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NATIONAL PLANT PROTECTION CENTRE
DEPARTMENT of AGRICULTURE
MINISTRY of AGRICULTURE & LIVESTOCK
SEMTOKHA



NPPC/ADM/16(b)/2023-2024/368

14th June 2024

To

1. Dzongkhag Agriculture Officers (Bumthang, Chhukha, Dagana, Gasa, Haa, Lhuentse, Mongar, Paro, Pemagatshel, Punakha, Sarpang, Samdrupjongkhar, Thimphu, Trashigang, Trongsa, Tsirang, Trashiyangtse, Wangdue, and Zhemgang)
2. Thrompons, Thimphu, Phuntsholing, Gelephu, and Samdrup Jongkhar Thromde
3. Director, Department of Forests and Park Services, Thimphu
4. Gyalsung Head Office, Thimphu
5. Desuung, Head Office, Thimphu
6. Tarayana Foundation Head Office, Thimphu
7. Program Director (NCOA Yusipang, ARDC Bajo, ARDC Samtenling, ARDC Wengkhar, National Seed Centre, Paro)
8. CEO, Mountain Hazelnut Venture Pvt. Ltd, Thimphu
9. CEO, FMCL, Paro
10. CEO, FCB, Phuntsholing
11. CEO, Fine Bhutan Wine Pvt. Ltd, Thimphu
12. Green Bhutan

Subject: Plant Protection Product (PPP) Demand for 2024-2025

Respected Sir/Madam,

The Centre would like to notify that the demand/indent collection for PPP for FY 2024-2025 is from June 20th to July 20th, 2024, exclusively through our PPP-IMS system (<https://pppims.nppc.gov.bt/>). All submissions must adhere to this deadline as the system will not accept late entries. Demands should realistically address insect pests, diseases, and weeds issues, and accordingly indent the quantity of PPP to avoid over or underestimation to ensure correct dosage of the PPP. Please do note that we will not accept any indent in hard copies and hence all indenting is to be done online.

Key points to note:

- Farms belonging to Gyalsung, Desuung, Forestry, and Tarayana Foundation should submit their indents to the nearest Gewog Agriculture Extension agent overseeing their respective locations.
- Thromde demands (farmers involved in farming but do not fall under gewog) should submit their indents with the nearest Gewog Agriculture Extension agent.

The Centre will notify all the concerned authorities/agencies as and when PPPs are made available from our suppliers. Please ensure to collect your products as per your demand/indent from the centre

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within the specified time. Note that all payments should be made online (Mbob) prior to your collection of the products. A list of PPP with their pack size, mode of action and target pests are attached for your reference.

Please ensure that the centre shall not entertain any walk in requests. All indents and collections of the PPP should be routed through the Dzongkhags and Gewogs.

Thanking you.

Yours sincerely,

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Program Director

Cc:

1. Director, DoA, MoAL for kind information
2. Chief APD, DoA, MoAL for kind information
3. Chief ARID, DoA, MoAL for kind information
4. PPP program, NPPC for further information and necessary action
5. Admin.Asst 1, NPPC for further information and necessary action
6. Office copy

List of Plant Protection Products for 2024-2025

Sl No	Pesticide Type	Pack Size	Unit	Mode of Action	Target Pest
A. Insecticides:					
1	Chlorantraniliprole 18.5% SC	30 ml	Liter	Systemic	Fall armyworm, rice ear cutting caterpillar, cutworms, pod borer, bollworm, fruit borer, stem borer, shoot borer, semi-loopers, leaf folders, diamondback moth, semi-looper, white grubs, aphids, mites, thrips, whiteflies, hoppers
2	Emamectin benzoate 5% SG	100 gm	Gram	Contact	Fall armyworm, rice ear cutting caterpillar, boll worms, fruit and shoot borer, diamondback moth, pod borer, thrips, mites, aphids, whiteflies, hoppers
3	Cypermethrin 10% EC	100 ml	Liter	Contact	Bollworms, aphids, diamondback moths, rice leafrollers, thrips, cutworms, hoppers, flea beetles, whiteflies
4	Malathion 50% EC	100 ml	Liter	Contact	Grasshoppers, locusts, crickets, thrips, aphids, hoppers, white flies, mealy bugs, scales, bugs, ants, beetles, weevils, leaf miners
5	Chlorpyrifos 20% EC	100 ml	Liter	Contact	Bollworms, aphids, cutworms, stem borer, gall midge, whiteflies (can be substituted with Cypermethrin 10% EC)
B. Fungicides					
1	Captan 50% WP	250 gm	Kg	Contact	damping-off, botrytis blossom blight, powdery mildew, anthracnose, rust, brown rots, early blight and late blight, apple scab, brown rot on peaches, black spot
2	Carbendazim 50% WP	250 gm	Kg	Systemic	leaf spot and rust of wheat and sheath blight, leaf scald and rice blast diseases of paddy.
3	Copper oxychloride 50% WP	100 gm	Kg	Contact	Scab, Anthracnose, Downy mildew, Early blight, and Late blight diseases of various crops
4	Hexaconazole 5% EC	100ml	Liter	Contact	Scab, blast, sheath blight, leaf spot, powdery mildew
5	Mancozeb 75% WP	250 gm	Kg	Contact	Black & Yellow rust, Downy Mildew, Early & Late blight, Buck eye rot, Leaf spot.
6	Tricyclazole 75% WP	100 gm	Kg	Contact	Rice blast, blight
7	Sulphur 80% WP	250 gm	Kg	Contact	Powdery mildew, rust, leaf spot
8	Propiconazole 25% EC	100 ml	Liter	Contact	Turicum leaf blight and Gray leaf spot in Maize
9	Copper sulphate	250 gm	Kg	Contact	To prepare bordeaux mixture
10	Potassium phosphite qd/,	250 or 350 gram	Kg	Systemic	Late blight of Potato, Chili blight, Downy mildew, Powdery mildew, Root rot diseases, Bacterial blight, Garlic rust. Apple scab

