VII STRATEGIES TO OVER COME THE GAPS IN IPM/INN

Chapter VII Table -1
Proposed Strategies for Integrated Nutrient Management

District : Chatra **Crop: Paddy**

Sl. No.	Particulars	AES-I					AES-II					AES-III					AES-IV				
		E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.
1.	**Soil Testing/ Soil Health**	-		F	1,4	1,2	-		F	1,4	1,2	-		F	1,4	1,2	-		F	1,4	1,2
2.	**Use of Manures(mt./ha.)**																				
	FYM	2 tone	10+/ha	P	2,3,4	1-5	2 tone	10+/ha	P	2,3,4	1-5	2 tone	10+/ha	P	2,3,4	1-5	2 tone	10+/ha	P	2,3,4	1-5
	Compost	Nil		F	1,2,3, 4	1-5	Nil		F	1,2,3, 4	1-5	Nil		F	1,2,3, 4	1-5	Nil		F	1,2,3, 4	1-5
	Vermicompost	Nil		F	1,2,3, 4	1-5	Nil		F	1,2,3, 4	1-5	Nil		F	1,2,3, 4	1-5	Nil		F	1,2,3, 4	1-5
3.	**Use of major Fert.**																				
	Basal dose Kg./ha.																				
	N kg/ha	20	20-50 kg/ha	P	1,2,4	1-5	20	20-50 kg/ha	P	1,2,4	1-5	40	20-50 kg/ha	P	1,2,4	1-5	20	20-50 kg/ha	P	1,2,4	1-5
	P kg/ha	30	20-40 kg/ha	P	1,2,4	1-5	30	20-40 kg/ha	P	1,2,4	1-5	30	20-40 kg/ha	P	1,2,4	1-5	30	20-40 kg/ha	P	1,2,4	1-5
	K kg/ha	00	20-40 kg/ha	F	1,2,3, 4	1-5	00	20-40 kg/ha	F	1,2,3, 4	1-5	10	20-40 kg/ha	P	1,2,3, 4	1-5	00	20-40 kg/ha	F	1,2,3, 4	1-5
4.	**Top dress (Kg./ha.)**																				
	N	20	20-50 kg/ha	P	1,3,4	1-5	20	20-50 kg/ha	P	1,3,4	1-5	30	20-50 kg/ha	P	1,3,4	1-5	20	20-50 kg/ha	P	1,3,4	1-5
5.	**Cultivation of Legumes**																				
	As rotational crop	Not done	Pulse crop	F	1,2,4	1-4	Not done	Pulse crop	F	1,2,4	1-4	Not done	Pulse crop	F	1,2,4	1-4	Not done	Pulse crop	F	1,2,4	1-4
	As inter crop	-	-	F	1,2,4	1-4	-	-	F	1,2,4	1-4	-	-	F	1,2,4	1-4	-	-	F	1,2,4	1-4
	As Green mannure	Not done	Greengram/Cowpea, Sunhemp/Sesbania etc	F	1,2,4	1-4	Not done	Greengram/Cowpea, Sunhemp/Sesbania etc	F	1,2,4	1-4	Not done	Greengram/Cowpea, Sunhemp/Sesbania etc	F	1,2,4	1-4	Not done	Greengram/Cowpea, Sunhemp/Sesbania etc	F	1,2,4	1-4
	Use of bio-fertl.(Kg./ha.)	-	Blue Green algae 2 kg/ha	F	1,2,4	1-4	-	Blue Green algae 2 kg/ha	F	1,2,4	1-4	-	Blue Green algae 2 kg/ha	F	1,2,4	1-4	-	Blue Green algae 2 kg/ha	F	1,2,4	1-4
		-	Azolla	F	1,2,4	1-4	-	Azolla	F	1,2,4	1-4	-	Azolla	F	1,2,4	1-4	-	Azolla	F	1,2,4	1-4
		-	Phosphate	F	1,2,4	1-4	-	Phosphate	F	1,2,4	1-4	-	Phosphate	F	1,2,4	1-4	-	Phosphate	F	1,2,4	1-4
		-	Solubilizers	F	1,2,4	1-4	-	Solubilizers	F	1,2,4	1-4	-	Solubilizers	F	1,2,4	1-4	-	Solubilizers	F	1,2,4	1-4
6.	**Any other**																				

Reasons for gap	**Gap in Adoption**	**Proposed Strategy**
1. Lack of knowledge 2. Lack resources 3. Non availability of inputs 4. Unaware of Management practices	N = Nil P = Partial F = Full	1. Training & awareness campaigm 2. Demonstration 3. Exposer visit 4. On farm trail/ORF 5. Soil testing based fertilizer use needed to be strengthened

