Certificate of Merit

This is to certify that Prathamesh Pawaskar, a student of Terna Engineering College, Maharashtra has participated in the Grand Finale of **e-Yantra Robotics Competition (eYRC 2021-22)** held on April 2nd, 2022.

He/She is a member of the team having the following team members:

1. Umesh Mane
2. Prathamesh Pawaskar
3. Mohd Zaid Chachiya
4. Raj Hemant Panchal

This team has been selected as one of 6 **finalists** out of 260 **teams** in the Berryminator theme and has been placed at 1st **position** in this theme.

Prof. Kavi Arya
Principal Investigator, e-Yantra
Professor
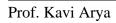Department of Computer Science and Engineering
Indian Institute of Technology Bombay

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Engineering a better tomorrow

[P.T.O]

Theme: *Berryminator*

Theme Description: The theme is set in a simulated environment where indoor vertical farming is explored. The arena is an abstraction of a farm where different types of berries are cultivated in vertically stacked trays in different rooms. A robot navigates through these rooms and galleries of the farm and harvest berries based on factors such as: size, ripeness and quantity required. In this theme, the students get to design, simulate and code their own robotic mechanism. After completing this theme, participants will be confident in deploying robotic applications using CoppeliaSim, OpenCV, Python and CAD.

Theme Learning: *Robotic Simulation, Image Processing, 3D Designing, Algorithm Building, Robot Navigation and localization, Python programming and Lua programming.*

Team Learning: The team has been awarded **Level 1** in the e-Yantra Robotics Competition (eYRC).

This level indicates that the team was able to show high competence in the competition and reached the ultimate goal of solving the whole implementation and reached the finals (top 5-8 teams) after 7 months of hard work.

Certificate Table

Certificate Level	Certificate Description
Level 1	Certificate of Merit
Level 2	Certificate of Completion
Level 3	Certificate of Participation
Level 4	Letter of Participation

*level 1 > level 2 > level 3 > level 4