

**International Journal of Current  
Microbiology and Applied Sciences  
(IJCMAS) NAAS RATING-5.38, ICV-95.39**  
**ISSN: 2319-7692 (Print) ISSN 2319-7706 (Online)**

**An International, Monthly, Online, Free Access, Peer Reviewed,  
Indexed, fast track Scientific Research Journal**

**Certificate of Publication**

This is to certify that the following article reviewed by editorial board and published in International Journal of Current Microbiology and Applied Sciences (IJCMAS) ISSN: 2319-7692 (Print) ISSN 2319-7706 (Online).

Int.J.Curr.Microbiol.App.Sci.2020.9.(11):2240-2246

<https://doi.org/10.20546/ijcmas.2020.911.269>

Design Concepts for the Development of a Semi-autonomous Robotic Platform for Environment Friendly Agriculture

P. Athira<sup>1\*</sup>, P. S. James<sup>2</sup>, J. J. L. Bovas<sup>3</sup> and D. S. Khatawkar<sup>1</sup>

<sup>1</sup>Department of Farm Machinery and Power Engineering, Kerala Agricultural University, Tavanur, Malappuram, Kerala, India

<sup>2</sup>Agricultural Research Station, Kerala Agricultural University, Mannuthy, Thrissur, Kerala, India

<sup>3</sup>Department of Agricultural Engineering, Gandhigram Rural Institute University, Dindigul, Tamilnadu, India



*Dr. M. Prakash*  
*Editor-in-chief*

*International Journal of Current Microbiology and Applied Sciences*

[www.ijcmas.com](http://www.ijcmas.com)

[www.excellentpublishers.com](http://www.excellentpublishers.com)



© International Journal of Current Microbiology and Applied  
Sciences (IJCMAS)

[www.excellentpublishers.com](http://www.excellentpublishers.com) [www.ijcmas.com](http://www.ijcmas.com)