Chapter VII Table -1
Proposed Strategies for Integrated Nutrient Management

District : Chatra **Crop: Maize**

Sl. No.	Particulars	AES-I					AES-II					AES-III					AES-IV				
		E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.
1	**Soil Testing/ Soil Health**			F	1,4	1,2			F	1,4	1,2			F	1,4	1,2			F	1,4	1,2
2	**Use of Manures(mt./ha.)**																				
	FYM	2 tone	10-15/ha	P	2,3,4	1-5	2 tone	10-15/ha	P	2,3,4	1-5	3 tone	10-15/ha	P	2,3,4	1-5	2 tone	10-15/ha	P	2,3,4	1-5
	Compost	-		F	1,2,3,4	1-5	-		F	1,2,3,4	1-5	-		F	1,2,3,4	1-5	-		F	1,2,3,4	1-5
	Vermicompost	-		F	1,2,3,4	1-5	-		F	1,2,3,4	1-5	-		F	1,2,3,4	1-5	-		F	1,2,3,4	1-5
3.	**Use of major Fert.**																				
	Basal dose Kg./ha.																				
	N	10	30 kg/ha	P	1,2,4	1-5	10	30 kg/ha	P	1,2,4	1-5	25	30 kg/ha	P	1,2,4	1-5	10	30 kg/ha	P	1,2,4	1-5
	P	10	60 kg/ha	P	1,2,4	1-5	10	60 kg/ha	P	1,2,4	1-5	20	60 kg/ha	P	1,2,4	1-5	10	60 kg/ha	P	1,2,4	1-5
	K	00	40 kg/ha	F	1,2,3,4	1-5	00	40 kg/ha	F	1,2,3,4	1-5	10	40 kg/ha	P	1,2,3,4	1-5	00	40 kg/ha	F	1,2,3,4	1-5
4.	**Top dress (Kg./ha.)**																				
	N	30	30-40 kg/ha	P	1,3,4	1-5	30	30-40 kg/ha	P	1,3,4	1-5	30	30-40 kg/ha	P	1,3,4	1-5	30	30-40 kg/ha	P	1,3,4	1-5
5.	**Cultivation of Legumes**																				
	As rotational crop	-	Pigeonpea, Cowpea	F	1,2,4	1-4	-	Pigeonpea, Cowpea	F	1,2,4	1-4	-	Pigeonpea, Cowpea	F	1,2,4	1-4	-	Pigeonpea, Cowpea	F	1,2,4	1-4
	As inter crop	Ground nut	Soybean, Groundnut Cowpea	p	1,2,4	1-4	Groun dnut	Soybean, Groundnut Cowpea	p	1,2,4	1-4	Ground nut	Soybean, Groundnut Cowpea	p	1,2,4	1-4	Groun dnut	Soybean, Groundnut Cowpea	p	1,2,4	1-4
	As Green mannure	-	-	F	1,2,4	1-4	-	-	F	1,2,4	1-4	-	-	F	1,2,4	1-4	-	-	F	1,2,4	1-4
	Use of bio-fertl.(Kg./ha.)	-	Azotobocter	F	1,2,4	1-4	-	Azotobocter	F	1,2,4	1-4	-	Azotobocter	F	1,2,4	1-4	-	Azotobocter	F	1,2,4	1-4
		-	Phosphate Solubilizers	F	1,2,4	1-4	-	Phosphate Solubilizers	F	1,2,4	1-4	-	Phosphate Solubilizers	F	1,2,4	1-4	-	Phosphate Solubilizers	F	1,2,4	1-4
6.	**Any other**																				

Reasons for gap	**Gap in Adoption**	**Proposed Strategy**
1. Lack of knowledge 2. Lack resources 3. Non availability of inputs 4. Unaware of Management practices	N = Nil P = Partial F = Full	1. Training & awareness campaigm 2. Demonstration 3. Exposer visit 4. On farm trail/ORF 5. Soil testing based fertilizer use needed to be strengthened

Chapter VII Table -1
Proposed Strategies for Integrated Nutrient Management

District : Chatra **Crop: Wheat**

Sl. No.	Particulars	AES-I					AES-II					AES-III					AES-IV				
		E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.
1.	**Soil Testing/ Soil Health**	-		F	1,4	1,2	-		F	1,4	1,2	-		F	1,4	1,2	-		F	1,4	1,2
2.	**Use of Manures(mt./ha.)**																				
	FYM	2 tone	5-10/ha	P	2,3,4	1-5	2 tone	5-10/ha	P	2,3,4	1-5	2 tone	5-10/ha	P	2,3,4	1-5	2 tone	5-10/ha	P	2,3,4	1-5
	Compost	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-
	Vermicompost	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-
3.	**Use of major Fert.**																				
	Basal dose Kg./ha.																				
	N	30	50 kg/ha	P	1,2,4	1-5	30	50 kg/ha	P	1,2,4	1-5	20	50 kg/ha	P	1,2,4	1-5	30	50 kg/ha	P	1,2,4	1-5
	P	20	50 kg/ha	P	1,2,4	1-5	20	50 kg/ha	P	1,2,4	1-5	40	50 kg/ha	P	1,2,4	1-5	20	50 kg/ha	P	1,2,4	1-5
	K	00	25 kg/ha	F	1,2,3, 4	1-5	00	25 kg/ha	F	1,2,3, 4	1-5	10	25 kg/ha	P	1,2,3, 4	1-5	00	25 kg/ha	F	1,2,3, 4	1-5
4.	**Top dress (Kg./ha.)**																				
	N	10	50 kg/ha	P	1,3,4	1-5	10	50 kg/ha	P	1,3,4	1-5	20	50 kg/ha	P	1,3,4	1-5	10	50 kg/ha	P	1,3,4	1-5
5.	**Cultivation of Legumes**																				
	As rotational crop	-	Moong/Urad/Soyabeen	F	1,2,4	1-4	-	Moong/Urad /Soyabeen	F	1,2,4	1-4	-	Moong/Urad /Soyabeen	F	1,2,4	1-4	-	Moong/Urad /Soyabeen	F	1,2,4	1-4
	As inter crop	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	As Green mannure	-	Sunhemp, Greengram, Cowpea etc.	F	1,2,4	1-4	-	Sunhemp, Greengram, Cowpea etc.	F	1,2,4	1-4	-	Sunhemp, Greengram, Cowpea etc.	F	1,2,4	1-4	-	Sunhemp, Greengram, Cowpea etc.	F	1,2,4	1-4
	Use of bio-fertl.(Kg./ha.)	-	Azotobocter Azospirillum	F	1,2,4	1-4	-	Azotobocter Azospirillum	F	1,2,4	1-4	-	Azotobocter Azospirillum	F	1,2,4	1-4	-	Azotobocter Azospirillum	F	1,2,4	1-4
			Phosphate Solubilizers	F	1,2,4	1-4		Phosphate Solubilizers	F	1,2,4	1-4		Phosphate Solubilizers	F	1,2,4	1-4		Phosphate Solubilizers	F	1,2,4	1-4
6.	**Any other**																				

Reasons for gap	**Gap in Adoption**	**Proposed Strategy**
1. Lack of knowledge 2. Lack resources 3. Non availability of inputs 4. Unaware of Management practices	N = Nil P = Partial F = Full	1. Training & awareness campaigm 2. Demonstration 3. Exposer visit 4. On farm trail/ORF 5. Soil testing based fertilizer use needed to be strengthened

