



ENVIROCHEM SERVICES (OPC) PVT. LTD.

Engineering Environment for Better Tomorrow

Document No. : ESPL-LET-JUN24-02

Date : 19th June, 2024.

To,
Honorable Minister,
Ministry of Jal Shakti,
New Delhi, Delhi - 110001.

Subject: To seek support for the River Tapi Dredging as River Rejuvenation and Flood Preventive Measures on Research & Development Basis.

Respected Sir,

We are seeking your support for the River Tapi Dredging as River Rejuvenation and Flood Preventive Measures on Research & Development Basis. First, we would like to take this opportunity to introduce ourselves, EnviroChem Services (OPC) Pvt. Ltd., as one of the best industries working in the segment of environment management systems. Since 2016, we have developed various environmental and process techniques, aiding other consultants and our clients to excel with a clear vision of an "Engineering Environment for Better Tomorrow."

The goods and services offered by EnviroChem Services are Technology research and development (R&D), Water Management Systems (WTP, WWTP/STP/ETP/ZLD), Air Pollution Control Measures (APCM), Odour Control System (OCU), Solid Waste Segregation Machine, Incinerator, Waste-To-Energy (WTE), River Rejuvenation, Carbon Capture and Utilization (CCU), Circular Economy, and Ecology Restoration. We have also attached herewith our credentials as **Annexure-A**.



ENVIROCHEM SERVICES (OPC) PVT. LTD.

Engineering Environment for Better Tomorrow

Since the inception of ESPL, we have been seeking an opportunity to work for the River Tapi Water Management, including Potable Water, Wastewater, and River Rejuvenation.

The following are the principal points of the proposed River Tapi Dredging Project.

Need for the River Tapi Dredging:

- River Rejuvenation
- Preserve Hazira Mangroves
- Flood Preventive Measures
 - River Tapi Backflow Protection

Dredging Justification:

- Monsoon River Tapi Flow: **11300 cusec**
- River Tapi Width:
 - Before Junction: **465 m**
 - At Junction: **680 m**
- River Tapi Slope: **1/2130**
- River Tapi Bed Roughness: **0.04**

Based on the above details, the relationship between the River Tapi Flow, Depth, and Width at Constant Velocity, which is **No Backflow Condition**, and the same Bed Roughness and Slope comes to be nearly **1.0**.

$$f(b) \approx f(j)$$

Where, $f(b)$ is the function of river flow, river depth, river width, bed roughness, and slope before Hazira Mangroves Junction.

$f(j)$ is the function of river flow, river depth, river width, bed roughness, and slope at Hazira Mangroves Junction.



ENVIROCHEM SERVICES (OPC) PVT. LTD.

Engineering Environment for Better Tomorrow

Hence, there is a need for Tapi River Dredging as River Rejuvenation and Flood Preventive Measures on Research & Development Basis to maintain the Slope and Bed Roughness.

Research & Development Area: **Around 161 Acres**

The location details are attached herewith as **Annexure-B**.

Further, the proposed project of the River Tapi Dredging as River Rejuvenation and Flood Preventive Measures on Research & Development Basis is based on environmental economics with a milestone for the futuristic River Tapi Projects.

To initiate the Proposed Research & Development Project, we need your support and guidance in implementing the Project.

Thank you for your time, guidance, and consideration.

For, **EnviroChem Services (OPC) Pvt. Ltd.**



KD Sameer

Director

+91-63587-43301

sameer@envirochemservices.in

**807, Luxuria Business Hub, Dumas Road,
Magdalla, Surat - 395 007, Gujarat, India.**





CC: --

Enclosure: 1) Annexure-A: ESPL-Credentials
2) Annexure-B: Location of Dredging

River Tapi Dredging

- Monsoon River Tapi Flow: 11300 cusec
- River Tapi Width
- Before Junction: 485 m
- At Junction: 680 m
- River Tapi Slope: 1/2130
- River Tapi Bed Roughness: 0.04
- at Constant Velocity, No Backflow Condition
- at same River Bed Roughness and Slope
- Need Same Depth

Legend

-  Dredging Area
-  Magadalla Port
-  River Tapi Width - At Junction
-  River Tapi Width - Before Junction

Google Earth

Image © 2024 Airbus

CK Pithawalla College of Engineering &...

Magadalla Port

1 km

