

## CERTIFICATE

This is to certify that **NIHARIKA BOHINI**, final year student of M.Sc Microbiology carried out a research project entitled "**PRODUCT RECOVERY OF ANTIFUNGAL SUBSTANCE PRODUCED BY Pseudomonas sps**", under the guidance of **S.Anju**, Project Supervisor, Department of Microbiology, Bhavan's Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from December 2019 to March 2020. This work has not been formed basis for any other degree either in part or full.



**Dr. K. Anuradha,**  
Head of the Department,  
Bhavan's Vivekananda College,  
Secunderabad. Sainikpuri,



**S. Anju**  
Project Supervisor,  
Bhavan's Vivekananda College,  
Secunderabad.



**Prof. Y. Ashok,**  
Principal,  
Bhavan's Vivekananda College,  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **Gaddam Srinivasan Sneha**, final year student of M.Sc Microbiology carried out a research project entitled “**Microbial analysis of coconut water and its nutritional impact on microbial growth**”, under the guidance of **Dr. K. Anuradha**, Project Supervisor, Head, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 – April 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Project Supervisor,  
Head of the Department,  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.



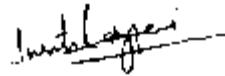
**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **POONAM PANDEY**, final year student of M.Sc Microbiology carried out a research project entitled “ **A SYSTEMATIC REVIEW OF EMPIRICAL EVIDENCE OF KOMBUCHA TEA ON HEALTH BENEFITS**” under the guidance of **Dr. Smriti Bajpai** , Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 – April 2020. This work has not been submitted for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department,  
Department of Microbiology,  
Bhavan’s Vivekananda College  
Sanikpuri,Secunderabad.



**Dr. Smriti Bajpai**  
Project Supervisor,  
Department of Microbiology,  
Bhavan’s Vivekananda College  
Sanikpuri,Secunderabad.



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College  
Sanikpuri,Secunderabad.

## CERTIFICATE

This is to certify that **Chilukuri Sravya Savithri**, final year student of M.Sc. Microbiology carried out a research project entitled “**Antibacterial and Antifungal Activity of Green Synthesized Silver Nanoparticles using Selected Plant Leaf Extracts**” under the guidance of **Dr. S. P. SREEDHAR BHATTAR**, Project Supervisor, Department of Microbiology, Bhavans Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to – March 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha**  
Head of the Department,  
Department of Microbiology,  
Bhavans Vivekananda College,  
Sainikpuri, Secunderabad.



**Dr. S. P. Sreedhar Bhattar**  
Project Supervisor,  
Department of Microbiology,  
Bhavans Vivekananda College,  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok**

Principal

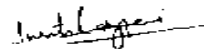
Bhavans Vivekananda College  
Sainikpuri, Secunderabad-94

## CERTIFICATE

This is to certify that **A. Pravalika, final year student of M.Sc Microbiology** carried out a research project entitled “Isolation and Identification microorganisms from kefir”, under the guidance of **Dr. Smriti Bajpai**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November2019–April2020 .This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department,  
Department of Microbiology,  
Bhavan’sVivekananda College,  
Sainikpuri, Secunderabad.



**Dr. Smriti Bajpai,**  
Project Supervisor,  
Department of Microbiology,  
Bhavan’sVivekananda College  
Secunderabad



**Prof. Y. Ashok,**  
Principal,  
Bhavan’sVivekananda College,  
Sainikpuri, Secunderabad

## CERTIFICATE

This is to certify that **PERAMPALLY PRATHUSHA**, final year student of **M.Sc. Microbiology** carried out a research project entitled “**Studies on dextransucrase production by yeast**”, under the guidance of **Mrs. Chaitanya Kumari**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to April 2020. This work has not been formed basis or any other degree either in part or in full.



**Dr. K. Anuradha**  
Head of the Department  
Department of Microbiology  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad



**Mrs. S. Chaitanya Kumari**  
Project Supervisor  
Department of Microbiology  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad

## CERTIFICATE

This is to certify that **V. Sai Krishna**, final year student of M.Sc. Microbiology carried out a research project entitled “**Comparative study on the effects of Natural and chemical preservatives on homemade fruit juices**”, under the guidance of **Dr. K. Anuradha**, Project supervisor, Head, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 - April 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr.K. Anuradha,**  
Project supervisor,  
Head of the Department,  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **J.Geethika**, final year student of M.Sc Microbiology carried out a research project entitled "**Characterization of antifungal compound extracted from bacteria supernatant**" ,under the guidance of **S.Anju**, Project Supervisor, Department of Microbiology, Bhavan's Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from December 2019 to March 2020. This work has not been formed basis for any other degree either in part or full.



