## Unofficial Translation (Draft)

Guideline on Principle, Procedure and Conditions for Residues Trial of Agricultural Hazardous Substance Annexed to Notification of Department of Agriculture entitled Details of Criteria and Procedure for Registration, Issuance and Extension of Hazardous Substances Registration Certificate under the Responsibility of Department of Agriculture B.E. 2552 (2009)

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In order to make experimental plan and report of residue trial of agricultural hazardous substance the same technical principle and standard, the following details are set up:

- **No. 1** Whoever wishes to apply for hazardous substance registration in Phase 1, Trials Clearance, shall submit application for conducting residue trial using the form annexed to this Guideline together with 6 copies of experimental plan to the authority at Pesticide Regulatory Sub-division, Office of Agricultural Regulation before commencing the experiment at least 3 months.
- **No. 2** Details of experimental plan for residues shall comply with "Guideline on experiment of agricultural hazardous substance residues" prepared by Department of Agriculture as follows.
- (1) Experimental condition. It is required to specify crop specie, variety, location, number of trials, number of replication, plot size, spacing, fertilizer application, and other details.
- (2) Application method. It is required to specify type of formulation recommended for use on that crop, method of application, dose rate, number of application, time interval, application of other hazardous substance and other data.
- (3) Data recording. It is required to record details since the beginning of the experiment until the sample reach analytical laboratory, The details shall include common name, concentration, formulation, dose rate, method of application, location, name of crop specie, variety, name of responsible person, type of pest, climatic conditions, cultivation technique and other data.
- It is required to take sample for residue analysis at different period after application of hazardous substance. The first sampling shall be done 2 hour after application (0 day). The second sampling shall be done 1-3 days after application. Sample shall be taken at least 4 times at various intervals depending on characteristic of hazardous substance and crop. Method of sampling and size of sample shall follow "Guideline on experiment of agricultural hazardous substance residue" prepared by Department of Agriculture.
- **No. 3** When the residue trial is finished, the agency assigned by Department of Agriculture to conduct the experiment shall report the result of experiment using the form for reporting residue trial annexed to this Guidelines with in 6 months commencing from due date of the experimental plan and submit to the authority at the same place as mentioned in No.1

#### Application for pesticide residues trial for registration

1. Trade name and/or Code number
2. Name and address of applicant
3. Name and address of manufacturer of active ingredients
4. Common name
5. Name of crop to be registered for use
6. Name of pest to be controlled
7. Chemical name in IUPAC system or chemical group
8. Use category e.g. insecticide, herbicide, etc.
9. Formulation and concentration
10. Experimental plan 10.1 Personnel and responsibility
10.2 Location of plot
10.3 Timing StartEnd
10.4 Crop/commodity
10.5 Plot dimension in international units
vegetable : width X lengthm <sup>2</sup>
Fruit Number of trees :trees, Area: width X length
10.6 Dose rate : $oldsymbol{O}$ ml/20 liter water or $oldsymbol{O}$ g/20 liter water
Number of spraytimes: Equivalent tog of a.i./rai 11. Method of residue analysis

12. Nam	e and address of laboratory for sample analysis
	xes 3.1 Report on efficacy trial form Trials Clearance 3.2 Method of residue analysis
	SignatureApplicant ()
	SignatureResponsible personnel
Note	<ol> <li>Submit the same sample of hazardous substance as for efficacy trial and quality analysis approved</li> <li>Laboratory for residue analysis shall be ISO/IEC 17025 certified</li> </ol>

#### For official use only

Opinion of inspector		Opinion of Chief of Pesticide Residue Research Group
<ol> <li>Plot area O appropriate O not ap</li> <li>Method of residues analysis O appropriate O not ap</li> </ol>		
	· · ·   .	
3. Analysis Lab. O appropriate O not ap		
4. Trial plan O appropriate O not ap	opropriate	
5. Annexes (No.13) O appropriate O not app 6. Other opinions	oropriate	
SignaturePositionDate	)   S	Signature) Position Date
Opinion of Chief of Pesticide Research Group  Signature () Position Date	Producti  E  Signature  Position	of Director of Agricultural ion Science Research and Development Office

