

SILICON TECHNOLOGY: AN INCREMENT IN YIELD AND NUTRIENT STATUS OF PLANTS

Neeru Jain, Sagar More and Anil Gawande

Privi Life Sciences Pvt. Ltd., Navi Mumbai, India. Email: neeru.jain@privi.co.in

Silicon has been treated as an forgotten mineral of immense importance for crop development. Its role has been indispensable in overall growth of plants, and this realization has elevated the status of Si and it is now considered as a beneficial element. **Ortho Silicic Acid (OSA)** is the only bio available form of Silicon and it is highly unstable in nature.

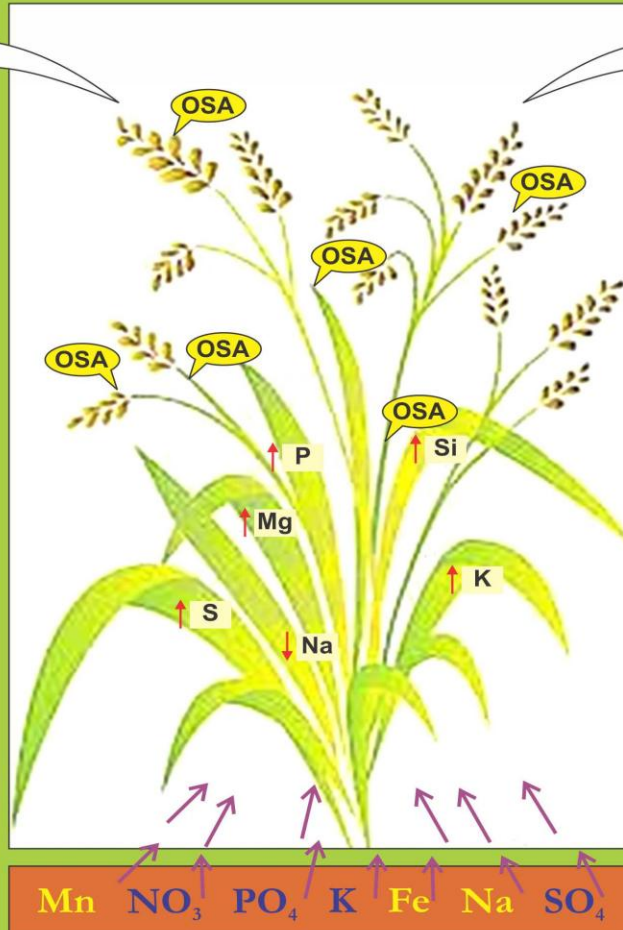
Rice is considered as a Silica loving crop and according to a study, rice plants removes almost twice amount of Si compared to Nitrogen from soil. This reflects the significance of Silicon in overall growth of rice plants.

We at **Privi Life Sciences Pvt Ltd**, are having a patented technology of stabilizing the OSA, so that it can be used efficiently by plants. OSA triggers a cascade of pathways which contributes to increased chlorophyll content, enhanced tolerance to prevalent abiotic stresses coupled with increased nutrient uptake from soil.

Laboratory Studies

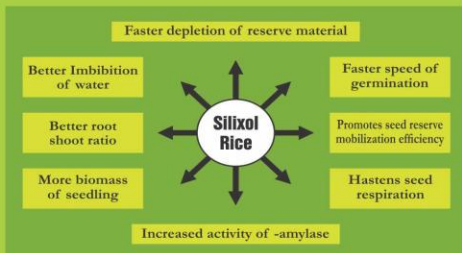


Field Studies



Nutrient Uptake (g/Kg)

	N	P	K	Ca	Mg	S	Si
Control	34	3.5	16	3.7	1.3	3.3	15
Sprayed	34	3.9	18	4.1	1.3	3.3	18



Stabilized OSA, a promising Step towards Sustainable Agriculture.

Ensures overall growth and development of crop with little additional inputs.

