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RESEARCH PAPER

Influence of bio-fertilizer on morphology and yield of cowpea [*Vigna unguiculata* (L.) Walp]

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Abstract : A field experiment is carried out at agriculture field of Agriculture Research Station, Amaravathi to study the influence of different levels of Jeevamrutha, seaweed and KNF (Korean Natural Farming). The main concept of this research workis to apply a mineral source in the form of Korean Natural forming, involving the culturing of Indigenous Micro Organisms (IMO). KNF emphasizes self sufficiency by limiting externals inputs and relyingonre cycled farm waste to produce biologically active inputs. The application of this method has given more yield in cowpea.The results reveals that application of jeevamrutha at 1000 lha^{-1} 3% of sea weed *Sargassumswartzii* (SSE) and KNF at 5-3-2 nutriarichpellets, significantly influenced growth parameters like plant height, number of branches, number of leaves, number of pods per plant, length of pods, number of seeds per pod, seeds weight per plant and 100 seed weight.Application of KNF is more affective in producing higher grain yield in cowpea.

Key Words : Jeevamrutha, Sea weed, KNF, Cow pea, Height, Grain yield

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