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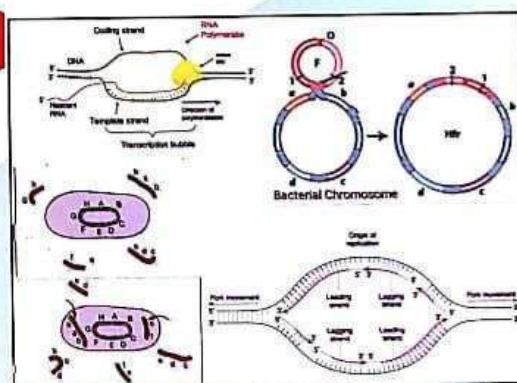
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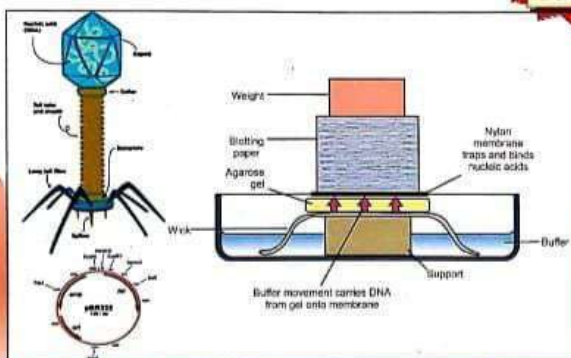
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