F. No. B-19011/1/PCP/2009/ Dated:01-04-2010

TO WHOM SO EVER APPLICABLE

EXPRESSION OF INTEREST

Sub: **Invitation for execution of R&D cum Demonstration project on for Pilot-Project on "In-situ Treatment of Sewage in Drains" in Delhi or any other places - seeking 'Expression of Interest'.**

Central Pollution Control Board (CPCB) is proposing to undertake a R&D study/Pilot project on "In-situ Treatment of Sewage in Drains" (either in Delhi or at any other places) through Institutions/Agencies/Firms having experience in the field or in related areas. A brief Concept/thought-Note is annexed. CPCB requests that the interested Institution/Agency/Firm may provide information about their Institution/Agency/Firm for as 'Expression of Interest' to undertake the proposed study. The information should be provided on following aspects;

1. Background note of the firm/agency
2. Availability of man-power/experts resource
3. Previous experience in In-situ sewage treatment/related fields (to be supplemented with illustration/documents)
4. Details of Sewage treatment projects undertaken/completed by the firms.
5. Places/locations preferred by the firm for demonstrating the pilot project on In-situ treatment of sewage with methodology to be adopted.

It is requested to forward above information before 15th April, 2010 (5.00pm) to **Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East-Arjunnagar, Shahdara, Delhi: 110 032.** The Institution/Agency/Firm should clearly indicate the place and drain proposed by them for demonstrative study (In-situ treatment of sewage in drains) in the city/town.

This issues with the approval of competent authority (*vide CCB Dy. No.1119 dated 25.03.10*)

Additional Director
PCP-Division
Central Pollution Control Board

Annexure-I

The Proposed Study
(In-situ Sewage Treatment)

The R&D study proposed is to treat sewage flowing in open drains by application of biological methods. The objectives of the study would be to reduce concentration of water polluting parameters like BOD, COD, TDS, etc. and including odor control. The R&D study should be conducted at identified locations (perhaps where agency prefers) either in a stretch of 1 km or as considered fit for the study to demonstrate. The study required to be techno-economically feasible and socially acceptable, so that the outcome of the study may be adopted by the concerned authorities (Municipalities) for control of sewage pollution. The study is to be carried out without changing the basic structure of the drain or flow pattern.

The study is conceived with the objective that sewage may be stabilized in drains thereby giving relief to the citizens from exposure of obnoxious harmful gases and unhygienic situations prevail in the vicinity of open drains. Simultaneously, reduction of pollution loads in drains may reduce risks of groundwater contamination. This study will be stressed on economic-viability based on non- mechanized/ non-electrical processes so that un-skilled staff could carry out the treatment process. There are many chemical and biological options for suppressing odor problems and treating sewage in open drains, but these applications require substantiate research in Indian condition for examining its cost-effectiveness, techno-economical viability and ecological consequences.