#### Form for recording information on trial plot

Address No Street Province Tel.	ُVillag	e No oolst code Fax	
(Mr./Mrs./Ms) Address No Street Province Tel.		e No ool st code Fax	Trok/SoiKhet/Amphur
	Sign	ature of plot own	er ()
	Signature of contact pe	erson or alternate	e ()

Map of trial plot showing route for transportation and important neighboring landmarks to facilitate travel to trial plots
Location of trial plot No

Form	for	recording	hazardous	substance	sprav	/ina
		1000141119	i iazai acac	Cabolario	op.a,	9

	Trial No/
Name of trial	

No.	Date of spraying	Pesticide	Dose rate/20L water	Total 1* volume/ trial area	Spraying time	Temp.( Before spraying	°C)/ Humid During spraying	ity (%) After spraying	Rainfall (mm.)	Operator 2*	Inspector 3*

- 1\*. Total volume used for each spraying
  2\* Operator signs every time of work in trial plot
  3\* Inspector signs every time of inspection

in ter recerding yield that recting	
	Trial No/

No.	Date of harvesting	Conditions plot*	of	trial	No. of sample	Quantity of sample (Kg or Number of fruit)	Date sample arrives in analysis lab.	Condition of sample	Storage of sample during transportation	Name of recorder

Conditions of trial plot\* such as normal, damaged by disease (indicate disease and symptom), damaged by insect (indicate name of insect), spraying other pesticides (indicate trade name), and others.

Form	for recording re	sidue tri	al/crop		
1. Company name .			Address I	No St	reet
3. Name of responsi					
-	ner				
	sprayer				
4. Details on crop us					
				Ampnu	r
Province 6. Details of pesticid					
		inaredie	ent		
	egory [				
0.5 USE Cale	gory L				ngicide
			rbicide	<b>—</b>	thers
6.4 formulation	on 🗌 EC 🛭	⊒ sc ∣	□SL □ E	EW □C	S
	☐ DP [	GR	☐ WP ☐	WG 🔲 S	SP others
6.5 Concentr	ation of active i	ngredier	nt	.% W/V or	% W/W
6.7 Application	•				
					g a.i./rai
					g a.i./20 L water
6.7.3	Frequency of a	pplicatio	n	day/ 	/application
6.7.4	Type of spraye	r 🔲 Hi	gh pressure	□ K	ínap sack
			thers		
6.7.5	Age of crop at	first spra	yingday	s or…days	after flowering (fruit)
	Pesticide spra	ying		ate	
	1 st time	, ,			
	2 nd time				
	3 rd time				
	4 <sup>th</sup> time				
6.8 Climatic	conditions at las	st sprayii	ng		
Duration	Climatic condi	tion	Average T	emp(°C)	% average humidity
96 hrs. before spraying				- ' '	,
During spraying					
After spraying until					
sample collection					
7. Details of trial plot	t oil				
• • •					
		_			Others
i.s Type of t	erunzer usea L	_ Organ	no rerunzer	นระนาลเย .	Kg/rai