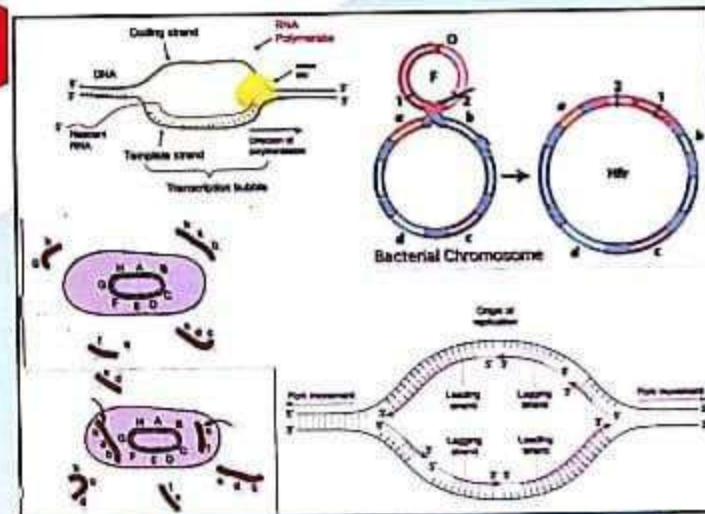
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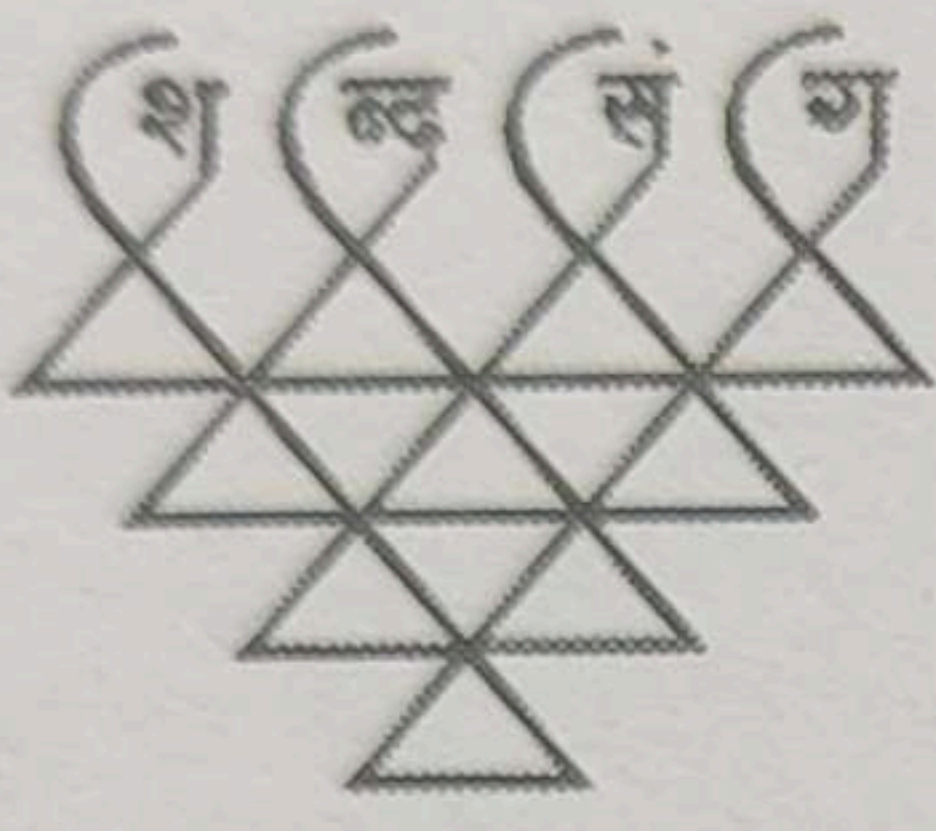
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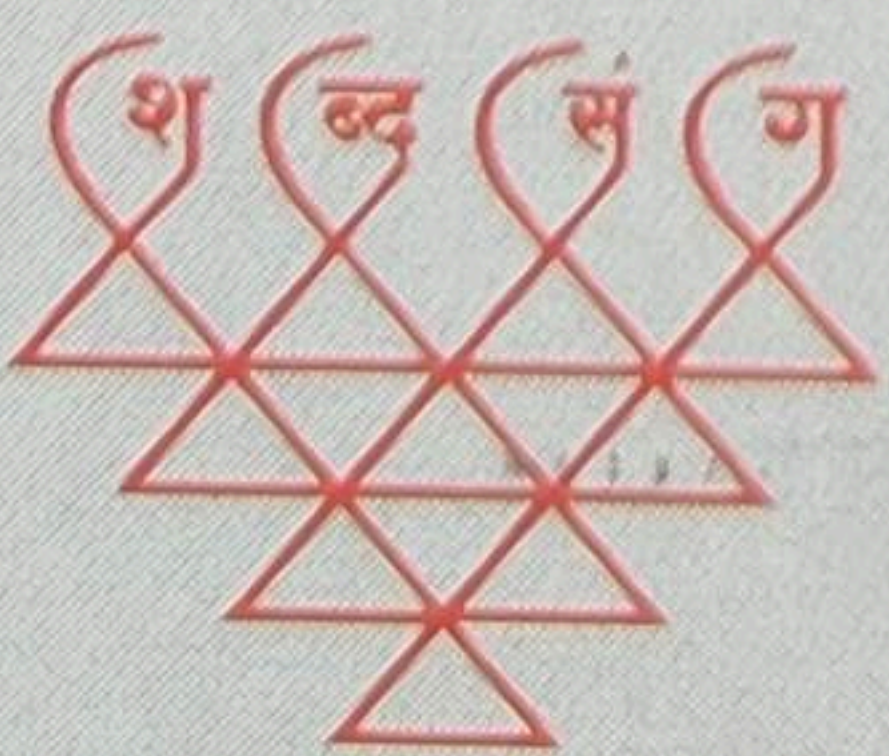