Chapter VII Table -1
Proposed Strategies for Integrated Nutrient Management

District : Chatra **Crop: Arhar**

Sl. No.	Particulars	AES-I					AES-II					AES-III					AES-IV				
		E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.
1.	**Soil Testing/ Soil Health**	-					-					-					-				
2.	**Use of Manures(mt./ha.)**																				
	FYM	1 tone	5 tone	P	2,3,4	1-5	1 tone	5 tone	P	2,3,4	1-5	1 tone	5 tone	P	2,3,4	1-5	1 tone	5 tone	P	2,3,4	1-5
	Compost	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-
	Vermicompost	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-
3.	**Use of major Fert.**																				
	Basal dose Kg./ha.																				
	N	50	20 kg/ha	P	1,2,4	1-5	50	20 kg/ha	P	1,2,4	1-5	50	20 kg/ha	P	1,2,4	1-5	50	20 kg/ha	P	1,2,4	1-5
	P	1	40 kg/ha	P	1,2,4	1-5	1	40 kg/ha	P	1,2,4	1-5	5	40 kg/ha	P	1,2,4	1-5	1	40 kg/ha	P	1,2,4	1-5
	K	0	20 kg/ha	F	1,2,3,4	1-5	0	20 kg/ha	F	1,2,3,4	1-5	0	20 kg/ha	F	1,2,3,4	1-5	0	20 kg/ha	F	1,2,3,4	1-5
4.	**Top dress (Kg./ha.)**																				
	N	5	10	P	1,3,4	1-5	5	10	P	1,3,4	1-5	7	10	P	1,3,4	1-5	5	10	P	1,3,4	1-5
5.	**Cultivation of Legumes**																				
	As rotational crop	-	Greengram, Blackgram	F	1,2,4	1-4	-	Greengram, Blackgram	F	1,2,4	1-4	-	Greengram, Blackgram	F	1,2,4	1-4	-	Greengram, Blackgram	F	1,2,4	1-4
	As inter crop	Upland rice	Upland rice	N	-	-	Upland rice	Upland rice	N	-	-	Upland rice	Upland rice	N	-	-	Upland rice	Upland rice	N	-	-
	As Green mannure	-	Niger, Maize	F	1,2,4	1-4	-	Niger, Maize	F	1,2,4	1-4	-	Niger, Maize	F	1,2,4	1-4	-	Niger, Maize	F	1,2,4	1-4
	Use of bio-fertl.(Kg./ha.)	-	Rhizobium	F	1,2,4	1-4	-	Rhizobium	F	1,2,4	1-4	-	Rhizobium	F	1,2,4	1-4	-	Rhizobium	F	1,2,4	1-4
		-	Phosphate Solubilizers	F	1,2,4	1-4	-	Phosphate Solubilizers	F	1,2,4	1-4	-	Phosphate Solubilizers	F	1,2,4	1-4	-	Phosphate Solubilizers	F	1,2,4	1-4
6.	**Any other**																				

Reasons for gap	**Gap in Adoption**	**Proposed Strategy**
1. Lack of knowledge 2. Lack resources 3. Non availability of inputs 4. Unaware of Management practices	N = Nil P = Partial F = Full	1. Training & awareness campaigm 2. Demonstration 3. Exposer visit 4. On farm trail/ORF 5. Soil testing based fertilizer use needed to be strengthened

Chapter VII Table -1
Proposed Strategies for Integrated Nutrient Management

District : Chatra **Crop: Nizer**

Sl. No.	Particulars	AES-I					AES-II					AES-III					AES-IV				
		E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.
1.	**Soil Testing/ Soil Health**	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-
2.	**Use of Manures(mt./ha.)**																				
	FYM	-	5 tone	F	2,3,4	1-5	-	5 tone	F	2,3,4	1-5	-	5 tone	F	2,3,4	1-5	-	5 tone	F	2,3,4	1-5
	Compost	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-
	Vermicompost	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-
3.	**Use of major Fert.**																				
	Basal dose Kg./ha.																				
	N	5	20 kg/ha	P	1,2,4	1-5	5	20 kg/ha	P	1,2,4	1-5	5	20 kg/ha	P	1,2,4	1-5	5	20 kg/ha	P	1,2,4	1-5
	P	-	20 kg/ha	F	1,2,4	1-5	-	20 kg/ha	F	1,2,4	1-5	-	20 kg/ha	F	1,2,4	1-5	-	20 kg/ha	F	1,2,4	1-5
	K	-	15 kg/ha	F	1,2,3, 4	1-5	-	15 kg/ha	F	1,2,3, 4	1-5	-	15 kg/ha	F	1,2,3, 4	1-5	-	15 kg/ha	F	1,2,3, 4	1-5
4.	**Top dress (Kg./ha.)**																				
	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.	**Cultivation of Legumes**																				
	As rotational crop	-	Moong/Gram	F	1,2,4	1-4	-	Moong/Gra m	F	1,2,4	1-4	-	Moong/Gra m	F	1,2,4	1-4	-	Moong/Gra m	F	1,2,4	1-4
	As inter crop	-	Arhar	F	1,2,4	1-4	-	Arhar	F	1,2,4	1-4	-	Arhar	F	1,2,4	1-4	-	Arhar	F	1,2,4	1-4
	As Green mannure	-	Cowpea, Dhaincha	F	1,2,4	1-4	-	Cowpea, Dhaincha	F	1,2,4	1-4	-	Cowpea, Dhaincha	F	1,2,4	1-4	-	Cowpea, Dhaincha	F	1,2,4	1-4
	Use of bio-fertl.(Kg./ha.)	-	Phosphate Solubilizers	F	1,2,4	1-4	-	Phosphate Solubilizers	F	1,2,4	1-4	-	Phosphate Solubilizers	F	1,2,4	1-4	-	Phosphate Solubilizers	F	1,2,4	1-4
6.	**Any other**																				

Reasons for gap	**Gap in Adoption**	**Proposed Strategy**
1. Lack of knowledge 2. Lack resources 3. Non availability of inputs 4. Unaware of Management practices	N = Nil P = Partial F = Full	1. Training & awareness campaigm 2. Demonstration 3. Exposer visit 4. On farm trail/ORF 5. Soil testing based fertilizer use needed to be strengthened

