THE PEST CONTROL PRODUCTS ACT
(CAP 346)

REQUIREMENTS FOR ACCREDITATION OF INSTITUTIONS INVOLVED IN CARRYING OUT EFFICACY TRIALS ON PEST CONTROL PRODUCTS

Below is the checklist for evaluating efficacy trial institutions:

	Item	**Guidelines**
	GENERAL	
	Physical facilities	
	Office space	Should have computers, telephone, internet services
	Location/accessibility	Should be easy to locate
	Availability of Transport	Evidence of transport for ease of access to trial sites should be provided
	Equipment maintenance	Maintenance schedule should be available
	Cost of doing trials	Approximate costs for various categories should be provided
	Procedures of keeping records and for how long (archiving)	Procedures must be provided
	Awareness/utilization of PCPB trial protocol	Evidence should be provided
	IMPORTANT	
	Facilities: particularly chemical store, equipment store, other relevant on and off-site facilities)	Should be shown
	Disposal consideration after testing	Should be provided
	Workers' safety	Personal protective Equipment should be shown
	Mode of assessment (type, time and frequency of assessment).	Should be provided for the areas of accreditation requested

 Note: *An institution/company should apply for evaluation upon fulfilling the stated requirements.*

	Item	Guidelines
	Proposed System of reporting – 1. Three individual reports for each seasons submitted? 2. Subjected to internal Peer review committee? 3. Submission by head of department?	Evidence of structured reporting system must be provided for inspection
	CRITICAL	
	Availability of land/green houses	Evidence should be provided. If leased documentary proof required
	Availability of crops/animals for trials	Evidence should be provided or lease agreement, as applicable
	Staff management – (structure and responsibilities)	Responsibilities of each staff should be clearly stated. Organizational structure should be provided for evidence
	VERY CRITICAL	
	Human Resources: 1. Qualifications 2. Experience in carrying out efficacy trials	1. Lead researcher must have minimum of a relevant M.Sc degree. 2. Lead researcher must have practical experience on relevant crop/area
	ADDED ADVANTAGE	
	Any specific internationally recognized testing guidelines to be followed.	Must be provided for inspection
	Copies of study plans (Trial Protocols for specific trials.	Must be provided for inspection. Specific protocols for example thrips on roses, early blight on tomatoes e.t.c should be provided
	Is the testing organization accredited for any other work?	Evidence should be provided
	Standard operating procedures	SOP's should be provided for inspection

 Note: *An institution/company should apply for evaluation upon fulfilling the stated requirements.*

REQUIREMENTS FOR ACCREDITATION OF INSTITUTIONS INVOLVED IN CARRYING OUT STUDIES ON *PHYSICAL AND CHEMICAL PROPERTIES* OF PESTICIDES

Below is the checklist:

	Item	**Guideline**
	GENERAL	
	Office space	Should have computers, telephone, internet services
	Location/accessibility	Should be easy to locate
	Availability of Transport	Evidence of transport should be provided
	Cost of doing trials	Approximate costs should be provided
	Procedures of keeping records and for how long (archiving)	Procedures must be provided
	Equipment maintenance	Maintenance schedule should be available
	IMPORTANT	
	Laboratory with facilities for studies on physical and chemical properties of pesticides i.e.	Facilities should be available. Provide details of the method. CIPAC methods for Physical/Chemical properties are recommended. Study reports should be as per Good Laboratory Practice Principles.
	• Physical state	
	• Colour	
	• Odour	
	• Density	
	• Vapour pressure at 20/25^{o}C	
	• pH	
	• Volatility	
	• Hydrolysis DT_{50} ….. Days …… ^{0}C …… pH	
	• Photolysis	
	• Solubility in water ……^{0}C …….. pH	
	• Solubility in organic solvents	
	• n-octanol/water partition coefficient	
	• Boiling point ^{0}C	

