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



NPPC/ADM-12/2026-2027/07

14 July, 2026

Distribution List

1. Dzongkhag Agriculture Officers, Bumthang, Chhukha, Dagana, Gasa, Haa, Lhuentse, Mongar, Paro, Pemagatshel, Punakha, Sarpang, Samtse, Samdrup Jongkhar, Thimphu, Trashigang, Trongsa, Tsirang, Trashiyangtse, Wangdue Phodrang, and Zhemgang Dzongkhags
2. Thrompons, Thimphu, Phuntsholing, and Samdrup Jongkhar Thromdes
3. Director, Department of Forests and Park Services, Thimphu
4. Head, Gyalsung Headquarters, Thimphu
5. Head, De-suung Headquarters, Thimphu
6. Executive Director, Tarayana Foundation, Thimphu
7. Programme Directors, National Centre for Organic Agriculture (Yusipang), ARDC Bajo, ARDC Samtenling, ARDC Wengkhar, and National Seed Centre, Paro
8. Chief Executive Officer, Mountain Hazelnut Venture Pvt. Ltd., Thimphu
9. Chief Executive Officer, Farm Machinery Corporation Limited (FMCL), Paro
10. Chief Executive Officer, Food Corporation of Bhutan Limited (FCBL), Phuntsholing
11. Chief Executive Officer, Fine Bhutan Wine Pvt. Ltd., Thimphu
12. Chief Executive Officer, Green Bhutan Corporation Limited
13. Chief Executive Officer, Bhutan Livestock Development Corporation Limited
14. Project director, RNR Jobs project, PPD, MoAL, Thimphu
15. Project director, GEF 8 project, ARDC Wengkhar, Mongar

Subject: Notification on the Submission Deadline for Plant Protection Products (PPPs) Demand for FY 2026–2027

Dear Sir/Madam,

The National Plant Protection Centre (NPPC) hereby notifies all concerned agencies that the demand (indent) collection for Plant Protection Products (PPPs) for FY 2026–2027 will remain open until **14 August 2026**. All agencies are requested to submit their indents through the Plant Protection Products Inventory Management System (PPP-IMS) at <https://pppims.nppc.gov.bt> within the stipulated deadline. The PPP-IMS will automatically close after the deadline, and late submissions will not be accepted.

All agencies are requested to assess their PPPs based on the anticipated incidence of insect pests, diseases, and weeds, and submit realistic demand estimates to avoid over- or under-procurement. Further, to support sustainable pest management and minimize the risk of pesticide resistance development, agencies are requested to ensure the rotation of PPPs with different modes of action and avoid repeated use of the same active ingredients.



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The following points should be noted:

- Farms under Gyalsung, De-suung, the Department of Forests and Park Services, and the Tarayana Foundation shall submit their PPP demands through the nearest Gewog Agriculture Extension Office responsible for their respective locations.
- Farmers within Thromdes who are not covered by a Gewog shall also submit their demands through the nearest Gewog Agriculture Extension Office.
- Gewog Agriculture Extension Officers shall facilitate the collection and consolidation of demands for Butachlor 5G from their respective ASSR.

The Centre will notify all concerned agencies once the Plant Protection Products become available for distribution. All indents and subsequent distribution of PPPs shall be routed through the respective Dzongkhag and Gewog Agriculture Offices.

A list of Plant Protection Products, including their pack sizes, modes of action, and target pests, is enclosed for reference.

The National Plant Protection Centre appreciates your continued cooperation and requests your support in ensuring timely submission of the PPPs demand.

Yours sincerely,

Yeshey Dema
Programme Director

Copy to:

1. Director, Department of Agriculture, MoAL for kind information
2. Chief, APD, DoA, MoAL for kind information
3. Chief, ARID, DoA, MoAL or kind information
4. PP program, NPPC for information and necessary action
5. Administrative assistant, NPPC for information and necessary action
6. Office Copy for record

List of Plant Protection Products, Semiochemicals, Traps, and Post-Harvest Protection Technologies for FY 2026-2027

