

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

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 square 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 WP Strain - 164, Serotype H-14	Bio-larvicide	Wettable Powder	5 Kg in 200 litres of Water (250 gms in 10 litre of water)	Do	Do	200 litres (containing 5 kg of powder 164 strain)	Fortnightly	Knapsack/Hand compression Sprayer	For both clean and non-potable polluted water
4	Bacillus thuringiensis var israelensis 12 Aqueous Suspension (12AS)	Bio-larvicide	Aqueous Suspension	1 litre in 200 Litres of water (50 cc in 10 litre)	Do	Do	200 litres (containing 1 litre of 12 AS)	Weekly	Knapsack/Hand compression Sprayer	Clean Water
				2 litre in 200 Litres of water (100 cc in 10 litre)	Do	Do				Polluted Water
5	Diflubenzuron 25% WP	Insect growth regulator	25% Wettable Powder	100 gms in 100 Litres of water (10 g in 10 litre)	-	-	25 gm a.i (100 litre)	Weekly	Knapsack/Hand compression Sprayer	Clean Water
				200 gms in 100 Litres of water (20 g in 10 litre)			50 gm a.i (100 litre)			Polluted Water
6	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.

Bacillus thuringiensis var. israelensis 5% WP. Registration no. : CIR-1669/2015(353)- Bacillus thuringiensis var. israelensis (WP)-57. Strain : ABIL. Accession no. : NAIMCC-B-01318. Product has been cleared by Technical Advisory Committee (TAC) but file is in process for notification by MOH&FW GoI for inclusion in programme.

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	Used for Outdoor Thermal Fogging
2	Cyphenothrin	Synthetic pyrethroid	5% EC	3.5 g a.i per hectare (7 ml in 1 litres diesel)		