


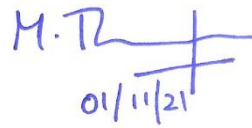
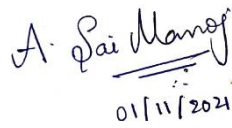
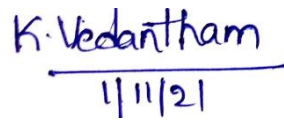



National Institute of Technology Calicut

Office of Dean (R & C)

Status Report : (OCTOBER (Month) – 2021 (Year))

Name of the Project Leader with Roll No.	POOLA ROHITH B180712ME
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Name(s) of the Group Members with Roll No(s).	AKONDI SAI MANOJ – B180161ME MAMIDI THEJONATH – B180129ME KURAGANTI VEDANTHAM – B180473ME
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Name of the Guide(s) & Department(s)	Dr. SUDHEER A P – Mechanical Department Dr. K SEKAR – Mechanical Department
Title of the Project	Robot Based Automation for Vertical Farming
Summary of Work Done in the previous months (In bulleted points)	<ul style="list-style-type: none"> • Conceptual designs of Manipulator and Lift are completed • Created a virtual environment for simulation of Manipulator • Implemented a deep learning model for vegetable detection.
Work Done in this month (in bulleted points) (Please specify what part of objective(s) or outcome you are currently working)	<ul style="list-style-type: none"> • Created novel designs of end effectors. • Optimized the manipulator model and mechanism for lift • Currently working on the optimization of end effector design.
Whether the goals are achieved or not as per the plan (If No, specify the reason)	Most of the work proposed has been completed Analysis of the mechanisms are in progress as we are still working on the new designs for end effector. But simultaneously we started working on simulation and creating virtual environment which is part of next schedule.

<p>Signature of Project Members with Date</p>	<div data-bbox="651 212 837 386">  <p>Rohith 1/11/21</p> </div> <div data-bbox="1003 233 1252 359">  <p>M. Thirumangalakudi 01/11/21</p> </div> <div data-bbox="643 443 873 569">  <p>A. Sai Manoj 01/11/2021</p> </div> <div data-bbox="1036 443 1317 569">  <p>K. Vedantham 1/11/21</p> </div>
<p>Signature of Guide(s) with Date</p>	<div data-bbox="727 590 915 625"> <p>Dr.Sudheer.A.P</p> </div> <div data-bbox="915 590 1219 789">  </div>