

**EXPRESSION OF INTEREST (EOI)  
FOR  
LAKE PURIFICATION & REMEDIATION WITH  
AERATION & BIOREMEDIATION OR  
EQUIVALENT TECHNOLOGY IN GOTRI LAKE,  
VADODARA**



**Municipal Commissioner**  
**Vadodara Municipal Corporation**  
Khanderao Market Building, Rajmahel Road,  
Vadodara - 390209



## **1. INTRODUCTION:**

Vadodara Municipal Corporation with a theme of water conservation and making use of waste water, decided to take up the pledge to transform lakes of the city in to lively water bodies with restored aquatic ecology and saving the environment of the city.

As untreated sewerage from the neighboring area enters the lake through the connected drainage systems, daily deposition of organic and inorganic material gives rise to eutrophication and decomposition of the same by natural way is resulting into sludge accumulation. The project is purely focused upon the reinstating the natural ecosystem and making the water quality adequate to support life, with a clear and straightforward objective to remove all harmful aquatic weeds, increase the Dissolved Oxygen (DO) level, reduce Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD), increase the depth of the water body, significant reduction of nutrient elements (like Nitrogen and Phosphorus access of which is harmful for aqua life to balance the ecology, and plantation of *Phyllostachys pubescens* or other equivalent for natural air purification and CO<sub>2</sub> absorption.

Table 1- Details of the lake to be covered under the project

S. No.	Name of the Lake	Geographical Position	Location	Area	Approximate volume
1	Gotri Lake	22.31°N 73.14°E	Gotri Lake	5.9 hectares	140 Thousand cum

Note- The bidder has to make his own assessment of area & volume of lake at own cost before submission of bid.



**Figure 1- Gotri lake – Google Earth Image**

## 2. ADVERTISEMENT

	<b>VADODARA MUNICIPAL CORPORATION</b> <b>EXPRESSION OF INTEREST</b>	
<p>VMC invites Expression of Interest (EOI) from the interested Agencies for <b>LAKE PURIFICATION &amp; REMEDIATION WITH BIOREMEDIATION OR EQUIVALENT TECHNOLOGY IN GOTRI LAKE, VADODARA LAKE PURIFICATION &amp; RESTORATION WITH AERATION &amp; BIOREMEDIATION OR EQUIVALENT TECHNOLOGY IN GOTRI LAKE, VADODARA</b></p> <p><b><u>Bidding Procedure:</u></b> The complete set of EOI document for work can be obtained from the VMC office, at the address "OFFICE OF THE EXECUTIVE ENGINEER, FUTURISTIC PLANNING CELL, KHANDERAO MARKET BUILDING, RAJMAHEL ROAD, VADODARA-390209 during working hours on payment of demand draft (towards EOI documents fee) for an amount of <u>INR 10,000/-</u> drawn in favor of Municipal Commissioner, VMC payable at Vadodara. Alternatively, the EOI document can be downloaded from the website <a href="http://www.vmc.gov.in">www.vmc.gov.in</a>. In this case demand draft of documents fee shall be furnished with EOI in separate cover. Hard copy of Biodata/Company Profile document for <b>LAKE PURIFICATION &amp; REMEDIATION WITH BIOREMEDIATION OR EQUIVALENT TECHNOLOGY IN GOTRI LAKE, VADODARA LAKE PURIFICATION &amp; RESTORATION WITH AERATION &amp; BIOREMEDIATION OR EQUIVALENT TECHNOLOGY IN GOTRI LAKE, VADODARA</b> should reach at the address mentioned below on or before <b>20/08/2019 upto 16-00 hrs</b> by <b>RPAD/Speed Post only</b>. To, Deputy Municipal Commissioner, Record Branch Rajmahel Road, Khanderao Market Building, VMC, Vadodara, GUJARAT.-390209.</p> <p><b>P.R.O. No.</b> / <b>MUNICIPAL COMMISSIONER</b></p> <p>Visit us at: <a href="http://www.vmc.gov.in">www.vmc.gov.in</a></p>		

### **3. OBJECTIVES & SCOPE OF WORK**

Water in the lake/ pond is contaminated due to various reasons, the water is deficient in dissolved oxygen and rich in nutrients and organic matter and Suspended solids. VMC invites proven technology for in-situ treatment of lake/pond water through Bioremediation and Aeration system or equivalent technology.

