

Disease Controller and Plant Growth Promoter for Paddy



By : Ms. Namita Ojha, West Midnapore, West Bengal

Innovation Description

Ms. Namita Ojha has developed this herbal practice for control of disease (leaf blight) and for promoting plant growth in paddy.

Targeted pest: Fungi (leaf blight)

Targeted crop: Paddy

Ingredients: 5 kg leaves of Neem (*Azadirachta indica* A.Juss.), 2 kg leaves of (*Vitex negundo* L.), 2 kg roots of *Aristolochia indica* L., 2 kg leaves of *Carica papaya* L., 2 kg leaves of Karanj (*Millettia pinnata* (L.) Panigrahi), 2 kg leaves of Castor (*Ricinus communis* L.), 2 kg leaves of Karabi (*Nerium oleander* L.), 2 kg leaves of *Calotropis gigantea* (L.) W.T.Aiton, 2 kg fruits of Chilli (*Capsicum annuum* L.), 250 g bulbs of Garlic (*Allium sativum* L.), 10 kg Cow dung.

Methodology: Mix all ingredients and keep in a close container for 15 days and stir it once everyday with a stick to eradicate bad smell of solution. After 15 days filter the formulation through a net and mix the total infusion with 200 L of water and spray in one acre land.

Suggested reading(s):

Chávez-Quintal, P., González-Flores, T., Rodríguez-Buenfil, I., & Gallegos-Tintoré, S. (2011). Antifungal activity in ethanolic extracts of *Carica papaya* L. cv. Maradol leaves and seeds. *Indian journal of microbiology*, 51(1), 54-60.

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Naz, R., & Bano, A. (2012). Antimicrobial potential of *Ricinus communis* leaf extracts in different solvents against

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Shamim, S., Ahmed, S. W., & Azhar, I. (2004). Antifungal activity of *Allium*, *Aloe*, and *Solanum* species. *Pharmaceutical biology*, 42(7), 491-498.

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