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Karnataka State Pollution Control Board

"ಪರಿಸರ ಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ
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No.KSPCB/SEO-INFRA/STP-GUIDELINES/2020-21/ 5446 Date: 01 MAR 2021

OFFICE MEMORANDUM ON STPs

Sub: Guidelines for Design and location of Sewage Treatment Plants (STPs)- Reg

Ref: 1. Proceedings of the Technical Committee meeting held on 19/09/2020.
2. IISc letter dated 12/10/2020
3. The Government of Karnataka Notification No FEE 316 EPC 2015 on STPs dt. 19/01/2016

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The Responsibility prescribed under the Section 24 and Section 25 of Water (Prevention and Control of Pollution) Act, 1974, indicates the wholesomeness water to be maintained in all the water bodies like River, Well, Lake, etc. Therefore, regulatory agency viz. Karnataka State Pollution Control Board (KSPCB), in exercise of its power has specified the mandatory condition to provide the Sewage Treatment Plants (STP) for a) Apartments with 20 Units and above or having a total built up area of 2,000 square meter including basement, b) Commercial constructions Projects (Commercials Complexes, office, IT related activities etc.) with total built up area of 2000 Square meter and above, c) Educational Institutions with or without Hostel facility having total built up area of 5.000 square meter and above and d) Townships and Area Development Projects with an area of 10 acres and above shall install STP.

The location of these STPs is equally important besides its Operation & Maintenance. It is observed that majority of STP'smainly of the Residential apartments are either not provided in the proper location leading to the frequent complaints by the residents about noise and odor nuisance. Also in many cases, the unit operations are not properly designed and the treatment technology is not properly adopted leading to non conformity to the standards prescribed by the Board. The Plant operators may not be aware of the functioning of various unit operations and this may result in discharge of untreated sewage which ultimately joins the water bodies and may also lead to seepage of water from the tanks thereby contaminating the ground water.

K.S.P.C.B.

"ಪ್ಲಾಸ್ಟಿಕ್ ಬಳಕೆ ನಿಲ್ಲಿಸಿ, ಪರಿಸರ ಹಾನಿ ತಪ್ಪಿಸಿ"
AVOID USE OF PLASTIC BE 'ECO' FRIENDL

The violations observed in many instances indicated improper location leading to Noise, Smell, unapproachable passage entry etc. and attracted neighboring complaints, spillages/ illegal Cross connection of such sewage entering intothe Groundwater.

In view of the above, general guidelines are framed considering various Environmental aspects and field conditions and are enclosed as Annexure-1. However, it is to be made clear that the guidelines are general in nature & may require certain modifications/ stringent practices to be adopted depending on the specific field conditions.

Hence ROs are hereby directed to advice the Project Proponents and also insist for best appropriate available technologies for implementation.

I. Sewage Treatment Plant Technologies

The approved Technologies are:

A) Activated Sludge Process(ASP) only in the case where the Sewage generated is 500 KL and above.
B) Sequential Batch Reactor(SBR)
C) Membrane Bio Reactor (MBR)
D) Moving Bed Bio Reactor (MBBR) / Fluidized Aerobic Bed rector (FAB)

Note: As and when new technologies are brought to the notice of the Board, the Technical committee review and decide if it can be adopted.

K.S.P.C.B.