

SWAMI VIVEKANANDA INSTITUTE  
OF  
MODERN SCIENCE



Affiliated to Maulana Abul Kalam Azad University of Technology, WB  
Sonarpur Station Road, Karbala, P.O. - Narendrapur, P.S. - Sonarpur, Kolkata-700103

TO WHOM IT MAY CONCERN

This is to certify that the project entitled "Extraction and isolation of compounds from the leaves of *Ficus religiosa* L. and evaluated fractionation based phytochemical constituents and antioxidant activity." with reference to Swami Vivekananda Institute of Modern Science, Sonarpur, Kolkata-700103 is submitted by Md Shahrear Alam Miraj[2<sup>nd</sup> year, 2<sup>nd</sup> semester, registration no. 212641899210019 year 2021-22, roll no. 26499221027] under the Department of Biotechnology for the partial fulfilment of the degree of M.Sc Biotechnology, under Maulana Abul Kalam Azad University of Technology, WB, embodies the work has been done by him under our supervision.

Prof. Gargi Gupta  
(Vice-Principal)  
SVIMS

Prof. (Dr.) Priyabrata Manna  
(Internal Project Guide)  
Department of Biotechnology  
SVIMS

Prof. (Dr.) Nilanjana Bhattacharyya Nath  
(Head of the Department)  
Department of Biotechnology  
SVIMS

Date: 22.05.23  
Place: Kolkata



# INDIAN STATISTICAL INSTITUTE

Telephones : 25753225, 25753236  
Telegram : STATISTICA, KOLKATA 700 108  
Fax : +(91) (33) 2577 6088/3049



Agric. and Ecol. Res. Unit,  
Biological Sciences Division  
203 Barrackpore Trunk Road  
Calcutta 700 108, INDIA

## To whom it may concern

This is to certify that Md. Shahrear Alam Miraj of Swami Vivekananda Institute of Science & Technology, Sonarpur, West Bengal had performed his internship training in my laboratory of Agricultural and Ecological Research Unit, Indian Statistical Institute, 203, B.T. Road, Kolkata from the period of 1st January, 2023 to 28th February, 2023. He has worked on the research topic entitled "Extraction and isolation of compounds from the leaves of *Ficus religiosa* L. and evaluated fractionation based phytochemical constituents and antioxidant activities". He has followed the rules and regulations as laid down by the Institute during his training period. He has gained knowledge of expertise in versatile field such as extraction, isolation and purification of bioactive compounds from plants; screening their phytochemical and antioxidant potentialities. He has learned to operate a number of high end instruments and has developed critical ability to set biological experiment independently. He is intelligent, sincere, obedient and hard-working student and I wish him every success in future life.

Suparna Mandal Biswas  
(SUPARNA MANDAL BISWAS)  
01.03.2023

Anita Pal 06/03/23  
OFFICIATING DEAN OF STUDIES

From:

Dr. Suparna Mandal Biswas

Associate Professor, Agric. and Ecol. Res. Unit

Indian Statistical Institute, 203, B.T. Road, Kolkata

Email: suparna@isical.ac.in

Dr. Suparna Mandal Biswas  
Associate Professor  
Agric. & Ecol. Res. Unit  
Indian Statistical Institute  
203, B. T. Road, Kolkata - 700108, India