



VAPI GREEN ENVIRO LIMITED

Formerly known as Vapi Waste & Effluent Mgt. Co. Ltd.

VIA House, Plot No. 135, Char Rasta, GIDC VAPI - 396 195. Gujarat. INDIA
Mob.: 9714000828 | Tel.: (0260) 2428950, Telefax : (0260) 2429950 | Email : admin@vgelvapi.com
Website : www.vgelvapi.com | www.coevapi.com | CIN : U74210GJ1997GAP031525

18-12-2019

Request For Proposal **EOI for Engineering & Project Management Consultancy**

CETP UPGRADATION

MODIFICATION / UPGRADATION OF EXISTING COMMON EFFLUENT TREATMENT PLANT AND EXPANSION OF EXISTING COMMON EFFLUENT TREATMENT PLANT OF 55 MLD

Vapi Green Enviro Limited (VGEL), a Non-Equity, Non Profit entity, based on cooperative principles with corporate culture of management, was formed with an objective of providing a Comprehensive Environment Management Program (CEMP) for the Vapi Industries estate.

VGEL having CETP of 55MLD and Secured Landfill Sites for hazardous waste and are planning to investment more than Rs.50 Crores at our various sites within Vapi.

Expression of Interest are invited from reputed Organization having experience in designing, detail engineering, Project Management & supervision of installation & commissioning of various equipments / units related to Common Effluent Management Plant.

Last submission date: On or before 31st January, 2020, 15:00 Hrs at our Head Office (Vapi Green Enviro Limited, Plot No.135, VIA House, GIDC Char Rasta, Vapi - 396195)

Scope of Consultancy Work:

1. DPR
2. Detail Engineering
3. Preparation of Tender Documents, Bid evaluation.
4. Preparing General assembly Drawing, inter-connection of various equipments
5. Approval of contractor's drawing, if any.
6. Inspection of Quantity & Quality of material at site, Invoice verification of material & completed work.
7. Stage wise supervision / inspection of the project till completion including commissioning of equipment & up to Performance Guarantee runs.
8. EIA-EC for Expansion from 55 MLD to 100 MLD Expansion / Upgradation

VGEL would like to proceed with the project in stages:

Organization shall be a "Fixed Fee" contract and no increase in the fees shall be entertained for any reason whatsoever and equipment wise break up also may be furnished.



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Proposed list of Equipment / project to be executed.

EOI for

- (1) CETP Upgradation with existing system by doing augmentation in Inlet load with development of Industrial SCADA System at operational level of CETP as well as online monitoring system at Pumping Station and Vapi Industries, GIDC Area.
- (2) Upgradation of the Industrial Waste Water collection system by Installation of Above Ground Pipeline from Outlet of the Industries and our member unit to Common Sump with TOC meter.
- (3) Upgradation of Equalization System.
- (4) Primary and Secondary Clarification System.
- (5) Aeration System.
- (6) Sludge Drying System.
- (7) Stand by Power Generation Arrangement for 100% CETP Operation Load.
- (8) And any other requirement as per Updated new technologies for CETP.

Minimum Qualification Criteria:

- (1) Bidders should have completed single project work of minimum Rs.50 Crores during last three years, preferably in the field of Effluent Treatment Plant.
- (2) Minimum Turnover of the bidders should be Rs.1 Crores in the last financial year.

Brief Description of Scope of Work:

1. DPR shall cover three parts, namely.

Part A: To propose modifications/addition in the existing 55 MLD plant for achieving 250 ppm COD at the final outlet

Part B: To propose a scheme for the Hydraulic expansion of plant for increased capacity from 55 MLD to 70 MLD in 1st stage and subsequently 70 MLD to 100 MLD Expansion modular form and to also achieve 250 ppm COD and 100 ppm TSS at final outlet.

Part C: Propose methodology/option for dewatering of primary and secondary sludge generated from CETP and handling as per CPCB's guideline for direct landfill criteria.



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The descriptions of various Payment stages are given below:

Sr. No.	Description	Unit Rate in INR
1	Preparation of Details Project Report (DPR)	
a)	To propose modification/addition in the existing 55 MLD plant for achieving 250 ppm COD at the final outlet	
b)	To propose a scheme of the Hydraulic expansion of plant for increased capacity from 55 MLD to 70 MLD in 1 st stage and 70 MLD to 100 MLD in 2 nd Stage modular form and to also achieve 250 ppm COD and 100 ppm TSS at final outlet.	
c)	Optimize sludge handling system to achieve CPCB's direct landfill disposal criteria.	
	Subtotal of Point 1	
2.	Detail Design and Preparation of drawings	
	a) Civil and structural components	
	b) Piping & Instrumentation	
	c) Electrical	
	d) Mechanical	
	Subtotal of Point 2	
3.	To give us consultancy & engineering support, process & construction drawing. Preparation of Tender, Tender Invitation, Tender evaluation, assisting in appointment of contractor	
4.	Continuous supervision/inspection of project (Quality & Quantity) till completion including Performance Guarantee & final approval of R A Billing of Invoices construction	
	TOTAL:	
		+GST Extra as applicable.

The details of scope of DPR study are as follows:

1. Study of existing CETP design, structure and include site evaluation based on survey
2. Collection of composite samples from various stages of existing CETP and analysis for the relevant parameters and Calculation of Pollution load generated from the industrial estate
- 3.** If pilot plant study is required, kindly note that pilot plant with a capacity of 10 m³/day comprises of Primary, secondary and tertiary treatment is already available at CETP and can be evaluated by the consultant for the pilot trials proposed. In case any the pilot plant is not found suitable for the proposed trail, consultant can use their own pilot plant. **The cost of lab trials, pilot studies for proposed scheme for achieving 250 ppm COD should be included in the quote. As separate**



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4. In case Manpower is employed by consultant for carrying out pilot plant trial then it should be included in the quote by indicating clearly the man – month cost.
 5. **Propose methodology/option for dewatering of primary and secondary sludge generated from CETP and handling as per CPCB's guideline for direct landfill criteria.**
 6. Plant scale trial reports shall be in details and shall submit progress report weekly (not only plant scale trial - weekly progress report shall be submit for the entire project)
 7. Preparation of basic Design of Waste water Treatment Scheme and sludge management
 8. Estimated project cost and time period for completion of project. All cost elements, assumption (rates, method or basis of calculation) are to be clearly given in DPR.
 9. Phasing of project should be covered in DPR
 10. O & M Framework and planning should be covered in DPR
 11. Suggesting possible grant/assistance from MoEF/CPCB and other financial institutions.
 12. The DPR documents should be detailed enough to stand the scrutiny of Pollution Control Boards and Banks/Financial Institutions.
- A. Detailed Design and Preparation of Drawings for following
- Civil and Structural components
 - Piping
 - Instrumentation and control system
 - Electrical
 - Mechanical
- B. Preparation of Tender Document and execution which will include following:
- a) Preparation of Tender
 - b) Tender Evaluation
 - c) Assisting for selecting the agency for implementation of the project.
 - d) Project Monitoring.
- C. Supervision/Inspection
- During execution supervision/inspection of quality of material shall be carried out.
 - Inspect and evaluate whether work executed is as per approved design/drawing and clarify for any discrepancy/ambiguity in drawing/specification
 - Continuous Supervision/inspection of the project for Lab/Pilot trial and till the project complete including Performance Guarantee.

Chief Executive Officer,
Vapi Green Enviro Limited