



## ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ Karnataka State Pollution Control Board

“ಪರಿಸರ ಭವನ”, 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ  
“Parisara Bhavan”, 1st to 5th Floor, # 49, Church Street, Bangalore - 560 001, Karnataka State, India

NO.KSPCB/SEO-INFRA/CETP-PEENYA/2020-2021/

1844

25 AUG 2020

PROCEEDINGS OF THE CETP PEENYA PRE BID HELD ON 20/08/2020 AT BOARD  
OFFICE MEETING HALL, 3<sup>RD</sup> FLOOR, AT PARISARA BHAVANA, KSPCB, BENGALURU.

**Date:** 20/08/2020 @ 3 pm: Members Present:

<b>Presided by</b>	Chief Environmental Officer, KSPCB, Bengaluru
<b>Officers of the Board Present</b>	<ol style="list-style-type: none"> <li>1. Sri. A. Ramesh, Chief Environmental Officer</li> <li>2. Sri. M. K. Prabhudev, Chief Environmental Officer</li> <li>3. Sri. Mahesh. T, Senior Environmental Officer and Chief Finance Office</li> <li>4. Sri. Syed Khaja, Senior Environmental Officer, KSPCB</li> <li>5. Sri. Madhusudhan, Senior Environmental Officer, KSPCB</li> <li>6. Sri. Lokesh. H. K, Regional Officer, Peenya, KSPCB</li> <li>7. Sri Ashok kumar S R, Environmental Officer, KSPCB</li> <li>8. Sri Mallesh Gowda, Executive, Peenya Industries Association and member of the CETP Committee</li> </ol>
<b>Bidders Present in the Meeting Hall</b>	<ol style="list-style-type: none"> <li>1. Sri. Amarnath. K, Manager, RBA Bioponer.</li> <li>2. Sri. G. N. Murthy, Managing Director, Banashankari Chemical Pvt Ltd, HSR Layout, Bangalore.</li> <li>3. Sri. Dharmendar Kumar, , Banashankari Chemical Pvt Ltd, , Bangalore.</li> <li>4. Sri. V. Sreenivas, Director, Eco Green Solutions Systems Pvt Ltd.</li> <li>5. Sri. Ravi Vaidya, Managing Director, Ecotex Environmental technologies, Bangalore.</li> <li>6. Sri. Karthik, Project Engineer, Seema Projects.</li> </ol>
<b>Bidders Present Through VC</b>	<ol style="list-style-type: none"> <li>1. Sri. Bobby Kurein, Ramky Enviro Engineers Ltd.,</li> <li>2. Sri. Nasurulla, Ramky Enviro Engineers Ltd.,</li> <li>3. Sri. Pawan Pushkarana, Circle H2O, Delhi.</li> <li>4. Sri. Premchandra Shastri</li> </ol>

**Preamble:** The Karnataka State Pollution Control Board had called the EOI for the establishment of CETP at Peenya Industrial Area on 27.7.2020 A Pre Bid meeting was called on 20.8.2020 to have a clarity on the project to the prospective bidders.

**Proceedings:** Sri. Syed Khaja, SEO, KSPCB welcomed and introduced all the members present in the meeting room and also the members present through VC. A brief presentation of the project was made through PPT. The slides had the details of the project, PQs, scope etc., Later the

**Few queries / doubts raised by the members and the clarifications are given below:**

No	Query raised by Sri.	Query/Point discussed	Response from KSPCB
1	V Sreenivas, Director, Eco Green Solution System.	Most of the units in Peenya are not functioning due to Covid-19 & hence there may not be demand for treatment.	Electroplating and Allied industries are functioning normally. The Executive Member of the Peenya Industries Association (PIA) also emphasises that all the plating and surface coating industries are operating & there will not be any problem to get effluents.
		The Payment for the O&M will be made from industries or association.	Payments have to be collected from the industries & not from the association.
		Many times, they are not able to down load the documents.	Payment of Rs.11,500/- can be made through online & send the details to <a href="mailto:ms@kspcb.gov.in">ms@kspcb.gov.in</a> to get documents.  Payment to be made: Rs, 11,500/- Bank: Corporation Bank, MG Road Branch, S/B A/C No. 520141001671983 IFSC Code: CORP0000341.
2	Pawan Pushkarna, Circle H2O, Delhi.	Inlet Characteristics	The general inlet characteristics of electroplating industries to be considered. However industries have to check with the correspondence at the time of RFP. This can be considered for the planning and once shortlisted and RFP is called for, the visits can also be made. The list is attached.
		Can we take effluent from other industries.	It is proposed to establish CETP at Peenya to facilitate SSI units located in PIA which covers 10 kms.
		Because of Covid can we expect minimum amount of effluent	Yes, all industries are operating. But PCB cannot give any minimum guarantee.



