

F. NO. 04-07/2024-CIR-Iभारत सरकार/**Government of India**कृषि एवं किसान कल्याण मंत्रालय/**Ministry of Agriculture & Farmers Welfare**
कृषि एवं किसान कल्याण विभाग/**Department of Agriculture & Farmers Welfare**

वनस्पति संरक्षण, संगरोध एवं संग्रह निदेशालय

DIRECTORATE OF PLANT PROTECTION, QUARANTINE & STORAGE

केंद्रीय कीटनाशी बोर्ड एवम पंजीकरण समिति

Central Insecticides Board and Registration Committee

एन. एच. 4, फरीदाबाद (हरियाणा)-121001

N.H. IV, FARIDABAD (HARYANA)-121001

Dated: 23rd September, 2024

PUBLIC NOTICE**Subject: Follow up action of decision of Registration Committee regarding crop grouping proposal for its review and implementation-reg.**

Reference is invited to the decision taken by the Registration Committee vide Agenda item No. 10.52 in its 458th meeting held on 14.08.2024 and 23.08.2024 which is reproduced below:-

RC examined the Report of the Sub-Committee constituted under ADG(PP), ICAR to finalize the Crop Groupings as per the CODEX Principles. The Report submitted by the sub-committee was duly appreciated for the efforts made to finalize the recommendations. After detailed deliberations, RC accepted the Report and directed the Secretariat of CIB&RC to upload the Report on the website for 60 days to receive the comments, if any, from diverse stakeholders. RC also observed that as the matter involves fixation of MRLs, the endorsement of the Report on Crop Groupings from the FSSAI, Ministry of Health and Family Welfare, will be necessary and hence, the Report along with request letter may be forwarded to the FSSAI for obtaining endorsement/comments and the same is also to be uploaded on website to obtain comments from stakeholders. Comments from FSSAI and the stakeholders to be obtained within 60 days. (Annexure 10.52.1)

2. The above decision of RC is brought to the notice of all stakeholders and it is requested to submit views/comments through e-mail at sonai.rajana@gov.in and cc to cibsecy@nic.in within 60 days of uploading of the public notice on the official website of this Secretariat.

This issues with the approval of Secretary (CIB&RC).

Signed by Govind Ram

Date: 23-09-2024 13:29:58

(Govind Ram)

Senior Administrative Officer

Copy to:

1. All Registered Pesticide Associations

2. Chairman, Registration Committee
3. PS to JS (PP), DA&FW, Krishi Bhawan, New Delhi
4. PPS to PPA, Dte. of PPQ&S, NH-IV, Faridabad
5. PPS to Secretary (CIB&RC), NH-IV, Faridabad
6. IT Cell, HQ, Faridabad for uploading the same on the website.

Report of the sub-committee on implementation of crop grouping principles for extending label claims under the chairpersonship of Dr. S.C.Dupey, Former ADG(PP&B), ICAR

Representative Crop Group of Various Crop Commodity Groups

Crop Type 01 – Fruits

Crop code (Group/ Sub-group)	Crop group	Representative crop	Commodities
Group 001 (FC)	Citrus fruits		
Subgroup 001A	Lemons and Limes	Lemon	Citron; Kaffir Lime; Lemon; Lime; Lime, Sweet; Limequats; Mexican lime, Rough Lemon
Subgroup 001B	Mandarins	<i>Mandarins or Orange (sour or sweet)</i>	Mandarin, Mediterranean mandarin, Willow leaf mandarin, Kinnow*
Subgroup 001C	Oranges, Sweet, Sour		Orange Sour; Orange, Sweet; Indian wild orange; Golden Lime
Subgroup 001D	Pummelos	Pummelos or Grapefruit (<i>Chakotara</i>)	Grapefruit; Pummelo; Tangelo
Group 002 (FP)	Pome fruits		
Subgroup002A	Pomes	Apple or pear	Apple; Crab-apple; Loquat; Medlar; Pear; Quince
Group 003 (FS)	Stone fruits		
Subgroup 003A	Cherry	Cherry (sweet or sour)	Cherry black; Cherry Nanking; Cherry Sour; Cherry Sweet; Spanish cherry/ Maulsari
Subgroup 003B	Plums	Plum	Bullace; Cherry plum; Jujube Chinese; Plum, Plum beach; Prune Plum; Ramontchi, Governor's plum; Indian plum
Subgroup 003C	Peaches	Peach or Apricot	Apricot; Japanese apricot; Nectarine; Peach
Group 004 (FB)	Berries and other small fruits		
Subgroup 004A	Cane berries	Blackberry or Raspberry	Cane berries; Blackberries; Raspberries (Red, Black, yellow), Rose leaf bramble; <i>Rubus cooperi</i> ; <i>Rubus polyodontus</i> Hand; Rubus quinquefoliolatus; Yellow Himalayan raspberry; West Indian raspberry; Stone bramble
Subgroup 004B	Bush berries	Gooseberry	Gooseberry; European barberry