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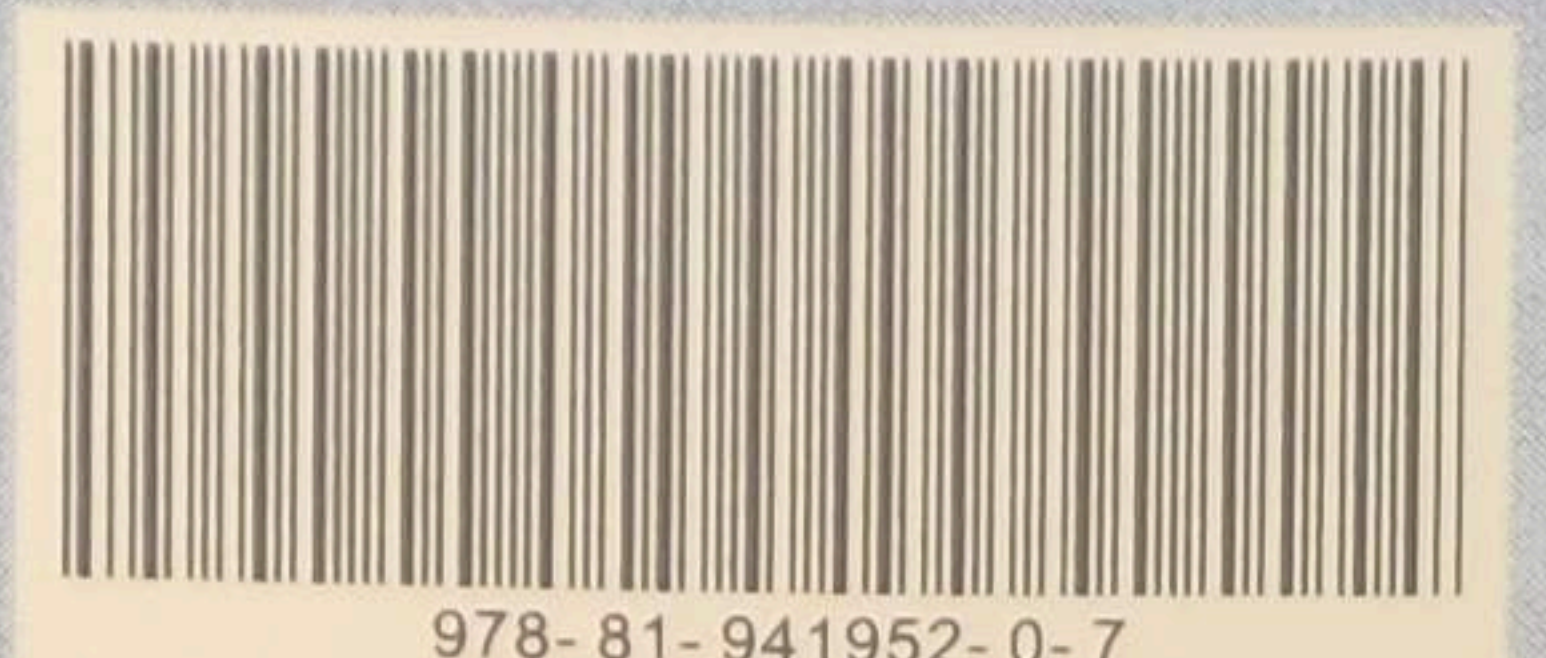
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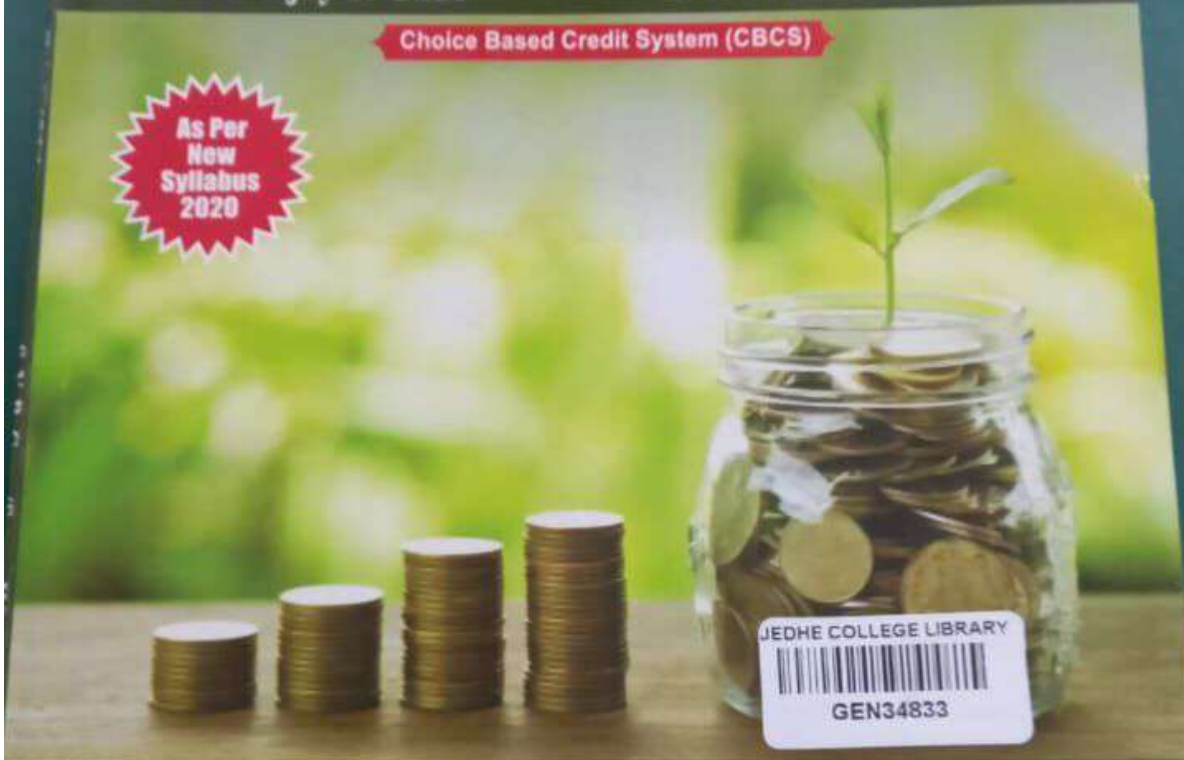
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**TALCUM POWDER FORMULATION OF ACTINOBACTERIAL ISOLATES AND ITS EFFECT ON
SACCHARUM OFFICINARUM ON VARIETY CO-86032 NIRA: IN VITRO STUDY**

