

# Elemental Analysis of Satluj River Water Using EDXRF

Prem Singh\* and J.P. Saharan\$

\*Dept. of Physics, S.D. College (Lahore) Ambala Cantt., \$Dept. of Chemistry, S.D. College (Lahore) Ambala Cantt. Corresponding author: \*  
pspundir1@gmail.com

### Abstract :

A systematic study was carried out to explore the concentration of different low-Z elements present

in the water samples of Satluj River in Himachal Pradesh, India. Water samples from four different locations were collected and analyzed for elemental analysis. In this study, energy dispersive x-ray fluorescence (EDXRF) technique has been employed. The degree of elemental pollution and the suitability of the river water for drinking purpose were assessed. A close look at the elemental concentration in water samples of different locations shows variation in concentrations but elements are within the safe limits as prescribed by Bureau of Indian Standards (BIS) and World Health Organization (WHO). The concentration of Ca and Fe is little higher. "[Nature and Science. 2010;8(3): 24-28]. (ISSN: 1545-0740)".

### Key Word :

EDXRF, Water Quality, x-ray tube, Pollution, Elemental Analysis

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