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	• Melting point ^{0}C	
	• Decomposition temperature ^{0}C	
	• Flammability	
	• Thermal stabilty, identity of breakdown product	
	• Flash point	
	• Water content	
	• Wettability	
	• Persistent foaming	
	• Particle size	
	• Suspensibility / emulsifiability	
	• Emulsion stability	
	• Viscosity	
	• Oxidizing properties	
	• Absorption spectra – UV/Visible, infra-red, IMR, MS	
	• Reactivity towards container material	
	• Storage stability in proposed packaging	
	• Method of Analysis	
	• 5-batch Analysis	The minimum content in g/Kg or g/L of pure active substance must be reported. Identity of isomers and/or impurities together with their structural formula and content expressed as g/Kg or g/L must be reported. Detailed results of analysis including chromatograms and description of equipment used etc must be provided.
	Disposal of products/ containers after testing	Evidence/ procedure should be provided
	Workers' safety	Personal protective Equipment should be available
	Proposed System of reporting – • Subjected to internal Peer review committee? • Submission by head of department?	Evidence of structured reporting system must be provided for inspection
	CRITICAL	
	Staff management – (structure and responsibilities)	Responsibilities of each staff should be clearly stated. Organizational structure should be provided for evidence
	Consistent with National legal mandate of the institution	
	VERY CRITICAL	

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	Human Resources: 1. Qualifications. **2.** Experience in carrying out studies on physical and chemical properties	Lead researcher must have minimum of a relevant M.SC degree. Lead researcher must have relevant practical experience
	ADDED ADVANTAGE	
	Any specific internationally recognized testing guidelines to be followed.	Must be provided for inspection
	Copies of study plans (Trial Protocols for specific trials)	Must be provided for inspection
	Is the testing organization accredited for any other work	Evidence should be provided
	Standard operating procedures	SOP's should be provided for inspection

 Note: *An institution/company should apply for evaluation upon fulfilling the stated requirements.*

REQUIREMENTS FOR ACCREDITATION OF INSTITUTIONS INVOLVED IN CARRYING OUT TOXICOLOGICAL AND ECOTOXICOLOGICAL STUDIES ON PESTICIDES

Below is the checklist:

	Item	Guidelines
	GENERAL	
	Physical facilities	
	Office space	Should have computers, telephone, internet services
	Location/accessibility	Should be easy to locate
	Availability of Transport	Evidence of transport should be provided
	Procedures of keeping records and for how long (archiving)	Records must be shown. Detailed procedure in line with internationally agreed procedure should be shown
	Cost of doing trials	Approximate costs for various categories should be given
	Pathology laboratory with facilities for: 1. Histopathology, microtones, microscopes, Pathogenicity, infectivity, toxicity tests 2. Experimental exposure facilities for aquatic, terrestrial, avian and honey bee ecotoxicity testing with capabilities of monitoring acute toxicity, growth inhibition and reproduction effects.	Should be shown; Detailed SOPs /work instruction must be provided as evidence
	Housing for test animals (controlled environment)	Should be shown
	IMPORTANT	
	Disposal consideration after testing	Detailed procedures must be shown for handling of chemical & biohazard waste
	Proposed System of reporting – Internal Peer review committee? - Submission by head of department?	Evidence of structured reporting system must be provided for inspection
	Workers' safety	Personal protective Equipment must be shown
	CRITICAL	
	Availability of test animals, Rats, rabbits, guinea pigs, birds, fish, Daphnia, algae, bees, earthworms	Evidence must be provided or evidence of sourcing from credible institution. Evidence knowledge of test/laboratory animal welfare must be shown

 Note: *An institution/company should apply for evaluation upon fulfilling the stated requirements.*

	Item	Guidelines
	Staff management – (structure and responsibilities)	Responsible officer must be clearly stated. Detailed roles & responsibilities in line with good laboratory practices.
	VERY CRITICAL	
	Human Resources: 1. Qualifications 2. Experience in carrying out: Acute oral, acute dermal, skin sensitization, inhalation, eye and skin irritation, aquatic, terrestrial, avian and honey bee ecotoxicity testing	1. Lead researcher must have minimum of a relevant M.SC degree. 2. Lead researcher must have practical experience on toxicological study setting or experience in handling laboratory animals/ organism 3. Demonstrating understanding of Regulatory toxicology is an added advantage
	ADDED ADVANTAGE	
	Standard operating procedures (SOPs)	Detailed SOPs for all activities must be provided for inspection
	Copies of Protocols for specific trials	Must be provided for inspection (to be shown as evidence during subsequent reaccreditation visits). 1st accreditation detailed inhouse protocols for the studies to be conducted.
	Any specific internationally recognized testing guidelines to be followed e. g OECD	Must be provided for inspection. The detailed individual inhouse protocols must be presented for review based on the internationally recognized testing guidelines.
	Is the testing organization accredited for any other work?	Evidence must be provided

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