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ABSTRACT

Keeping in view the number of challenges faced by modern agriculture with respect to soil fertility, pathogen attack and role of ecofriendly approach; present study does involved the number of actinobacteria previously been isolated from rhizosphere soil samples and found to be potent for plant growth promoting properties involved in soil fertility have been investigated in plant species sugar cane (*Saccharum officinarum* on variety CO-86032 Nira) using 90 days pot trial. Talcum powder based Bioinoculum prepared from actinobacteria (A3, BF5, TU, D and consortium) when tested under pot assay, all these isolates best preformed to act as plant growth promoter when treatment was given to sugarcane. A highly significant with about 10 times increase in shoot weight (9.89gm) was recorded in consortium group to control with only 0.95gms. In a positive control group also treatment with NPK+IAA also helped to increase shoot weight to 10.1gms which showcase that probably consortium providing vital nutrients for sugarcane growth. As compared to control (0.201 gm) root weight BF5 isolate found to be highest (0.637 gm) and comparable with positive control (NPK+IAA) with 1.089 gm of root weight. Isolate A3 also performed better for improvement of root and shoot length compared to control. In conclusion, systematic selection of potential actinobacteria and their further inoculation as consortium or individual certainly improved the growth of sugar cane and hence recommended to get involved in agricultural bioinoculant programs.

Keywords: Actinobacteria, Bioinoculum, Ecofriendly, Sugarcane, Talcum powder.

1 INTRODUCTION

As it is known that microbes in rhizosphere able to transmit number of plant growth promoting content via soil, which does assist in plant's greater yield. Actinomycetes are one of the members of the soil microbial population which can add nutrient content in soil (Halder et al., 1991; Elliot L.F. et al., 1995) along with many plant growth promoting capabilities (Merzaeva O.V. et al., 2006). It is noted that when actinomycetes grows in soil it produces number of important biomolecules such as lytic enzyme, PGP substances and antibiotics (Cattelan A. J. et al., 2000). Among number of actinomycetes *Streptomyces* spp dominates the soil as major microbe and assist in degradation of number of complex molecules to simple molecules which can improve plant yield and overall development (Petrosyan P et al., 2003; Ding C.H. et al., 2004).

Being an aerobe spore forming, Gram positive bacteria all actinomycetes are featured with substrate and aerial mycelium growth when added in the soil or when present naturally they play key roles in cycling of organic matter, plant pathogens inhibition, decomposition of complex material especially of dead plants, animals and fungal material by producing several vital enzymes. Besides that they improve nutrient content, minerals by producing metabolites and plant growth regulators (Bhatti A.A. et al., 2017).

Looking at today's scenario with intensive agricultural practices and cultivation, fertility of soil is decreasing at a faster rate which is making increasing crop loss for many instances. As per estimation with such improper practice about 30% of total world cultivated soil may get degraded by the year 2020. Here soil degradation is mainly related with loss of soil texture and fertility and that will lead to loss in crop productivity. Hence it is now taken as a priority to ensure ever increasing future food demand and supply. In requirement, treatment of soil with bacteria and fungi is strongly recommended to regain feature of the soil. These microbes does provide nitrogen fixation and mobilization of other nutrients such as phosphorus, potassium and iron which can be reached directly to the plant while also remediate soil structure by improving its aggregation and stability. Study also reported that co-inoculation of bacteria and fungi with or without organic fertilizer are also been beneficial for reinstating the soil fertility and organic matter content instead of single inoculum (Rashid M I et al., 2015).

Actinobacteria has been nominated as the plant growth bacteria and able to improve soil and plant health and it also remain the sustainable agricultural practices by looking at the high prices and destructive effect of chemical fertilizers especially in the countries of south-east Asia and Africa. Actinobacteria has also been recommended to use along with crop for better yield and to use along with crop for better pest control (Sathya A et al., 2017).

SCREENING, OPTIMIZATION AND EVALUATION OF ACTINOBACTERIA FOR SIDEROPHORE PRODUCTION AND ITS EFFECT ON PLANT GROWTH.

