



Dr. BRR GOVERNMENT DEGREE COLLEGE

(Accredited with B⁺⁺ by NAAC)

JADCHERLA-509301

MAHABUBNAGAR (DIST), T.S

Dr. CH Appiya Chinamma M.Sc., P.G.D.S, Ph.D.

Principal

The department of Microbiology has conducted student study projects during the academic year 2021-22.

- **Title:** “ISOLATION AND CHARACTERIZATION OF PGPB FROM RHIZOSPHERIC SOILS OF *Cyamopsis tetragonoloba*”
- **Pace of work:** Department of microbiology, Dr BRR Govt College- Jadcherla
- **Details of Students:-**

S.NO	NAME	YEAR	HALL TICKET NO
1.	Arshiya Ruhi Fathima	III MZC	19033006457003
2.	B Yugendhar Reddy	III MZC	19033006457006
3.	D Dinesh Yadhav	III MZC	19033006457007
4.	K Krishnaveni	III MZC	19033006457013
5.	M Sravanthi	III MZC	19033006457016



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Project work completion certificate:

M. Srinivasa Rao
Assistant Professor of Microbiology
Dr. BRR Government College
Jadcherla – 509 301
Mahabubnagar District
Telangana State, India.

Email srinivasarao.micro@gmail.com
Mobile: 0 9985737320

CERTIFICATE

This is to certify that the project work entitled "Isolation and Characterization of PGPB from Rhizospheric soil of CYAMOPSIS TETRAGONOLOBA Jadcherla, Mahabubnagar District, and Telangana. "is a bonafide work done by the students of III MZC (EM) Miss. Arshiya Ruhi Fathima, Mr. B.Yugendhar Reddy, Mr. D.Dinesh yadav, Miss. K.krishnaveni, Miss. M.Sravanthi under my supervision for the award of Project Work in Microbiology, Department of Microbiology, Dr. BRR Government College, Jadcherla and the work hasn't been submitted to any other College/University either in part nor in full, for the award of any degree.


M. Srinivasa Rao

Assistant Professor of Microbiology


Signature of External Examiner


Principal
Dr BRR Govt. College
Jadcherla-509 301


Signature of Internal Examiner



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Duration: 3 Months (Semester – VI)

Abstract:

Plant Growth Promoting Rhizobacteria (PGPR) is group of bacteria that colonize roots of plant and help in plant growth and disease suppression by various direct and indirect mechanisms. PGPRs are recognized as efficient soil microbes as bio-fertilizers for enhancing the growth of several crops and controlling soil borne pathogens. Hence, the present investigation was carried out to isolate, screen and characterize the PGPR from the Rhizosphere soil of growing in different areas of Jadcherla, Mahabubnagar dist. A total of Three Bacteria were isolated with the occurrence from Capsicum Annum, Rhizosphere here and characterized from various plant growth promoting activates. Rhizosphere soil provide colonization for many muralist microorganisms among the many bacteria has an ability to produce plant growth promoting characteristics like Nitrogen fixation, Phosphate Solubilization, Siderospore, IAA, HCN, Gibberellic acid they are many studies evidence that the microorganism which are living in soil has this ability, with this we carried an experiment by taking soils of capsicum Annum in mandal of Jadcherla. We have screened around 8 samples around the area and among this we got 3 isolates having these characteristics.



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Photographs:-