For the eco-friendly bioremediation of Gotri ponds/lake in Vadodara and creating a good ambiance for the visitors, microbial cultures will be used to prevent the chemical exposure, reduction of organic waste in the water and promoting a better environment.

1. The bidder may express their willingness and interest, singly or jointly, in doing this work in writing along with their Company profile, Capability, Experience, Experience in similar work (Similar work means in-situ treatment of lake/pond water) and annual turnover etc to VMC.
2. The bidder is free to offer / suggest proven technique with design, relevant calculations, implementation sequences/strategy to achieve goals (as per standard requirements) etc.
3. Technology offered should be such that part or whole lake is not dried out or emptied during the work. Also no harmful chemicals should be used for the above said project.
4. Bidders will be short listed based on information submitted as above (1) and /or if required will be invited for the presentation with information mentioned at (1).
5. Short listed bidders based on above, may be further invited for presentation. The presentation should include;
  - a. Concept
  - b. Detailed methodology
  - c. Operation and Maintenance
  - d. Scope of services
  - e. Project Deliverables
  - f. Treatment level @ Environmental norms & other parameters.
  - g. Comparison with other systems/techniques.

To attain Surface water quality criteria as described below in Table should be attained as outcome of this entire project.

S. No.	Parameters for Inland Surface Water	Limiting Standards
1	Ph	6.5 to 8.5
2	Dissolved Oxygen (DO) mg/l (minimum)	5
3	Biochemical Oxygen Demand @ 27 ° C, 3 day, mg/ltr	Less than 10
4	Chemical Oxygen Demand, mg/ltr	Less than 30
5	Total Suspended solids (TSS), mg/ltr	Less than 10
6	Ammonical Nitrogen (NH <sub>4</sub> -N), mg/ltr	Less than 5
7	Total Nitrogen, N-Total, mg/ltr	Less than 10
8	Total Coliform organisms ** MPN/100ml (max)	<500
9	Total Phosphate (mg/l)	Less than 2

The product to be used must be certified by a Government Approved Agency for being safe for use.

Patents, university studies, client appraisals, etc should be included to endorse the methodology and technology for further evaluation.

#### **4. GENERAL CONDITIONS OF CONTRACT:**

- Manufacturer should have an in-house DSIR recognized R&D facility.
- Manufacturer should have a SSI registration certification
- Manufacturer should have company registration certification with the registration number
- Manufacturing of the product should be done in a GMP certified facility
- Products should be Non Toxic, certificate from NABL approval
- Manufacturer should have recognized quality certificates such as ISO certification
- Manufacturer should have reasonable office establishment in India with adequate qualified personnel to perform technical, administrative and commercial function.
- The conditional EOI shall not be accepted and shall be rejected outright, unless, the Nature of condition(s) put forward by Companies / firms is acceptable to VMC.
- The Corporation reserves the right to reject all or any of the EOI who in the judgment of the corporation does not appear to be in its best interest and the Companies / firms shall have no cause of action or claim against the Corporation or its officers, employees, Successors for assignees for rejection of its EOI.
- Interested Companies / firms shall carefully read the eligibility criteria, furnish the details and satisfy the same; otherwise the EOI shall be rejected without assigning any reason.
- Payment for CAPEX will be made after attainment of above criteria after commissioning of project.
- O&M for 5 years will be in the scope of contractor. Payment for O&M will be made on monthly basis after attainment of required parameters and after submission of monthly test reports and reports as decided during tender stage only. Testing for water parameters will be in the scope of contractor and testing reports will be decided during tender stage.
- Conditions set in tender document will supersede the conditions in EOI document and contractor will have to abide to the conditions set in the tender.
- Bidders are requested to check the feasibility of the locations and verify the area on their own and at their own cost.
- All the approvals for the Project will be procured by successful Bidder at its own cost and liability.
- The bidder shall take care of and be liable for all safety and prevailing labor laws precautions and procedures etc. for executing the work of the Project.
- All the approvals/permission to be procured for the Project is in bidder's scope and all the expenditure for getting all such approvals/permissions is also in bidder's scope.
- The concept of the work for the Project shall be energy efficient and environment friendly materials to be used.
- After approval of the EOI by VMC, VMC will float the bid for the approved shortlisted Bidders (those Bidders who have been qualified by VMC in EOI).
- VMC will issue the Letter of Intent at first stage to the successful Bidder. Based on the LOI and subsequent execution of Concession Agreement with the successful Bidder, the successful bidder will be first required to get all statutory approvals required from the concern respective Authorities. And only upon submission of the all these approvals to VMC, the Developer shall be able to commence the work of



