

Seed & Seed-bed Treatment of different Crops during Rabi Season

Sl. No.	Seeds of Crops/Status	Seed-dressing Fungicides & Insecticides	Dosages	Against following Diseases & Pests
A. i)	<u>Boro Paddy</u> Dry Seed	i) Carbendazim 50% WP ii) Tricyclazole iii) Mancozeb 75% iv) Carboxin 37.5%+ v) Thiram 50% WDP vi) Trichoderma viride vii) Trocjpder,a jazoami, viii) Pseudomonas fluorescence	2g/kg of Seed 2g/kg of Seed 2.5g/kg of Seed 2.5g/kg of Seed (4-5)g/kg of Seed (4-5)g/kg of Seed 5g/kg of Seed	Brown spot; Blast,False Smut, Kernal bunt, Foot BLB,BLS.
ii)	<u>Wet Seed</u>	i) Carboxin 37.5%+ Thiram 37.5% WS ii) Carnemdazo, 50% WP iii) Tricyclazole iv) Streptomycin sulphate+ Tetracycline hydrochloride	(2-3)g/1.5L of Water/kg of Seed For (15-20)minutes 2g/1.5 L of Water/kg of Seed for 8-10 hrs. 2g/1.5 L of Water/kg of Seed for 8-10 hrs 1g/10L of Water/ (6-7) kg of Seed for 30 minutes	Brown Spot, last,False Smut, Kernal bund, Foot Rot, Leaf Spot, BLB,BLS.
iii)	West Seed bed Treatment (Nursery treatment)	Nursery treatment should be done as a prophylactic measure, 7 days before of uprooting of seedlings from seed bed. Treatment with granular insecticides either by Carbofuran 3G, Phorate 10G, Cartap hydrochloride 4G @ 1.5 kg a.i. per hectare, i.e.; 2kg, 600 g and 1.5 kg respectively per 10 cents (0.04 Ha) of seed bed.		Yellow Stem borer, Gall midge, Leaf folder, rice hispa
B.	<u>Wheat</u>	1) Carboxin 75% WS 2) Carboxin 37.5 WS + Thiram 37.5 WS 3) Carbendazim 50% WP 4) Mancozeb 75% WP 5) Thiram 75% WDP 6) Tubuconazole 2% DS	2.5g/kg of Seed (2-3)g/kg of seed 2 g/kg of Seed 2.5g/kg of Seed 2.5g/kg of Seed 1/kg of Seed	Loose Smut, Karnal bunt, Leaf spot, leaf blight, leaf blotch, leaf rust.
C.	<u>Maize</u>	Captan 50% WDP Metalaxyl 35 WS Thiram 75% Trichoderma viride	2.5g/kg of Seed 05g/kg of Seed 2.5g/kg of Seed (4-5)g/kg of seed	Stripe Blight

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D.	<u>Rapeseed & Mustard</u>	Captan 50% WDP Mancozeb 75% WP Thiram 75% WDP Trichoderma viride Trichoderma harzianum	2.5g/kg of Seed 2.5g/kg of Seed 2.5g/kg of Seed 4-5g/kg of seed 4-5g/kg of seed	Alternaria, Downy mildew, White rust.
E.	<u>Groundnut + Sunflower</u>	Captan 50% WDP Carboxin 37.5 WS + Thiram 37.5 WS Carbendazim + Mancozeb Mancozeb 75% WP Zineb 75% WP Thiophanate methyl 50% WP Tebuconazole 2% DS Thiram 75% WP Trichoderma viride Trichoderma harzianum	2.5g/kg of Seed 2-3 g/kg of Seed 2.5g/kg of Seed 2.5g/kg of Seed 2.5g/kg of Seed 2g/kg of Seed 1g/kg of Seed 2.5g/kg of Seed 4-5g/kg of Seed 4-5g/kg of Seed	Collar rot, dry root rot, tikka, leaf spot
F.	<u>Pulses (Fungicide treatment should be done at least 7 days before of Rhizobium inoculation)</u>	Carbendazim 50% WP Captan 50% WDP Mancozeb 75% WP Thiram 75% WP Trichoderma viride Pseudomonas fluorescence	2g/kg of Seed 2.5g/kg of Seed 2.5g/kg of Seed 2.5g/kg of Seed 4-5g/kg of Seed 4-5g/kg of Seed	Blight, Collar rot, Bean mosaic, root Rot, powdery mildew
G.	<u>Potato Elephant Foot, Yam, Ginger, Arum</u>	*For seed-tuber treatment of potato, dip 100kg of seed potato tuber/50 L of water Methoxy Ethyl Mercury Chloride (MEMC)6% Mancozeb 75% WP Metalaxyl 35% WS Metalaxyl 8% WP + Mancozeb 64% WP Carbendazim 50% WP Carboxin 37.5% WS + Thiram 37.5 WS Streptomycin sulphate + Tetracycline hydrochlorid (9:1) Trichoderma viride Trichoderma harzianum	 2g/L of water for 1-2 minutes 2.5g/L of water for 10-15 minutes 0.5g/L of water for 5-10 minutes 2.5g/L of water for 5-10 minutes 2g/L of water for 5-10 minutes (2-3)g/L of water 1g/10L of water for 4-5 minutes 4-5g/L of water 4-5g/L of water	Late and early Blight - do - - do - - do - (Black scurf disease only) (Black scurf disease only) [only for Brown rot (Bacterial wilt) disease]

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H.	<u>Sugarcane</u>	Methoxyethyl Mercury Chloride 6% (MEMC) Carbendazim 50% WP Carbendazim + Mancozeb	2.5g/L of water for (250g/100 Litre) 2g/Kg of setts 2.5g/Kg of setts	Red rot, Whip Smut, Wilt etc.
I.	<u>Cotton</u>	Carbendazim 50% WP Captan 50% WDP Thiram 75% WP Trichoderma viride	2g/kg of seed 2.5g/kg of seed 2.5g/kg of seed 4-5g/kg of seed	Anthrachnose, Dry root rot, leaf spot, powdery mildew, Black arm, rust, Verticillum wilt, Damping off
j.	<u>Vegetables</u>	Carbendazim 50% WP Carbendazim + Mancozeb Captan 50% WDP Thiram 75% WP Trichoderma viride Pseudomonas fluorescence	2g/kg of seed 2.5g/kg of seed 2.5g/kg of seed 2.5g/kg of seed 4-5g/kg of seed 5g/kf of seed	Damping off, color rot, root Rot, Fusarium wilt, Bacterial Canker, leaf roll,die-bacnk fruit rot, Black rot, downy mildew
K.	<u>Potato</u>	Pencycuron 250 SC	2.5ml/L of water for 10 minute	Only for Black Scurf disease (as recommended by the Central Potato Research Institue, Simla)