C. Herbicides					
1	Butachlor 5% G	10 kg	Kg	Systemic	Barryardgrass (Echinochloa crus-galli), Jungle rice (Echinochloa colona), Goosegrass (Eleusine indica), Crabgrass (Digitaria spp.), Flat sedge (Cyperus iria), Purple nutsedge (Cyperus rotundus)
2	Metribuzin 70% WP	250 gm	Kg	Systemic	pigweed (Amaranthus spp.), chickweed (Stellaria media), Shepherd's purse (Capsella bursa-pastoris), white goosefoot (Chenopodium album), Gallant soldier (Galinsoga parviflora), Shaggy soldier (Galinsoga quadriradiata), bermuda grass (Cynodon dactylon), crabgrass (Digitaria ciliaris.), Persicaria spp.,
3	Ethoxysulfuron 15% WDG	50 gm	Kg	Systemic	Shoohum (Potamogeton distinctus), Pontederia vaginalis, Cyperus spp., Eclipta alba, Schoenoplectiella juncooides
D. Biopesticides/pheromones					
1	Neem oil (Azadirachtin 10,000 ppm)	100 ml	Liter	Contact	Whiteflies, thrips, caterpillars, aphids, mealybugs, spider mites, and immature scales
2	Horticultural mineral oil	1 litre	Liter	Contact	Scales, mites, thrips
3	Sticker	250 ml	Liter	Adhesion, and retention of pesticide	Facilitate the easier spread and prolonged adherence of pesticides to plant parts. By reducing the surface tension of the pesticide solution, these adjuvants enable the pesticide to form a uniform film on the plant surfaces, improving its coverage and ensuring it remains effective for an extended period
4	Coco trap	No	No	Trap	To trap Red palm weevil in Arecanut and Coconut
5	McPhail trap	No	No	Trap	To be used with Mango fruit fly lure to trap Fruit flies in Mango and Peach
6	Funnel trap	No	No	Trap	To trap chilli pod borer, Rice ear cutting caterpillar and Fall Army worm moths
7	Steiner trap	No	No	Trap	To be used with Mango fruit fly Lure to trap Fruit flies in Mango and Peach
8	Chili pod borer (<i>Helicoverpa armigera</i>) lure	No	No	Attractant	Used with funnel trap to attract chilli pod borer moth
9	Rice ear-cutting caterpillar (<i>Mythimna separata</i>) lure	No	No	Attractant	Used with funnel trap to attract rice ear cutting caterpillar
10	Red palm weevil (<i>Rhynchophorus ferrugineus</i>) lure	No	No	Attractant	Used with Coco trap to attract red palm weevil
11	Fall army worm (<i>Spodoptera frugiperda</i>) lure	No	No	Attractant	Used with funnel trap to attract fall army worm moth
12	Mango fruit fly (<i>Bactrocera dorsalis</i>) lure	No	No	Attractant	Used with either Mcphail/steiner trap to attract fruit flies in Mango and Peach
13	Sticky trap	No	No	Trap	To trap Thrips and mites
14	Super grain bag	No	No	Bag	Protect cereals and seeds from storage pests

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15	Protein hydrolysate	1 kg	kg	Attractant	To be used as bait spray (any insecticide + protein hydrolysate) to attract citrus fruit fly
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