Ghutake.

By Order and in the Name of Governor of Maharashtra,



(Sanjay Saoji)
(Sanjay Saoji)

Under Secretary to Government

Schedule-B

Accompaniment to the Government in Urban Development Department Notification bearing No. TPS-1815/1204/13/CR-87/15/UD-13 dated 31/03/2015.

Sr. No	Member	Post
१	Guardian Minister of the Pune District	Chairman.
२	President, Pune Zilla Parishad	Ex. Officio Member
३	Mayor, Pune Municipal Corporation	Ex. Officio Member
४	Mayor, Pimpri-Chinchwad Corporation	Ex. Officio Member
५	Chairman of Maval Taluka Panchayat Samiti	Ex. Officio Member
६	Chairman of Haveli Taluka Panchayat Samiti	Ex. Officio Member
७	Chairman of Bhore Taluka Panchayat Samiti	Ex. Officio Member
८	Chairman of Daund Taluka Panchayat Samiti	Ex. Officio Member
९	Chairman of Shirur Taluka Panchayat Samiti	Ex. Officio Member
१०	Chairman of Mulshi Taluka Panchayat Samiti	Ex. Officio Member
११	Chairman of Khed Taluka Panchayat Samiti	Ex. Officio Member
१२	President, Talegaon Dabhade Municipal Council	Ex. Officio Member
१३	President, Lonawala Municipal Council	Ex. Officio Member
१४	President, Alandi Municipal Council	Ex. Officio Member
१५	Commissioner, Pune Municipal Corporation	Ex. Officio Member
१६	Commissioner, Pimpri-Chinchwad Corporation	Ex. Officio Member
१७	Collector, Pune	Ex. Officio Member
१८	Chief Executive Officer Zilla Parishad, Pune or the person nominated by him not below the rank of Deputy Chief Executive Officer	Ex. Officio Member
१९	Chief Executive Officer Pimpri Chinchwad Navnagar Pradhikaran	Ex. Officio Member
२०	Chief Engineer, Maharashtra Jeevan Pradhikaran, Pune or the person nominated by him not below the rank of Superintending Engineer	Ex. Officio Member
२१	Settlement Commissioner and Director of Land Record, Pune or the person nominated by him not below the rank of Deputy Director of Land Record	Ex. Officio Member
२२	Chief officer, Talegaon Dabhade Municipal Council	Ex. Officio Member
२३	Chief officer, Lonawala Municipal Council	Ex. Officio Member
२४	Chief officer, Alandi Municipal Council	Ex. Officio Member
२५	Joint Director of Town Planning and Chief Executive Officer, PMRDA.	Member Secretary.

By Order and in the Name of Governor of Maharashtra,

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 VILAS ANANTA KUTEK
 NOTARY
 UNION OF INDIA
 Vitthalwadi, Akurdi, Pune-35.



(Sanjay Saoji)
 Under Secretary to Government

GOVERNMENT OF MAHARASHTRA
Urban Development Department,
Mantralaya Mumbai-32
NOTIFICATION
Date:18/01/2018.

No.TPS-1817/CR-173/17/UD-13 - Whereas, the Government of Maharashtra has, *vide* Government Notification, Urban Development Department, No. TPS-1899/1191/C.R.80/99/UD-13, dated the 23 July, 1999 issued in exercise of the powers conferred by clause (c) of the Article 243-P of the Constitution of India read with clause (c) of section 2 of the Maharashtra Metropolitan Planning Committees (Constitution and Functions) Act, 1999 (Mah. V of 2000), a certain area, around Pune City, as specifically described in the Schedule appended to the said Notification, declared "as the Pune Metropolitan Area" for the purposes of Part IX-A of the Constitution of India, and revised the boundaries *vide* Government Notification dt.10/02/2016;

And whereas, the Government of Maharashtra has, *vide* Government Notification, Urban Development Department, No.TPS/1204/13/CR87/15/UD-13, dated the 31/03/2015 issued in exercise of the powers conferred by sections 42A, 42C and 42F of the Maharashtra Regional and Town Planning Act, 1966 (Mah. XXXVII of 1966) (hereinafter referred as "the said Act"), declared the Pune Metropolitan Area as a "Pune Metropolitan Development Area" under section 42A of the said Act, and under section 42C thereof constituted "Pune Metropolitan Area Region Development Authority" (hereinafter referred to as "the said Area Development Authority"), and *vide* the Government Notification dated 04.12.2015 revised the limits of the said Area Development Authority;

And whereas, the Governor of Maharashtra has promulgated the Maharashtra Metropolitan Region Development Authority Ordinance, 2016 (Mah. Ord. XI of 2016) (hereinafter referred as to "the said Ordinance") on 13th June 2016, which was thereafter converted into Maharashtra Metropolitan Development Authority Act 2016 (Mah. Act 3 of 2017) to provide for establishment of the Authorities for certain areas declared as Metropolitan Areas under clause (c) of section 2 of the Maharashtra Metropolitan Planning Committees (Constitution and Functions) (Continuance of Provisions) Act, 1999 (Mah. V of 2000), for the purposes of co-coordinating and supervising the proper orderly and rapid development of the said area in such regions and of executing projects and schemes for such development, and to provide for matters connected therewith or incidental thereto;

And whereas, in exercise of the powers conferred by sub-section (1) of section 3 of the said Metropolitan Development Authority Act, the Government of Maharashtra has, *vide* Notification of Urban Development Department No.PRD-3316/CR-54/UD-7, dated 11 July, 2016 has established Metropolitan Region Development Authority to be called "the Pune Metropolitan Region Development Authority" (hereinafter referred to as "the said Development Authority") for the Metropolitan Area more specifically described in the Schedule appended thereto;

And whereas, for proper and orderly as well as planned development of the area of the said Development Authority, the Government of Maharashtra considers it expedient to declare the said Metropolitan Area as "Notified Area" under sub-section (1) of section 40 of the said Act, and appoint a Special Planning Authority for such notified area;



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Now therefore, in exercise of the powers conferred by sub-section (1) (d) of section 40 of the said Town Planning Act, and of all other powers enabling it in this behalf the Government of Maharashtra hereby;

- specifies the area mentioned in the schedule (excluding area under Urban Local Bodies and Special Planning Authority) appended hereto to be the "Notified Area"
- The said Development Authority is appointed as "Special Planning Authority" for Development of the said Notified Area from the date of its establishment (dt.31/03/2015).

