

**GREATER VISAKHAPATNAM MUNICIPAL CORPORATION**

**Government of Andhra Pradesh**

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**EXPRESSION OF INTEREST  
FOR**

**'RECYCLING AND REUSE OF TREATED SEWAGE EFFLUENT  
AND SLUDGE FROM STPS OF 38 MLD & 25 MLD  
VISAKHAPATNAM**

# GREATER VISAKHAPATNAM MUNICIPAL CORPORATION

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## ‘EXPRESSION OF INTEREST’

### ‘RECYCLING AND REUSE OF TREATED SEWAGE EFFLUENT AND SLUDGE FROM STPs OF 38 MLD AND 25 MLD

VISAKHAPATNAM

of Interest (EoI) with the intent to solicit the broadest array of approaches and ideas from the qualified organizations to process waste water, produce finished water for industrial /commercial / open space irrigation /agricultural irrigation / recreation purposes as per the prevailing standards

Greater Visakhapatnam Municipal Corporation (GVMC) has 38 MLD capacity STP with Activated sludge process with extended aeration system located @ Old Sewerage Farm presently receiving about 10 MLD inflow, 25 MLD capacity STP with Activated sludge process with extended aeration system located at Appughar with a present inflow of 20 MLD which are functioning

Typical influent & effluent characteristics of sewage of 25 MLD and 38 MLD STPs are as follows:

#### 38 MLD STP:

Sl No.	Parameters	Sample/ Result			
		1	2	3	4
1	PH	6.92	7.16	7.60	7.59
2	TSS, mg/l	98	40	14	10
3	BOD, mg/l	180	70	40	14
4	COD, mg/l	340	110	80	48
5	MLSS, mg/l	--	1900	--	--
6	DO, mg/l	--	--	--	6.10
7	Total nitrogen (Org nitrogen + Ammonical – Nitrogen)	--	--	--	0.16
8	Phosphate, mg/l	--	--	--	3.10
9	Potassium, mg/l	--	--	--	0.50
10	Chlorides, mg/l	--	--	--	180
11	Faecal Coliform, CFU	--	--	--	Absent

Sampling point

: Sewage Treatment Plant samples marked as

Sample – 1 : At inlet of Inlet Chamber

Sample – 2 : At outlet of Aeration tanks

Sample – 3 : At outlet of Clarifiers

Sample – 4 : At outlet of Chlorin contact tank

25 MLD STP :

Sl. No.	Parameters	20100311	20100312	201003113	201003114	201003115
1	PH	6.69	6.71	7.27	7.21	-
2	Total Suspended Solids at 105 <sup>0</sup> C	244.0	3380.0	20.0	16.0	-
3	Chloride	-	-	-	190.0	-
4	Chemical Oxygen Demand	680.0	2112.0	128.0	264.0	-
5	Biochemical Oxygen Demand	240.0	810.0	40.0	85.0	-
6	Mixed liquor suspended solids	-	3260.0	-	-	-
7	Percent Solids, %	-	-	-	-	0.12
8	Faecal Coli, MPN per 100 ml	-	-	-	-	-

The bidder to inspect and obtain suitable clearance for disposal and its utility for suitable disposal as per prevailing norms for the available sludge.

The effluent with above parameters should be treated further for reuse meeting APPCB and the California code of Regulations set by California Department of Public Health for the use without restriction for public open space irrigation, agricultural irrigation, recreation and many commercial / industrial applications.

The facility must utilize the best available technology with less land utilization in order to provide an environment immediately adjacent to the plant, including buffer space, suitable for future residential development.

All processes and equipment, as required, shall be housed or other wise contained, and ventilation so controlled, that no objectionable odors will be discernable at the project site's boundaries. The facility shall be designed and operated such that other environmental factors, such as noise and lighting, shall also be negligible at the project site's boundaries. The facility must not only appear to fit within the urban setting, but must be a "good neighbour". The facility must also be energy efficient.

Greater Visakhapatnam Municipal Corporation (GVMC) will make unencumbered land in the vicinity of the existing STPs if available on lease basis rate as decided by GVMC norms. The bidder has to explore the prospective buyers for utilizing the recycled water, and provide related infrastructure services such as reservoir, pumping station, pipe line upto the end users at his own cost.

The bidder has to pay Royalty to the GVMC for supplying treated effluent from the STPs.

The design elements of the process will include the responsibility for obtaining all required permissions including carrying out Environmental Impact Assessment, obtaining environmental clearance, as per Environmental (Protection) Act 1986, from all the concerned authorities.

All operation, maintenance and monitoring of bidder installations and GVMC, STP installations and power charges shall be provided by the bidder for a period of 5 years initially after acceptance of the facility, with a 3 – year renewal options at the sole discretion of GVMC. Greater Visakhapatnam Municipal Corporation may decide suitable penalty for not treating the sewage to the agreed effluent quality. The site for installation will be given on lease near STP site subjected to availability.

