



Journal of Applicable Chemistry

2016, 5 (1): 266-280

(International Peer Reviewed Journal)



Assessment of Ground Water Samples Collected from Industrial Area in East Zone of Central India

Indra Prasad Tripathi^{1*} and Arvind Prasad Dwivedi²

*Faculty of Science and Environment, Department of Physical Sciences,
M.G.C.G.V. Chitrakoot, Satna (Madhya Pradesh-485780), **INDIA**

Email: adarvindchitrakoot@gmail.com

Accepted on 14th January 2016

ABSTRACT

A Study was carried out in Industrial area of East Zone central India to evaluate the current status of physico-chemical contaminants and their sources in ground water. Ground water samples collected from Industrial area in 20 different locations were analysed. The parameters likes Temperature, nitrate and sulphate were found below the permissible limit, during all the seasons (monsoon, winter and summer) and pH, Turbidity, Total hardness, TDS, DO, BOD, COD, and Phosphate in the ground water showed wide fluctuations. The results were compared with standard value of World Health Organization (WHO). The high access of contamination may be the outcome of high human and industrial activities in their locality.

Keywords: Ground water, Physico-chemical parameters, correlation coefficient, T-test, Industrial area, East Zone of Central India.