SCHEDULE

Boundaries of Pune Metropolitan Region Development Authority (PMRDA)	
East	Eastern boundary of village Tardobachiwadi, Golegaon, Chavanwadi, Nimone, Nhavara. Khokadwadi, Andalgaon, Nagargaon in Shirur Taluka, Eastern boundary of village Ganesh Road, Nangaon, Varwand in Daund Taluka.
South	Southern boundary of village Bori pardhi, Wakri, Bhandgaon, Yavat, Bharatgaon, Thamanwadi, Dalimb in Daund Taluka, Southern boundary of village Shindwane in Haveli Taluka, Eastern boundary of village Garoli, Eastern and Southern boundary of village Shingapore in Purandar Taluka, Southern boundary of Udachiwadi, Kumbharvalan to eastern boundary of village Pimple, Borlewadi, eastern and southern boundary of village Panavadi, southern boundary of villages Ghera Purandar, Bhairavwadi and Misalwadi, eastern and southern boundary of village Kumbhoshi, eastern boundary of villages Morewadi, Vagajwadi, Bhongavali, Panjalwadi, Taparewadi, Gunand in Bhor Taluka, southern boundary of villages Gunand, Watharhinge, Nhavi, Rajapur, Pande, Sarole, Kenjal, Dhangavadi, Nigade, Kapurhol, Harishchandri, Umbre, Sangvi Khurd, Nidhan, Didghar, Viravade, Jambli and Sangvi Budruk in Bhor Taluka, southern boundary of villages Ambavane, Karanjawane, Adavali, Margasne, Askawadi, Vinjar, Malawali, Lasirgaon and Dapode in Velhe Taluka, western boundary of village Dapode to southern boundary of village Khamgaon, southern boundary of villages Rule, Kadave, Wadghar, Ambegaon Bk., Divashi, Shirkoli, Thangaon, Pole and Mangaon villages in Velhe Taluka, western boundary of villages Mangaon and Kasedi in Velhe Taluka, southern boundary of villages Tav and Gadle in Mulshi Taluka.
West	Western boundary of village Dhamanohol, Tamhini Bk., Nive, Pimpri, Ghutke, Ekole, Tailbaila, Saltar, Majgaon, Ambavane, Peth Shahapur and Deoghar in Mulshi Taluka, Western boundary of village Aatvan, Dongargaon, Kunenama, Udhewadi, Jambhawali, Kusoor, Khand and Savale in Maval Taluka.

D:\Pune Desk\Pune Dist\PMRDA\गुण अणुसंधान और विकास कार्यवाही प्रकल्प



North	Northern boundary of village Malegaon Bk., Pimpri, Malegaon Kh., Kune Ansute, Ingalun, Kivale, Kashal and Talat in Maval Taluka, Northern boundary of village Wahagaon, Torne Bk., Hetruj, Kohinde Bk., Gargotwadi and Kadus in Khed Taluka, western boundary of Chaas to northern boundary of village Kaman and Mirjewadi, northern boundary of village Kalechiwadi, Arundwadi, Sandbhorwadi, Gulani, Chinchbaiwadi, Jaulke bk., Wafegaon, Gadakwadi in Khed Taluka, northern boundry of villages Thapewadi, Malwadi, Khairenagad, Kanhur Mesai, Midgulwadi, Malthan, Amdabad, Annapur and Shirur in Shirur Taluka.
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Note : A copy of the Schedule Plan showing the Area and the Plan along with the boundaries of the Notified Area is kept for inspection of public at the following offices, namely.

- 1) The Metropolitan Commissioner, Pune Metropolitan Region development Authority, Pune.
- 2) Joint Director of Town Planning, Pune Division, Pune.

This Notification shall also be available on the urban Development Department's web site www.maharashtra.gov.in.

By order and in the name of the Governor of Maharashtra.



(R.M. Pawar)

Under Secretary, Government of Maharashtra

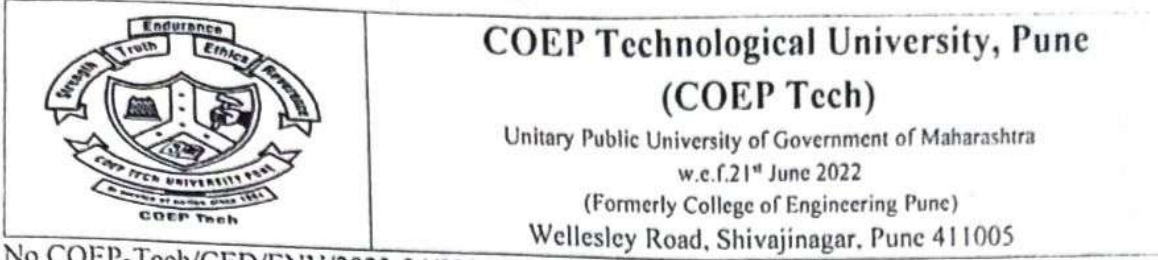


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 Vitthalwadi, Aurdi, Part-35.