Subgroup 004C	Large shrub / berries	Mulberries or Phalsa	Mulberries; Phalsa;
Subgroup 004D	Small fruit vine climbing	Grapes	Grapes, Table grapes; Wine grapes
Subgroup 004E	Low growing berries	Strawberry	Strawberry; Strawberries, Wild; Mock strawberry / Indian strawberry
Group 005	Assorted tropical and sub-tropical fruits – edible peel		
Subgroup 005A	Assorted tropical and sub-tropical fruits - edible peel – small	Olives	Almondette, Arbados cherry; Carandas-plum; Ceylon iron wood; Ceylon olive; Chinese olive, Chirauli-nut; False sandalwood; Gooseberry; Abyssinian; Ceylon; Fragrant Manjack; Hog plum; Illawarra plum; Jamaica cherry; Jambolan; Java apple; Karanda; Kapundung; Otaheite gooseberry; Rumbery; Sea grape; Surinam cherry; Table olives; Black Dammar; Mootikaya
Subgroup 005B	Assorted tropical and sub-tropical fruits - edible peel – medium to large	Guava or Indian (<i>Ber</i>)	Ambarella; Bilimbi; Carambola; Carob; Cashew apple, Fig, Gooseberry Indian, Guava, Guava Brazilian; Jujube Indian (<i>Ber</i>); Mombin Malayan, Monkeyfruit; <i>Noni</i> ; Pomerac; Rose apple; Sentul
Subgroup 005C	Assorted tropical and sub-tropical fruits - edible peel – palms	Date	Date; Doum or Dum palm, Jelly palm; Desert date
Group 006 (FI)	Assorted tropical and sub-tropical fruits - inedible peel		
Subgroup 006A	Assorted tropical and sub-tropical fruits - inedible peel – small	Litchi	Bael fruit; Litchi; Longan; Madras-thorn; Mesquite; Tamarind (sweet varieties); Wampi; Burmese grape*
Subgroup 006B	Assorted tropical and sub-tropical fruits - inedible smooth peel - large	Mango or banana	Avocado; Banana; Cacao; <i>Kokam</i> , Langsat; Mango, Mangosteen; Papaya; Pomegranate; Sataw Tamarillo
Subgroup 006C	Assorted tropical and sub-tropical fruits - inedible rough or hairy	Pineapple or Sapota	Breadfruit; Champedak; Custard Apple; Durian; Elephant apple; Jackfruit; Monkey-bread tree; Pineapple; Rambutan; Sugar apple; Sapota (Sapodilla)

	peel - large		
Subgroup 006D	Assorted tropical and sub-tropical fruits - inedible peel - cactus	Prickly pear or Dragon fruit	Prickly pear, Dragon fruit

Crop code (Group/ Sub-group)	Crop group	Representative crop	Commodities
Subgroup 006E	Assorted tropical and sub-tropical fruits - inedible peel - vines	Kiwifruit or Passion fruit	Granadilla Giant; Kiwifruit; Passion fruit
Subgroup 006F	Assorted tropical and sub-tropical fruits - inedible peel – Tropical palm fruits	Coconut (Tender and mature)	Coconut; Muriti; Palmyra Palm

Crop Type 02 – Vegetables

Crop code (Group/ Sub-group)	Crop group	Representative crop	Commodities
Group 009 (VA)	Bulb vegetables		
Subgroup 009A	Bulb Onions	Onion	Daylilly; Garlic; Great-headed Garlic; Lily; Onion Bulb; Shallot; Silverskin onion
Subgroup 009B	Green Onions	Green (spring) onion	Leek; Pearl onion ; Spring onion
Group 010 (VB)	Brassica vegetables		
Subgroup 10A	Flower head Brassicas	Cauliflower or Broccoli	Broccoli; Cauliflower
Subgroup 10B	Head Brassicas	Cabbage	Cabbages head; Brussels sprouts
Subgroup 10C	Stem Brassicas	Kohlrabi (Knolkhol)	Kohlrabi (Knolkhol); Stem mustard