**Dr. K. Anuradha,**  
Head of the Department,  
Bhavan's Vivekananda College,  
Secunderabad. Sainikpuri,



**S. Anju**  
Project Supervisor,  
Bhavan's Vivekananda College,  
Secunderabad.



**Prof. Y. Ashok,**  
Principal,  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad.

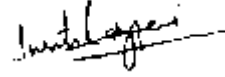


## CERTIFICATE

This is to certify that **Chakilam Supraja** , final year student of **M.Sc Microbiology** carried out a research project entitled “An approach on the potential use of Probiotics in the treatment of Skin acne and Photoaging”, under the guidance of **Dr. Smriti Bajpai**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November2019 to April2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha**  
Head of the Department,  
Department of Microbiology,  
Bhavan’sVivekananda College,  
Secunderabad.



**Dr. Smriti Bajpai**  
Project Supervisor,  
Department of Microbiology,  
Bhavan’sVivekananda College  
Secunderabad.



**Prof. Y. Ashok**  
Principal,  
Bhavan’sVivekananda College,  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **Mokarala Kavya**, final year student of M.Sc Microbiology carried out a research project entitled “**Isolation and Extraction of Exopolysaccharide layer produced by Rhizobium sps isolated from the root nodules of Arachis hypogaeae (Groundnut) and Trigonella foenum-graecum (Methi).**” under the guidance of **Dr. Y.Aparna**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to March 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department,  
Department of Microbiology,  
Bhavan’s Vivekananda College,



**Dr. Y. Aparna**  
Project Supervisor  
Department of Microbiology,  
Bhavan’s Vivekananda College



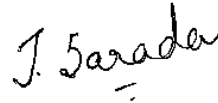
**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.

## Certificate

This is to certify that **P.N.L. Sri Lalitha**, student of M.Sc. Microbiology carried out a research project entitled **Antibiofilm activity of selected plant extracts on multispecies biofilms isolated from solid sewage waste (Sludge)**, under the guidance of **Dr.J.Sarada**, Project supervisor, Assistant professor, Department of Microbiology, Bhavans Vivekananda Degree College, Sainikpuri, Secunderabad. The duration of the project was December 2019 – March 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr.K.Anuradha,**  
Head of the Department,  
Microbiology,  
Bhavans Vivekananda Degree College,  
Secunderabad.



**Dr.J.Sarada,**  
Project supervisor,  
Department of Microbiology  
Bhavans Vivekananda Degree College  
Secunderabad



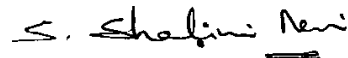
**Prof.Y.Ashok,**  
Principal,  
Bhavans Vivekananda Degree College,  
Sainikpuri, Secunderabad.

**CERTIFICATE**

This is to certify that **B .BINDU** final year student of M.Sc.Microbiology carried out a research project entitled ‘ **STUDIES OF INDIGENOUS SIDEROPHORE PRODUCING BACTERIA SPECIES**’ under the guidance of **Dr.S. SHALINI DEVI**, Project supervisor, Department of Microbiology, Bhavan’s Vivekananda college , Sainikpuri, Secunderabad. The duration of project was from November 2018 – April 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr .K. ANURADHA**  
Head of the Department,  
Department of Microbiology,  
Bhavan’s Vivekananda college ,  
sainikpuri,Secunderabad.



**Dr.S. SHALINI DEVI**  
Project supervisor,  
Bhavan’s Vivekananda college,  
Sainikpuri, Secunderabad.




**Prof.Y.Ashok,**  
Principal,  
Bhavans Vivekananda Degree College,  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **MAHIMA DHURKA** , final year student of M.Sc Microbiology carried out a research project entitled “**Isolation , Identification and Characterization of Bacteria producing Antifungal Substances**”, under the guidance of **S. ANJU**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to March 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department,  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri , Secunderabad.



**S. Anju,**  
Project Supervisor,  
Department of Microbiology,  
Bhavan’s Vivekananda Coll  
Sainikpuri , Secunderabad.