ANNEXURE III

66

Report of Drain water quality assessment along Pavana River stretch at selected locations under the "Pavana Sudhar Prakalp" COEP Technological University Pune 2023-24



No COEP-Tech/CED/ENV/2023-24/928

Date : 21/02/2024

To,

Executive Engineer,

PMRDA, Pune

Subject : Report for River quality assessment for Pavana River along with the drains meeting across the river stretch under the "Pavana Sudhar Prakalp"

Ref: Your reference letter No : EG-1/ पनसुप्र/प्र. क्र. ६९/४०५६/२०२३ दिनांक : ०६/१२/२०२३

As per your above stated letter and our discussion, we are sending you the report of Drains water quality assessment along Pavana River Stretch under the "Pavana Sudhar Prakalp".

The parameters assessed as per the reference letter by PMRDA are pH, Dissolved Oxygen, BOD, COD, free ammonia, Total Nitrogen, Dissolved phosphate, Total Suspended Solid, Total Coli form (MPN).

As per your reference letter and the survey 20 sampling locations of the drains and 14 sampling locations of river are identified across the Pavana river stretch.

The scope of the work of COEP Technological University Pune in this project is as below.

1. Collection of water samples from selected locations of drains meeting across the Pavana river Stretch and 14 sampling locations of river as per the guidelines of PMRDA, PCMC and MPCB.
2. Analysis of water samples collected from specified parameters.
3. Detailed report submission.

Introduction to Pavana River :

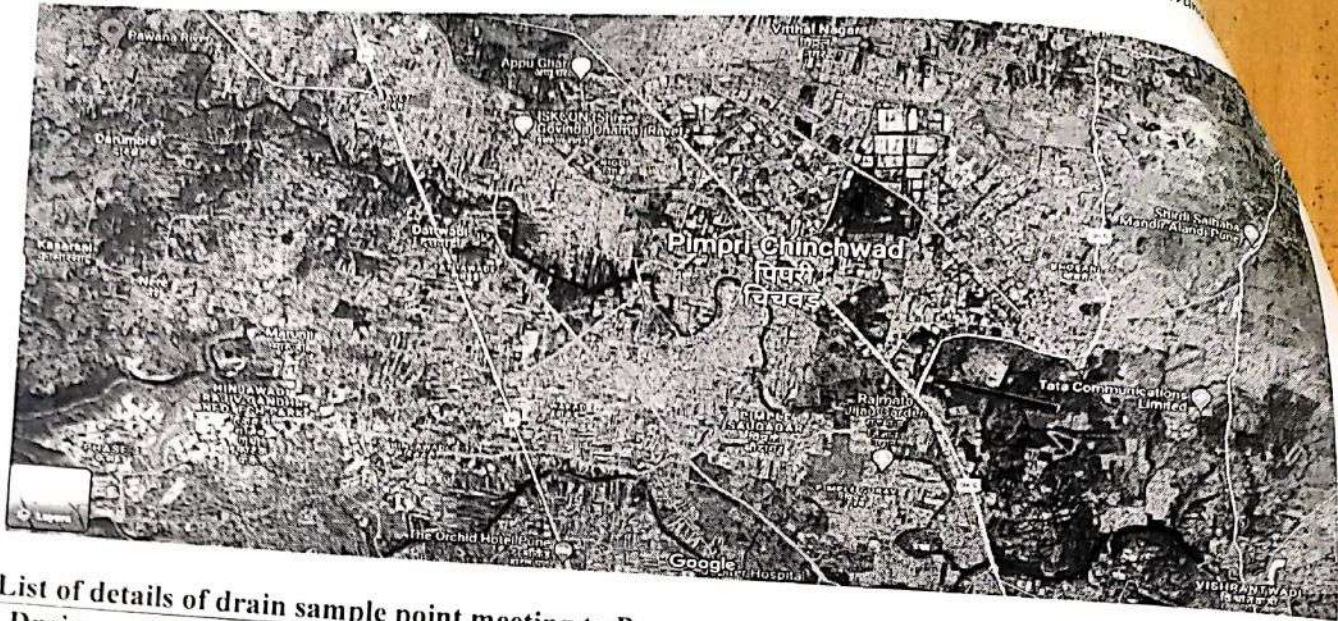
The Pavana River originates from the Western Ghats, about 6 km (3.7 mi) south Lonavala, a hill station in the Sahyadri mountains of Maharashtra, India Fed by rain, it Flowing eastwards initially, it becomes southbound and passes through the suburbs of Ravet, Thergaon, Chinchwad, Pimpri and Dapodi before its confluence with the Mula river near Sangvi. It follows a course mostly north of the city of Pune.



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1/39



List of details of drain sample point meeting to Pavana River.

Drain samples			
Sr. No	N	E	Location Name
1	18.678998 ⁰	73.510648 ⁰	Kale Village Drain
2	18.679038 ⁰	73.510545 ⁰	Kothurane Drain
3	18.703661 ⁰	73.556568 ⁰	Karunj Drain
4	18.705794 ⁰	73.562994 ⁰	Thugao Drain
5	18.691091 ⁰	73.591707 ⁰	Shivane Drain
6	18.686215 ⁰	73.633677 ⁰	Pimpal Khunte Drain
7	18.692289 ⁰	73.645924 ⁰	Bebadohol Drain
8	18.704144 ⁰	73.641257 ⁰	Urse Drain
9	18.691966 ⁰	73.664891 ⁰	Parandwadi Drain
10	18.696432 ⁰	73.681455 ⁰	Dhamane Drain
11	18.696432 ⁰	73.681455 ⁰	Somatane Drain
12	18.680333 ⁰	73.688172 ⁰	Shirgaon Drain
13	18.670671 ⁰	73.680121 ⁰	Godumbre Drain
14	18.666802 ⁰	73.700893 ⁰	Gahunje Drain
15	18.653521 ⁰	73.685075 ⁰	Darumbre Drain
16	18.7015 ⁰	73.461746 ⁰	Aundholi Drain
17	18.672907 ⁰	73.459618 ⁰	Kolechafesar Drain
18	18.651377 ⁰	73.438387 ⁰	Morve Drain
19	18.61771 ⁰	73.46374 ⁰	Shilimb Drain
20	18.613442 ⁰	73.480947 ⁰	Wadeshwar Drain
River Samples			
1	18.677933 ⁰	73.512055 ⁰	Kothurane River
2	18.694388 ⁰	73.539082 ⁰	Kadadhe River
3	18.701173 ⁰	73.564602 ⁰	Thugaon River
4	18.693322 ⁰	73.588021 ⁰	Shivane River
5	18.694992 ⁰	73.65134 ⁰	Bebadohol River
6	18.695988 ⁰	73.670042 ⁰	Somatane River