			Compost used rate		_
	7.4 Other pesticid		Chemical fertilizer Ra	atio use	d rateKg/ra
	•		ring 🔲 Dripping [	Sprinkling	Others
	_				
	7.6 Frequency of i		Every day Every	-	ery r days
		ПС	Others		
8. Inf	formation on trial plo	t			
		(width x leng	th)		
	8.2 Subplot dimen				
					2
	8.3 Crop spacing		n crop n row		
	8.3 Number of sub		t		
	8.5 Number of pla				
9. Pe	esticide used history				
10. S	Sample collection				
	•				
No.	Pre-harvest	Date	Climatic condition	0	% average
	interval			temp.	humidity
1					
2					
3					
4					
5					
5					
6					
6	10.1 Part of plant	o collect			
6	10.2 Age of plant	days	(vegetables, field cr	rops, etc.)	
6	10.2 Age of plant Days after flo	days wering (	(vegetables, field cr (Fruit tree)		
6	10.2 Age of plant Days after flo 10.3 Method of sa	days wering ( mple collectio	(vegetables, field cr (Fruit tree) n	ution 🔲 X oi	S Zoning
6	10.2 Age of plant Days after flo 10.3 Method of sa 10.4 Number of sa	days wering ( mple collectio imple/subplot	(vegetables, field cr (Fruit tree) n  even distrib	ution 🔲 X oı	
6 7	10.2 Age of plant Days after flo 10.3 Method of sa 10.4 Number of sa 10.5 Number of fro	days wering ( mple collectio imple/subplot	(vegetables, field cr (Fruit tree) n	ution 🔲 X oı	
6 7	10.2 Age of plant Days after flo 10.3 Method of sa 10.4 Number of sa	days wering ( mple collectio imple/subplot	(vegetables, field cr (Fruit tree) n  even distrib	ution 🔲 X oı	
6 7	10.2 Age of plant Days after flo 10.3 Method of sa 10.4 Number of sa 10.5 Number of fru Date of sampling	days wering ( mple collectio imple/subplot	(vegetables, field cr (Fruit tree) n  even distrib	ution 🔲 X oı	
11. E	10.2 Age of plant Days after flo 10.3 Method of sa 10.4 Number of sa 10.5 Number of fro	days wering ( mple collectio imple/subplot	(vegetables, field cr (Fruit tree) n  even distrib	ution 🔲 X oı	
11. Date of Date of	10.2 Age of plant Days after flo 10.3 Method of sa 10.4 Number of sa 10.5 Number of fro Date of sampling	days wering ( mple collectio imple/subplot	(vegetables, field cr (Fruit tree) n  even distrib	ution 🔲 X oı	
11. E Date of Date la	10.2 Age of plant Days after flo 10.3 Method of sa 10.4 Number of sa 10.5 Number of fro Date of sampling sampling sample storing b. receiving sample	days wering ( mple collectio imple/subplot	(vegetables, field cr (Fruit tree) n  even distrib	ution 🔲 X oı	
11. E Date of Date la	10.2 Age of plant Days after flo 10.3 Method of sa 10.4 Number of sa 10.5 Number of fru Date of sampling sample storing	days wering ( mple collectio imple/subplot	(vegetables, field cr (Fruit tree) n  even distrib	ution 🔲 X oı	
11. Contact of Date of Date la	10.2 Age of plant Days after flo 10.3 Method of sa 10.4 Number of sa 10.5 Number of fro Date of sampling sampling sample storing b. receiving sample	days wering ( mple collectio imple/subplot	(vegetables, field cr (Fruit tree) n  even distrib	ution 🔲 X oı	
11. Date of Date la 12. Date spanning	10.2 Age of plant Days after flo 10.3 Method of sa 10.4 Number of sa 10.5 Number of fro Date of sampling sampling sample storing b. receiving sample Duration (Days)	days wering ( mple collectio imple/subplot	(vegetables, field cr (Fruit tree) n  even distrib	ution 🔲 X oı	

Signature of experimenter.		 	 	 
	(	 	 	 )
Date		 	 	 

#### Form for recording residue analysis

	. Laboratory		
2.	. Analyst		
	Crop		
5.	. Date lab. receive sample		
6.	. Conditions of sample		
	. Method for storing sample		
	Part of crop to be analyzed		
	. Method of analysis		
	0. Effectiveness of analysis method		
	Concentration (mg/Kg)	% Recovery	$\neg$
	, , , , , , , , , , , , , , , , , , ,	,	
	Limit of determination	mg/Kg	
	1. Extraction method/eradication of co		
12	2. Analysis apparatus		
	Conditions for analysis		
10	Analysis in term of		accord in ma/ka
	eport both treated and control sample (		esseu III myrky,

#### Fruit tree plot

Sample	Tre	Rep	day	days							
Treated	1	1									
	2	1									
	3	1									
	4	1									
	5	2									
	6	2									
	7	2									
	8	2									
	9	3									
	10	3									
	11	3									
	12	3									
Control	1										
	2										
	3										
	4										

### Vegetable/field crop/others plot

Sample	Tree	Rep.	days								
Treated	1										
	2										
	3										
Control	1										
	2										
	3										

Signature of reporter		 	 	 	 	 	
	(	 	 	 	 	 	)
Date							

# Form for residue trials report for registration Trial No.....

Title
Experimenter
Company
Company
Al
Abstract
Introduction
Objectives
·
Method
Instrument
Method
<del></del>

#### Date and location

Result
I/65uit
Conclusion
References
Annex (if any)
Author (II arry)
Otatamant to be mut on the label
Statement to be put on the label