



## DEPARTMENT OF BIOCHEMISTRY

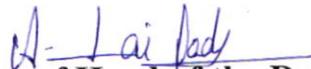
Bhavan's Vivekananda College of Science Humanities & Commerce  
Sainikpuri, Secunderabad

Accredited with 'A' grade by NAAC

Autonomous college - Affiliated to Osmania University

## CERTIFICATE

This is to certify that the project work entitled "**Comparative Study and Qualitative Analysis of Different Soft Drinks**" is a bonafide work carried out at Bhavan's Vivekananda College, by **RACHA ROSHINI** bearing Hall Ticket number: **107217514005**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry, from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

  
Signature of Head of the Department  
(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

  
Signature of Principal  
(PROF. Y. ASHOK)

PRINCIPAL  
Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)

  
Signature of the Supervisor  
(Dr. KAMALA GOLLA)

Dept. of Biochemistry, BV  
Dept. of Biochemistry, BYC



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Sainikpuri, Secunderabad

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## CERTIFICATE

This is to certify that the project work entitled “**Extraction and Precipitation of Inulin and Oligofructans from *Allium cepa* (Onion), *Allium sativum* (Garlic) and *Cichorium intybus* (Chicory herb) using Water and Ethanol**” is a bonafide work carried out at Bhavan's Vivekananda College, by **A. L. PAVANI** bearing Hall ticket number: **107218514001** in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry, from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Mrs. S. VANITHA)

Dept. of Biochemistry, BVC

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)  
PRINCIPAL

Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)



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## CERTIFICATE

This is to certify that the project work entitled “**Evaluation of the Inhibitory Effects of Short Peptides on Polyphenol Oxidase Activity in *Agaricus bisporus* (Mushroom)**” is a bonafide work carried out at Bhavan's Vivekananda college, by **A. Surya Lalitha**, bearing hall ticket number: **107218514002**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry, from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)  
PRINCIPAL

Bhavan's Vivekananda College of Science  
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Sainikpuri, R.R. (Dist.)

Signature of the Supervisor

(Dr. MANJU DEVI)

Dept. of Biochemistry BVC



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## CERTIFICATE

This is to certify that the project work entitled “Extraction, Purification, Activity and Inhibition of Polyphenol Oxidase (PPO) in *Musa* (Banana) and *Actinidia Deliciosa* (Kiwi)” is a bonafide work carried out at Bhavan's Vivekananda College, by **B. KAVIYA PURNIMA** bearing Hall Ticket number: **107218514003**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry, from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 099

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)  
PRINCIPAL

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Sainikpuri, R.R. (Dist.)

Signature of the Supervisor

(Mrs. D. RAJANI)

Dept. of Biochemistry, B.V.



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## CERTIFICATE

This is to certify that the project work entitled "**Diversity of Zea Mays (Maize) Seed Storage Protein Polymorphism**" is a bonafide work carried out at Bhavan's Vivekananda College, by **DURGA SATYA DEEPTHI. CH** bearing Hall Ticket number:**107218514004** in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry, from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)  
PRINCIPAL

Bhavan's Vivekananda College of Science  
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Signature of the Supervisor

(Dr. MANJU DEVI)

Dept. of Biochemistry RV



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## CERTIFICATE

This is to certify that the project work entitled “**Degradation of Dyes Using Metal Nanoparticles by Photocatalysis with *Piper betel* (Betel) leaf extract and Fructose as Reducing agents**” is a bonafide work carried out at Bhavan's Vivekananda College, by **D. NAGAJYOTHI** bearing Hall Ticket number:**107218514006** in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry, from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Mrs. S. VANITHA)

Dept. of Biochemistry BVC

Signature of Principal

(PROF. Y. ASHOK)

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### CERTIFICATE

This is to certify that the project work entitled "**Impact of Sewage Water on Antioxidant Enzymes in Germinating *Triticum aestivum* (Wheat) Seeds**" is a bonafide work carried out at Bhavan's Vivekananda College, by **G. BHAVYA HARIKA** bearing Hall Ticket number: **107218514007**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry, from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of Principal

