

IRS formulations and dosages

S.No.	Name of Insecticide	Class of insecticide	Amount of Insecticide to prepare 10 litres of suspension	Dosage per sq.metre of active ingredient	Residual effect in weeks	Area (in sq.m) to be covered by 10 litres of suspension	Requirement of insecticide per million population (in MT)
1	DDT 50% WP	Organochlorine	1.000 Kg	1 gm.	10-12	500	150.00
2	Malathion 25% WP *	Organophosphate	2.000 Kg	2 gm.	6-8	500	900.00
3	Deltamethrin 2.5% WP	Synthetic pyrethroid	0.400 Kg	20 mg.	10-12	500	60.00
4	Cyfluthrin 10% WP	Synthetic pyrethroid	0.125 Kg	25 mg.	10-12	500	18.75
5	Lambdacyhalothrin 10% WP	Synthetic pyrethroid	0.125 Kg	25 mg.	10-12	500	18.75
6	Alphacypermethrin 5% WP	Synthetic pyrethroid	0.250 Kg	25 mg.	10-12	500	37.50
7	Bifenthrin 10% WP	Synthetic pyrethroid	0.125 Kg	25 mg.	10-12	500	18.75

* In the case of Malathion, the requirement shown above, is for the three rounds

Indoor Space Spray

S.No	Name of Insecticide	Class of insecticide	Commercial formulation	Preparation of formulation	Equipment required	Remarks
1	Pyrethrum Extract	Plant Extract	2.0% extract	1:19 i.e.1 part of 2% Pyrethrum Extract in 19 parts of Kerosene (50 ml in 1 litres K.Oil)	Pressurised Spray machine or fogging machine	Used for Indoor Space Spray
2	Cyphenothrin	Synthetic pyrethroid	5% EC	0.5 mg a.i per sq.mt. (20 ml in 1 litres K.Oil)		

Outdoor Fogging

S.No	Name of Insecticide	Class of insecticide	Commercial formulation	Preparation of formulation	Equipment required	Remarks
1	Malathion	Organophosphate	Technical Malathion	1:19 i.e.1 part of Malathion Tech in 19 parts of Diesel (50 ml in 1 litres diesel)	Shoulder mounted Fogging machine or Vehicle mounted thermal Fogging machine	Used for Outdoor Thermal Fogging
2	Cyphenothrin	Synthetic pyrethroid	5% EC	3.5 g a.i per hactare (7 ml in 1 litres diesel)		

Larvicide formulations and dosages

S.No	Name of larvicide	Class of insecticide	Commercial formulation	Preparation of ready to spray formulation	Dosage of suspension made for per			Frequency of application	Equipment required	Remarks
					One sq. mtr.	50 Linear meter	Heactare			
1	MLO		100% petroleum project product	As it is	20 c.c.	1 Litre	200 Litres	Weekly	Knapsack/Hand compression Sprayer	To be applied along the shore of water body
2	Temephos (EC) *	Organophosphate	50% EC	2.5 cc in 10 Litres of potable water	20 c.c.	1 Litre	200 Litres	-do-	Knapsack/Hand compression Sprayer	Can be applied in clean water
3	Bacillus thuringiensis var israelensis 5% WP Strain - 164, Serotype H-14 **	Biolarvicide	5% Wettable Powder	5 Kg in 200 litres of Water (250 gms in 10 litre of water)	Do	Do	200 litres	Fortnightly	Knapsack/Hand compression Sprayer	For both clean and non-potable polluted water
4	Bacillus thuringiensis var israelensis 5% WP Strain - ABIL, Serotype H-14 Accession No.-01318 ***	Biolarvicide	5% Wettable Powder	7.5 Kg in 200 litres of Water (375 gms in 10 litre of	Do	Do	200 litres	Weekly	Knapsack/Hand compression Sprayer	Clean Water
				10 Kg in 200 litres of Water (500 gms in 10 litre of	Do	Do	200 litres			Polluted Water
5	Bacillus thuringiensis var israelensis 12 Aqueous Suspension (12AS)	Biolarvicide	Aqueous Suspension	1 litre in 200 Litres of water (50 cc in 10 litre)	Do	Do	200 litres	Weekly	Knapsack/Hand compression Sprayer	Clean Water
				2 litre in 200 Litres of water (100 cc in 10 litre)	Do	Do	200 litres			Polluted Water
6	Diflubenzuron 25% WP	Insect growth regulator	25% Wettable Powder	100 gms (25 gm a.i) in 100 Litres of water (10 g in 10 litre)	-	-	100 litre	Weekly	Knapsack/Hand compression Sprayer	Clean Water
				200 gms (50 gm a.i) in 100 Litres of water (20 g in 10 litre)			100 litre			Polluted Water
7	Pyriproxyfen GR	Insect growth regulator	0.5% Granular	Ready -to- use	-	-	2 kg.	3 Weekly	Manual	Clean Water
							4 kg.			Polluted Water

*The dose of temephos may be doubled or tripled in case of water bodies having more than 50 cm depth.

** In case of basin deeper than 0.5 meter or with heavy vegetation, the quantity may be doubled. For optimum result, remove vegetation before spraying

*** for more detail registration certificate or ammenments made thereof issued by CIB may be referred.