the Project, though the Developer shall be entitled to commence the preliminary work and activities pertaining to the main work of the Project.

- VMC reserves the right to accept any or reject all the EOIs at their sole discretion without assigning any reason thereof. And the decision of the Municipal Commissioner is final and binding to all the Bidders in this regard. Bidders will not have any other rights in this regard.
- VMC shall have right to call for clarification/original of the supporting documents, furnished by any Bidder for verification, as it may deem fit and also to cross check /cross verify, from the original issuer, any details/credentials furnished by any of the Bidders. None of the Bidders shall have any objections whatsoever in this regards.
- Attached is the prescribed format of qualifying details. Interested parties may use this format & add additional information, if any, as part of annexure, if they wish to.
- The offer shall contain hard copy of completed Document which should reach on or before 16:00 hours on dated 20/08/2019 in sealed cover addressed (Mentioning the name of the work) to as given herein below.
- The applicant/bidder shall bear all its costs associated with or relating to the preparation and submission of its EOI including but not limited to preparations, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by VMC or any other cost incurred in connection with or relating to its EOI. All such costs and expenses will remain with the applicant and VMC shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an applicant/bidder.
- VMC, at its discretion, reserve the right to change, modify, alter and amend the terms and conditions of the bid.
- VMC reserve the right to reject any or all the bids without assigning any reasons thereof and whereupon, no claims or correspondence shall be entertained from anyone in this regard
- EOI shall be addressed by RPAD/Speed Post only to

To,  
Deputy Municipal Commissioner,  
Record Branch,  
Rajmahel Road, Khanderao Market,  
VMC. Vadodara, Gujarat.-390209

- Applications with incomplete information or enclosures will be liable to be rejected by VMC.
- For further inquiry contact :-  
Mr. Divyang Modi  
Dy. Executive Engineer  
Mo. No. 7069029132

## **5. ELIGIBILITY CRITERIA**

1. Net Worth: A firm must have an aggregate tangible net-worth as per the previous three year's available audited results, excluding revaluation reserve, goodwill and other intangible assets to be certified by a chartered accountant. The Minimum Net Worth criteria will be 30.00 Lakh in the last five consecutive financial years i.e. 2012-2013 to 2016-2017.

CA certified/IT certified copy to be submitted

2. Gross Annual Turnover: A firm must have a minimum average Gross Annual Turnover of 60.00 Lakh in the last five consecutive financial years i.e. 2012-2013 to 2016-2017.