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **Ms. Sushmita Roy**, final year student of **M.Sc. Microbiology** carried out research project entitled “**Sustainable utilization of biowaste towards synthesis of handmade paper and their application**”, under the guidance of **Mrs.S. Chaitanya Kumari**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to April 2020. This work has not been formed basis or any other degree either in part or in full.



**Dr. K. Anuradha**  
Head of the Department  
Department of Microbiology  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad



**Mrs. S. Chaitanya Kumari**  
Project Supervisor  
Department of Microbiology  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad



**Prof. Y. Ashok**  
Principal  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad

## CERTIFICATE

This is to certify that **Ms. Bushra Akbari**, a final year student of M.Sc., Microbiology, carried out a research project entitled '**Isolation and characterization of competent bacterial endophytes from wheat roots**' under the guidance of **Dr. Raja VNR Vukanti**, Department of Microbiology, Bhavan's Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to February 2020. This work has not been formed the basis for any other degree either in part or full.



**Dr. K. Anuradha**  
Head  
Department of Microbiology  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad.



**Dr. Raja VNR Vukanti**  
Project Supervisor  
Department of Microbiology  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok**  
Principal  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **Pawar Praveen Kumar**, final year student of M.Sc. Microbiology carried out a research project entitled “**Antibacterial and Antifungal Activity of Green Synthesized Silver Nanoparticles using Selected Plant Leaf Extracts**” under the guidance of **Dr. S.P. Sreedhar Bhattar**, Project Supervisor, Department of Microbiology, Bhavans Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to March 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha**  
Head of the Department,  
Department of Microbiology,  
Bhavans Vivekananda College,  
Sainikpuri, Secunderabad.



**Dr. S. P. Sreedhar Bhattar**  
Project Supervisor,  
Department of Microbiology,  
Bhavans Vivekananda College,  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok**  
Principal  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad



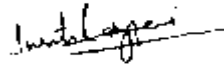
## CERTIFICATE

This is to certify that **MA Zameer**, final year student of MSc Microbiology carried out a research project entitled **“Isolation, Identification, Potential Probiotic Characterization of Probiotic Organism Isolated from Different Fermented Food\_”**, under the guidance of **Dr, Smriti bajpai**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to April 2020. This work has not been formed basis or any other degree either in part or in full.



**Dr. K. Anuradha,**

Head of the Department,  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.



**Dr, Smriti Bajpai**

Project Supervisor,  
Department of Microbiology,  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok,**

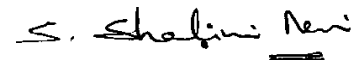
Principal,  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad

## CERTIFICATE

This is to certify that **N.SHANTI PRIYA**, final year student of **M.Sc Microbiology** carried out a research project entitled ” **Extraction and partial purification of antifungal compound from *Streptomyces sp.* to combat *Fusarium and Pythium sps.***”, under the guidance Of **Dr. S.Shalini Devi**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to April 2020. This work has not been formed basis or any other degree either in part or in full.



**Dr. K. Anuradha**  
Head of the Department  
Department of Microbiology  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad



**Dr. S.Shalini Devi**  
Project Supervisor  
Department of Microbiology  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad



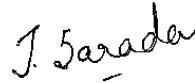
**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad

## CERTIFICATE

This is to certify that **Cheriyala.Pravalika**, final year student of M.Sc. Microbiology carried out a research project entitled “**Inhibition of Bacterial Biofilms isolated from Spoiled Milk sample by Plant Extracts.**” under the guidance of **Dr. J. Sarada**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, and Secunderabad. The duration of the project was from November 2019 to March 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.



**Dr. J. Sarada**  
Project Supervisor  
Department of Microbiology,  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad .



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad

## CERTIFICATE

This is to certify that **J.Aishwarya**, final year student of M.Sc. Microbiology carried out a research project entitled “**Screening And Extraction Of Bromelain Enzyme From Pineapple Pulp And Its Proteolytic Activity On Gingivitis Causing Pathogens**”, under the guidance of **Dr. K. Anuradha**, Project supervisor, Head, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 - April 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr.K. Anuradha,**  
Project supervisor,  
Head of the Department,  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **G. AKSHAYA**, final year student of M.sc microbiology carried out a research project entitled “**Evaluation Of Fruit Waste And Vegetable Waste For Mass Production Rhizobium Sps Isolated From Root Nodules**”, under the guidance of **Dr. Y. Aparna**, project supervisor, Department of Microbiology, Bhavan’s vivekananda college, sanikpuri, secunderabad. The duration of the project was from november2019 to April 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.