Group011 (VC)	Fruiting vegetables, Cucurbits		
Subgroup 11A	Fruiting vegetables, Cucurbits – Cucumbers and Summer squashes	Cucumber and gourd (Bitter gourds or bottle gourd)	Balsam apple; Bitter gourd (Bitter melon); Ridge gourd; Bottle gourd; Cucumber; Casaba or Casaba melon; Chayote; Chieh qua, Citron melon; Courgette (Zucchini) ; Cushaws (<i>Cucubita mixta</i>); Cucumber; Gac; Gherkin; West Indian Gherkin; Gourd; Bitter snake Gourd; buffalo Gourd; Malabar Gourd; Pointed Gourd; Round gourd; Ivy gourd; Loofah; Angled; Loofah Smooth; Snake gourd; Summer Squash; Spine gourd /Kankoda//Katole
Subgroup 11B	Fruiting vegetables, Cucurbits – Melons, Pumpkins and Winter squash	Melon (musk melon)	Cantaloupe; Casaba melon; Melons; Muskmelon; Serpent Melon (Kakri); Watermelon; Butternut squash; Cheese pumpkin; Cushaws (<i>Cucurbita argyrosperma</i>); Giant pumpkin; Hubbard squash; Indian round gourd; Pumpkins; Wax gourd; Winter squash, Ash Gourd
Group 012 (VO)	Fruiting vegetables, other than Cucurbits		
Subgroup 12A	Tomatoes	Tomato	Tomato; Bush tomato; Cherry tomato; Cocona; Currant tomato; Garden huckleberry; Goji berry; Ground cherries; Strawberry tomato; Sunberry; Tomatillo
Subgroup 12B	Pepper and pepper-like commodities	Okra and Chilli Pepper	Bird chili peppers; Cherry Martynia; Okra; Peppers ; Chili Peppers; Sweet peppers (Bell pepper); Long peppers; Roselle
Subgroup 12C	Eggplant and eggplant-like commodities	Eggplant (Brinjal)	Eggplant; Pea Eggplant; Pepino; Tree melon; Aubergine
Group 013 (VL)	Leafy vegetables (including Brassica leafy vegetables)		
Subgroup 013A	Leafy greens	Spinach <i>or</i> Lettuce	African Eggplant leaves; Amaranth leaves; Aster Indian; Ayoyo; Barley shoot; Bitter leaf; Blackjack; Cat's Whiskers; Chamsuk; Chicory leaves; Chili pepper leaves; Chrysanthemum edible leaves; Common bean leaves; Cowpea leaves; Dandelion; Daylily leaves; Ebolo; Fame flower; Feather cockscomb; Glasswort common; Gomchwi;

			Goosefoot leaves; Jute; Lettuce bitter; Lettuce Head; Lettuce Leaf; Mallow leaves; Peanut leaves; Perilla leaves; Plantain leaves; Purslane; Purslane Winter; Sanmaneul leaves; Sowthistle; Soya bean leaves; Spinach; Spinach Indian; Violet Chinese
Subgroup 013B	Brassica Leafy vegetables	Mustard greens	Chinese cabbage (type Pak-choi); Cress Garden; Cress upland; Flowering white cabbage; Hanover salad; Kale; Kohlrabi leaves; Leaf mustard; Mustard greens; Mustard (tuberous rooted, Chinese); Purple-stem mustard; Rape greens; Radish leaves; Rucola; Turnip greens
Subgroup 013C	Leaves of root and tuber vegetables	Sweet Potato leaves or Taro (Arbi) leaves	Arrowroot leaves; Cassava leaves; Sweet potato; leaves; Taro leaves; Beet leaves (<i>chard</i>)
Subgroup 013D	Leaves of trees, shrubs and vines	Roselle leaf or Grape leaves <i>or Moringa leaves</i>	<i>Acacia</i> shoots; Moringa leaves; Grape leaves; Monkey-bread tree leaves; Papaya leaves; Roselle leaves; White lead tree
Subgroup 013E	Leafy aquatic vegetables	Kangkung (water spinach)	Kangkung; Watercress; Water mimosa
Subgroup 013 F	Witloof	Witloof chicory (sprouts)	Witloof chicory (sprouts)
Subgroup 013G	Leaves of Cucurbit crops	Pumpkin leaves	Balsam pear leaves; Chayote leaves; Ivy gourd; <i>Kahurura</i> ; Pumpkin leaves
Subgroup 013H	Young leaves	Leaf lettuce or any crop intended to use as baby leaves, (harvested up to 8 true leaf stage)	Leaves of crops under use as commodity (these are not often traded and so need not be under consideration at present; however, as and when arising, such relevant commodity can be viewed by competent agency for the purpose of fixing MRL value.
Subgroup 013 I	Sprouts	Mungbean sprouts or chickpea sprouts or soybean sprouts	Alfalfa sprouts, Mungbean sprouts, Radish sprouts, Soybean sprouts, chickpea sprouts
Group 014 (VP)	Legume vegetables		