Chapter VII Table -1
Proposed Strategies for Integrated Nutrient Management

District : Chatra **Crop: Potato**

Sl. No.	Particulars	AES-I					AES-II					AES-III					AES-IV				
		E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.
1.	**Soil Testing/ Soil Health**	-	To be done	-	-	-	-	To be done	-	-	-	-	To be done	-	-	-	-	To be done	-	-	-
2.	**Use of Manures(mt./ha.)**																				
	FYM	15	20-25 kg/ha	P	2,3,4	1-5	15	20-25 kg/ha	P	2,3,4	1-5	20	20-25 kg/ha	P	2,3,4	1-5	15	20-25 kg/ha	P	2,3,4	1-5
	Compost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vermicompost	-	4-5 kg/ha	F	2,3,4	1-5	-	4-5 kg/ha	F	2,3,4	1-5	-	4-5 kg/ha	F	2,3,4	1-5	-	4-5 kg/ha	F	2,3,4	1-5
3.	**Use of major Fert.**																				
	Basal dose Kg./ha.																				
	N kg/ha	20	50 kg/ha	P	1,2,4	1-5	20	50 kg/ha	P	1,2,4	1-5	30	50 kg/ha	P	1,2,4	1-5	20	50 kg/ha	P	1,2,4	1-5
	P kg/ha	50	90 kg/ha	P	1,2,4	1-5	50	90 kg/ha	P	1,2,4	1-5	60	90 kg/ha	P	1,2,4	1-5	50	90 kg/ha	P	1,2,4	1-5
	K kg/ha	20	100 kg/ha	P	1,2,3,4	1-5	20	100 kg/ha	P	1,2,3,4	1-5	25	100 kg/ha	P	1,2,3,4	1-5	20	100 kg/ha	P	1,2,3,4	1-5
4.	**Top dress (Kg./ha.)**																				
	N	40	50 kg/ha	P	1,2,3,4	1-5	40	50 kg/ha	P	1,2,3,4	1-5	40	50 kg/ha	P	1,2,3,4	1-5	40	50 kg/ha	P	1,2,3,4	1-5
5.	**Cultivation of Legumes**																				
	As rotational crop	-	Frenchbeen	F	1,2,4	1-4	-	Frenchbeen	F	1,2,4	1-4	-	Frenchbeen	F	1,2,4	1-4	-	Frenchbeen	F	1,2,4	1-4
	As inter crop	Mustard, Bean	Beans, Cabbage, Cucumber	P	1,2,4	1-4	Mustard, Bean	Beans, Cabbage, Cucumber	P	1,2,4	1-4	Mustard, Bean	Beans, Cabbage, Cucumber	P	1,2,4	1-4	Mustard, Bean	Beans, Cabbage, Cucumber	P	1,2,4	1-4
	As Green mannure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Use of bio-fertl.(Kg./ha.)	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4
6.	**Any other**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reasons for gap	**Gap in Adoption**	**Proposed Strategy**
1. Lack of knowledge 2. Lack resources 3. Non availability of inputs 4. Unaware of Management practices	N = Nil P = Partial F = Full	1. Training & awareness campaigm 2. Demonstration 3. Exposer visit 4. On farm trail/ORF 5. Soil testing based fertilizer use needed to be strengthened

Chapter VII Table -1
Proposed Strategies for Integrated Nutrient Management

District : Chatra **Crop: Tomato**

Sl. No.	Particulars	AES-I					AES-II					AES-III					AES-IV				
		E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.
1.	**Soil Testing/ Soil Health**	-	To be done	F	2,3,4	1-5	-	To be done	F	2,3,4	1-5	-	To be done	F	2,3,4	1-5	-	To be done	F	2,3,4	1-5
2.	**Use of Manures(mt./ha.)**																				
	FYM	7	15-20 kg/ha	P	2,3,4	1-5	7	15-20 kg/ha	P	2,3,4	1-5	7	15-20 kg/ha	P	2,3,4	1-5	7	15-20 kg/ha	P	2,3,4	1-5
	Compost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vermicompost	-	4 kg/ha	F	2,3,4	1-5	-	4 kg/ha	F	2,3,4	1-5	-	4 kg/ha	F	2,3,4	1-5	-	4 kg/ha	F	2,3,4	1-5
3.	**Use of major Fert.**																				
	Basal dose Kg./ha.																				
	N	10	60 kg/ha	P	1,2,4	1-5	10	60 kg/ha	P	1,2,4	1-5	20	60 kg/ha	P	1,2,4	1-5	10	60 kg/ha	P	1,2,4	1-5
	P	50	80 kg/ha	P	1,2,4	1-5	50	80 kg/ha	P	1,2,4	1-5	60	80 kg/ha	P	1,2,4	1-5	50	80 kg/ha	P	1,2,4	1-5
	K	00	60 kg/ha	F	1,2,3, 4	1-5	00	60 kg/ha	F	1,2,3, 4	1-5	10	60 kg/ha	P	1,2,3, 4	1-5	00	60 kg/ha	F	1,2,3, 4	1-5
4.	**Top dress (Kg./ha.)**																				
	N	10	60 kg/ha	P	1,2,3, 4	1-5	10	60 kg/ha	P	1,2,3, 4	1-5	20	60 kg/ha	P	1,2,3, 4	1-5	10	60 kg/ha	P	1,2,3, 4	1-5
5.	**Cultivation of Legumes**																				
	As rotational crop	-	Frenchbean/Pea	F	1,2,4	1-4	-	Frenchbean/ Pea	F	1,2,4	1-4	-	Frenchbean/ Pea	F	1,2,4	1-4	-	Frenchbean/ Pea	F	1,2,4	1-4
	As inter crop	-	Onion, Carrot, Radish, Chinies cabbage	F	1,2,4	1-4	-	Onion, Carrot, Radish, Chinies cabbage	F	1,2,4	1-4	-	Onion, Carrot, Radish, Chinies cabbage	F	1,2,4	1-4	-	Onion, Carrot, Radish, Chinies cabbage	F	1,2,4	1-4
	As Green mannure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Use of bio-fertl.(Kg./ha.)	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4
6.	**Any other**			-	-	-			-	-	-			-	-	-			-	-	-

Reasons for gap	**Gap in Adoption**	**Proposed Strategy**
1. Lack of knowledge 2. Lack resources 3. Non availability of inputs 4. Unaware of Management practices	N = Nil P = Partial F = Full	1. Training & awareness campaigm 2. Demonstration 3. Exposer visit 4. On farm trail/ORF 5. Soil testing based fertilizer use needed to be strengthened

