



## **"Soil amendment by green supplement : Dry cowdung powder"**

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Soil is a heavenly resource, a living, breathing and ever changing dynamic ecosystem. Retrogression and degradation of soil system is the result of continuous encroachment done by global anthropogenic activities. Mother earth's monition has increased the local concern to explore solution for the healthy sustainability of soil.

At this hour of need it is crucial to regain the health of soil by utilizing eco-friendly solution and the promising one is Dry Cow Dung powder. Cow Dung is bio- organic, complex, polymorphic fecal matter of the bovine species, enriched with 'Humic acid' (HA), 'Fulvic Acid' etc. The HA in Cow Dung has been extracted using Neutralization Reaction and its presence is confirmed by comparing it with FTIR spectra of Std HA (IHSS).

Property of metal ion adsorption of Standard and Extracted HA has been confirmed using 'Tracer Technique'. Cow Dung is renewable, easy and freely available with least contaminants as the process of Humification takes place during drying stage hence speciation of any type is not required due to its Biological matrix. Any pre or post conditioning of cow dung powder is not required reducing undesired chemical sink in milieu. It will surely contribute in closing the natural nutrient cycle and increase the fertility as well as carbon pool of soil due to abundance of useful microflora. If compared to present day usage of synthetic and semi- synthetic products, employing Dry Cow Dung powder as agrarian booster will be surely a Green solution!

It's rightly said that "The nation which destroys its soil, destroys itself!", hence we need to pursue instant remedies to mitigate our self destruction because healthy soil is the only life line for Survival!