

Production of algal biomass integrated with Phycoremediation – A sustainable and economically viable approach

V Sivasubramanian, V V Subramanian*, R Ranjithkumar and M Muthukumaran**

Vivekananda Institute of Algal Technology (VIAT), RKM Vivekananda College, Chennai 600004, India

*Phycospectrum Environmental Research Centre (PERC), 52A, AK Block, 7th Main Road, Anna Nagar, Chennai 600040, India

**Department of Biotechnology, Institute of Water and Wastewater Technology, Durban University of Technology PO Box 1334, Durban, 4000, South Africa

Abstract

Algal biomass production integrated with phycoremediation is an economically viable process with a lot of scope and application. Most of the industrial effluents support a very good algal growth. This paper deals with the successful implementation of phycoremediation plants in different industries dealing with a variety of industrial effluents. Effective remediation of effluents could be achieved with a high efficiency % reduction of major parameters like BOD, COD and sludge. Chemicals which are applied in the treatment of effluents involving huge cost and irreparable damages to environment could be avoided by this process, thereby saving not only the environment but also the operational expenditure. Algal biomass produced by the process of phycoremediation becomes a valuable resource for bio-chemicals, bio-fertilizers, cattle and fish -feeds and bio-fuels.

Buy the full article by sending \$28.00 to the following bank account:

Name of Bank	State Bank of India
Branch Name	(01444) Kodambakkam (Chennai)
Name of the Account holder	PHYCOSPECTRUM Inc
Type of Account	SBCHQ-GEN-PUB OTH-NONRURAL-INR
Account Number	30509456677
IFSC/RTGS Code	IFS CODE:SBIN001444
MICR Code	600002022