



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

- **Title :-** “ISOLATION AND CHARACTERIZATION OF PGPR FROM RHIZOPHERIC SOILS OF *Capsicum annum*”
- **Pace of work:** Department of microbiology, Dr BRR Govt College- Jadcherla
- **Details of Students:**

S.NO	NAME	YEAR	HALL TICKET NO
1.	A Srinu	III MZC	19033006457002
2.	K. Ashwini	III MZC	19033006457009
3.	K. Harshith Kumar	III MZC	19033006457010
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Principal

M. Srinivasa Rao

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CERTIFICATE

This is to certify that the project work entitled "**Isolation and Characterization of PGPR from Rhizospheric soil of CAPSICUM ANNUUM Jadcherla, Mahabubnagar District, and Telangana.**" is a bonafide work done by the students of III MZC (EM) **Mr. K.Harshith kumar, Mr. A.Srinu, Miss K.Bhavani, Miss K.Ashwini, Miss Tazaina Mahaveen** 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

28/6/2022

Signature of External Examiner

28/06/22

Signature of Internal Examiner

Principal
Dr BRR Govt. College
Jadcherla-509 301



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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 Annuum, Rhizosphere here and characterized from various plant growth promoting activates. Rhizosphere soil provide colonization for many mutalist microorganisms among the many bacteria has an ability to produce plant growth promoting characteristics like Nitrogen fixation, Phosphate Solublization, Siderospore, IAA, HCN, Gibberlic 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 Annuum 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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