

LR AGRI-ORGANIC COMPOST

**A Comparative Study With Chemical,
Other Organic Farming & LR
MM(Mixed microbial) Technology**

S. N.	Particulars	Chemical farming	Other organic Farming	LR MM technology
1	Cost of production	Very High	normal	NPB PORTABLE GOBAR GAS SYTEM is Lower than normal & 100% subsidy by Guj. Govt. & Govt. of India up to 7000 Rs/Acre/Year
2.	Yield	Normal	normal	10% more every year if pop followed strictly.
3.	Soil fertily	Reduced day by day	Better slowly	Increased day by day, we propose to improve carbon to 2% & then start farming.
4.	Heavy metal status	More	Relatively normal	Detoxified absolutely in 1 year within permissible limits.
5.	Pesticides residues	More	Less	Detoxified absolutely in 1 years within permissible limits.
6	Quality of produced	Reduced	Better	Much better, free of pesticides & chemicals, Organic, Nutrative & Pranic Food.
7.	Shelf life of product Fertilizer	Normal	Better	2 to 2.5 yrs .
8.	No. of irrigation	More	Less	Lesser (as carbon improves the moisture holding capacity of soil increase)
9.	Soil porosity	Worse	Good	Best after 1 year
10	Use of pesticide	Compulsory	Optional	Not required after 1 year & we have Bio Pesticides.

11	Water treatment	Not possible	Not possible	Automatically while irrigation with our special cow culture.
12	Salinity	Increased	Remains	Break Down Effectively
13	Soil condition	Worse day by day	Betterment slowly	Best effectively
14	Soil fertility revival	Not possible	Could be in a period of 3-5 years	Within a period of 6-12 months only Biological health of soil improves.
15	Organic conversion	Chemical deposits /residues enhancing/crop	May be Possible but slowly in a longer period	Possible with surety in a very short period 1 year with no reduction in yield in 1st year
16	Utilization of the available useful macro & micro nutrients	Not possible	Slow process	Effectively at a very fast rate because of the activated biological break down & organic chelation
17	Organic certification of soil	Not possible	May be in 3-5 years	In a period of 12 months
18.	Power /electricity use	Higher	Less	Relatively very nominal required because biogas production could reduce the diesel & power consumption by more than 50% plus water consumption reduces due to soil moisture holding capacity.
19	Utilization of farm waste	No	Slow composting done but with uncontrolled microbial behaviour	Absolutely because any bio waste could be 100% utilized here & that too with essentially gram+ dominated microbial culture rapidly
20	Composting period	3-6 months	1-2 months	2-3 weeks only

21	Export quality	Not	with no guarantee	100% export quality
22	Desired food quality parameters	Not possible	Good	Best because of the heavy metal/pesticidal detoxification & higher Nutrition levels.
23	Effect on Water level of earth	Down	May be relatively better	Increased because of the salinity breakdown effectively & improved activated microbial population increase & improved capillary action
24	Organic carbon increase	Does not help	Slight betterment	0.5 to 3-4 % in 5 years
25	Package of practice	Chemical with side effect	Holistic with active gram positive microbes increase probability,with no side effect	Holistic & with active gram positive microbes increase with assurance , without any side effect
26	Possibility of the Sustainable agriculture	Not possible	Possible but Very long period	Pay back possible in very short period of 1-2 years only
27	Possibility of multiple cropping	Not possible	Possible but relatively less yield	Possible with better yield because of the better beneficial microbial population at rhizosphere level& with better availability of the macro & micro nutrient to the plants
28	Convenience of operation for different size of farm	Normal	Not so easy	Absolutely user friendly because our cultures could be used through drip/sprinklers easily
29	Manure preparation at farm	Not possible	Possible but handling difficult for bigger farm size	Easily possible because any bulk quantity could be produced by the EBC fermenter