Report of Drain water quality assessment along Pavana River stretch at selected locations under the "Pavana Sudhar Prakash" COEP Technological University Pune 2023-24

7	18.659747 ⁰	73.712353 ⁰	Sangvade River
8	18.666995 ⁰	73.699773 ⁰	Gahunje River
9	18.574082 ⁰	73.832493 ⁰	River at Dapodi Bridge
10	18.577646 ⁰	73.820173 ⁰	River at Sangavi Bridge
11	18.602231 ⁰	73.821724 ⁰	River at Kasarwadi
12	18.620709 ⁰	73.795863 ⁰	River at Pimpri
13	18.641023 ⁰	73.746816 ⁰	River at Chinchwad
14	18.641017 ⁰	73.74684 ⁰	River at Ravet



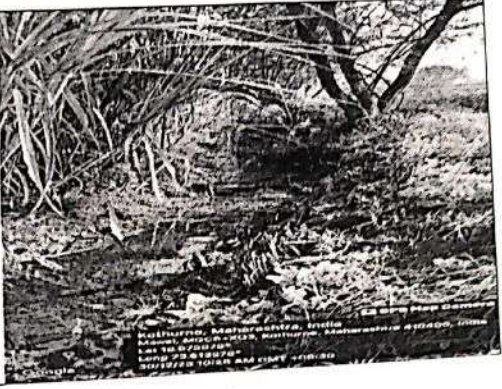
Drains Samples :

Reference :-1-Your Reference letter : EGI/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.678998 ⁰ Long 73.510648 ⁰ D : 1	Kale Village Drain 
Date of sample collection	30/12/2023		
Date of start of analysis	01/01/2024		
Date of end of analysis:	10/01/2024		

Test results :


Sr. No.	Name of the Test	Kale Village Drain	Standard specified by MPCB	Remarks
1	pH Value	7.66	6.5-8.5	Within limits
2	Dissolved Oxygen	0.9 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	09 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	34 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	31.41 mg/l		
7	Dissolved Phosphate as(P)	< 5mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	28 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	900	Total coliform 230/100 ml	Parameter is above Standard Specified by MPCB. Need treatment.



Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.679038 ⁰ Long 73.510545 ⁰	Kothurane Drain
Date of sample collection	30/12/2023.	D : 2	
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :				Remarks
Sr. No.	Name of the Test	Kothurane Drain	Standard specified by MPCB	
1	pH Value	7.19	6.5-8.5	Within limits
2	Dissolved Oxygen	1.6 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	18 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	67 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	42.73 mg/l		
7	Dissolved Phosphate as(P)	< 5mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	37 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	1600	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.

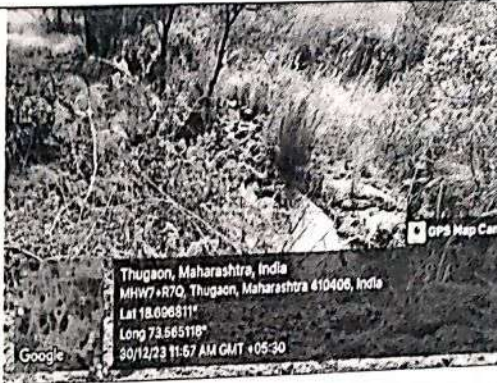


Reference :- I-Your Reference letter : EGI/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location	Karunj Drain
Date of sample collection	30/12/2023.	Lat 18.703661 ⁰ Long 73.556568 ⁰	
Date of start of analysis	01/01/2024.	D : 3	
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Karunj Drain	Standard specified by MPCB	Remarks
1	pH Value	7.56	6.5-8.5	Within limits
2	Dissolved Oxygen	1.8 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @ 27 ⁰ C)	8 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	34 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	0.89 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	40.55 mg/l		
7	Dissolved Phosphate as(P)	6.36 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	14 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	500	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.705794 ⁰ Long 73.562994 ⁰	Thugao Drain
Date of sample collection	30/12/2023.	D : 4	
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Thugao Drain	Standard specified by MPCB	Remarks
1	pH Value	8.10	6.5-8.5	Within limits
2	Dissolved Oxygen	2.4 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	28 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	100 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	< 0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	26.46 mg/l		
7	Dissolved Phosphate as(P)	< 5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	96 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	900	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.

