

Technology No. 12

ELECTRICAL DEVICE WITH CHARGED COLUMN FOR DE-CONTAMINATION OF WATER

Inventors: Dr. S.P. Shukla; Dr. Sanath Kumar; Dr. Vidya Shree Bharati; Dr. Kundan Kumar; Dr. Saurav Kumar; Dr. Nalini Poojary

Division: Aquatic Environment and Health Management Division

Technical details:

The filtration unit designed for the treatment of low-quality water by removal of contaminants from water is based on an electrically charged column matrix with physically entrapped adsorbents with specific type of algal compounds to enhance their adsorption capacity is developed by CIFE. The column matrix consists of 4 layers of a porous non-toxic, non-biodegradable, non-corrosive material. A gradient of electric fields is generated in the matrix by placing the positive and negative terminals of a DC supply at the opposite ends of the column.



Contact details:

- Dr. S.P. Shukla, Principal Scientist, Aquatic Environment and Health Management Division
E-mail: spsukla@cife.edu.in
Contact No.: +91 022 2636-1446 | Extn: 272(O)
- Dr. K.V. Rajendran, Principal Scientist & Head, Aquatic Environment and Health Management Division
E-mail ID: kvrajendran@cife.edu.in
Contact No.: 91 22 26361446; Extn. 503 (0)