(PROF. Y. ASHOK)  
(Dr. Y. ASHOK)  
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(Mrs. S. VANITHA)

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### CERTIFICATE

This is to certify that the project work entitled "**Identification of Synthetic food colours Adulteration by Paper Chromatography**" is a bonafide work carried out at Bhavan's Vivekananda College by **I. SAI TEJASWINI** bearing Hall Ticket number: **107218514008** in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry, from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad - 500 094

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)  
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## CERTIFICATE

This is to certify that the project work entitled “**Comparative study of Antioxidant activity of Three Leaf Extracts of *Trigonella foenum graecum* (Fenugreek Leaves), *Trachyspermum ammi* (Ajwain Leaves), *Coriandrum sativum* (Coriander), and *in situ* Green Synthesis of Silver Nanoparticles**” is a bonafide work carried out at Bhavan's Vivekananda College, by **J.NAGAJYOTHI** bearing Hall Ticket number **107218514009** in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry, from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of Principal

(PROF. Y. ASHOK)  
(Dr. Y. ASHOK)  
PRINCIPAL

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(Dr. MANJU DEVI)

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## CERTIFICATE

This to certify that the project work entitled “**Correlation between Anthropometric Measurement (Waist Circumference) and Lipid Profile**” is bonafide work carried out at Bhavan's Vivekananda College, by **J. THIRUMALA** bearing Hall Ticket number: **107218514010** in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry, from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Mrs. D. RAJANI)

Dept. of Biochemistry BVC

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## CERTIFICATE

This to certify that the project work entitled “Comparative study of antioxidant activity of three seed extracts of *Coriandrum sativum* (coriander), *Trigonella foenum graceum* (Fenugreek), *Trachyspermum ammi* (Ajwain) and *in situ* Green synthesis of Silver Nanoparticles”. is a bonafide work carried out at Bhavan's Vivekananda College, by **K. L. GOWRI AISHWARYA** bearing hall ticket number: **107218514011** in partial fulfilment of the requirement for the degree Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Hyderabad, during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of Principal

(PROF. Y. ASHOK)

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Bhavan's Vivekananda College of Science Humanities & Commerce

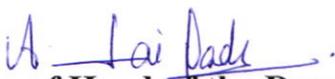
Sainikpuri, Secunderabad

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## CERTIFICATE

This to certify that the project work entitled "Use of Chitosan as an edible coating to preserve *Psidium guajava* (Guava) and *Fragaria ananassa* (Strawberry) Post-harvest and its effects" is bonafide work carried out at Bhavan's Vivekananda college, by **KONDA RAMA KRISHNA** bearing hall ticket number **107218514012**, in partial fulfilment of the requirement for the degree master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Secunderabad, during the academic year 2019-2020.

  
Signature of Head of the Department

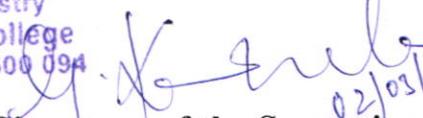
(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

  
Signature of Principal

(PROF. Y. ASHOK)  
(Dr. Y. ASHOK)  
PRINCIPAL

Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)

  
Signature of the Supervisor

(Dr. KAMALA GOLLA)

Dept. of Biochemistry BVC

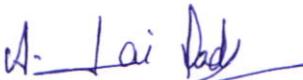


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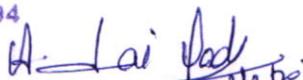
Bhavan's Vivekananda College of Science Humanities & Commerce  
Sainikpuri, Secunderabad  
Accredited with 'A' grade by NAAC  
Autonomous college - Affiliated to Osmania University

### CERTIFICATE

This to certify that the project work entitled “**Comparison of Zinc Oxide Nanoparticles Synthesised in presence and absence of *Ocimum Sanctum* (Tulsi) Leaf Extract**” is a bonafide work carried out at Department of Biochemistry, Bhavan's Vivekananda College by **K. RAMASAI**, bearing hall ticket number **107218514013**, in partial fulfilment of the requirement for the degree Master of Science in Biochemistry, Bhavan's Vivekananda College, Hyderabad during the academic year 2019-2020.