Subgroup 014A	Beans with pods	French bean (Common bean) or Cowpea or Urd Bean or Mung Bean	Broad bean; Catjang; Common bean / French bean/ <i>Phaseolus vulgaris</i> ; Cowpea; Goa bean; Cluster bean (<i>Guar</i>); Jack bean; Lablab bean; Moth Mung bean; Rice bean; Scarlet runner bean; Soybean; Stink bean; Sword bean; Urd bean; Winged pea; Yard- long bean
Subgroup 014B	Peas with pods	Garden Peas or Pigeon pea (for pods and succulent immature seeds)	Garden pea; Grass pea; Lentil; Pigeon pea; Podded pea; Moringa (Drumstick)
Subgroup 014C	Succulent beans without pods	Common bean or Cowpea or Soybean (succulent beans)	Beans without pods; Black eyed peas; broad bean (shelled); Catjang: Common bean: Cowpea: Goa bean: Jack bean: Lablab bean: Limabean: Lupin: Moth bean: Scarlet runner bean: Soybean: Stink bean: Velvet bean
Subgroup 014D	Succulent peas without pods	Garden Peas or Chickpea	Garden pea; others such as Chickpea, Lentil, Pigeon pea
Subgroup 014E,	Underground immature beans and peas	Peanut (immature)	Peanut (immature)
Group 015 (VD)	Pulses		
Subgroup 015A	Dry beans	Common bean (<i>Phaseolus vulgaris</i>) or Cowpea (dry) or Mung bean (dry) or Urd bean (dry) and soybean (dry)	Adzuki bean (dry); Black-eyed pea; Broad bean (dry); Butter bean; Common bean/ kidney bean/ Rajma/ <i>Phaseolus vulgaris</i> (dry); Common vetch; Cowpea (dry); Goa bean; Guar beans (dry); Horse gram; Lablab bean (dry); Lupin (dry); Moth bean(dry); Mung bean (dry); Narbon bean; Rice bean (dry);Scarlet runner bean(dry); Soya bean (dry); Swordbean (dry); Tepary bean (dry); Tick bean; Urd bean (dry); Velvet bean (dry); Winged pea (dry);
Subgroup 015B	Dry peas	Chickpea or Pigeon pea or Field pea (dry)	Peas (dry), Chick-pea (dry), Field pea(dry), Grass-pea(dry),Lentil (dry), Pigeon pea (dry)
Group 016 (VR)	Root and tuber vegetables		
Subgroup 016A	Root vegetables	Carrot and Radish	Beetroot; Edible Burdock greater; Caraway black root; Carrot; Celeriac; Chicory roots; Dandelion root; Ginseng; Horseradish; Kudzu; Madeira vine; Parsley; Turnip-rooted Parsley; Radish;

			Radish (black); Radish (Japanese); Sugar beet; Ti palm; Turnip
Subgroup 016B	Tuberous and corm vegetables	Potato	Alocasia; American potato bean; Arrowroot (Guinea); Arrowroot (Polynesian); Canna (edible); Cassava (Tapioca); Chayote root; Chinese potato; Elephant foot yam; Gastrodia tuber; Goa bean root; Potato; Sweet potato; Taro; Tiger nut; Yams; Yam bean
Subgroup 016C	Aquatic root and tuber vegetables	Water chestnut (Singhara)	Lotus tuber (<i>kamal-kakri</i>); Water chestnut, Water bamboo, Foxnut
Group 017 (VS)	Stalk and stem vegetables		
Subgroup 017A	Stalk and stem vegetables - Stems and Petioles	Flowering stalk of Garlic or Celery	Burdock (edible tops); Celery; Lettuce; Fennel bulb; Flowering stalk of Garlic; Sweet potato (stems); Taro stems; Zuiki; Garlic Scapes
Subgroup 017B	Stalk and stem vegetables - Young shoots	Asparagus	Asparagus; Bamboo shoots; Ferns (edible)
Subgroup 017C	Stalk and stem vegetables – Others	Water celery	Palm hearts; Prickly pear pads; Water-celery
Group 018 (VF)	Edible Fungi	Button mushroom	Fungi Edible except Mushrooms; Button mushroom; Cep; Hirmeola; More; Net bearing Dictyophora; Oyster mushroom; Straw mushroom; Wood ears mushroom

Crop Type 03- Grasses

Crop code (Group / Sub-group)	Crop group	Representative crop	Commodities
Subgroup 020A	Wheat, similar grains and pseudocereals without husks	Wheat	Wheat, similar grains, and pseudocereals without husks (GC 2086): Amaranth, grain; Cañihua; Chia; Cram-cam; Huauzontle; Quinoa; Rye; Triticale; Wheat
Subgroup 020B	Barley, similar grains, and pseudocereals with husks	Barley	Barley, similar grains, and pseudocereals with husks (GC 2087): Barley; Buckwheat; Buckwheat, tartary; Oats

Subgroup 020C	Rice cereals	Rice	Rice Cereals (GC 2088): Rice; Rice, African; Wild rice
Subgroup 020D	Sorghum Grain and Millet	Sorghum Grain	Sorghum Grain and Millet (GC 2089): Job's tears; Millet; Sorghum Grain; Teff or Tef; Bajra (pearl millet); Ragi (finger millet);, Panicum, nine millets
Subgroup 020E	Maize Cereals	Maize	Maize; Popcorn; Teosinte
Subgroup 020F	Sweet corns	Sweet corn (Corn-on-the-cob) (kernels plus cob with husk removed)	Sweet corns (GC 2090): Baby corn; Sweet corn (Corn-on-the-cob) (kernels plus cob with husk removed); Sweet corn (whole kernel without cob or husk)
Group 021 (GS)	Grasses, for sugar or syrup production	Sugarcane	Sugar cane, Sorgo or Sorghum (sweet),

