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Sustainable Agricultural Production through Genetic Engineering Technology in India: A Need

Shaheema A. S*

Assistant Professor, SDM Law College, Centre for Post Graduate Studies and Research in Law, Mangaluru, D.K District, Karnataka, India.

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*Address for Correspondence

Shaheema A. S

Assistant Professor,
SDM Law College,

Centre for Post Graduate Studies and Research in Law,
Mangaluru, D.K District,
Karnataka, India.



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ABSTRACT

For the growing population in India the demand for food is increasing and there are several questions arising on the agricultural productivity but there is a need to provide a fruitful response to the questions in a sustainable way. Every Indian farmer needs to overcome the impact of various agriculture-related issues while growing crops. The modern genetic engineering technology provides a solution for increasing agricultural production sustainably. At the global level, several varieties of genetically modified crops with the application of genetic engineering technology are identified, developed, and commercialised, but the same are banned in India and the moratorium is imposed especially on genetically modified food crops. The author in this article focuses on the importance and benefits of genetically modified crops produced through genetic engineering technology to the Indian farmers and to resolve food insecurity problem.

Keywords: Agriculture, Genetic Engineering, Technology, Farmers, Resistant

INTRODUCTION

For sustainable agricultural production, the application of genetic engineering technology in the cultivation of crops as a modern technology benefits the present and future generations. The World Commission on Environment and Development (WCED) defined the term 'Sustainable Development' as, "the ability of humanity to ensure that development meets the needs of the present without compromising the ability of future generations to meet their own needs". Sustainable development seeks to ensure that economic, social, and cultural rights will be realized in the future,

