



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
(पर्यावरण एवं वन मंत्रालय, भारत सरकार)
CENTRAL POLLUTION CONTROL BOARD
(MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

Tech/154/UST/ZOB/2015-16/ / 772

August 4, 2015

To

Sub: Extension of time for furnishing the Willingness

Sir,

This office vide even no. letter dated July 20, 2015 had invited willingness from expert agency for carrying out the project on "Exploration of utilization of salt generated from CETPs of Textile and Tannery as auxiliary raw material in other industrial sectors".

It is to inform that the time for furnishing the willingness for carrying out the project is further extended till **August 21, 2015**. Other Terms & Conditions remains the same.

Yours faithfully

(S. Suresh)

Copy to:

✓ IT Division, CPCB, Delhi : With a kind request to upload on CPCB website

S. Suresh
(S. Suresh) 4/18/2015
Zonal Officer

दक्षिण औचलिक कार्यालय : निसर्ग भवन, ए-ब्लॉक, प्रथम एवं द्वितीय तल, तिम्मय्या रोड, ७-डी मैन, शिवनगर, बेंगलूरु - ५६० ०१०.

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(पर्यावरण एवं वन मंत्रालय, भारत सरकार)

CENTRAL POLLUTION CONTROL BOARD

(MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

SPEED POST

Tech/154/UST/ZOB/2015-16//686

July 20, 2015

To

Sub: Exploration of utilization of salt generated from CETPs of Textile and Tannery as auxiliary raw material in other industrial sectors

Sir,

Central Pollution Control Board, Zonal Office, Bengaluru has taken up a project on "Exploration of utilization of salt generated from CETPs of Textile and Tannery as auxiliary raw material in other industrial sectors". Common Effluent Treatment Plants (CETPs) are generating huge quantity of waste salts in the tune of 1.5-5MT/day which is creating a serious disposal issue. The study aims to characterize the different type of salts generated from CETP's and to explore the possibility / suitability of reuse/ recycle of salts recovered from CETP's in other industrial sectors located in Southern Zone as auxiliary raw material.

It is proposed to conduct the study through expert agency on MoU basis. The objectives and brief methodology of the project is given as Annexure. The estimated total cost of the project is ₹ 5.00/- lakhs and duration of the project is 15 months from the date of signing the MoU. In this connection, if interested, it is requested to furnish "Willingness" to conduct the R & D study on MoU basis briefing about the roadmap of the project within August 3, 2015.

For further details, please contact Smt. H. D. Varalakshmi, SEE, (Mobile No. 9449004165, Email: laxmithiru_d@yahoo.com) or Smt. Mahima T, EE (7204872300, Email: mahima.cpcb@nic.in).

Encl.: As above.

Yours faithfully

S. Suresh
20/7/2015
(S. Suresh)

Copy to:

I/c IT Division, CPCB, Delhi

: With a kind request to upload on CPCB web portal pl

S. Suresh
20/7/2015
(S. Suresh)

Zonal Officer

दक्षिण औचलिक कार्यालय : निसर्ग भवन, ए-ब्लॉक, प्रथम एवं द्वितीय तल, तिममय्या रोड, ७-डी मैन, शिवनगर, बेंगलूरु - ५६० ०१०.

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Exploration of utilization of salt generated from CETPs of Textile and Tannery as auxiliary raw material in other industrial sectors

Background

In Tamil Nadu alone, there are around 40 CETPs, mainly to treat either effluent generated from textile dyeing units or from tanneries. Most of the CETPs adopted Zero Liquid Discharge system by adopting advanced technologies viz. Reverse Osmosis, Mechanical Vapor Recompressor and Multiple Effect Evaporator. At the end of the ZLD, CETPs are generating salts to the tune of 1.5 – 5 MT/day. All CETPs and Individual ETPs having ZLD system are facing serious problem of disposal of these salts. Currently, these salts are being disposed into TSDF, due to its hygroscopic in nature it causes high leachate generation, hence it requires special arrangement to dispose these salts into TSDF which results high disposal cost and space scarcity.

Therefore it is required to take up study to explore the possibility of reuse of salt in other industries viz. Chlor-alkali industry, drilling mud preparation, ceramics, salt bath furnaces for tempering and brazing. This study may give suitable recycle options in different industries as auxiliary raw material.

Objective:

The broad objective is to assess the quantity of pure salt and impure salt generated in different CETPs and possibility of reuse of salt in other industries as auxiliary raw material. The other specific study objectives are:

- Conducting baseline survey on type of technology adopted for reject management, quantity of pure & impure salt generated and present practices adopted for salt management.
- Identification of major area of concern in the context of environmental management.
- Characterization of different salts generated from CETPs.
- Assessment of quality and quantity of salt required in other industrial sectors.
- Exploration of possibility/suitability of reuse/recycle of recovered salt in other industrial sectors as auxiliary raw material.
- Providing valuable inputs for formulation of environmental management guideline for utilization of recovered salt in other industrial sector.

Methodology:

It is proposed to conduct the study through expert external agency on MoU basis. Methodology includes questionnaire survey, Dry visits for preliminary data collection, detailed study in selected CETPs considering different technology adopted for reject management in CETPs, characterization of salt and conducting

S. Suresh

performance evaluation study of CETPs etc., The study is proposed to be carried out in following steps:

- Identification of external agency and award of project
- Questionnaire survey: Design of comprehensive questionnaire to collect information from all CETPs in Southern Zone as well as industries followed by field study and inspection of the unit.
- Field Visit & Sampling: Assessment of type of technology adopted for reject management, present practices adopted for salt management.
- Sample Analysis: Collection of different salts from CETPs and its characterisation as per CPCB accepted methodology.
- Data Compilation and Interpretation.
- Exploration/ Identification of suitable industrial sectors in which the salts may be utilized as auxiliary raw material

Estimated Total /Sanctioned Cost of the Project: ₹ 05 Lakhs (Rupees Five lakhs only)

Duration of the Project : 15 months from the date of signing the MoU

Deliverables:

Status report will help in taking corrective measures to handle salt generated in CETPs and its utilization in other industrial sectors, overview of economic feasibility of ZLD system.

S. Suresh