Crop Type 04- Nuts and Seeds

Crop code (Group/Sub-group)	Crop group	Representative crop	Commodities
Group 022 (TN)	Tree nuts	Almond or walnut; and Cashew nut	Almonds; Betel nut /Areca nut; Candle nut; Cashew nut; Coconut; Hazelnuts; Japanese horse-chestnut; Java almonds; Dhuna rata; Pine nuts; Pistachio nut; Tropical almond; Walnuts, Indian or Himalayan Horse Chestnut, Dhuna Rata, Black dammar
Group 023 (SO)	Oilseed and oil fruits		
Subgroup 023A	Small seed oilseeds	Rapeseed or Mustard,	Rape seeds; Mustard seeds; Linseed; Mustard seed (Field/toria); Mustard seed (Indian); Perilla seed; Poppy seed; Sesame seed, Rai
Subgroup 023B	Sunflower seeds	Sunflower seeds	Jajoba seed; Niger seed; Safflower seed; Sunflower seed
Subgroup 023C	Cotton seed	Cotton seed	Cotton seed
Subgroup 023D	Other oil seeds	Peanut or Soybean seed	American oil palm seed; Argan Nut; Babassu seed; Ben Moringa seed; Castor bean; Hempseed; Kapok; Melon seed; Palm nut; Peanut; Pumpkin seed; Sea buckthorn seed; Shea nut; Soybean seed

Subgroup 023E	Oil fruits (fruits of palm trees)	Olives for oil production <i>or Palm fruit (African oil palm)</i>	American oil palm fruit; Maripa palm fruit; Olives for oil production; Palm fruit (African oil palm); Tucum fruit
Group 024 (SB)	Seed for beverages and sweets	Coffee bean	Coffee beans, Cocoa beans; Seeds of the sweet basil -sabja, tukmaria
Group 025	Tree saps	Any commodity in this subgroup	Birch sap; Hophornbeam sap; Manna sap; Maple sap; Nut sap; Palm sap; Sycamore sap;

* Peanut is only representative of peanut

Crop Type 05 – Herbs and Spices

Crop code (Group / Sub-group)	Crop group	Representative crop	Commodities
Group 027 (HH)	Herbs		
Subgroup 027A	Herbs (herbaceous plants)	<i>Basil or Mint or leaf lettuce or Spinach or Coriander leaves</i>	Anise; Basil leaves ; Indian Borage; Calendula Flowers / leaves; Cumin (Caraway) leaves; Celery leaves; Coriander leaves; Costmary; Coverfern; Cilantro leaves; Dill leaves; Fennel leaves; Fenugreek leaves; Geranium leaves; Horehound; Lavender; Lemongrass; Marigold leaves; Marjoram; Mint; Nettle; Pandan, leaves; Parsley, leaves; Pennywort; Perilla, leaves; Rosemary; Sage and related Salvia species; Savor, Summer and Winter; Common Sorrel; Southernwood; Stevia; Thyme; Wasabi Stem; Wild beetle leaf bush; Psyllium seed husk / Isabgol
Subgroup 027B	Leaves of woody plants (leaves of shrubs and trees)	<i>Any commodity in this subgroup or Leaf lettuce or Spinach</i>	Aniseed myrtle; Boldo; Curry leaf tree (<i>Murraya koenigii</i>); Eucalyptus leaves; Laurel leaves; Pepper (leaves); Pepperbush leaves; Indian bay leaf (Tejpata leaves) <i>Cinnamomum tamala</i>
Subgroup 027C	Edible flowers	<i>Any commodity in this subgroup or Leaf lettuce or Spinach</i>	Calendula, flowers; Courgette, flowers; Daylily, flowers; Daisy, common, flowers; Geranium, flowers; Marigold, flowers; Nasturtium, flowers; Violet, flowers; rose flowers and other edible flowers, Banana flowers, Moringa flowers
Group 028 (HS)	Spices		

Subgroup 028A	Seeds	<i>Any commodity in this subgroup</i>	Carom (Ajowan) - <i>Ajwain</i> ; Angelica seed; Anise seed; Basil seed; Black caraway; Caraway seed; Celery seed; Coriander seed; Cumin seed; Dill seed; Fennel seed; Fenugreek seed; Nutmeg; Parsley seed
Subgroup 028B	Fruit or Berry	<i>Any commodity in this subgroup</i>	Caper berries; Cardamom (pods and seeds); Cumin black; Cardamom black; Eucalyptus fruit; Gardenia fruit; Juniper berry; Nasturtium pods; Black Pepper; Pepper (Cubeb); Pepper (Long); Pepper bush berry; Pimento (fruit); Tamarind; Vanilla beans; pink pepper; green pepper
Subgroup 028C	Bark	<i>Any commodity in this subgroup</i>	Cassia bark; Cinnamon bark; Eucalyptus bark; Mastic; Red cinchona
Subgroup 028D	Root or rhizome	<i>Any commodity in this subgroup or commodity from Root and Tuber Vegetables, applying an appropriate concentration factor</i>	Coriander (root);Ginger (rhizomes); Liquorice (roots);Turmeric (root rhizome); Asafoetida; Zedoary; ashwagandha roots
Subgroup 028E	Buds	<i>Any commodity in this subgroup</i>	Caper buds; Cassia buds; Cloves buds
Subgroup 028F	Flower or stigma	Saffron	Saffron
Subgroup 028G	Aril	Mace (<i>Javitri</i>)	Mace
Subgroup 028H	Citrus Peel	<i>Any commodity in this subgroup</i>	Kaffir lime peel; Lemon, peel; Orange, peel; Satsuma mandarin, peel
Subgroup 028I	Dried chili peppers	<i>Any commodity in this subgroup</i>	Peppers, Chili, dried

Crop code (Group/Sub-group)	Crop group	Representative crop	Commodities
Group 029- Derived product of plant origin			
Group 029	Tea	Tea	Black, green, fermented tea

***To be included in the Codex crop grouping**

They are used mainly in a fermented and dried form or only as dried leaves for the preparation of infusions, which are used as beverages. Newly grown vegetative shoots (terminal bud and 2-3 leaves) of tea are plucked, withered, twisted and communicated

and thereafter, in general, fermented and dried. Teas made from other plants are often prepared in a similar way.