3	Nasurulla, Rach Pvt Ltd.	Can the Industries be met?	The PIA will make arrangements during RFP for the shortlisted bidders to interact with the industries.
		Asked number of industries present in Peenya, who are the members of the CETP and name of the industries.	There are around 250 industries in Peenya, these Owners are the members of the CETP and the names of the industries are available in CETP website.
4	Ravi Vaidhya, Managing Director, Ecotex Environmental technologies, Bangalore	Is the amount 11,500/- is EMD for the tender?	It was clarified that Rs.11500/- is only to download the EOI documents. This is not EMD The EMD would be sought during RFP Stage.
		How will be the selection if only one Company is participating.	Tender will be called for 2 <sup>nd</sup> time if only one Company is participated; the same process will be repeated for 3 <sup>rd</sup> time also; Final selection will be made after 3 <sup>rd</sup> call, if only one Company participates.
		What to do if industries will not take back the treated water .	Its not mandatory. But if the treated water is of good quality, the same vehicle which goes to collect the raw effluents can deliver the treated water. This will only be a bonus to the Contractor in terms of savings of operating the ZLD system and in selling the water.
		Is the Technology frozen?	No. That's the reason the EOI is called. All technologies from the domain experts is welcome. The Technical Advisory Committee will finalise the technology, which could be one among the participants or a combination or all together a new one, which is techno commercially viable.
5	Murthy, Managing Director, Banashankari Chemical Pvt Ltd.	Effluent from which type of industries will be collected.	Only from small scale industries generating non-organic effluents. if situation demands, operation of CETP will be permitted to use effluents around PIA industries radius of 10kms and not from large industries.
		They have two decades of experience in oil reprocessing	No. Only those with the CETP experience can participate. They



		and ETP, and no experience of CETP. Can they be participated?	were advised to get a consortium partner and participate.
6	Bobby Kurien	Whether EC and Public Consultation is required?	Yes. EC and conducting Public hearing are required and it is part of the responsibility of the successful bidder.
		Is there a need to construct the whole 250 KLD at one go or it can be done in modules	This can be discussed in detail during the technical presentation called for to the successful bidders and the Technical Advisory Committee may take a call. There could be a possibility.
7	Bobby kurien& Pawan Puskarna	Can a minimum quantity of effluents be guaranteed?	No. The KSPCB or the PIA does not guarantee the minimum quantity. However, the catchment area will be increased to 10 KM and beyond if required to help to get the effluents in case there is not enough effluents from Peenya Industrial Area. The catchment area can further be increased based on the needs.
8	Many members	Who is going to fund the project	The Government of Karnataka has released 4 Cr. towards the CETP. Based on the finalised technology, RFP will be called with the budget. Partial funding/partially will be decided at RFP Stage
9	Many Members asked about the steps followed, PQs, Disposal of Effluents after treatment, Evaluation Criteria. The same is given below:		It is given below: but the dates are tentative only.



10	<div style="text-align: center; background-color: #ffffcc; padding: 5px;"><b>Process of CETP Tender Awarding</b></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sl. No</th> <th style="text-align: center;">Event</th> <th style="text-align: center;">Date &amp; Time</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>To call for a EOI through E Tender</td> <td style="text-align: center;">27-07-2020</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Pre EOI Bid meeting of interested people</td> <td style="text-align: center;">20-08-2020 @3 PM</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Submission of EOIs and Openings of EOIs.</td> <td style="text-align: center;">26-08-2020 by 4 PM 27-08-2020 @5 PM</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Short listing of qualified EOIs.</td> <td style="text-align: center;">31-08-2020</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Calling the qualified EOIs for a presentation before a Technical committee</td> <td style="text-align: center;">4-09-2020 @11 AM Tentatively</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Finalization of the technology by the committee</td> <td style="text-align: center;">30-09-2020</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Based on the finalized technology, calling for the RFP only for the qualified bidders</td> <td style="text-align: center;">05-10-2020</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Identifying the final qualified bidder based on the evaluation criteria to be decided</td> <td style="text-align: center;">20-10-2020</td> </tr> </tbody> </table>	Sl. No	Event	Date & Time	1	To call for a EOI through E Tender	27-07-2020	2	Pre EOI Bid meeting of interested people	20-08-2020 @3 PM	3	Submission of EOIs and Openings of EOIs.	26-08-2020 by 4 PM 27-08-2020 @5 PM	4	Short listing of qualified EOIs.	31-08-2020	5	Calling the qualified EOIs for a presentation before a Technical committee	4-09-2020 @11 AM Tentatively	6	Finalization of the technology by the committee	30-09-2020	7	Based on the finalized technology, calling for the RFP only for the qualified bidders	05-10-2020	8	Identifying the final qualified bidder based on the evaluation criteria to be decided	20-10-2020
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<b>12. Operation and Maintenance PQ</b>																												
<p>Operation of CETPs with a cumulative capacity of 2.5 MLD</p> <ul style="list-style-type: none"> <li>➤ At least one CETP of 0.5 MLD capacity.</li> <li>➤ Duration: In last ten years which is operational as on date of issue of this EOI</li> <li>➤ All the expenses incurred for the O&amp;M like power, manpower, consumables, repairs, replacements or even modifications to the approved CETP to ensure final treated standards are achieved.</li> </ul>																												
<b>13. Development Experience of CETP PQ ( Government / Industries Association/ Industrial Board CETPs will have priority)</b>																												
<p><b>Development Experience:</b></p> <ul style="list-style-type: none"> <li>➤ Development/Construction of a CETP at least 0.5 MLD in a single project</li> </ul> <p style="text-align: center;"><b>Or</b></p> <ul style="list-style-type: none"> <li>➤ group of CETPs with a cumulative capacity of 2.5 MLD.</li> <li>➤ Duration: In last ten years which is operational as on date of issue of this EOI.</li> </ul>																												



