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Abstract: Water in a plastic bottle was not a regular item on many consumers’ shopping lists in few years ago. Now days, thousands and millions of litres of packaged drinking water in bottles are sold everyday all over the globe. Considering various kinds of health issues, the quality of these bottled drinking water, therefore, should be monitored regularly. In this paper, we have tested some water quality parameters like pH, Electrical conductivity (EC), Total Dissolved solids (TDS), Alkalinity, Salinity, Ca-Hardness (CH), Total Hardness (TH), Sodium (Na+), Potassium (K+), Sulphate (SO42-) and Nitrate (NO3-) of fifteen different brands bottled drinking water available in the market of Kokrajhar Town, Assam, India. The target of this research work is to and to analyze these parameters in the water bottles sold commonly in the market and to check whether the water quality parameters meets the prescribed BIS (Bureau of Indian Standards) and World Health Organisation (WHO) standards or not, so that we can make people of our society conscious about drinking such packaged drinking water. The result reveals that all the parameters used for analysis come within the permissible limit of BIS and WHO standards and are safe for drinking purpose.

Keywords: Bottled drinking water, TDS, Hardness, Sulphate, Nitrate, Permissible Limit.

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19. Sodium, chlorides and conductivity in drinking water. Copenhagen, WHO Regional Office for Europe, 1979 (EURO Reports and Studies No. 2)

Authors: Ankit S. Soni, Amit J. Nayak

Paper Title: Smart Home Automation using IOT and Arduino

Abstract: Innovations which are the key features to enrich society and make daily routines simple and secure. Over the last decade, Technology has progressed in every field immensely with the help of it nowadays you can build a highly automated dwelling with integrated appliances controlled by a mobile phone. With Rapid progress in smart home systems people got influenced and have updated themselves to it which includes Door lock/unlocking with keypad, fingerprint touch and also access from a mobile app, Lights turning ON/OFF and Fans which are controlled from any corner of the world.

Keywords: Home Automation, Internet of Things, Arduino, Door Lock System, WIFI, Light Control.

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