  
Signature of Head of the Department  
(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

  
Signature of the Supervisor  
(Dr. A. SAI PADMA)

  
Signature of Principal  
(PROF. Y. ASHOK)  
(Dr. Y. ASHOK)  
PRINCIPAL  
Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)

Dept. of Biochemistry BVC



## DEPARTMENT OF BIOCHEMISTRY

Bhavan's Vivekananda College of Science Humanities & Commerce

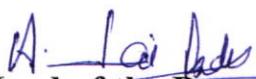
Sainikpuri, Secunderabad

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## CERTIFICATE

This to certify that the project work "Effect of Partially Purified Protease Inhibitors from Ripened *Musa* (Banana) on Blood Clotting Time" is a bonafide work carried out at Bhavan's Vivekananda College, by **Lella Gayatri** bearing hall ticket number **107218514014**, in partial fulfilment of the requirement for the degree Master of Science in Biochemistry from the Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad, during the academic year 2019-2020.

  
Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

  
Signature of the Supervisor

(Dr. S. PADMA)

Dept. of Biochemistry BVC

  
Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)  
PRINCIPAL

Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist)



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Sainikpuri, Secunderabad

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## CERTIFICATE

This to certify that the project work entitled “**Aqueous Two Phase Extraction of Protease from *Carica papaya* (Papaya) leaves**” is a bonafide work carried out at Bhavan's Vivekananda College, by **M. Rohit Kumar** bearing hall ticket number **107218514015**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad, during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Mrs. D. RAJANI)

Dept. of Biochemistry BVC

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)

PRINCIPAL

Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)



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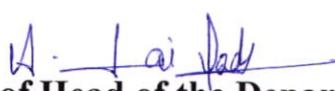
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Sainikpuri, Secunderabad

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### CERTIFICATE

This is to certify that the project work entitled "**Biosynthesis of Silver nanoparticles from Biowaste *Punica granatum* (Pomegranate) peel**" is a bonafide work carried out at Bhavan's Vivekananda College, by **MALA RAVI KUMAR** bearing hall ticket number **107218514016**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda college, Sainikpuri, Secunderabad during the academic year 2019-2020.

  
Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

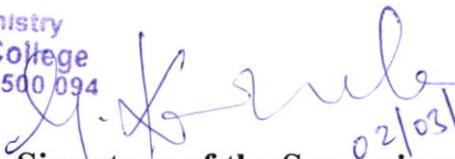
  
Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)

PRINCIPAL

Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)

  
Signature of the Supervisor

(Dr. KAMALA GOLLA)

Dept. of Biochemistry RVV  
Dept. of Biochemistry RVV



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Sainikpuri, Secunderabad

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## CERTIFICATE

This is to certify that the project work entitled “Effect of Kapra Lake water on Antioxidant enzymes in presence of Phytohormones pretreated (Auxin and Cytokinin) on Germinating *Vigna radiata* (Mung bean) seeds” is a bonafide work carried out at Bhavan's Vivekananda College, by **M. Suraj** bearing hall ticket number **107218514017**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)  
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(Mrs. S. VANITHA)

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## CERTIFICATE

This is to certify that the project work entitled "Extraction of Amylases from the Soil and study on their Activity levels" is a bonafide work carried out at Department of Biochemistry, Bhavan's Vivekananda College by **MOHAMMED JUWERIYA TAHSEEN**, bearing hall ticket number **107218514018**, in partial fulfilment of the requirement for the degree of Master of Science in Biochemistry, Bhavan's Vivekananda College, Hyderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Dr. A. SAI PADMA)