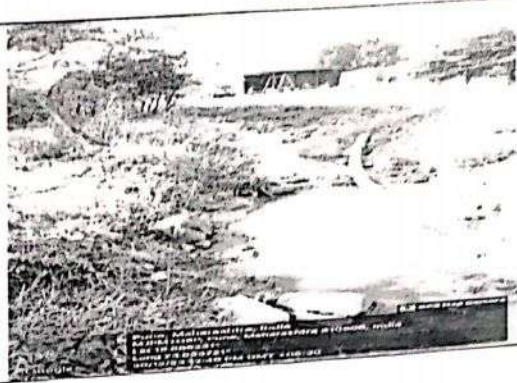


Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location : Lat 18.691091 ⁰ Long 73.591707 ⁰ D : 5	Shivane Drain 
Date of sample collection	30/12/2023.		
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Shivane Drain	Standard specified by MPCB	Remarks
1	pH Value	7.69	6.5-8.5	Within limits
2	Dissolved Oxygen	1.1 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27 ⁰ C)	58 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	206 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	0.84 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	44.2 mg/l		
7	Dissolved Phosphate as(P)	< 5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	63 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	1600	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location	Pimpal Khunte Drain 
Date of sample collection	30/12/2023.	Lat 18.686215 ⁰ Long 73.633677 ⁰	
Date of start of analysis	01/01/2024.	D : 6	
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Pimpal Khunte Drain	Standard specified by MPCB	Remarks
1	pH Value	7.46	6.5-8.5	Within limits
2	Dissolved Oxygen	0.8 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27 ⁰ C)	310 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	1071 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	61.37 mg/l		
7	Dissolved Phosphate as(P)	7.17 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	147 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	1600	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.692289 ⁰ Long 73.645924 ⁰ D : 7	Bebadohol Drain 
Date of sample collection	30/12/2023.		
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Bebadohol Drain	Standard specified by MPCB	Remarks
1	pH Value	7.47	6.5-8.5	Within limits
2	Dissolved Oxygen	0.6 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27 ⁰ C)	84 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	281 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	0.85 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	35.61 mg/l		
7	Dissolved Phosphate as(P)	7.20 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	82 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	900	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.704144 ⁰ Long 73.641257 ⁰ D : 8	Urse Drain 
Date of sample collection	30/12/2023.		
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Urse Drain	Standard specified by MPCB	Remarks
1	pH Value	7.12	6.5-8.5	Within limits
2	Dissolved Oxygen	0 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27 ⁰ C)	60 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	214 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	0.89 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	50.7 mg/l		
7	Dissolved Phosphate as(P)	7.83 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	69 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	1600	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.69666 ⁰ Long 73.660677 ⁰ D : 9	Parandwadi Drain
Date of sample collection	30/12/2023.		
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Parandwadi Drain	Standard specified by MPCB	Remarks
1	pH Value	8.03	6.5-8.5	Within limits
2	Dissolved Oxygen	0.8 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27 ⁰ C)	42 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	144 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	0.84 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	42.92 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	26 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	500	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.691966 ⁰ Long 73.664891 ⁰ D : 10	Dhamane Drain 
Date of sample collection	30/12/2023.		
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Dhamane Drain	Standard specified by MPCB	Remarks
1	pH Value	7.38	6.5-8.5	Within limits
2	Dissolved Oxygen	1.6 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	78 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	257 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	0.83 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	64.31 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	55 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	900	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location	Somatane Drain 
Date of sample collection	30/12/2023.	Lat 18.696432 ⁰ Long 73.681455 ⁰	
Date of start of analysis	01/01/2024.	D : 11	
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Somatane Drain	Standard specified by MPCB	Remarks
1	pH Value	7.36	6.5-8.5	Within limits
2	Dissolved Oxygen	0.9 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	97 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	329 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	< 0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	39.37 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	21 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	240	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Report of Drain water quality assessment along Pavana River stretch at selected locations under the "Pavana Sudhar Prakalp" COEP Technological University Pune 2023-24

Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.680333 ⁰ Long 73.688172 ⁰ D : 12	Shirgaon Drain 
Date of sample collection	30/12/2023.		
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Shirgaon Drain	Standard specified by MPCB	Remarks
1	pH Value	6.83	6.5-8.5	Within limits
2	Dissolved Oxygen	0 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	52 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	178 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	51.4 mg/l		
7	Dissolved Phosphate as(P)	< 5mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	71 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	350	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :- I-Your Reference letter : EGI/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.670671 ⁰ Long 73.680121 ⁰ D : 13	Godumbre Drain 
Date of sample collection	30/12/2023.		
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Godumbre Drain	Standard specified by MPCB	Remarks
1	pH Value	7.36	6.5-8.5	Within limits
2	Dissolved Oxygen	0 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	47 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	161 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	47.33 mg/l		
7	Dissolved Phosphate as(P)	5.1 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	10 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	280	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.666802 ⁰ Long 73.700893 ⁰	Gahunje Drain 
Date of sample collection	30/12/2023.	D : 14	
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Gahunje Drain	Standard specified by MPCB	Remarks
1	pH Value	7.15	6.5-8.5	Within limits
2	Dissolved Oxygen	0.3 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	44 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	147 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	2.06 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	43.11 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	33 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	300	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EGI/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.653521 ⁰ Long 73.685075 ⁰ D : 15	Darumbre Drain	
Date of sample collection	31/12/2023.			
Date of start of analysis	01/01/2024.			
Date of end of analysis:	10/01/2024			

Test results :

Sr. No.	Name of the Test	Darumbre Drain	Standard specified by MPCB	Remarks
1	pH Value	7.65	6.5-8.5	Within limits
2	Dissolved Oxygen	0.5 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27 ⁰ C)	27 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	103 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	0.61 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	38.56 mg/l		
7	Dissolved Phosphate as(P)	5.21 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	11 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	240	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Report of Drain water quality assessment along Pavana River stretch at selected locations under the "Pavana Sudhar Prakatp" COEP Technological University Pune 2023-24

Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.7015 ⁰ Long 73.461746 ⁰ D : 16	Aundholi Drain 
Date of sample collection	17/01/2024.		
Date of start of analysis	17/01/2024.		
Date of end of analysis:	22/01/2024		

Test results :

Sr. No.	Name of the Test	Aundholi Drain	Standard specified by MPCB	Remarks
1	pH Value	7.77	6.5-8.5	Within limits
2	Dissolved Oxygen	2.9 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	<5 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	<15 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	24.32 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	09 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	500	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.