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Abstract

Iron plays significant role in activation of enzymes, chlorophyll formation and carotenoid synthesis in plants. Red colour of chilli and Tomato is mainly due to carotenoid pigment. Direct. . Siderophore are low molecular weight compound which facilitate uptake of iron in plant. Siderophore are structurally and functionally diverse compounds. The objective of this study was to screen, and optimize Actinobacterial isolates for siderophore production and evaluate growth promotion by potential SPB (Siderophore producing bacteria) in Chilli (*Capsicum annum* L.) and tomato (*Solanum lycopersicum*) using pot study. Total of 33 isolates were screened for siderophore production by the universal Chrom Azurol Sulphonate assay (CAS). Quantitative analysis of siderophore was carried out using both CAS liquid assay as described by Payne, 1994 and iron perchlorate assay. Out of 33 isolates 11 isolate showed the production of siderophore. Quantitative estimation of a siderophore by (CAS) shuttle assay revealed the yield of more than 70% siderophore unit. Out of 11 isolates six Actinobacterial strains produced more than 100 µg siderophore in iron per chlorate assay. To investigate the response of siderophore rich isolates on growth parameters. Pot study was carried out using isolates showing higher siderophore production quantitatively. Six isolates were used for pot study. Pot study revealed significant increase in overall growth parameters by isolate A2 and H2 compared to control. These isolates could be the promising isolates for preparation of Fe fertilizer.

Index terms-Siderophore, Chilli, Tomato, CAS assay, Fertilizer

I INTRODUCTION

Siderophores are recognized as lower molecular weight, ferric ion specific chelating agents produced by bacteria and fungi especially when grown in low stress of ferric ion. The major function of these compounds is to search off the available iron from environment and to make them available as minerals to microbial cells. Since so many years, research is going on in this field and several aerobic and anaerobic microorganisms found to be synthesizing number of siderophores. Due to aerobic atmosphere on earth, surface iron has been converted to oxyhydroxide polymers of very sparing solubility. At neutral pH, concentration of free ferric ion has been dictated by solubility product constant of Ferric hydroxide. Based on value of this constant, the maximum amount of uncomplexed ferric ion in solution at any biological pH is certainly not more than 10^{-18} M [1]. Microorganisms consume vital iron under aerobic conditions for number of activities such as synthesis of ATP, formation of heme, reduction of ribonucleotide precursors of DNA, and others. Overall every cell requires at least one micromole iron for its optimum growth. With several environmental constraints and biological complexity, microorganisms receives that hydroxyl ion for ferric state of iron by producing some bio-molecules such as siderophore.

In recent time along with soil improvement, concept of phytoremediation also holds its potential *in situ* for the treatment of heavy metal contaminated soils. Presence of siderophore-producing bacteria (SPB) with plants are useful for metal removal from contaminated soils. Presence of metal resistant SPB assumes successful survival and linked growth of plants in heavily contaminated soils by alleviating the

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Innovations and Practices

Edited by

Prof. (Dr.) Omana Antony

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neither cater to the needs of the learners nor are they in a position to learn English language through regional metaphors and linguistic algorithms of their own. Curiously enough, such a dismal state of affairs persists despite the fact that there are renowned classics in the hitherto treasure trove of the IEL introduced as early as 1793 and developed thereafter with the passage of time. In its forthcoming paragraphs, this paper will attempt to explore the underlying agenda of present curricular politics and concerned pedagogical dichotomy evolved from within the prevalent educational system in India. Concurrently the author will propose some essential steps to get rid of the *status quo* and make learning more contextualized.

Growth of English Language in India

Since gradual decline of *Mughal* empire, and with simultaneous rise of British East India Company, the English language began to spread all over the country with the result that Portuguese, being another major foreign language in the then India due to traders from Portugal, was marginalized. This change had practical reasons to it, but was rather an outcome of political schema behind contest with another foreign language and methodical spread of English language in India. Quint essentially, therefore, the systematic spread of the English language in South Asian subcontinent with overt missionary patronage and covert governmental involvement seems more a political project rather than linguistic one. In general, there is a close nexus between language of politics and politics of language which is ubiquitous in India as well. In a nutshell, there is rationale to believe that triumph of English language over other regional languages in India is no default victory.

Current Status of the English Language in India

In spite of the political history that looms large at the backdrop of the spread of English language in India, the Constituent Assembly offered top priority to the language under Article 343 of the Constitution. Even thereafter, Parliament of India has chosen to continue similar