

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%, Compost:40%, Mycorrhiza:10%, N:5%, P:5%, K:5% Micro-Nutrients: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-nutrient s:65 NFB:100	Biochar: 12 Compost:5 Mycorrhiza:55 NPK:30 Micro-nutrients:65 KSB:55
3	Links	Biochar: https://www.indiamart.com/ecojeevan-bio-organics/?pid=21147062855&c_id=99&mid=&pn=Biochar%20For%20Agriculture	Compost: https://www.indiamart.com/mgtraderschandigarh/?pid=26857899233&c_id=99&mid=2728&pn=Agricultural%20Organic%20Vermicompost	Mycorrhiza: https://www.indiamart.com/agrilogybioscienceindia/?pid=2851736576930&c_id=99&mid=156355&pn=Vesicular%20Arbuscular%20Mycorrhiza%20Granules	NPK: Sudershan Bio Crop Science Micro: Creative Unichem Private Limited	PSB: https://www.indiamart.com/romvijaybiootech/?pid=22989815897&c_id=99&mid=144417&pn=Phosphobacteria%20Biofertilizer%20Plant%20Growth%20Promoter NFB: Bhola Agro Industries KSB: https://www.indiamart.com/romvijaybiootech/?pid=22989823133&c_id=99&mid=167324&pn=Potash%20Mobilizing%20Bacteria%20Bio%20Fertilizer%20Plant%20Growth%20Promoter

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