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## A REVIEW ON GREEN NANOTECHNOLOGY KEY TO ENHANCE ENVIRONMENTAL SUSTAINABILITY AND HUMAN HEALTH MEDICINE\*

BY

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### Abstract

Nanotechnology has offers many advances for developing new technologies that are more sustainable than conventional one. For environmental sustainability everyday used to the terms "Green-tech" and "Clean-tech". Green chemistry and green engineering utilize the concept of green nanotechnology as effective development of ecofriendly approach. Green synthesis of nanoparticles commencing as a new era green nanotechnology. This involves the synthesis of nanomaterial from microorganisms and other biological materials. It reduces use of energy also has potential for providing innovative solutions to a wide range of environmental issues like waste water management ,Eco-friendly agriculture, water pollution ,human health and Ayurveda medicine. In this study nanotechnology used in Ayurveda medicine as nanoparticles of Gold (Au) have attracted substantial attention for their controllable size, shape, and surface properties also silver nanoparticles (AgNPs) and their applications in healthcare are interests in the present scenario. The review highlights applications of green nanoparticles are ensuring environmental sustainability and these nanoparticles beneficial in recent COVID-19 also have advances in nanotechnology.

**Keyword:** Green nanotechnology, human Ayurveda medicine, eco-friendly, gold nanoparticles (AuNPs), silver nanoparticles (AgNPs)

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### Introduction

Green nanotechnology spread in world widely as development of eco-friendly technologies in material synthesis with expanded applications. Due to growing use as a marketing tool for products and science proposals, term nanoscience and in particular nanophotonics and thin films are so important. With the help of using less material and renewable inputs green nanotechnology hasbeen reduces the use of energy and fuel. The variety of nanoparticles has well-defined chemical composition, size, and morphology have been synthesized by different methods and their applications in many cutting-edge technological areas [1].The term phytoformulations in green nanotechnology has significantly contributes to environmental sustainability without causing harm to human health or the environment through the production of nanomaterials and nanoproducts. In this review, we focus on green engineering