

AgroConnect+: Platform for Agrowaste utilization and Carbon Credits Management

Ms. C. A. Phirke¹, Srushti Nirmal², Saumya Gholap³, Shrutika Kolhe⁴, Yukta Sonavane⁵

Lecturer, Department of Information Technology¹

Students, Department of Information Technology^{2,3,4,5}

Pimpri Chinchwad Polytechnic, Pune, Maharashtra, India

Abstract: *The agricultural sector of India generates a huge amount of agro-waste every year, most of which are either less utilized or disposed off improperly. This creates serious environmental problems such as soil degradation, air pollution, and carbon emissions leading to unsustainable means such as stubble burning. AgroConnect+ is a digital platform that aims to bring together farmers and industries for adequate agro-waste utilization and carbon credit management. The system enables the farmer to sell directly his agricultural waste to industries demanding it as raw-material, therefore reducing waste and adding to the income of farmers. The platform also enables carbon offsetting by tracking and managing carbon credits by industries in a transparent manner. The connection thus formed between agro-waste producers and industrial consumers is one of the vital contributors to the circular economy and sustainable rural development.*

Keywords: Agro-waste utilization, Carbon credit management, Sustainable agriculture, Ecosystem conservation