Chapter VII Table -1
Proposed Strategies for Integrated Nutrient Management

District : Chatra **Crop: Chilli**

Sl. No.	Particulars	AES-I					AES-II					AES-III					AES-IV				
		E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.	E.P	R.P.	G.A.	R.G.	P.S.
1.	**Soil Testing/ Soil Health**	-	To be done	F	2,3,4	1-5	-	To be done	F	2,3,4	1-5	-	To be done	F	2,3,4	1-5	-	To be done	F	2,3,4	1-5
2.	**Use of Manures(mt./ha.)**																				
	FYM	8	15-20 kg/ha	P	2,3,4	1-5	8	15-20 kg/ha	P	2,3,4	1-5	8	15-20 kg/ha	P	2,3,4	1-5	8	15-20 kg/ha	P	2,3,4	1-5
	Compost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vermicompost	-	4 kg/ha	F	2,3,4	1-5	-	4 kg/ha	F	2,3,4	1-5	-	4 kg/ha	F	2,3,4	1-5	-	4 kg/ha	F	2,3,4	1-5
3.	**Use of major Fert.**																				
	Basal dose Kg./ha.																				
	N	10	50 kg/ha	P	1,2,4	1-5	10	50 kg/ha	P	1,2,4	1-5	20	50 kg/ha	P	1,2,4	1-5	10	50 kg/ha	P	1,2,4	1-5
	P	20	60 kg/ha	P	1,2,4	1-5	20	60 kg/ha	P	1,2,4	1-5	30	60 kg/ha	P	1,2,4	1-5	20	60 kg/ha	P	1,2,4	1-5
	K	-	60 kg/ha	F	1,2,3, 4	1-5	-	60 kg/ha	F	1,2,3, 4	1-5	10	60 kg/ha	P	1,2,3, 4	1-5	-	60 kg/ha	F	1,2,3, 4	1-5
4.	**Top dress (Kg./ha.)**																				
	N	10	50 kg/ha	P	1,2,3, 4	1-5	10	50 kg/ha	P	1,2,3, 4	1-5	15	50 kg/ha	P	1,2,3, 4	1-5	10	50 kg/ha	P	1,2,3, 4	1-5
5.	**Cultivation of Legumes**																				
	As rotational crop	-	Frenchbean	F	1,2,4	1-4	-	Frenchbean	F	1,2,4	1-4	-	Frenchbean	F	1,2,4	1-4	-	Frenchbean	F	1,2,4	1-4
	As inter crop	-	-	F	1,2,4	1-4	-	-	F	1,2,4	1-4	-	-	F	1,2,4	1-4	-	-	F	1,2,4	1-4
	As Green mannure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Use of bio-fertl.(Kg./ha.)	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4	-	Aqotobacter 0.5 kg/ha Phosphate Solubilizers	F	1,2,4	1-4
6.	**Any other**	-	VAM	F	1,2,4	1-4	-	VAM	F	1,2,4	1-4	-	VAM	F	1,2,4	1-4	-	VAM	F	1,2,4	1-4

Reasons for gap	**Gap in Adoption**	**Proposed Strategy**
1. Lack of knowledge 2. Lack resources 3. Non availability of inputs 4. Unaware of Management practices	N = Nil P = Partial F = Full	1. Training & awareness campaigm 2. Demonstration 3. Exposer visit 4. On farm trail/ORF 5. Soil testing based fertilizer use needed to be strengthened

Chapter VII **Table -II**

Proposed Strategies for Integrated Pest Management

District: Chatra

Name of the Pest Stem Borer, Hispa, Leaf Folder, & Diseases like blast, Blight etc.

Crop:Paddy

Sl. No.	Particulars	AES I					AES II					AES III					AES IV				
		R.P.	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**
1	**Cultural Practices**	Deep repeated ploughing	-	P	1,2,3,4	1,2,3,4	Deep repeated ploughing	-	P	1,2,3,4	1,2,3,4	Deep repeated ploughing	-	P	1,2,3,4	1,2,3,4	Deep repeated ploughing	-	P	1,2,3,4	1,2,3,4
	Summer ploughing	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4
	Timely sowing	Y	Y	N	-		Y	Y	N	-		Y	Y	N	-		Y	Y	N	-	
	Clean Cultivation	Y	N	F	1,2,3,4		Y	N	F	1,2,3,4		Y	N	F	1,2,3,4		Y	N	F	1,2,3,4	
2	**Resistance Varieties**	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5
3	**Bio-pesticides (Y/N)**	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4
	Neem Products	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	NPV	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	VT	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
4	**Bioagents**																				
	Egg parasite	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4
	Larvel prasite	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4
5	**Other practices**																				

	Pheronmone Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
	Light Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**																			
	Spraying	2	1	P	1,2,3,4	1,2,3,4	2	1	P	1,2,3,4	1,2,3,4	2	1	P	1,2,3,4	1,2,3,4	2	1	P	1,2,3,4	1,2,3,4
	Dusting	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4
	Seed Treatment	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4
	Soil application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Granular application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
7	**Any other**																			
	Seedling trreament	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Conservation of nuturala enemy (Frog)	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4

Reasons for gap		**Gap in Adoption**	**Proposed Strategy**	
1. Lack of knowledge	3. Non availability of inputs	N = Nil	1. Training & awareness campaigm	4. On farm trail/ORF
2. Lack resources	4. Unaware of Management practices	P = Partial	2. Demonstration	5. Research is needed for resistant variety having nearer taste to local variety
		F = Full	3. Exposer visit	

Chapter VII **Table -II**

Proposed Strategies for Integrated Pest Management

District: Chatra

Name of the Pest Stem Borer, Hispa, Leaf Folder, & Diseases like blast, Blight etc.

Crop:Maize

Sl. No.	Particulars	AES I					AES II					AES III					AES IV				
		R.P.	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**
1	**Cultural Practices**	Deep repeated ploughing	Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing	Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing	Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing	Shallow ploughing	P	1,2,3,4	1,2,3,4
	Summer ploughing	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4
	Timely sowing	Y	Y	N	-		Y	Y	N	-		Y	Y	N	-		Y	Y	N	-	
	Clean Cultivation	Y	N	F	1,2,3,4		Y	N	F	1,2,3,4		Y	N	F	1,2,3,4		Y	N	F	1,2,3,4	
2	**Resistance Varieties**	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5
3	**Bio-pesticides (Y/N)**	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4
	Neem Products	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	NPV	Bt-Spray	N	F	1,2,3,4	1,2,3,4	Bt-Spray	N	F	1,2,3,4	1,2,3,4	Bt-Spray	N	F	1,2,3,4	1,2,3,4	Bt-Spray	N	F	1,2,3,4	1,2,3,4
	VT	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
4	**Bioagents**																				
	Egg parasite	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4
	Larvel parasite	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4	Trichogramma	-	F	1,2,3,4	1,2,3,4

5	**Other practices**																				
	Pheronmone Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
	Light Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**																				
	Spraying	2-3	1	P	1,2,3,4	1,2,3,4	2-3	1	P	1,2,3,4	1,2,3,4	2-3	1	P	1,2,3,4	1,2,3,4	2-3	1	P	1,2,3,4	1,2,3,4
	Dusting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Seed Treatment	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4
	Soil application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Granular application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
7	**Any other**																				
	Seedling trreament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Conservation of nuturala enemy (Frog)	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4

Reasons for gap		**Gap in Adoption**	**Proposed Strategy**	
1. Lack of knowledge	3. Non availability of inputs	N = Nil	1. Training & awareness campaigm	4. On farm trail/ORF
2. Lack resources	4. Unaware of Management practices	P = Partial	2. Demonstration	5. Research is needed for resistant variety having nearer taste to local variety
		F = Full	3. Exposer visit	

Chapter VII **Table -II**

Proposed Strategies for Integrated Pest Management

District: Chatra

Name of the Pest Stem Borer, Hispa, Leaf Folder, & Diseases like blast, Blight etc.