**Dr. Y. Aparna**  
Project Supervisor  
Department of Microbiology,  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad .



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad

## CERTIFICATE

This is to certify that **K. SHIRISHA** final year student of M. Sc Microbiology carried out a research project entitled **Antibacterial and Antifungal Activity of Green Synthesized Silver Nanoparticle using Ixora coccinea(Jungle flame) and Phyllanthus emblica(Amla)** under the guidance of **Dr. S. P Sreedhar Bhattar** project Supervisor, Department of Microbiology, Bhavan's Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to March 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department,  
Department of Microbiology,  
Bhavan's Vivekananda College,  
Sainikpuri, Secunderabad.



**Dr. S. P Sridhar Bhattar,**  
Project Supervisor,  
Department of Microbiology,  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok,**  
Principal,  
Bhavan's Vivekananda College,  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **Bekkam Pravallika** final year student of M. Sc Microbiology carried out a research project entitled “**Synthesis of silver nanoparticles biofabricated with antifungal substance**” under the guidance of **Ms. S. Anju** , Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to March 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department,  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.



**S. Anju**  
Project Supervisor,  
Department of Microbiology,  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **KOTA MADHURI**, final year student of **M.Sc. Microbiology** carried out a research project entitled” **Studies on dextransucrase production by lactic acid bacteria**”, under the guidance Of **Mrs. Chaitanya Kumari**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to April 2020. This work has not been formed basis or any other degree either in part or in full.



**Dr. K. Anuradha**  
Head of the Department  
Department of Microbiology  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad



**Mrs.S. ChaitanyaKumari**  
Project Supervisor  
Department of Microbiology  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad



**Prof. Y. Ashok**  
Principal  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad



## CERTIFICATE

This is to certify that **Mr. Ch. Narayana Swamy**, a final year student of M.Sc., Microbiology, carried out a research project entitled '**Isolation and characterization of competent bacterial endophytes from tomato roots**' under the guidance of **Dr. Raja VNR Vukanti**, Department of Microbiology, Bhavan's Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to February 2020. This work has not been formed the basis for any other degree either in part or full.



**Dr. K. Anuradha**  
Head  
Department of Microbiology  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad.



**Dr. Raja VNR Vukanti**  
Department of Microbiology  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad.



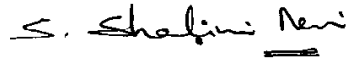
**Prof. Y. Ashok**  
Principal  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **T. SREEJA**, final year student of M. Sc Microbiology carried out a research project entitled “**Studies on the Effect of Drought Stress on Indole Acetic Acid (IAA) producing ability of Plant Growth Promoting Rhizobacteria(PGPR)**” under the guidance of **Dr. Shalini Devi**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to March 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department,  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.



**Dr. Shalini Devi,**  
Project Supervisor,  
Department of Microbiology,  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad.



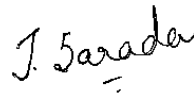
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Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that, **Vaishnavi Yadav** final year student of **M.Sc Microbiology** carried out “**Screening and isolation of biosurfact from oil contaminated soils**” research project entitled under the guidance of **Dr.J.Sarada**, Project Supervisor, Department of Microbiology, **Bhavan’s Vivekananda College**, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to – April 2020 .This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department,  
Department of Microbiology,  
Bhavan’sVivekananda College,  
Sainikpuri, Secunderabad.



**Dr. J. Sarada,**  
Project Supervisor,  
Department of Microbiology,  
Bhavan’sVivekananda College  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **Vanamala Sunitha**, final year student of **M.Sc. Microbiology** carried out a research project entitled “**sustainable utilization of biowaste towards green synthesis of bioplastic and their application**”, under the guidance of **Mrs.S. Chaitanya Kumari**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to April 2020. This work has not been formed basis or any other degree either in part or in full.



