**COVER LETTER**

**From**

Nidhishree R

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**To**

The Chief Editor,

Madras Agricultural journal.

**Respected Sir,**

**Subject:** Submission of review article in the journal-Reg.

I Nidhishree R, Ph. D Scholar from Navsari Agricultural University, willing to submit a review article on the topic “**SUSTAINABLE LIVESTOCK PRODUCTION UNDER CHANGING CLIMATE: AN ECONOMIC ASPECT”** in your Journal. In recent years, climate is considered to be a key determinant in agricultural productivity, and climate change is projected to have a significant impact on livestock production systems. The paper has written with the objective to look into the obstacles faced by the farmers in taking up Sustainable Livestock Production and the measures to overcome those obstacles.

I hereby attaching the abstract of the paper and also have given the details of my co-workers. It would be great if my paper gets published in your journal.

Thanking You,

Yours faithfully,

Nidhishree R.

**AUTHOR and Co-AUTHOR DETAILS**

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**Abstract**

Climate is a key determinant in agricultural productivity, and climate change is projected to have a significant impact on livestock production systems. Although, the impact of climate change on the livestock sector is a bit controversial because there is a skeptical view that the livestock itself is contributing a share to global climate change. Even if the sector is contributing, we cannot completely stop the production of livestock products due to the increased demand for milk, meat, egg, pork, wool etc., by the increasing population. Thus, there is an emerging need to educate the farming community in regard and encourage them to take up livestock production in a sustainable way. This paper reviews the impacts of changing climate on sustainable livestock production and the ways to produce livestock products in a sustainable way by adapting to climate change. There are various impacts on livestock systems due to climate variability such as increased water consumption, decreased feed intake, ill health, reduced productivity, decreased reproductive efficiency etc. Besides the mentioned, the direct impact on climate change on the sustainable livestock production are broadly reviewed as the effect on animal health, productivity, and wellbeing. The techniques to overcome these obstacles in a sustainable way includes water management, diversification, altered rotation of pastures, modification of grazing times, reducing greenhouse gas emissions from livestock farming, disease control and surveillance, agroforestry, matching of stocking rates with pasture production, changes in cropping calendar, cooling (indoor systems or provide shade) and Increase mobility for resources have also been detailed in the paper.

Key words: Global climate change, Livestock Animals, Productivity, Sustainability.