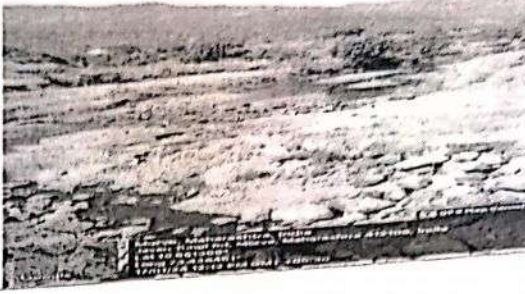


Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.672907 ⁰ Long 73.459618 ⁰ D : 17	Kolechafesar Drain 
Date of sample collection	17/01/2024.		
Date of start of analysis	17/01/2024.		
Date of end of analysis:	22/01/2024		

Test results :

Sr. No.	Name of the Test	Kolechafesar Drain	Standard specified by MPCB	Remarks
1	pH Value	7.91	6.5-8.5	Within limits
2	Dissolved Oxygen	4.1 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27 ⁰ C)	<5 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	<15 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	16.11 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	05 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	350	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.651377 ⁰ Long 73.438387 ⁰ D : 18	Morve Drain 
Date of sample collection	17/01/2024.		
Date of start of analysis	17/01/2024.		
Date of end of analysis:	22/01/2024		

Test results :

Sr. No.	Name of the Test	Morve Drain	Standard specified by MPCB	Remarks
1	pH Value	7.78	6.5-8.5	Within limits
2	Dissolved Oxygen	2.3 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	7 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	31 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	18.71 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	<5 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	280	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.

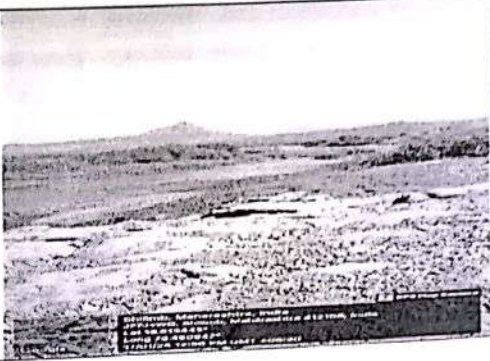


Reference :- I-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.61771 ⁰ Long 73.46374 ⁰ D : 19	Shilimb Drain 
Date of sample collection	17/01/2024.		
Date of start of analysis	17/01/2024.		
Date of end of analysis:	22/01/2024		

Test results :

Sr. No.	Name of the Test	Shilimb Drain	Standard specified by MPCB	Remarks
1	pH Value	8.20	6.5-8.5	Within limits
2	Dissolved Oxygen	3.7 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	<5 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	<15 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	16.86 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	06 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	220	Total coliform 230/100 ml	Within limits



Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.613442 ⁰ Long 73.480947 ⁰	Wadeshwar Drain
Date of sample collection	17/01/2024.	D : 20	
Date of start of analysis	17/01/2024.		
Date of end of analysis:	22/01/2024		

Test results :

Sr. No.	Name of the Test	Wadeshwar Drain	Standard specified by MPCB	Remarks
1	pH Value	7.93	6.5-8.5	Within limits
2	Dissolved Oxygen	2.6 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	<5 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	<15 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	19.37 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	07 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	280	Total coliform 230/ 100 ml	Parameter is above Standard Specified by MPCB. Need treatment.

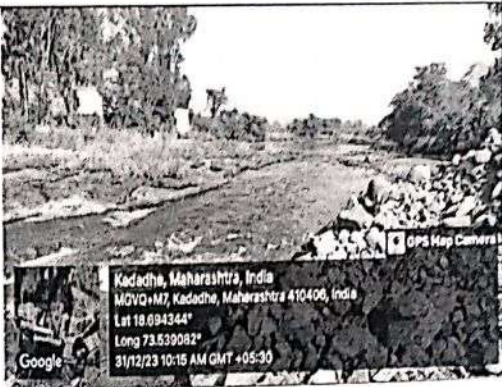


Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.677933 ⁰ Long 73.512055 ⁰	Kothurne River
Date of sample collection	31/12/2023.	R : 1	
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Kothurne River	Standard specified by MPCB	Remarks
1	pH Value	7.59	6.5-8.5	Within limits
2	Dissolved Oxygen	6.4 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	<5 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	<15 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	28.70 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	09 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	90	Total coliform 230/100 ml	Within limits



Reference :-1-Your Reference letter : EGI/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.694388 ⁰ Long 73.539082 ⁰ R : 2	Kadadhe River 
Date of sample collection	31/12/2023.		
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Kadadhe River	Standard specified by MPCB	Remarks
1	pH Value	7.68	6.5-8.5	Within limits
2	Dissolved Oxygen	5.9 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	05 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	17 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	25.11 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Within limits
8	Suspended Solids	<5 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	50	Total coliform 230/100 ml	Within limits



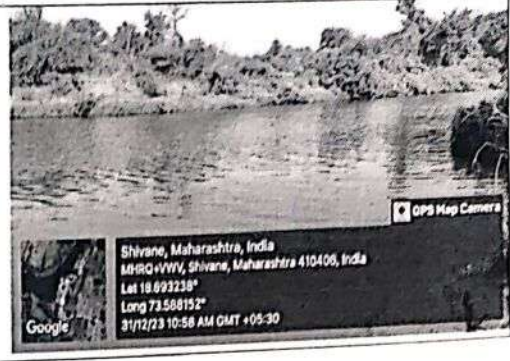
Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.701173° Long 73.564602° R : 3	Thugaon River
Date of sample collection	31/12/2023		
Date of start of analysis	01/01/2024		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Thugaon River	Standard specified by MPCB	Remarks
1	pH Value	7.72	6.5-8.5	Within limits
2	Dissolved Oxygen	5.3 mg/l	Not less than 5 mg/l	Within limits
3	BOD (3 days @27°C)	<5 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	<15 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	20.52 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	<5 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	70	Total coliform 230/100 ml	Within limits




Reference :-1-Your Reference		Sample Location	Shivane River	
letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023				Lat 18.693322 ⁰ Long 73.588021 ⁰
Date of sample collection	31/12/2023.			R : 4
Date of start of analysis	01/01/2024.			
Date of end of analysis:	10/01/2024			