#### **14. DISPOSAL OF FINAL TREATED EFFLUENTS**


- There shall not be any discharge of final treated effluents
- The design shall be based on Zero Liquid Discharge
- The final treated effluents can be used back for the maintenance of the Urban Eco Park ( around 3 Acres)
- The final treated water can also be supplied for recycling in the similar industries back for the process and the cost incurred shall be the part of project cost.

#### **15. Evaluation Criteria**

- A Matrix will be developed based on the Technology finalized and will be shared along with the RFP document.
- Financial Capability in terms of Net-worth (the “Net-Worth”); and Turn over
- Technical Experience of Applicant
- Plant Visits if decided by the Technical committee
- As per the matrix developed by the Committee before calling for RFP / Tender

Many members asked to share the PPT presented during the Pre Bid. The same is also attached along with this. The Chief Environmental Officer thanked the participants and requested many people to participate and make this a big success.

The Meeting was concluded with Vote of Thanks.

  
Chief Environmental Officer  
(Presiding Officer)

To: Copies of Proceedings: Can be found in the KSPCB Website.

[http://kspcb.gov.in/tender\\_1364\\_2772020.pdf](http://kspcb.gov.in/tender_1364_2772020.pdf)

**Table 4.4.1: Raw Effluent Characteristics of Surface treatment and Non- Biodegradable:**

SR.NO	PARAMETERS	Unit	Composite Sample of surface Treatment	Composite sample of Non-Biodegradable	Average of Composite sample	Designed Value
1	Flow	KLD	62	58	120	170
2	pH @ 25°C	-	2.3	1.6	1.95	2- 11
3	BOD	mg/l	-	402	195	244
4	COD	mg/l	1277	4482	2826	3532
5	Conductivity @ 25°C	µS/cm	11660	37000	23908	29885
6	TSS	mg/L	176	411	290	362
7	TDS	mg/L	6674	9148	7869	9837
8	AN as N	mg/L	69	71	70	87
9	Cyanide as CN	mg/L	0.001	0.001	0.001	0.001
10	Oil and grease	mg/L	<1.0	1.0	1	1
11	Cr+6	mg/L	0.05	0.05	0.05	0.05
12	Total Chromium	mg/L	468	7.7	237.85	1231
13	Zinc as Zn	mg/L	592	1.6	296.8	352
14	Copper as Cu	mg/L	20	0.8	10.4	49
15	Sulphide as H <sub>2</sub> S	mg/L	2.0	2.0	2	1.0
16	Lead	mg/L	1.1	39	20.05	44
18	Nickel as Ni	mg/L	3.0	0.31	1.655	3.7
19	Cadmium	mg/L	0.46	0.1	0.28	0.1
20	Dissolved phosphate as PO <sub>4</sub>	mg/L	0.07	0.29	0.18	0.01
21	Arsenic	mg/L	-	-	-	0
22	Boron	mg/L	-	-	-	0
23	Fluoride	mg/L	0.1	0.1	0.1	1



Detailed Project Report for Establishment of 200 KLD CETP at Urban ECO park, Peenya, Bengaluru