Crop:Wheat

Sl. No.	Particulars	AES I					AES II					AES III					AES IV				
		R.P.	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**
1	**Cultural Practices**	Deep repeated ploughing	1-2 Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing	1-2 Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing	1-2 Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing	1-2 Shallow ploughing	P	1,2,3,4	1,2,3,4
	Summer ploughing	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4
	Timely sowing	Y	Y	N	-		Y	Y	N	-		Y	Y	N	-		Y	Y	N	-	
	Clean Cultivation	Y	N	F	1,2,3,4		Y	N	F	1,2,3,4		Y	N	F	1,2,3,4		Y	N	F	1,2,3,4	
2	**Resistance Varieties**	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5
3	**Bio-pesticides (Y/N)**	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4
	Neem Products	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	NPV	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	VT	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
4	**Bioagents**																				
	Egg parasite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Larvel parasite	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
5	**Other practices**																				

	Pheronmone Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
	Light Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**																			
	Spraying	2	1	P	1,2,3,4	1,2,3,4	2	1	P	1,2,3,4	1,2,3,4	2	1	P	1,2,3,4	1,2,3,4	2	1	P	1,2,3,4	1,2,3,4
	Dusting	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4
	Seed Treatment	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4
	Soil application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Granular application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
7	**Any other**																			
	Seedling trreament	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Conservation of nuturala enemy (Frog)	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Use of Karanj cack, Neem cake	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4

Reasons for gap		**Gap in Adoption**	**Proposed Strategy**	
1. Lack of knowledge	3. Non availability of inputs	N = Nil	1. Training & awareness campaigm	4. On farm trail/ORF
2. Lack resources	4. Unaware of Management practices	P = Partial	2. Demonstration	5. Research is needed for resistant variety having nearer taste to local variety
		F = Full	3. Exposer visit	

Chapter VII **Table -II**

Proposed Strategies for Integrated Pest Management

District: Chatra

Name of the Pest Stem Borer, Hispa, Leaf Folder, & Diseases like blast, Blight etc.

Crop:Arhar

Sl. No.	Particulars	AES I					AES II					AES III					AES IV				
		R.P.	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**
1	**Cultural Practices**	Deep repeated ploughing	1-2 Shallow ploughing	P	1,2,3 ,4	1,2,3 ,4	Deep repeated ploughing	1-2 Shallow ploughing	P	1,2,3 ,4	1,2,3 ,4	Deep repeated ploughing	1-2 Shallow ploughing	P	1,2,3 ,4	1,2,3 ,4	Deep repeated ploughing	1-2 Shallow ploughing	P	1,2,3 ,4	1,2,3 ,4
	Summer ploughing	Deep ploughing	N	P	1,3,4	1,2,3 ,4	Deep ploughing	N	P	1,3,4	1,2,3 ,4	Deep ploughing	N	P	1,3,4	1,2,3 ,4	Deep ploughing	N	P	1,3,4	1,2,3 ,4
	Timely sowing	Y	Y	N	-		Y	Y	N	-		Y	Y	N	-		Y	Y	N	-	
	Clean Cultivation	Y	N	F	1,2,3 ,4		Y	N	F	1,2,3 ,4		Y	N	F	1,2,3 ,4		Y	N	F	1,2,3 ,4	
2	**Resistance Varieties**	Y	Local varieties	F	1,2,3 ,4	1,2,3 ,4,5	Y	Local varieties	F	1,2,3 ,4	1,2,3 ,4,5	Y	Local varieties	F	1,2,3 ,4	1,2,3 ,4,5	Y	Local varieties	F	1,2,3 ,4	1,2,3 ,4,5
3	**Bio-pesticides (Y/N)**	Y	N	F	1-4	1,2,3 ,4	Y	N	F	1-4	1,2,3 ,4	Y	N	F	1-4	1,2,3 ,4	Y	N	F	1-4	1,2,3 ,4
	Neem Products	Y	N	F	1,2,3 ,4	1,2,3 ,4	Y	N	F	1,2,3 ,4	1,2,3 ,4	Y	N	F	1,2,3 ,4	1,2,3 ,4	Y	N	F	1,2,3 ,4	1,2,3 ,4
	NPV	Y	N	F	1,2,3 ,4	1,2,3 ,4	Y	N	F	1,2,3 ,4	1,2,3 ,4	Y	N	F	1,2,3 ,4	1,2,3 ,4	Y	N	F	1,2,3 ,4	1,2,3 ,4
	Trichodrama specific	Y	N	F	1,2,3 ,4	1,2,3 ,4	Y	N	F	1,2,3 ,4	1,2,3 ,4	Y	N	F	1,2,3 ,4	1,2,3 ,4	Y	N	F	1,2,3 ,4	1,2,3 ,4
4	**Bioagents**																				
	Egg parasite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Larvel parasite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5	**Other practices**																				
	Pheronmone Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
	Light Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**																				
	Spraying	2-3	1	P	1,2,3,4	1,2,3,4	2-3	1	P	1,2,3,4	1,2,3,4	2-3	1	P	1,2,3,4	1,2,3,4	2-3	1	P	1,2,3,4	1,2,3,4
	Dusting	-	-	F	1,2,3,4	1,2,3,4	-	-	F	1,2,3,4	1,2,3,4	-	-	F	1,2,3,4	1,2,3,4	-	-	F	1,2,3,4	1,2,3,4
	Seed Treatment	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4
	Soil application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Granular application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
7	**Any other**																				
	Seedling trreament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Conservation of nuturala enemy (Frog)	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Use of Karanj cack, Neem cake	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4

Reasons for gap		**Gap in Adoption**	**Proposed Strategy**	
1. Lack of knowledge	3. Non availability of inputs	N = Nil	1. Training & awareness campaigm	4. On farm trail/ORF
2. Lack resources	4. Unaware of Management practices	P = Partial	2. Demonstration	5. Research is needed for resistant variety having nearer taste to local variety
		F = Full	3. Exposer visit	

Chapter VII **Table -II**

Proposed Strategies for Integrated Pest Management

District: Chatra

Name of the Pest Stem Borer, Hispa, Leaf Folder, & Diseases like blast, Blight etc.