Sri. K. RAMMOHAN RAO., EE-II (UGD-P), GVMC can be contacted (Mobile No.9848882597) for visiting the site with prior intimation. Renowned and qualified organizations from Sewage Treatment and Recycle sectors with proven experience in executing similar magnitude of projects can collect the ‘Expression of Interest’ document from 10.05.2010 onwards from the O/o The Chief Engineer, GVMC, Tenneti Viswanadham Bhavan, Asilmetta Junction, Visakhapatnam-530003, Phone:+91-891-2754565; Telefax:+91-891-2754565, against a payment of Rs.5,000/- (Rupees Five Thousand only) for each document through a Demand Draft in favour of ‘The Commissioner, GVMC’ payable at Visakhapatnam. (Those who would like to download ‘Expression of Interest’ Document from ‘Website: [www.gvmc.gov.in](http://www.gvmc.gov.in)’, can do so and furnish the Demand Draft for Rs.5,000/- along with ‘EOI Document’ while submitting). The filled-in Expression of Interest document should reach The Chief Engineer, GVMC, Tenneti Viswanadham Bhavan, Asilmetta Junction, Visakhapatnam-530003, Phone:+91-891-2754565; Telefax:+91-891-2754565; Email:[cegvmc2007@yahoo.co.in](mailto:cegvmc2007@yahoo.co.in) on or before 30.06.2010 before 3.00 P.M

Statement of Interest Requirements:

Cont..

(To be submitted on the letterhead of Prospective Bidder)

Date:

**The Commissioner  
Greater Visakhapatnam Municipal Corporation,  
Tenneti Viswanadham Bhavan,  
Asilmetta Junction,  
Visakhapatnam-530003**

Dear Sir

**Sub: Recycling and reuse of treated Sewage effluent and sludge from STPs of 38 MLD & 25 MLD at Visakhapatnam.**

With reference to the above advertisement, we hereby file this '**Expression of Interest (EOI)**' to undertake the development of this project either individually or as a consortium.

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. The GVMC will be the final deciding authority only to request or acceptance their prospects at the own discretion

<b>Name of project and location:</b>
<b>RECYCLING AND REUSE OF TREATED SEWAGE EFFLUENT AND SLUDGE FROM STPS OF 38 MLD &amp; 25 MLD AT VISAKHAPATNAM.</b>

<b>Name and details of Applicant and its representative authorized to file this EOI:</b>	
Full Name	
Designation	
Name of Organization	
Address	
Phones	
Fax	
Mobile	
Email	
Website	

<b>Legal Constitution of Applicant:</b> (Public Limited/Private Limited/Partnership etc)

<b>Current nature of business or activities:</b> (Not exceeding four lines)

<b>Last 3 (Three) year's Turnover of the Applicant / Lead Developer</b>
FY 2009-10:  FY 2008-09 :  FY 2007-08 :

<b>Net Worth of the Applicant / Lead Developer</b> (Computed from the latest Audited Balance Sheet)
2009-10:

<b>Brief history of the operations and activities of the Applicant:</b> (Not exceeding eight lines; to include details of principal promoters and joint venture partners)

<b>Name and details of Business House/Group to which applicant belongs:</b> (Not exceeding four lines)			
<b>Name of the Group</b>	<b>Group Company/ies</b>	<b>Primary Activity</b>	<b>Turnover (FY 2009-10)</b>

**Previous experience of Development and/or Operations & Management of similar projects, if any:** (Not exceeding eight lines)

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**Proposed consortium/collaboration for the development, management, marketing of the proposed development, if any?**

Nature of consortium/collaboration proposed	Proposed Partner	Partner's Particular Expertise	Partner's Turnover (FY 2008-09)

**Briefly explain your Concept Proposed and Proposed Components considered for the Proposed 'RECYCLING AND REUSE OF TREATED SEWAGE EFFLUENT AND SLUDGE FROM STPS OF 38 MLD & 25 MLD AT VISAKHAPATNAM.**

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**Note:** Applicants shall attach documents/brochures/corporate literature

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

Signature:  
 Full Name:  
 Designation:  
 Organization:  
 Address:

Date:

**GREATER VISAKHAPATNAM MUNICIPAL CORPORATION**  
**Municipal Administration & Urban Development Department**  
**Government of Andhra Pradesh**

**Evaluation Criteria**

Bid Process Criteria (EOI Stage) for Selection of Bidders for Development of 'RECYCLING AND REUSE OF TREATED SEWAGE EFFLUENT AND SLUDGE FROM STPS OF 38 MLD & 25 MLD at Visakhapatnam, Andhra Pradesh is as below:

**Stage-I:**  
**Invitation of EOI**

Expression of Interest (EOI) is invited in prescribed format for understanding the response from the investors.

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

**Criteria:**

- Firms having experience in the development of Sewage Treatment Plant.
  - Previous experience with the turnover in parallel field with details and their location
  - Investment capabilities will be assessed based on the current business turnovers for the last 3 years and Net worth computed.
  - Last 3 (*Three*) year's turnover – (Audited Balance Sheets, for the relevant years should be enclosed).
  - GVMC will be the final deciding authorities with out assigning any reasons.
- 1. RFP documents will be issued to the short-listed EoIs at a cost.**
  - 2. Bid process criteria for RFP document will be issued along with RFP document.**
  - 3. Those who downloaded 'Expression of Interest' Document from Website, must furnish the Demand Draft for Rs.5,000/- along with EOI Document while submitting.**
  - 4. The last date for the submission of EOI Documents is 30-06-2010 by 3.00 P.M.**

