

NPK (Nitrogen-Phosphorus-Potassium) is fundamental in plant growth, nutrition and development.

Nitrogen:

- Major component of amino acids, proteins, and chlorophyll,
- Essential for cell growth, energy transfer, and photosynthesis.
- Adequate nitrogen promotes vigorous foliage development and overall plant growth.

Phosphorus:

- Crucial for energy transfer and storage in the form of ATP (adenosine triphosphate), which drives many plant processes.
- Promotes strong root growth, flowering, and fruiting and is essential for the formation of DNA, RNA, and nucleic acids.

Potassium:

- Helps in regulating water uptake and loss by controlling stomatal openings, which affects transpiration and water use efficiency.
- Activates enzymes involved in photosynthesis, respiration, and protein synthesis
- Enhances the plant's ability to resist diseases and pests and improves overall plant health.

Brands that Saroja.earth can launch and market them as either “Superior Quality Fertiliser” or “Superior Quality Soil Additive”

Five Different Types of Soil Additives (PSB- Phosphate Solubilizing Bacteria, NFB- Nitrogen Fixing Bacteria, KSB- Potassium Solubilizing Bacteria)

No.	Aspect	Top Grade	Low Grade	P-Grade	K-Grade	N-Grade
1	Composition	Biochar:25%, Compost:40%, Mycorrhiza:10%, N:5%, P:5%, K:5% Micro-Nutrients:5% PSB:5%	Biochar:40%, Compost:50%, Mycorrhiza:10 %	Biochar:20%, Compost:40%, Mycorrhiza:10%, N:5%, P:5%, K:5% Micro-Nutrients:5% PSB:10%	Biochar: 20%, Compos t:40%, Myccorrh iz:10%, N:5%, P:5%, K:5% Micro- Nutrient s:5%	Biochar:20%, Compost:40%, Mycorrhiza:10%, N:5%, P:5%, K:5% Micro- Nutrients:5% KSB:10%

					NSB:10 %	
2	Cost (INR per kg)	Biochar: 12 Compost:5 Mycorrhiza:55 NPK: 30 Micro-nutrients:65 PSB:55	Biochar:12 Compost:5 Mycorrhiza:55	Biochar: 12 Compost:5 Mycorrhiza:55 NPK:30 Micro-nutrients:65 PSB:55	Biochar: 12 Compost:5 Mycorrhiza:55 NPK:30 Micro-nutrients:65 PSB:55	Biochar: 12 Compost:5 Mycorrhiza:55 NPK:30 Micro-nutrients:65 KSB:55
3	Links	Biochar: https://www.indiamart.com/eco-jeevan-bio-organics/?pid=21147062855&cid=99&mid=&pna=Biochar%20For%20Agriculture	Compost: https://www.indiamart.com/mgtraderschandigarh/?pid=26857899233&cid=99&mid=2728&pna=Agricultural%20Organic%20Vermicompost	Mycorrhiza: https://www.indiamart.com/agrilogybyioscienceindia/?pid=2851736576930&c_id=99&mid=156355&pna=Vesicular%20Arbuscular%20Mycorrhiza%20Granules	NPK: Sudershan Bio Crop Science Creative Unichem Private Limited	PSB: https://www.indiamart.com/romvijaybiotech/?pid=22989815897&c_id=99&mid=144417&pna=Phosphate%20Biofertilizer%20Plant%20Growth%20Promoter NFB: Bhola Agro Industries KSB: https://www.indiamart.com/romvijaybiotech/?pid=2989823133&c_id=99&mid=167324&pna=Potash%20Mobilizing%20Bacteria%20Bio%20Fertilizer%20Plant%20Growth%20Promoter

4	Total Cost (INR/kg)	222	72	222	267	222
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