Category	Product Name	Pack Size	Mode of Action	Target Pest/Disease/Weeds	Product Rate/Acre	Dose per L	Pesticide Group	WHO Hazard Class	IRAC/FRAC/HRAC Class
Insecticide	Chlorpyrifos 20% EC	100 ml	Contact, and stomach	Soil insects, caterpillars, termites, borers	400–600 ml	4 ml/L	Organophosphate	Class II	IRAC 1B
Insecticide	Cypermethrin 10% EC	100 ml	Contact & stomach	Aphids, caterpillars, beetles, leaf feeders	200 ml	1 ml/L	Pyrethroid	Class II	IRAC 3A
Insecticide	Malathion 50% EC	100 ml	Contact, and stomach	Aphids, fruit flies, sucking insects	400 ml	2 ml/L	Organophosphate	Class III	IRAC 1B
Insecticide	Chlorantraniliprole 18.5% SC	30 ml	Systemic & ingestion	Caterpillars, borers, fall armyworm	60 ml	0.3 ml/L	Diamide	Class U	IRAC 28
Insecticide	Emamectin Benzoate 5% SG	50 g	Contact & stomach	Caterpillars, fruit borers, leaf folders, fall armyworm	80–100 g	0.2 g/L	Avermectin	Class II	IRAC 6
Fungicide	Captan 50% WP	250 g	Contact	Fruit rots, leaf spots, damping-off	400 g	2 g/L	Phthalimide	Class U	FRAC M04
Fungicide	Carbendazim 50% WP	250 g	Systemic	Anthraxnose, powdery mildew, leaf spots	200 g	1 g/L	Benzimidazole	Class U	FRAC 1
Fungicide	Copper Oxchloride 50% WP	500 g	Contact	Blights, cankers, bacterial leaf spots	200 g	1 g/L	Copper	Class U	FRAC M01
Fungicide	Hexaconazole 5% EC	100 ml	Systemic	Powdery mildew, rusts, leaf spots	200 ml	1 ml/L	Triazole	Class III	FRAC 3
Fungicide	Mancozeb 75% WP	250 g	Contact	Early blight, late blight, downy mildew	400 g	2 g/L	Dithiocarbamate	Class U	FRAC M03
Fungicide	Sulphur 80% WP	250 g	Contact	Powdery mildew, mites	400 g	2 g/L	Inorganic sulphur	Class U	FRAC M02
Fungicide	Tricyclazole 75% WP	250 g	Systemic	Rice blast	400 g	2 g/L	Melanin biosynthesis inhibitor	Class U	FRAC 16.1
Fungicide	Propiconazole 25% EC	100 ml	Systemic	Rusts, leaf spots, powdery mildew	200 ml	1 ml/L	Triazole	Class III	FRAC 3
Fungicide	Copper Sulphate WP	500 g	Contact	Fungal and bacterial diseases (Bordeaux mixture)	200 g	1 g/L	Copper	Class II	FRAC M01
Fungicide	Potassium Phosphite	250 g	Systemic	Phytophthora, downy mildew, root rot	400 g	2 g/L	Phosphonate	Class U	FRAC P07
Herbicide	Metribuzin 70% WP	250 g	Systemic	Broadleaf weeds and grasses	200 g	1 g/L	Triazinone	Class III	HRAC 5
Herbicide	Ethoxysulfuron 15% WDG	50 g	Systemic	Sedges and broadleaf weeds in rice	40 g	1 g/5 L	Sulfonylurea	Class III	HRAC 2
Herbicide	Butachlor 5% G	10 kg	Systemic	Annual grasses and broadleaf weeds in rice	10–12 kg	N/A	Chloroacetamide	Class III	HRAC 15
Bio-pesticide	Azadirachtin 10,000 ppm (Neem Oil)	100 ml	Contact & antifeedant	Aphids, whiteflies, caterpillars, sucking pests	1 L	5 ml/L	Botanical insecticide	Class U	IRAC UN
Horticultural Oil	Horticultural Mineral Oil	1 L	Contact	Scale insects, mites, aphids, mealybugs	N/A	30 ml/L	Petroleum oil	Class U	IRAC UNM
Adjuvant	Sticker / Activator / Spreader	250 ml	Improves adhesion and spray coverage	Enhances pesticide efficacy	N/A	1 ml/L	Adjuvant	Not Classified	N/A
Pheromone Lure	Rice Ear-cutting Caterpillar (<i>Mythimna separata</i>) Lure	Number	Semiochemical	Rice ear-cutting caterpillar	5 traps/acre	N/A	Semiochemical	Not Classified	Behaviour modifier
Pheromone Lure	Chili Pod Borer (<i>Helicoverpa armigera</i>) Lure	Number	Semiochemical	Chili pod borer	5 traps/acre	N/A	Semiochemical	Not Classified	Behaviour modifier
Pheromone Lure	Fall Armyworm (<i>Spodoptera frugiperda</i>) Lure	Number	Semiochemical	Fall armyworm	5 traps/acre	N/A	Semiochemical	Not Classified	Behaviour modifier
Pheromone Lure	Mango Fruit Fly (<i>Bactrocera dorsalis</i>) Lure	Number	Semiochemical	Mango fruit fly	5 traps/acre	N/A	Semiochemical	Not Classified	Behaviour modifier
Pheromone Lure	Potato Tuber Moth (<i>Phthorimaea operculella</i>) Lure	No	Attractant	Potato tuber moth	5 number/acre	N/A	Semiochemical	Not Classified	Behaviour modifier
Pheromone Lure	Cucurbit Fruit Fly (<i>Zeugodacus cucurbitae</i>) Lure (Cue-lure)	No	Attractant	fruit fly in cucumber, pumpkin, squash and other cucurbit crops	5 number/acre	N/A	Semiochemical	Not Classified	Behaviour modifier
Pheromone Lure	Diamondback Moth (<i>Plutella xylostella</i>) Lure	No	Attractant	Diamondback moth in cabbage	5 number/acre	N/A	Semiochemical	Not Classified	Behaviour modifier
Pheromone Lure	Red Palm Weevil (<i>Rhynchophorus ferrugineus</i>) Lure	Number	Semiochemical	Red palm weevil	5 traps/acre	N/A	Semiochemical	Not Classified	Behaviour modifier
Attractant	Protein Hydrolysate	Number	Feeding attractant	Fruit flies and other bait-responsive insects	N/A	N/A	Attractant	Not Classified	N/A
Trap	Coco Trap	Number	Physical trap	Red palm weevil	5 traps/acre	N/A	Physical trap	Not Classified	N/A
Trap	McPhail Trap	Number	Physical trap	Fruit flies	5 traps/acre	N/A	Physical trap	Not Classified	N/A
Trap	Funnel Trap	Number	Physical trap	Moths and beetle pests	5 traps/acre	N/A	Physical trap	Not Classified	N/A
Trap	Steiner Trap	Number	Physical trap	Fruit flies	5 traps/acre	N/A	Physical trap	Not Classified	N/A
Trap	Sticky Trap	Number	Physical trap	Whiteflies, aphids, leaf miners, thrips	5 traps/acre	N/A	Physical trap	Not Classified	N/A
Post-harvest Protection	Super Grain Bag	Number	Hermetic storage	Storage pests (grain protection)	N/A	N/A	Storage technology	Not Classified	N/A