Crop:Potato

Sl. No.	Particulars	AES I					AES II					AES III					AES IV				
		R.P.	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**
1	**Cultural Practices**	Deep repeated ploughing Crop rotation	Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing Crop rotation	Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing Crop rotation	Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing Crop rotation	Shallow ploughing	P	1,2,3,4	1,2,3,4
	Summer ploughing	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4
	Timely sowing	Y	Y	N	-		Y	Y	N	-		Y	Y	N	-		Y	Y	N	-	
	Clean Cultivation	Y	Y	P	1,2,3,4		Y	Y	P	1,2,3,4		Y	Y	P	1,2,3,4		Y	Y	P	1,2,3,4	
2	**Resistance Varieties**	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5	Y	Local varieties	F	1,2,3,4	1,2,3,4,5
3	**Bio-pesticides (Y/N)**	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4
	Neem Products	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	NPV	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	VT	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
4	**Bioagents**																				
	Egg parasite	Trichgramma	N	F	1,2,3,4	1,2,3,4	Trichgramma	N	F	1,2,3,4	1,2,3,4	Trichgramma	N	F	1,2,3,4	1,2,3,4	Trichgramma	N	F	1,2,3,4	1,2,3,4
	Larvel parasite	Trichoderma Viridi	-	F	1,2,3,4	1,2,3,4	Trichoderma Viridi	-	F	1,2,3,4	1,2,3,4	Trichoderma Viridi	-	F	1,2,3,4	1,2,3,4	Trichoderma Viridi	-	F	1,2,3,4	1,2,3,4

		@ 2-4 gram/kg seed					@ 2-4 gram/kg seed					@ 2-4 gram/kg seed					@ 2-4 gram/kg seed				
5	**Other practices**																				
	Pheronmone Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
	Light Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**																				
	Spraying	3-4	1	P	1,2,3,4	1,2,3,4	3-4	1	P	1,2,3,4	1,2,3,4	3-4	1	P	1,2,3,4	1,2,3,4	3-4	1	P	1,2,3,4	1,2,3,4
	Dusting	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4
	Seed Treatment	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4
	Soil application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Granular application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
7	**Any other**																				
	Seedling trreament	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Conservation of nuturala enemy (Frog)	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Use of Karanj cack, Neem cake	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4

Reasons for gap		**Gap in Adoption**	**Proposed Strategy**	
1. Lack of knowledge	3. Non availability of inputs	N = Nil	1. Training & awareness campaigm	4. On farm trail/ORF
2. Lack resources	4. Unaware of Management practices	P = Partial	2. Demonstration	5. Research is needed for resistant variety having nearer taste to local variety
		F = Full	3. Exposer visit	

Chapter VII **Table -II**

Proposed Strategies for Integrated Pest Management

District: Chatra

Name of the Pest Stem Borer, Hispa, Leaf Folder, & Diseases like blast, Blight etc.

Crop:Tomato

Sl. No.	Particulars	AES I					AES II					AES III					AES IV				
		R.P.	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**	**R.P.**	**E.P**	**G.A.**	**R.G.**	**P.S.**
1	**Cultural Practices**	Deep repeated ploughing Crop rotation Use of trap crop	Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing Crop rotation Use of trap crop	Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing Crop rotation Use of trap crop	Shallow ploughing	P	1,2,3,4	1,2,3,4	Deep repeated ploughing Crop rotation Use of trap crop	Shallow ploughing	P	1,2,3,4	1,2,3,4
	Summer ploughing	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4	Deep ploughing	Shallow ploughing	P	1,3,4	1,2,3,4
	Timely sowing	Y	Y	N	-		Y	Y	N	-		Y	Y	N	-		Y	Y	N	-	
	Clean Cultivation	Y	N	F	1,2,3,4		Y	N	F	1,2,3,4		Y	N	F	1,2,3,4		Y	N	F	1,2,3,4	
2	**Resistance Varieties**	Y	N	F	1,2,3,4	1,2,3,4,5	Y	N	F	1,2,3,4	1,2,3,4,5	Y	N	F	1,2,3,4	1,2,3,4,5	Y	N	F	1,2,3,4	1,2,3,4,5
3	**Bio-pesticides (Y/N)**	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4	Y	N	F	1-4	1,2,3,4
	Neem Products	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	NPV	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	VT	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
4	**Bioagents**																				
	Egg parasite	Trichgramma	-	F	1,2,3,4	1,2,3,4	Trichgramma	-	F	1,2,3,4	1,2,3,4	Trichgramma	-	F	1,2,3,4	1,2,3,4	Trichgramma	-	F	1,2,3,4	1,2,3,4

	Larvel prasite	Trichoderma Viridi @ 2-4 gram/kg seed	-	F	1,2,3,4	1,2,3,4	Trichoderma Viridi @ 2-4 gram/kg seed	-	F	1,2,3,4	1,2,3,4	Trichoderma Viridi @ 2-4 gram/kg seed	-	F	1,2,3,4	1,2,3,4	Trichoderma Viridi @ 2-4 gram/kg seed	-	F	1,2,3,4	1,2,3,4
5	**Other practices**																				
	Pheronmone Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
	Light Trap	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4	5 trap/ha	-	F	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**																				
	Spraying	3-4	1-2	P	1,2,3,4	1,2,3,4	3-4	1-2	P	1,2,3,4	1,2,3,4	3-4	1-2	P	1,2,3,4	1,2,3,4	3-4	1-2	P	1,2,3,4	1,2,3,4
	Dusting	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4
	Seed Treatment	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4	1	-	F	1,2,3,4	1,2,3,4
	Soil application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Granular application	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
7	**Any other**																				
	Seedling trreament	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Conservation of nuturala enemy (Frog)	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4	Y	N	F	1,2,3,4	1,2,3,4
	Use of Karanj cack, Neem cake	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4	250 kg/ha	N	F	1,2,3,4	1,2,3,4

Reasons for gap		**Gap in Adoption**	**Proposed Strategy**	
1. Lack of knowledge	3. Non availability of inputs	N = Nil	1. Training & awareness campaigm	4. On farm trail/ORF
2. Lack resources	4. Unaware of Management practices	P = Partial	2. Demonstration	5. Research is needed for resistant variety having nearer taste to local variety
		F = Full	3. Exposer visit	

Chapter VII **Table -III**

STRATEGIES FOR INTEGRATED PEST MANGT.

