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Sustainable Agriculture for Safety and Security of Food: the technological Perspectives for rural development

Agriculture plays a pivotal role in economy and rural development of any country and it contributes a significant amount in GDP. But its share in GHG production is about 14%. Modern food production and consumption has become highly unsustainable. It is produced and consumed in a complex processed. High amount of water and energy is required at all stages from crop production to consumption leading to severe environmental impacts. Food production and consumption also generate huge waste and pollutants. The high Technology agriculture involves large amount of agro-chemicals, water and energy, which damage the natural ecosystem and pollute the air, water and soil.

The concept of sustainable agriculture had gained prominence since publication of Brundtland report in 1987 and then in second Earth summit held at Rio De Janeiro Brazil in June 1992. The U.S National Research Council (1989) defined sustainable agriculture as those alternative farming systems and technologies incorporating natural processes, reducing the use of inputs of off-farm sources, ensuring the long term sustainability of current production levels and conserving soil, water, energy and farm biodiversity. It is a system of food production which avoids or largely excludes the use of chemical fertilizers and pesticides.

The paper emphasizes that sustainable agriculture seeks to integrate a wide range of pest, agro forestry, soil, water and energy management technology which involve less impact on environment.

Biography:

Suresh Prasad Singh is a Former Vice Chancellor, VKS University, Ara (Bihar), India. Vice Chancellor of two Universities – 1) VKS University, Ara (Bihar), India, 2) Himalayan University, Itanagar (Arunachal Pradesh) India. Dean of Science and Prof. of Geology, Ranchi University, (Ranchi), India. Member University Service Commission, Patna (Bihar), India. Guided many research scholars for Ph. D Degree. Contributed many papers in National and International Journals.