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## CERTIFICATE

This is to certify that the project work entitled “**Isolation and Characterization Protease enzyme from Leguminous seeds *Cicer arietinum* (Bengal gram) & *Glycine max* (Soya bean)**” is a bonafide work carried out at Bhavan's Vivekananda College, by **M. Chandana** bearing hall ticket number **107218514019**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of Principal

(PROF. Y. ASHOK)  
(Dr. Y. ASHOK)  
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### CERTIFICATE

This is to certify that the project work entitled "Isolation and Characterization of Peroxidase enzyme from various Vegetable Sources" is a bonafide work carried out at Bhavan's Vivekananda College, by **O. VAISHNAVI** bearing hall ticket number **107218514020**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Hyderabad during the academic year 2019 - 2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 09

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)

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Dept. of Biochemistry BVC



## DEPARTMENT OF BIOCHEMISTRY

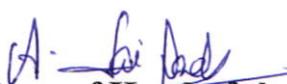
Bhavan's Vivekananda College of Science Humanities & Commerce  
Sainikpuri, Secunderabad

Accredited with 'A' grade by NAAC

Autonomous college - Affiliated to Osmania University

## CERTIFICATE

This is to certify that the project work entitled “Nutritional and Bio Chemical Alteration in *Cicer arietinum* (chick pea) and *Phaseolus vulgaris* (Rajma seeds) by germination” is a bonafide work carried out at Bhavan's Vivekananda College, by **Parameshwari B** bearing hall ticket number **107218514021**, in partial fulfilment of the requirement for the degree Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

  
Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

  
Signature of Principal

(PROF. Y. ASHOK)  
(Dr. Y. ASHOK)  
PRINCIPAL

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Humanities & Commerce  
Sainikpuri, R.R. (Dist.)

  
Signature of the Supervisor

(Dr. MANJU DEVI)

Dept. of Biochemistry BVC



## DEPARTMENT OF BIOCHEMISTRY

Bhavan's Vivekananda College of Science Humanities & Commerce

Sainikpuri, Secunderabad

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## CERTIFICATE

This is to certify that the project work entitled “**Isolation and Characterization of protease enzyme from Leguminous seeds *Arachis hypogaea* (Groundnut) and *Lens esculenta* (Lentil)**” is a bonafide work carried out at Bhavan's Vivekananda College by **P. Rahul Naik** bearing hall ticket number **107218514023** in partial fulfilment of the requirement for the degree Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad, during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Dr. A. SAI PADMA)

Dept. of Biochemistry BYG

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)

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Humanities & Commerce  
Sainikpuri, R.R. (Dist.)



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Sainikpuri, Secunderabad

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## CERTIFICATE

This is to certify that the project work entitled "**Determination of Chemical composition of Cooked and Raw *Musa accuminata* (Banana stem) and its effect on Kidney stones**" is a bonafide work done by **P. Sree Vyshnavi**, bearing hall ticket number **107218514024** in partial fulfilment of the requirement for the Degree of Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Mrs. S. VANITHA)

Dept. of Biochemistry BVC

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)

PRINCIPAL

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Sainikpuri, Secunderabad

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### CERTIFICATE

This is to certify that the project work entitled "To study the Antioxidant properties in Germinated and Non Germinated Seeds of *Glycine Max* (Soya bean)" is a bonafide work carried out at Bhavan's Vivekananda College, by **R. Shivani** bearing hall ticket number **107218514026**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad, during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Dr. KAMALA GOLLA)

Dept. of Biochemistry BVC

Signature of Principal

(PROF. Y. ASHOK)  
(Dr. Y. ASHOK)  
PRINCIPAL

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Sainikpuri, Secunderabad

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## CERTIFICATE

This is to certify that the project work entitled "**Determination of Anti-Nutritional contents in Green Leafy Vegetables (*Amaranthus & Hibiscus Sabdariffa*)**" is a bonafide work carried out at Bhavan's Vivekananda College, by **R. SAITEJA** bearing hall ticket number **107218514027**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

  
Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

  
Signature of the Supervisor

(Dr. S. PADMA)

Dept. of Biochemistry BVG

  
Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)

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Sainikpuri, R.R. (Dist.)



