Panchatcharam Mariyappan Assistent Professor and Head Department of Mathematics and Statistics IIT Tirupati, Andra Pradesh 517619 Email: panch.m@iittp.ac.in

Sun Pharma Science Scholar Award Committee SUN PHARMA SCIENCE FOUNDATION

Subject: Certification of Research Work for Sun Pharma Science Scholar Award

Dear Members of the Sun Pharma Science Scholar Award Committee,

I am writing this letter to certify that the research work submitted by Gangadhara B for consideration for the Sun Pharma Science Scholar Award has been entirely conducted and completed by the applicant.

As the supervisor of Gangadhara B I have had the privilege of closely overseeing their research project titled "A vector finite element approach to temperature dependent parameters of microwave ablation for liver cancer" throughout its duration. I can personally vouch for the authenticity and originality of the work presented by the applicant. Their commitment, dedication, and intellectual prowess have been evident during the entire research process.

I have personally supervised and guided the research work at every stage, from conceptualization and methodology design to data collection, analysis, and interpretation. Additionally, I have verified the accuracy of the results and conclusions drawn by the applicant. I am confident that the research work reflects the applicant's genuine efforts and innovative contributions to the field of science.

I must emphasize that the applicant has demonstrated a deep understanding of the subject matter, and their ability to think critically and independently has been commendable. Their consistent hard work, along with their unwavering passion for scientific inquiry, has been truly inspiring.

I firmly believe that Gangadhara B is a deserving candidate for the Sun Pharma Science Scholar Award and that their research work stands out as a significant and valuable contribution to the field of science.

Please feel free to reach out to me if you require any additional information or verification. I am more than willing to provide any necessary details to support the applicant's candidacy.

Sincerely,

Panchatcharam Mariyappan Assistent Professor and Head Department of Mathematics and Statistics IIT Tirupati, Andra Pradesh 517619 Email: panch.m@iittp.ac.in