Proposed Data generation Scheme for implementation of crop grouping for fixation of Sub group MRL

S. No.	Crop	Number of Locations(L) and Seasons (S)			MRL fixation/ value (Subgroup)
		Bio- efficacy	Residue		
			Insecticides Fungicides, Seed Treatment, Plant Growth Regulators	Herbicides	
1	Representative Crop(s)	3L 2S	4L 1S	3L 2S	Based on highest residue/worst case from Rep. crops subgroup MRL to be set
2	Member commodity in same Sub Group (Dose is comparable with representative crop i.e. does not exceed the recommended dose by more than 25%)*	2L 1S	<i>Nil</i>	<i>Nil*</i>	Sub Group MRL shall apply to member crops

**Note: In case of soil applied pesticides (i.e insecticides and herbicides) if there are residues detected in soil at the time of final harvest of representative crops, then one location one season residue data is required for member crops.*

- ❑ The bio-efficacy and residue data must be generated for the representative crop for recommendation of label claim and fixation of PHI by CIB&RC. The same recommendation will be forwarded to FSSAI for the fixation of Sub-Group MRL. However, the FSSAI shall issue notification for MRL fixation on that particular representative crop(s) only. A suitable communication mechanism between CIB&RC & FSSAI would be necessary to refer the Sub group MRLs so established. MRLs fixed based on particular commodity crop group approach has to be indicated as part of RC Minutes.

It is important for reference of subsequent registrant who may seek label claim on member crop commodities.

- ❑ For other member commodities of the same sub group, bio-efficacy data must be generated for those particular commodities on which the label claim is desired.
- ❑ In other words, subgroup MRL does not ensure label claim on all member commodities unless requisite bio-efficacy data is generated on individual member crops. After obtaining the recommendation of Registration Committee, the FSSAI will issue notification for the Sub group MRL fixation on the member crop(s).
- ❑ **Crop grouping is a dynamic process and both classification and data requirements will be reviewed as and when required.**

Dietary Risk Assessment:

It is very important to conduct dietary risk assessment before fixing the MRLs to ensure that the proposed GAP / use is safe to the consumers. The residue data at PHI on food commodity, food consumption, average body weight of human being are the key requirements for conducting chronic dietary risk assessment of pesticides. When the proposal is received for the first time for label claim on representative crop of sub-group/group, the MRL is to be established for the sub-group / group after conducting dietary risk assessment using residue data on representative crop and food consumption of crop sub-group / group. If the dietary risk assessment passes, then MRL for the crop sub-group/ group to be notified.

In future, when a new proposal comes for label claim on member crop using Crop Grouping principles, where label claim on representative crop is already approved and MRL is already established for crop sub-group / group, the CIB&RC will scrutinize the data and on satisfaction will approve the label claim on proposed member crop. There is no need to conduct dietary risk assessment again for label claim on member crop as the food consumption was already considered for whole sub-group/group while establishing MRL for crop sub-group or group.

In future, there may be situations arises where the dietary risk cup becomes full with label claim on limited crops as the food consumption was considered for whole crop sub-group or group. Under such situation a refinement in dietary risk assessment to be done by considering the dietary consumption of individual approved crop instead of whole sub-group/group. Accordingly, the MRLs to be re-notified for individual approved crop instead of crop sub-group / group.

Example 1:

- *The applicant submitted application to CIB&RC for label claim of acaricide, Propargite 57% EC, on Apple for the control of mites with data as per general guidelines i.e. 3 Location 2 Season bio-efficacy data, 4 Location 1 Season residue data, 1 Location 1 Season persistence in plant data and MRL proforma. The proposed GAP is as follows:*

<i>Crop</i>	<i>Pest</i>	<i>Formulation</i>	<i>Applications</i>	<i>Application Rate / Ha</i>	<i>PHI</i>
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		Type	Conc.	Method	Growth Stage	Number	a.i. (g)	Formulation (ml)	Water (lit)	(days)
Apple	Mites	EC	57%	Foot Sprayer	Fruit development	2	5.7 g/tree	10 ml/tree	10 lit/tree	9

- After scrutiny of application file, Registration Committee approved the label claim of Propargite 57% EC on Apple subject to fixation of MRL by FSSAI.
- CIB&RC send MRL proforma to FSSAI for MRL fixation.
- The residue definition for compliance with MRL and for estimation of dietary intake in plant commodities is "Propargite".
- Multi-locations residue endpoints of Propargite @9 day PHI on apple fruits are 0.64, 0.65, 0.73, 0.79 mg/kg.

