

Central Pollution Control Board, Delhi

CALL FOR PROPOSALS (2010)

Last date for proposals to be submitted: June 30, 2010

CPCB, Delhi invites project proposals on “**Development of Standards and Guidelines for the Grain based Distillery in India**” from interested investigators/organizations. The broader objectives for above project are as given below:

- I. Inventorization of large, medium and small grain based distilleries based on alcohol production capacity and their locations.
- II. General description of manufacturing processes and effluent treatment / emission control systems with flow diagram for generation, treatment and disposal of effluents.
- III. Field visit to selected distilleries based on production capacity, location and type of effluent treatment / emission control systems.
 - a. Material and energy balance for individual and overall operations.
 - b. Performance evaluation of available effluent treatment and emission control systems in the selected distilleries.
 - c. Detailed analysis of effluent quality i.e. pH, TDS, TSS, BOD, COD, Residual Sugar etc. and its nutritive values from various streams of the ETP.
 - d. Identification of causes for poor performance of Effluent Treatment systems to suggest suitable remedies.
 - e. Techno-economic comparison of various treatment and disposal systems and feasibility study of other possible treatment systems after field visits i.e. bio-digestion before evaporation, incineration of MEE concentrate, and concentration by membrane filtration etc.
- IV. Monitoring and quantification of solid waste generated and their disposal / handing methods.
- V. Study and analysis of nutritive values, stability and microbial contaminations etc. of DWGS/DDGS as cattle feed.
- VI. Development of guidelines for the effluent treatment and disposal systems for the grain based distilleries.
- VII. Development of standards for the effluent quality for the grain based distilleries
- VIII. Identification of clean, advanced, energy efficient and techno-economic feasible technologies for gain based distilleries to achieve “zero liquid discharge”.

Conditions:

1. Project proposals should be submitted in two parts separately, (I) Technical proposal i.e. methodology, work plan, duration and expected outcome etc.; (II) Financial proposal i.e. budget estimates; and both of the proposals should be submitted in one envelope.
2. Proposals should be submitted to “The Incharge, PCI-III division, Central Pollution Control Board, East Arjun Nagar, Delhi – 110 032” on or before June 30, 2010.
3. Board reserves right to accept/reject any/all proposals without assigning any reason thereof.