



## ALTERNATIVE TO STUBBLE BURNING

A Novel Biotech Product By:



**Gujarat Life Sciences**

life sciences for better lives



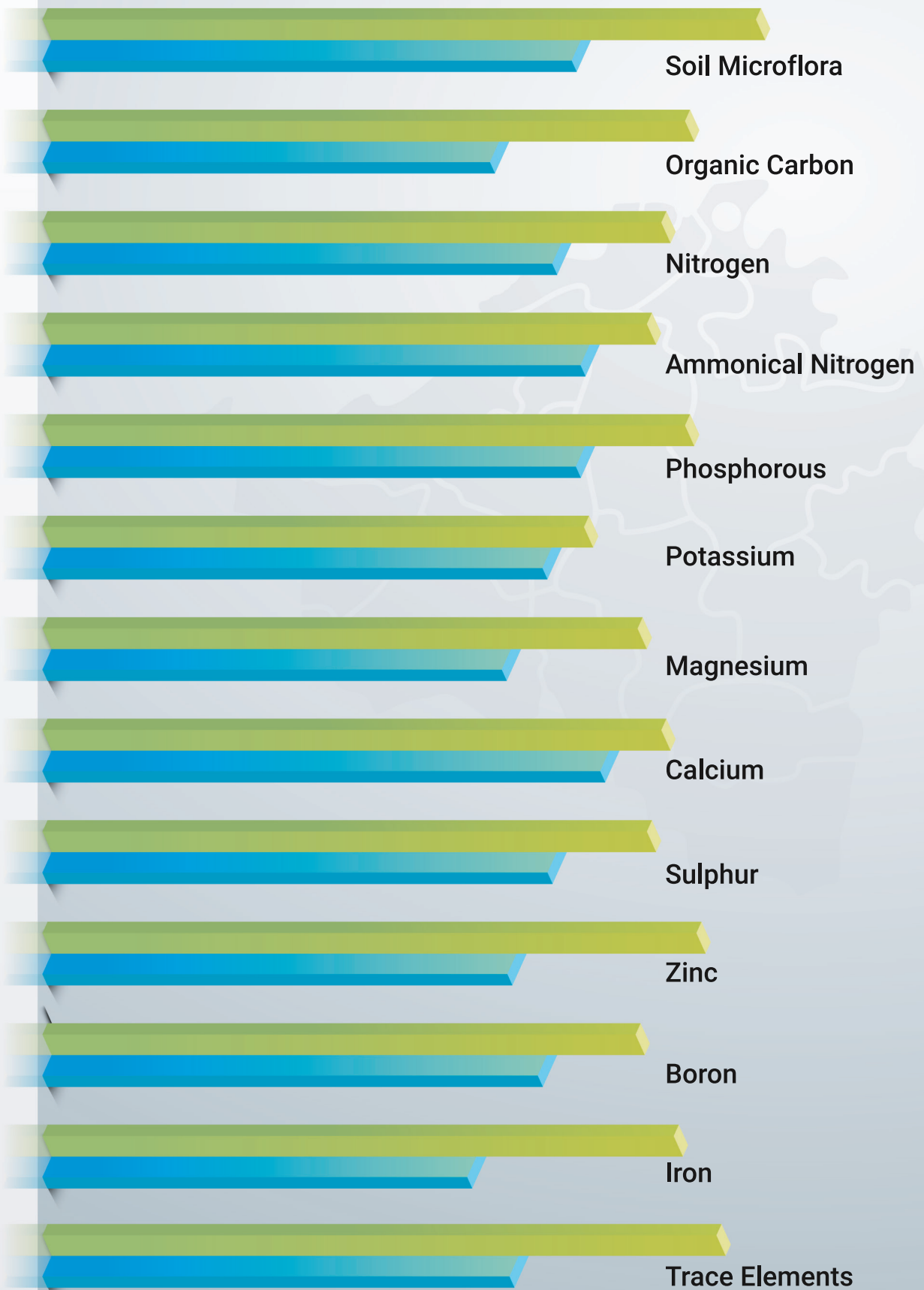
# ADVANTAGES OF MICROBIAL CONSORTIA RELIFE

- 1 *Highly efficient microbial and enzymatic action*
- 2 *Degrades over 72-85% trash/stubble in 12-15 days*
- 3 *Field can be ready for use in 2 weeks of application*
- 4 *Quickly breaks down lignin, cellulose, hemicellulose, pectin and all components to degrade trash*
- 5 *Works only on trash and no damage to living plant*
- 6 *Creates mulching, which helps to prevent weed growth, reduces water requirement and helps in stronger growth of the plants and crops*
- 7 *No need for high-cost machinery or burning*
- 8 *Increases soil fertility, microflora and enhances organic carbon*
- 9 *Provides diseases control and enhances root growth*
- 10 *Helps to increase production of crops*
- 11 *Farmer can reduce chemical and water input*
- 12 *100% organic and safer for environment, humans, plants, soil and animals*

# IMPROVEMENT OF SOIL QUALITY

Soil Analysis before Relife Treatment

Soil Analysis Post 45 days of Relife Treatment



Graph not to scale

# EFFECT OF RELIFE TREATMENT ON SOIL QUALITY

Parameters	Average Increase in %	Least Increase %	Most Increase %
Organic Carbon	63.7	17.5	144.0
Nitrate Nitrogen	162.2	37.7	371.5
Ammonical Nitrogen	136.5	62.8	318.3
Phosphorus	146.6	23.5	408.5
Potassium	81.0	32.7	153.3
Magnesium	69.6	32.9	126.9
Sulphur	84.5	24.3	398.2
Zinc	99.8	19.8	400.0
Boron	110.3	15.0	233.3
Iron	139.4	38.6	401.1
Bacterial count	21.0 times	12.4 times	33.6 times
Fungal count	22.6 times	10.2 times	45.0 times

# RELIFE

## OTHER MICROBIAL PRODUCTS

Finished liquid product – Easy to use.  
It is an already activated culture

Mostly inoculums in culture  
vials/bottles or tablet form that need  
to be prepared by farmers

Direct application in the field through  
regular pump and irrigation systems

Preparation of cultures are required in  
the field before use and also use of  
heavy machinery

Decomposing time is 12-15 days.  
Field is ready to use in less than 2  
weeks

Decomposing time is 25- 45 days

Along with degrading microbes,  
biofertilizers are present in the  
product

Only degrading microbes are present  
in the product

Large-scale availability of finished  
product

No mass manufacturing established

100% organic and certified product

Consistency in quality and quantity yet  
to be established

Over 3 years of consistent testing and  
successful results. Accepted by  
farmers who are willing to use this on  
regular basis

New products are still being tried.  
Farmer acceptability yet to be proven

# STEPS OF RELIFE APPLICATION



01



02



03



04



05



06