**Dr. K. Anuradha**  
Head of the Department  
Department of Microbiology  
Bhavan’s Vivekananda College



**Mrs. S. Chaitanya Kumari**  
Project Supervisor  
Department of Microbiology  
Bhavan’s Vivekananda College



**Prof. Y. Ashok**  
Principal  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad

## CERTIFICATE

This is to certify that **Sandela Om Murthy**, final year student of M.Sc Microbiology carried out a research project entitled “**.Exoenzymes produced by the *Rhizobium* sps isolated from root nodules of *Arachis hypogaea* and *Trigonella foenum-graecum*”** under the guidance of **Dr.Y.Aparna**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to April 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.



**Dr. Y. Aparna**  
Project Supervisor  
Department of Microbiology,  
Bhavan’s Vivekananda College  
Sainikpuri, Secunderabad .



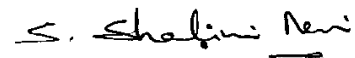
**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad

## CERTIFICATE

This is to certify that **K.Vanitha**, final year student of M.Sc Microbiology carried out a research project entitled “**ISOLATION OF INDOLE ACETIC ACID (IAA) SECRETING BACTERIAL SPECIES FROM VARIOUS RHIZOSPHERIC SOILS AND EXPLORATION OF THEIR PGPR PROPERTIES**”, under the guidance of **Dr.S.Shalini Devi**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2018 to –April 2020. This work has not been formed basisfor any other degree either in part or in full.



**Dr. K. Anuradha**  
Head of the Department,  
Department of Microbiology,  
Bhavan’sVivekananda College,  
Sainikpuri, Secunderabad.



**Dr. Shalini Devi**  
Project Supervisor,  
Department of Microbiology,  
Bhavan’sVivekananda College,  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad

## CERTIFICATE

This is to certify that **Ms. Gudivada Sai Trishala**, a final year student of M.Sc., Microbiology, carried out a research project entitled '**Isolation and characterization of competent bacterial endophytes from maize roots**' under the guidance of **Dr. Raja VNR Vukanti**, Department of Microbiology, Bhavan's Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to April 2020. This work has not been formed the basis for any other degree either in part or full.



**Dr. K. Anuradha**  
Head  
Department of Microbiology  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad.



**Dr. Raja VNR Vukanti**  
Project Supervisor,  
Department of Microbiology  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok**  
Principal  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad.

## CERTIFICATE

This is to certify that **Thati Bhavya**, final year student of M.Sc Microbiology carried out a research project entitled “**Biochemical characterization and Isolation of *Rhizobium* sps isolated from root nodules of *Arachis hypogaeae* and *Trigonellafoenum-graecum*”** under the guidance of **Dr.Y.Aparna**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to March 2020.This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Head of the Department  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.



**Dr. Y. Aparna**  
Project Supervisor  
Department of Microbiology,  
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Sainikpuri, Secunderabad .



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad

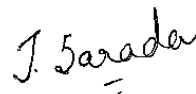


## CERTIFICATE

This is to certify that **YERRAM.SAI ABHISHEK KUMAR**, final year student of M.Sc Microbiology carried out a research project entitled “**SCREENING AND CHARACTERIZATION OF FUNGAL BIOSURFACTANT PRODUCERS**” under the guidance of **Dr.J.Sarada**, Project Supervisor, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to –April 2020.This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha**  
Head of the Department,  
Department of Microbiology,  
Bhavan’sVivekananda College,  
Sainikpuri, Secunderabad.



**Dr. J. Sarada**  
Project Supervisor,  
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Sainikpuri, Secunderabad.



**Prof. Y. Ashok**  
Principal,  
Bhavan’sVivekananda College,  
Sainikpuri, Secunderabad.



## CERTIFICATE

This is to certify that **Pamidighantam Lakshmi Soujanya**, final year student of M.Sc Microbiology carried out a research project entitled “**Fermentation studies of Coconut water and its fortification using *Lactobacillus sp.***” under the guidance of **Dr. K. Anuradha**, Project Supervisor, Head, Department of Microbiology, Bhavan’s Vivekananda College, Sainikpuri, Secunderabad. The duration of the project was from November 2019 to March 2020. This work has not been formed basis for any other degree either in part or in full.



**Dr. K. Anuradha,**  
Project supervisor,  
Head of the Department,  
Department of Microbiology,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.



**Prof. Y. Ashok,**  
Principal,  
Bhavan’s Vivekananda College,  
Sainikpuri, Secunderabad.