24	Mercury	Mg/l	-	-	-	0
25	Sulphate as SO <sub>4</sub>	mg/L	432	478	455	2490
26	Chloride as Cl	mg/L	3600	7040	5320	11471

Note:

1. For Designing Purposes Flow is taken 40% higher and other parameters considered 25%





*Welcome to CETP Peenya Pre Bid Meeting*  
**20.8.2020**



KARNATAKA STATE POLLUTION CONTROL BOARD

*Karnataka State Pollution Control Board*

## Introduction

- The Karnataka State Pollution Control Board wishes to have a CETP to help the Small and Micro Industries
- CETP project is in association with the Peenya Industries Association
- This only for the Electroplating and related activities effluents and other inorganic subject to the availability of the capacity
- This is not meant for organic waste



## About Peenya Industrial Area

- Developed in 1970 by KIADB and KSSIDC.
- Extent: 40 Square KM. Biggest in South East Asia
- Type of Industries: Small, Medium and Large.
- Total No of Industries : 5000 +
- Annual Turnover: 2 Bn USD and Exports about 1 Bn USD.
- Employees: 5 Lakhs and out of which 50% are women.

## Process of CETP Tender Awarding

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### Details of prevailing Industries and approx. effluents generated in Peenya

Sl. No	Effluents generations from	No. of industries handing over effluent to CETP at present	Quantity of trade effluent in KLD
1.	Effluent form surface treatment activity	194	61
2.	Non –Biodegradable effluent	45	59
	<b>Total</b>	<b>239</b>	<b>120</b>

### Catchment Area and Design Capacity

- **Design capacity** : 250 KLD. Keeping in mind the future industries, expansions, economic viability to the executor.
- **Primary Catchment area:** Peenya Industrial Area.
- **Secondary Catchment area:** ( subject to capacity availability) Surrounding Private Industrial areas, Isolated industries around and other Designated Industrial Areas within the radius of 10 KM.



## Technology

- Open to the EOI shortlisted bidder to suggest their own technology.
- Technology is open so that any innovative and new technology has an option.
- All the technologies of qualified EOI will be placed before a TAC once gain for validation.
- Final technology could be from any of the EOI bidders or a combination or can be all together.
- Criteria for selection of a Technology will be based on Techno Commercial Viability.

## Effluent Collection & Transport

- Through Surface Transport or piped.
- fleet of following Vehicles are proposed, but the Executer is free to design their own logistics
  - 3.0 KL – 2Nos, 6.0 KL – 2Nos and 12.0 KL – 1No (Total 5Nos)
- With epoxy coated bullets and tanks and equipped with chemical resistant pumping gears
- Handling and transportation of hazardous wastes will be strictly adhered and utmost care in the transfer of collected effluents.
- The vehicles will be fitted with GPRS tracking modes and constant monitor of movement and schedule of vehicle.
- The cost incurred for the same shall be part of the project cost and no separate amount is given for this.



## Finance – Option 1 & 2

### OPTION 1 :

- 1) The Government of Karnataka may fund part of the project, upto Rs. 4 Cr.
- 2) Balance funds to be invested buy the Bidder on a BOOT format.
- 3) Any short fall amount or full shall be infused by the bidder and the said amount including the interest shall be incorporated while participating.

### OPTION 2 :

The whole amount could be funded by the Government.

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**Pre Qualifications – Government Projects are preferred  
(Will be subjected to Physical Verification)**

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## Consortium

- Consortium is permitted.
- Max number of members of consortium – 3
- Lead member shall have a minimum of 51% equity
- Any of the Member of Consortium shall have the complete qualification for any of the prequalification.
- Eg. Three member consortium each of 200 KLD cannot be taken as 600 KLD for PQ.
- **The cumulative experience or financial capability of the members of the consortium or part by part of the qualification is not accepted.**

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## O & M Prequalification's

Operation of CETPs with a cumulative capacity of 2.5 MLD

- At least one CETP of 0.5 MLD capacity.
- Duration: In last ten years which is operational as on date of issue of this EOI
- All the expenses incurred for the O&M like power, manpower, consumables, repairs, replacements or even modifications to the approved CETP to ensure final treated standards are achieved.

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## Technical Pre Qualifications

### Development Experience:

➤ Development/Construction of a CETP at least 0.5 MLD in a single project

Or

➤ group of CETPs with a cumulative capacity of 2.5 MLD.

➤ Duration: In last ten years which is operational as on date of issue of this EOI.

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## Financial Pre Qualifications

- 1) At least one similar work on CETP of value not less than Rs.12 crore
- 2) The participant should have in the last five years i.e., 2014-2015 to 2019-2020 Balance sheet in the company's name.
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Thanks and open for Q & A and clarifications

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