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Sainikpuri, Secunderabad

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## CERTIFICATE

This is to certify that the project work entitled "**Extraction, Purification and Characterisation of Polyphenol oxidase (PPO) in *Spinacia oleracea* (spinach) and *Pyrus* (pear) and to study its Activity and Inhibition**" is a bonafide work carried out at Bhavan's Vivekananda college, by **Sadurgam Vaijyanthi** bearing hall ticket number **107218514028**, in partial fulfilment of the requirement for the degree Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Mrs. D. RAJANI)

Dept. of Biochemistry BVC

Signature of Principal

(PROF. Y. ASHOK)  
(Dr. Y. ASHOK)  
PRINCIPAL

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Sainikpuri, R.R. (Dist.)



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Sainikpuri, Secunderabad

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## CERTIFICATE

This is to certify that the project work entitled "**Analysis of *Psidium guajava* Linn (Guava) and *Annona squamosa* (Custard Apple) Leaf Extract for Antioxidant and Protease Activity**" is a bonafide work carried out at Bhavan's Vivekananda College, by **S. PUSHPA**, bearing hall ticket number **107218514029**, in partial fulfilment of the requirement for the degree Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad, during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)  
PRINCIPAL

Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)

Signature of the Supervisor

(Dr. S. PADMA)

Dept. of Biochemistry BVC



## DEPARTMENT OF BIOCHEMISTRY

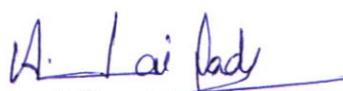
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Sainikpuri, Secunderabad

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## CERTIFICATE

This is to certify that the project work entitled "Extraction of Peroxidase from Leaves of *Brassica rapa* (Turnip) , *Psidium guajava* Linn (Guava) , *Annona Squamosa* (Custard Apple) and its Biodegradation studies on Phenol" is a bonafide work carried out at Bhavan's Vivekananda College, by SHAISTA NAGHMA, bearing hall ticket number 107218514030, in partial fulfilment of the requirement for the degree Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad, Hyderabad during the academic year 2019-2020

  
Signature of Head of the Department  
(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

  
Signature of the Supervisor  
(Dr. S. PADMA)

Dept. of Biochemistry DVC

  
Signature of Principal  
(PROF. Y. ASHOK)  
(Dr. Y. ASHOK)  
PRINCIPAL  
Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)



## DEPARTMENT OF BIOCHEMISTRY

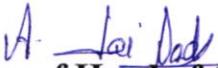
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Sainikpuri, Secunderabad

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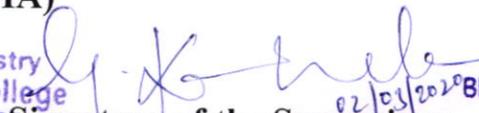
Autonomous college - Affiliated to Osmania University

## CERTIFICATE

This is to certify that the project work entitled “**Enzymatic antioxidant activities in various Edible fruits**” is a bonafide work carried out at Bhavan's Vivekananda College, by **Sowmya. J.S** bearing hall ticket number **107218514031**, in partial fulfilment of the requirement for the degree Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Secunderabad during the academic year 2019-2020.

  
Signature of Head of the Department  
(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-50

  
Signature of the Supervisor  
(Dr. KAMALA GOLLA)

Dept. of Biochemistry RVG

  
Signature of Principal  
(PROF. Y. ASHOK)  
(Dr. Y. ASHOK)  
PRINCIPAL

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Sainikpuri, Secunderabad

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## CERTIFICATE

This is to certify that the project work entitled “An analysis on the Effect of water pollution on Chlorophyll content and Oxidative stress in plants” is a bonafide work carried out at Bhavan's Vivekananda College, by **Sreekar Vattem** bearing hall ticket number **107218514032**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Dr. MANJU DEVI)

Dept. of Biochemistry BVC

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)

PRINCIPAL

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Humanities & Commerce  
Sainikpuri, R.R. (Dist.)