The screenshot shows the OECD MRL Calculator interface. On the left, there are input fields for Compound (Propargite), Crop (Apple), Region / Country (India), and GAP (5.7 g a.i./tree). Below these is a table of Residues (mg/kg) with values 0.640, 0.650, 0.730, and 0.790. The main area displays a summary of data: Total number of data (n) = 4, Percentage of censored data = 0%, Number of non-censored data = 4, Lowest residue = 0.640, Highest residue = 0.790, Median residue = 0.690, Mean = 0.703, Standard deviation (SD) = 0.071, Correction factor for censoring (CF) = 1.000. Under 'Proposed MRL estimate', it shows: - Highest residue = 0.790, - Mean + 4 SD = 0.986, - CF x 3 Mean = 2.108, Unrounded MRL = 2.108, and Rounded MRL = 3. A note at the bottom states: 'High uncertainty of MRL estimate. (Small dataset)'. On the right, there is a small table showing Residues (mg/kg) and n: 0.64 (1), 0.65 (1), 0.73 (1), 0.79 (1).

- $STMR = 0.69 \text{ mg/kg}$; $HR = 0.79 \text{ mg/kg}$ and $MRL = 3 \text{ mg/kg}$ (from OECD MRL Calculator)
- Food Consumption of Pome Fruits from WHO-GEMS food cluster group G05: $8.08 \text{ g/person/day} = 0.00808 \text{ kg/person/day}$
- Chronic Dietary Risk Assessment

Food Commodity	STMR (mg/kg)	PHI (days)	Food Consumption (kg/person/day)	Mean Body Weight (kg)	NEDI (mg/person/day)	$\Sigma NEDI$ (mg/person/day)	ADI (mg/kg bw/day)	ADI (mg/person/day)	% ADI
A	B	C	D	E	$F = B \times D$	G	H	$I = H \times 60$	$J = (G \times 100)/I$
Apple	0.69	9	0.00808*	60	0.0056	0.0056	0.01	0.6	0.93

* Food consumption of Pome fruits is considered from WHO-GEMS food cluster group G05.

- Since $NEDI < ADI$, Dietary Risk Assessment passes
- Apple is a representative crop for Pome Fruits (2).
- FSSAI establishes MRL of Propargite on "Pome Fruits" as 3 mg/kg
- CIB&RC grants label claim of Propargite 57% EC on Apple
- Now, applicant submitted the application to CIB&RC for label expansion of Propargite 57% EC on Pear for the control of mites with data as per guidelines of Crop Grouping principles i.e. 2 Location 1 Season bio-

efficacy data along with GAP. The proposed GAP is as follows:

Crop	Pest	Formulation		Applications			Application Rate / Ha			PHI (days)
		Type	Conc.	Method	Growth Stage	Number	a.i. (g)	Formulation (ml)	Water (lit)	
Pear	Mites	EC	57%	Foot Sprayer	Fruit development	2	5.7 g/tree	10 ml/tree	10 lit/tree	9

- GAP of Pear is comparable (considering FAO's + 25% rule) to Apple.
- Crop Grouping Principles are acceptable.
- MRL of Pome fruits i.e. 3 mg/kg can be extrapolated to Pear.
- After scrutiny of the submitted data, Registration Committee approved the label claim of Propargite 57% EC on Pear.

Example 2:

- The applicant submitted application to CIB&RC for label claim of Insecticide, Malathion 50% EC, on Chickpea for the control of pod borers with data as per general guidelines i.e. 3 Location 2 Season bio-efficacy data, 4 Location 1 Season residue data, 1 Location 1 Season persistence in plant data and MRL proforma. The proposed GAP is as follows:

Crop	Pest	Formulation		Applications			Application Rate / Ha			PHI (days)
		Type	Conc.	Method	Growth Stage	Number	a.i. (g)	Formulation (ml)	Water (lit)	
Chickpea	Pod Borers	EC	50%	Back pack Sprayer	Pod development	2	750	1500	500	15

- After scrutiny of application file, Registration Committee approved the label claim of Malathion 50% EC on Chickpea subject to fixation of MRL by FSSAI.
- CIB&RC send MRL proforma to FSSAI for MRL fixation.
- The residue definition for compliance with MRL and for estimation of dietary intake in plant commodities is "Malathion".
- Multi-location residue endpoints of Malathion @15 day PHI on chickpea seed (dry) are 0.04, 0.04, 0.06, 0.07 mg/kg.