Test results :

Sr. No.	Name of the Test	Shivane River	Standard specified by MPCB	Remarks
1	pH Value	7.77	6.5-8.5	Within limits
2	Dissolved Oxygen	5.9 mg/l	Not less than 5 mg/l	Within limits
3	BOD (3 days @27 ⁰ C)	<5 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	<15 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	26.44 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	08 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	110	Total coliform 230/100 ml	Within limits




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३		Sample Location Lat 18.694992 ⁰ Long 73.65134 ⁰	Bebadohol River
दिनांक : 18/12/2023			
Date of sample collection	31/12/2023.	R : 5	
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Bebadohol River	Standard specified by MPCB	Remarks
1	pH Value	7.78	6.5-8.5	Within limits
2	Dissolved Oxygen	6.1 mg/l	Not less than 5 mg/l	Within limits
3	BOD (3 days @27 ⁰ C)	<5 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	<15 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	29.43 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	11 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	70	Total coliform 230/100 ml	Within limits




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.695988 ⁰ Long 73.670042 ⁰ R : 6	Somatane River	
Date of sample collection	31/12/2023.			
Date of start of analysis	01/01/2024.			
Date of end of analysis:	10/01/2024			

Test results :

Sr. No.	Name of the Test	Somatane River	Standard specified by MPCB	Remarks
1	pH Value	7.95	6.5-8.5	Within limits
2	Dissolved Oxygen	4.7 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	<5 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	<15 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	24.27 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	<5 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	50	Total coliform 230/100 ml	Within limits

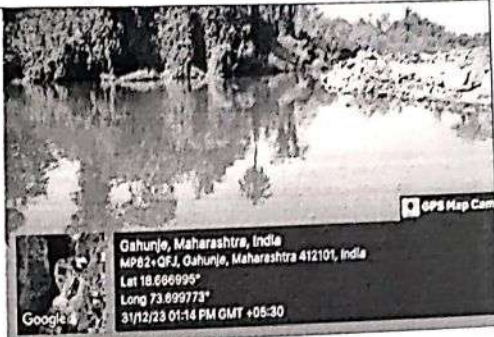


Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.659747 ⁰ Long 73.712353 ⁰ R : 7	Sangvade River 
Date of sample collection	31/12/2023.		
Date of start of analysis	01/01/2024.		
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Sangvade River	Standard specified by MPCB	Remarks
1	pH Value	7.55	6.5-8.5	Within limits
2	Dissolved Oxygen	3.8 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	<5 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	17 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	27.89 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	13 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	110	Total coliform 230/100 ml	Within limits




Reference :-1-Your Reference letter : EGI/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location	Gahunje River
Date of sample collection	31/12/2023.	Lat 18.666995 ⁰ Long 73.699773 ⁰	
Date of start of analysis	01/01/2024.	R : 8	
Date of end of analysis:	10/01/2024		

Test results :

Sr. No.	Name of the Test	Gahunje River	Standard specified by MPCB	Remarks
1	pH Value	7.81	6.5-8.5	Within limits
2	Dissolved Oxygen	3.9 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	08 mg/l	Not to exceed 10 mg/l	Within limits
4	COD	34 mg/l	Not to exceed 50 mg/l	Within limits
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	22.36 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	38 mg/l	Not to exceed 10 mg/l	Within limits
9	MPN	80	Total coliform 230/100 ml	Within limits




Reference :- I-Your Reference letter : I:G1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location	River at Dapodi Bridge
Date of sample collection	08/01/2024.	Lat 18.574082 ⁰ Long 73.832493 ⁰	
Date of start of analysis	08/01/2024.	R : 9	
Date of end of analysis:	14/01/2024		

Test results :

Sr. No.	Name of the Test	River at Dapodi Bridge	Standard specified by MPCB	Remarks
1	pH Value	7.29	6.5-8.5	Within limits
2	Dissolved Oxygen	0.3 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	26 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	84 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	34.63 mg/l		
7	Dissolved Phosphate as(P)	5.45 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	33 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	900	Total coliform 230/100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EG1/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ 18/12/2023		Sample Location Lat 18.577646 ⁰ Long 73.820173 ⁰ R : 10	River at Sangavi Bridge
Date of sample collection	08/01/2024.		
Date of start of analysis	08/01/2024.		
Date of end of analysis:	14/01/2024		

Test results :

Sr. No.	Name of the Test	River at Sangavi Bridge	Standard specified by MPCB	Remarks
1	pH Value	7.27	6.5-8.5	Within limits
2	Dissolved Oxygen	1.6 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	21 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	70 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	29.24 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	29 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	900	Total coliform 230/100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EGI/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.602231 ⁰ Long 73.821724 ⁰ R : 11	River at Kasarwadi 
Date of sample collection	08/01/2024.		
Date of start of analysis	08/01/2024.		
Date of end of analysis:	14/01/2024		

Test results :

Sr. No.	Name of the Test	River at Kasarwadi	Standard specified by MPCB	Remarks
1	pH Value	7.31	6.5-8.5	Within limits
2	Dissolved Oxygen	0.7 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	17 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	56 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	19.62 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	24 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	300	Total coliform 230/100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EGI/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.620709 ⁰ Long 73.795863 ⁰ R : 12	River at Pimpri 
Date of sample collection	08/01/2024.		
Date of start of analysis	08/01/2024.		
Date of end of analysis:	14/01/2024		

Test results :

Sr. No.	Name of the Test	River at Pimpri	Standard specified by MPCB	Remarks
1	pH Value	7.22	6.5-8.5	Within limits
2	Dissolved Oxygen	0.4 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27 ⁰ C)	27 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	89 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	38.52 mg/l		
7	Dissolved Phosphate as(P)	5.35 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	36 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	1600	Total coliform 230/100 ml	Parameter is above Standard Specified by MPCB. Need treatment.