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Sainikpuri, Secunderabad

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### CERTIFICATE

This is to certify that the project work entitled "**Green Synthesis of Silver Nanoparticles from *Annona squamosa* & *Carica papaya* Leaves and its Application in Dye Degradation**" is a bonafide work carried out at Bhavan's Vivekananda College, by **Sucharita Nandy** bearing hall ticket number **107218514033**, in partial fulfilment of the requirement for the degree Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Hyderabad during the academic year 2019-2020.

  
Signature of Head of the Department  
(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

  
Signature of the Supervisor  
(Dr. S. PADMA)

Dept. of Biochemistry BVQ

  
Signature of Principal  
(PROF. Y. ASHOK)

(Dr. Y. ASHOK)  
PRINCIPAL  
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Humanities & Commerce  
Sainikpuri, R.R. (Dist.)



## DEPARTMENT OF BIOCHEMISTRY

Bhavan's Vivekananda College of Science Humanities & Commerce  
Sainikpuri, Secunderabad

Accredited with 'A' grade by NAAC

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## CERTIFICATE

This is to certify that the project work entitled “**Correlation between Lipid Profile and BMI**” is a bonafide work carried out at Bhavan's Vivekananda College, by **V. SAI CHANDANA** bearing hall ticket number **107218514035**, in partial fulfilment of the requirement for the degree in Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, Secunderabad during the academic year 2019-2020.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Mrs. D. RAJANI)

Dept. of Biochemistry BVC

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)

PRINCIPAL

Bhavan's Vivekananda College of Science  
Humanities & Commerce  
Sainikpuri, R.R. (Dist.)



## DEPARTMENT OF BIOCHEMISTRY

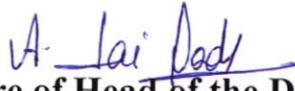
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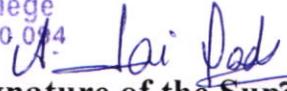
Autonomous college - Affiliated to Osmania University

### CERTIFICATE

This is to certify that the project work entitled "Extraction of Soil Phosphatases and Studies on Activity Levels" is a bonafide work done by V. VAISHNAVI bearing hall ticket number 107218514036 in partial fulfilment of the requirement for the degree Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Hyderabad during the academic year 2019-2020.

  
Signature of Head of the Department  
(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 074

  
Signature of the Supervisor  
(Dr. A. SAI PADMA)

Dept. of Biochemistry BV

  
Signature of Principal  
(PROF. Y. ASHOK)  
(Dr. Y. ASHOK)  
PRINCIPAL  
Bhavan's Vivekananda College of Science  
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Sainikpuri, R.R. (Dist.)



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Bhavan's Vivekananda College of Science Humanities & Commerce

Sainikpuri, Secunderabad

Accredited with 'A' grade by NAAC

Autonomous college - Affiliated to Osmania University

### CERTIFICATE

This is to certify that the project work entitled "**Extraction, Purification, Activity and Inhibition of Polyphenol oxidase (PPO) in *Solanum tuberosum* (Potato) and *Solanum melongena* (Eggplant)**" is a bonafide work carried out at Bhavan's Vivekananda College, by **SUBASH CHANDRA BOSE** bearing hall ticket number **107218514038**, in partial fulfilment of the requirement for the degree Master of Science in Biochemistry from Department of Biochemistry, Bhavan's Vivekananda College, Secunderabad during the academic year 2019-20.

Signature of Head of the Department

(Dr. A. SAI PADMA)

Head, Dept. of Bio-Chemistry  
Bhavan's Vivekananda College  
Sainikpuri, Secunderabad-500 094

Signature of the Supervisor

(Mrs. D. RAJANI)

Dept. of Biochemistry BVC

Signature of Principal

(PROF. Y. ASHOK)

(Dr. Y. ASHOK)  
PRINCIPAL

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