Compound	Malathion
Crop	Chickpea
Region / Country	India
GAP	750 g a.i./ha

Reset
Select frame
Generate
Reset table
Select table

Residues (mg/kg)	n
0.040	2
0.040	1
0.060	1
0.070	1

Compound
Crop
Region / Country
GAP

Total number of data (n)	4
Percentage of censored data	0%
Number of non-censored data	4
Lowest residue	0.040
Highest residue	0.070
Median residue	0.050
Mean	0.053
Standard deviation (SD)	0.015
Correction factor for censoring (CF)	1.000

Proposed MRL estimate

- Highest residue	0.070
- Mean + 4 SD	0.113
- CF x 3 Mean	0.158
Unrounded MRL	0.158
Rounded MRL	<u>0.2</u>

High uncertainty of MRL estimate.
[Small dataset]

- $STMR = 0.05 \text{ mg/kg}$; $HR = 0.07 \text{ mg/kg}$ and $MRL = 0.2 \text{ mg/kg}$ (from OECD MRL Calculator)
- Food Consumption of Dry Peas from WHO-GEMS food cluster group G05: $15.11 \text{ g/person/day} = 0.01511 \text{ kg/person/day}$
- Chronic Dietary Risk Assessment

Food Commodity	STMR (mg/kg)	PHI (days)	Food Consumption (kg/person/day)	Mean Body Weight (kg)	NEDI (mg/person/day)	$\Sigma NEDI$ (mg/person/day)	ADI (mg/kg bw/day)	ADI (mg/person/day)	% ADI
A	B	C	D	E	$F = B \times D$	G	H	$I = H \times 60$	$J = (G \times 100)/I$
Chickpea	0.05	15	0.01511*	60	0.0008	0.0008	0.3	18	0.0044

* Food consumption of Dry peas is considered from WHO-GEMS food cluster group G05.

- Since $NEDI < ADI$, Dietary Risk Assessment passes
- Chickpea is a representative crop for Dry peas (15B).
- FSSAI establishes MRL of Malathion on "Dry Peas" as 0.2 mg/kg
- CIB&RC grants label claim of Malathion 50% EC on Chickpea
- Now, applicant submitted the application to CIB&RC for label expansion of Malathion 50% EC on Red gram for the control of pod borers with data as per guidelines of Crop Grouping principles i.e. 2 Location 1 Season bio-efficacy data along with GAP. The proposed GAP is as follows:

Crop	Pest	Formulation		Applications			Application Rate / Ha			PHI (days)
		Type	Conc.	Method	Growth Stage	Number	a.i. (g)	Formulation (ml)	Water (lit)	
Red gram	Pod Borer	EC	50%	Back pack Sprayer	pod development	2	800	1600	500	15

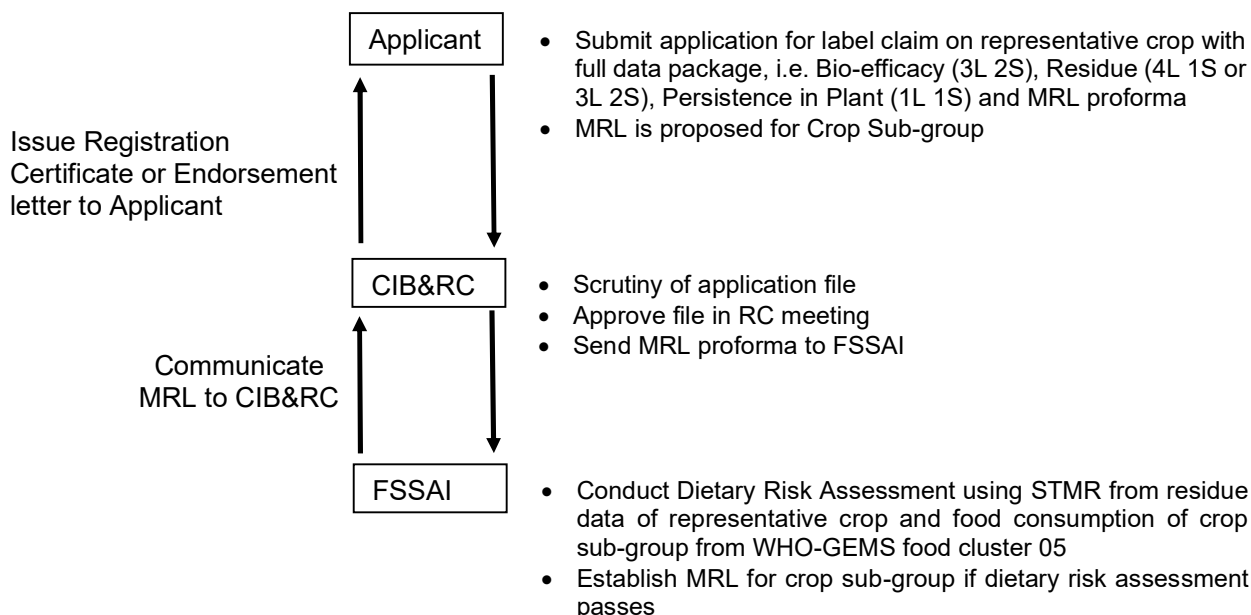
- The change in a.i. (g) dose of Malathion is within 25% range of approved dose, thus GAP of Red gram is

comparable (considering FAO's + 25% rule) to Chickpea.

- Crop Grouping Principles are acceptable.
- MRL of Dry peas i.e. 0.2 mg/kg can be extrapolated to Red gram.
- After scrutiny of the submitted data, Registration Committee approved the label claim of Malathion 50% EC on Red Gram.

Flow Chart:

Step-1: Label Claim on Representative Crop and MRL fixation on Crop-sub group



Step-2: Label Claim on Member Crop Using Crop Grouping Principles