Reference :-1-Your Reference letter : EGI/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location Lat 18.641023 ⁰ Long 73.746816 ⁰ R : 13	River at Chinchwad 
Date of sample collection	08/01/2024.		
Date of start of analysis	08/01/2024.		
Date of end of analysis:	14/01/2024		

Test results :

Sr. No.	Name of the Test	River at Chinchwad	Standard specified by MPCB	Remarks
1	pH Value	7.57	6.5-8.5	Within limits
2	Dissolved Oxygen	2.1 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	25 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	70 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	31.68 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	27 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	900	Total coliform 230/100 ml	Parameter is above Standard Specified by MPCB. Need treatment.



Reference :-1-Your Reference letter : EGI/पनसुप्र/प्र.क्र. ६९/४०९९/२०२३ दिनांक : 18/12/2023		Sample Location	River at Ravet
Date of sample collection	08/01/2024.	Lat 18.641017 ⁰ Long 73.74684 ⁰ R : 14	
Date of start of analysis	08/01/2024.		
Date of end of analysis:	14/01/2024		

Test results :

Sr. No.	Name of the Test	River at Ravet	Standard specified by MPCB	Remarks
1	pH Value	7.55	6.5-8.5	Within limits
2	Dissolved Oxygen	2.9 mg/l	Not less than 5 mg/l	Parameter is below Standard Specified by MPCB. Need treatment.
3	BOD (3 days @27°C)	16 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
4	COD	39 mg/l	Not to exceed 50 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
5	Ammonium Nitrogen NH ₄ -N	<0.5 mg/l	Not to exceed 5mg/l	Within limits
6	Total Nitrogen	27.66 mg/l		
7	Dissolved Phosphate as(P)	<5 mg/l	Not to exceed 2mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
8	Suspended Solids	25 mg/l	Not to exceed 10 mg/l	Parameter is above Standard Specified by MPCB. Need treatment.
9	MPN	500	Total coliform 230/100 ml	Parameter is above Standard Specified by MPCB. Need treatment.



Drain Samples			Location Name	BOD mg/l	COD mg/l	BOD/COD Ratio
Sr. No	N	E				
1	18.678998 ⁰	73.510648 ⁰	Kale Village Drain	9	34	3.78
2	18.679038 ⁰	73.510545 ⁰	Kothurane Drain	18	67	3.72
3	18.703661 ⁰	73.556568 ⁰	Karunj Drain	8	34	4.25
4	18.705794 ⁰	73.562994 ⁰	Thugao Drain	28	100	3.57
5	18.691091 ⁰	73.591707 ⁰	Shivane Drain	58	206	3.55
6	18.686215 ⁰	73.633677 ⁰	Pimpal Khunte Drain	310	1071	3.45
7	18.692289 ⁰	73.645924 ⁰	Bebadohol Drain	84	281	3.35
8	18.704144 ⁰	73.641257 ⁰	Urse Drain	60	214	3.57
9	18.691966 ⁰	73.664891 ⁰	Parandwadi Drain	42	144	3.43
10	18.696432 ⁰	73.681455 ⁰	Dhamane Drain	78	257	3.29
11	18.696432 ⁰	73.681455 ⁰	Somatane Drain	97	329	3.39
12	18.680333 ⁰	73.688172 ⁰	Shirgaon Drain	52	178	3.42
13	18.670671 ⁰	73.680121 ⁰	Godumbre Drain	47	161	3.43
14	18.666802 ⁰	73.700893 ⁰	Gahunje Drain	44	147	3.34
15	18.653521 ⁰	73.685075 ⁰	Darumbre Drain	27	103	3.81
16	18.7015 ⁰	73.461746 ⁰	Aundholi Drain	<5	<15	--
17	18.672907 ⁰	73.459618 ⁰	Kolechafesar Drain	<5	<15	--
18	18.651377 ⁰	73.438387 ⁰	Morve Drain	7	31	4.43
19	18.61771 ⁰	73.46374 ⁰	Shilimb Drain	<5	<15	--
20	18.613442 ⁰	73.480947 ⁰	Wadeshwar Drain	<5	<15	--
River Samples						
1	18.677933 ⁰	73.512055 ⁰	Kothurane River	<5	<15	--
2	18.694388 ⁰	73.539082 ⁰	Kadadhe River	5	17	3.40
3	18.701173 ⁰	73.564602 ⁰	Thugaon River	<5	<15	--
4	18.693322 ⁰	73.588021 ⁰	Shivane River	<5	<15	--
5	18.694992 ⁰	73.65134 ⁰	Bebadohol River	<5	<15	--
6	18.695988 ⁰	73.670042 ⁰	Somatane River	<5	<15	--
7	18.659747 ⁰	73.712353 ⁰	Sangvade River	<5	<15	--
8	18.666995 ⁰	73.699773 ⁰	Gahunje River	8	34	3.40
9	18.574082 ⁰	73.832493 ⁰	River at Dapodi Bridge	26	84	4.25
10	18.577646 ⁰	73.820173 ⁰	River at Sangavi Bridge	21	70	3.23
11	18.602231 ⁰	73.821724 ⁰	River at Kasarwadi	17	56	3.33
12	18.620709 ⁰	73.795863 ⁰	River at Pimpri	27	89	3.29
13	18.641023 ⁰	73.746816 ⁰	River at Chinchwad	27	70	3.30
14	18.641017 ⁰	73.74684 ⁰	River at Ravet	16	39	2.59



Conclusion:

Observations areas below;

1. One drain is critical considering COD /BOD Ratio above three and COD is above 500 mg/l need further chemical analysis and specific treatment other than conventional treatment.
2. Ten drains are semi-critical considering COD /BOD ratio above 3 and COD is between 100 to 500 mg/l need specific treatment other than conventional treatment.
3. In 05 river samples, COD /BOD Ratio is above three and need further chemical analysis and specific treatment other than conventional treatment.



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