CA certified/IT certified copy to be submitted

3. The company of the bidder shall be registered under the Indian Companies Act, 1956. The Bidder shall submit background information of the firm viz. Office setup, contact details and working phone / cell number, authority letter for signing the tender documents.
4. The bidder should be a manufacturer of the microbial products having its own registered manufacturing and R&D facility in India equipped with required modern equipments, machinery & scientists / researchers on its pay roll. Photocopy as proof of the same and resumes of the scientists / researchers engaged for R&D shall be enclosed with the technical bid.
5. The bidder should have a minimum experience of 05 years in the field of Research & Development, Manufacturing and Supplying of bio-remediation products.
6. The Bidders must have completed at least one lake/pond bioremediation project. Work order/Completion report for the completed project should be attached along with technical bid.
7. The bidder and their microbial products should be registered on GeM portal in its latest version. A copy of registration certificate shall be enclosed with the technical bid.
8. The Bidder should be registered with the concerned/required Govt. Departments; proof of the registration shall be furnished as a part of technical document.
9. The Company/ registered Agencies/ Firms should have relevant ISO Certifications for Research & development and Manufacturing of bio-remediation products.

## **6. FORMAT OF APPLICATION**

(To be submitted on the letterhead of Prospective Bidder)

To,  
**The Municipal Commissioner,**  
**Vadodara Municipal Corporation**  
Rajmahel Road,  
Khanderao Market Building,  
Vadodara-390209

**Sub:** Design, Built, Finance, Operate And Transfer (BOT) For LAKE  
PURIFICATION & RESTORATION WITH BIOREMEDIATION OR  
EQUIVALENT TECHNOLOGY IN GOTRI LAKE, VADODARA

Dear Sir

With reference to the above advertisement, we hereby file this **‘Expression of Interest (EOI)’** to undertake the development of this project.

We understand that this is an initial expression of interest on our part and mere submission of this EOI does not entitle us to receive any documents or be invited to bid for this project.

Name and details of applicant and its representative authorized to file this EOI	
FULL NAME	
DESIGNATION	
NAME OF ORGANIZATION	
ADDRESS	
PHONES	
FAX	
MOBILE	
EMAIL	
WEBSITE	
Legal constitution of applicant: (Public limited/Private Limited/Partnership etc)*	
Current nature of Business or activities:*	
Last five years average annual turnover of the applicant /Lead Developer:* CA certified /IT certified copy shall be attached	
FY 2012-2013	
FY 2013-2014	
FY 2014-2015	
FY 2015-2016	
FY 2016-2017	
Net worth of the applicant / Lead Developer:*	

(computed from the latest audited balance sheet)			
FY 2012-2013			
FY 2013-2014			
FY 2014-2015			
FY 2015-2016			
FY 2016-2017			
Brief history of operations and activities of the applicant:*			
Name and Detail of Business House/Group to Which applicant belongs:*			
Name of group	Group company/ies	Primary activity	Turnover (last three financial years for each group) please provide separately for each year
Previous experience of Development and/or Operations & management of projects if any?			
Briefly explain your concept proposed and proposed components considered for the proposed for LAKE PURIFICATION & REMEDIATION WITH BIOREMEDIATION OR EQUIVALENT TECHNOLOGY IN GOTRI LAKE, VADODARA			

Note: \* Applicants shall attach documents/brochures/corporate literature and give more details which you may feel necessary to justify profile.

I/We declare that the information stated hereinabove is accurate.

Signature:

Full Name:

Designation:

Organization:

Address:

Date:

## **7. BID EVALUATION**

Bid Process Criteria (EOI Stage) for Selection of Bidders FOR LAKE PURIFICATION & REMEDIATION WITH BIOREMEDIATION OR EQUIVALENT TECHNOLOGY IN GOTRI LAKE, VADODARA

**Stage-I: Invitation of EOI**

Expression of Interest (EOI) is invited in prescribed format for understanding the response from the investors. Interested agencies shall submit their offer to VMC on or before 16:00 hours on dated **20/08/2019 by RPAD/Speed post only.**

**Stage-II: Short listing of EOIs**

**Criteria:**

VMC shall shortlist the agencies on the basis of qualifying document submitted. Short listed agencies shall be asked to make presentation for their proposals. VMC authority may ask any agency to incorporate their suggestions in their presentation or a common design may be prepared incorporating important features from the design of all the bidders.

**Stage-III : Call for Financial Bid**

On Approval of final Planning/Design, VMC shall ask to the qualified bidders for the financial bid to submit separately.