District:Chatra **Crop: Paddy**

Sl. No.	Particulars	Gap in adoption in the Pest Mngt. in different AES in the dist.				Reasons for gap in adoption as perceived by the farmers *	Strategies as perceived by the farmers **	Strategies proposed to overcome the gap ***
		AES-I	AES-II	AES-III	AES-IV			
1	**Cultural Practices**	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	**1** 2 3 4 5	**1** 2 3 4	**1** 2 3 4 5
	Summer ploughing	•	•	•	•	1,2,4	1,2,3,4	1,2,3,4,5
	Timely sowing	•	•	•	•	1,2,4	1,2,3,4	1,2,3,4
	Clean Cultivation	•	•	•	•	1,2,4	1,2,3,4	1,2,3,4
2	**Resistance Varieties**	•	•	•	•	1,2,3, 4	1,2,3	1,2,3
3	**Bio-pesticides (Y/N)**							
	Neem Products	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	NPV	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	VT	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3
4	**Bioagents**							
	Egg parasite	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	Larvel prasite	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
5	**Other practices**							
	Pheronmone Trap	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	Light Trap	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**							
	Spraying	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	Dusting	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	Seed Treatment	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	Soil application	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	Granular application	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
7	**Any other**							
	Seedling trreament	•	•	•	•	1,2	3,4	1,2,3,4
	Conservation of nuturala enemy (Frog)	•	•	•	•	1,2	3,4	1,2,3,4
	Use of Karanj cack, Neem cake	•	•	•	•	1,2	3,4	1,2,3,4

*** Code for Reasons for gap in adoption as perceived by the farmers**

1. Lack of awareness
2. Non availability of required quantity of quality seed
3. Plant protection is not economical under rainfed conditions
4. Lack of knowledge
5. Lack of resource

**** code for Strategies as perceived by the farmers**

1. On farm trails / Demonstration
2. Training
3. Soil testing and application of fertilizers as per recommendation
4. Use of locally available materials for nutrient management & plant protection

***** code for Strategies proposed to overcome the gap**

1. Training & awareness campaigm
2. Demonstration
3. Exposure visit
4. On farm trail/ORF
5. Research is needed for resistant variety having nearer taste to local variety

Chapter VII **Table -III**

STRATEGIES FOR INTEGRATED PEST MANGT.

District:Chatra **Crop: Maize**

Sl. No.	Particulars	Gap in adoption in the Pest Mngt. in different AES in the dist.				Reasons for gap in adoption as perceived by the farmers *	Strategies as perceived by the farmers **	Strategies proposed to overcome the gap ***
		AES-I	AES-II	AES-III	AES-IV			
1	**Cultural Practices**	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	**1** 2 3 4 5	**1** 2 3 4	**1** 2 3 4 5
	Summer ploughing	•	•	•	•	1,2,	1,2,3,4	1,2,3,4,5
	Timely sowing	•	•	•	•	1,2,	1,2,3,4	1,2,3,4
	Clean Cultivation	•	•	•	•	1,2,	1,2,3,4	1,2,3,4
2	**Resistance Varieties**	•	•	•	•	1,2,3, 4	1,2,3	1,2,3
3	**Bio-pesticides (Y/N)**							
	Neem Products	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	NPV	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	VT	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3
4	**Bioagents**							
	Egg parasite	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	Larvel prasite	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
5	**Other practices**							
	Pheronmone Trap	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	Light Trap	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**							
	Spraying	•	•	•	•	1,2,4	1,2,3,4	1,3,4
	Dusting	•	•	•	•	1,2,4	1,2,3,4	1,3,4
	Seed Treatment	•	•	•	•	1,2,,4	1,2,3,4	1,3,4
	Soil application	•	•	•	•	1,2,4	1,2,3,4	1,3,4
	Granular application	•	•	•	•	1,2,4	1,2,3,4	1,3,4
7	**Any other**							
	Seedling trreament	•	•	•	•	1,2	3,4	1,2,3,4
	Conservation of nuturala enemy (Frog)	•	•	•	•	1,2	3,4	1,2,3,4
	Use of Karanj cack, Neem cake	•	•	•	•	1,2	3,4	1,2,3,4

*** Code for Reasons for gap in adoption as perceived by the farmers**

1. Lack of awareness
2. Non availability of required quantity of quality seed
3. Plant protection is not economical under rainfed conditions
4. Lack of knowledge
5. Lack of resource

**** code for Strategies as perceived by the farmers**

1. On farm trails / Demonstration
2. Training
3. Soil testing and application of fertilizers as per recommendation
4. Use of locally available materials for nutrient management & plant protection

***** code for Strategies proposed to overcome the gap**

1. Training & awareness campaigm
2. Demonstration
3. Exposure visit
4. On farm trail/ORF
5. Research is needed for resistant variety having nearer taste to local variety

Chapter VII **Table -III**

STRATEGIES FOR INTEGRATED PEST MANGT.

District:Chatra **Crop: Wheat**

Sl. No.	Particulars	Gap in adoption in the Pest Mngt. in different AES in the dist.				Reasons for gap in adoption as perceived by the farmers *	Strategies as perceived by the farmers **	Strategies proposed to overcome the gap ***
		AES-I	AES-II	AES-III	AES-IV			
1	**Cultural Practices**	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	**1** 2 3 4 5	**1** 2 3 4	**1** 2 3 4 5
	Summer ploughing	•	•	•	•	1,2,4	1,2,3,4	1,2,3,4,5
	Timely sowing	•	•	•	•	1,2,4	1,2,3,4	1,2,3,4,5
	Clean Cultivation	•	•	•	•	1,2,4	1,2,3,4	1,2,3,4,5
2	**Resistance Varieties**	•	•	•	•	1,2,3, 4	1,2,3	1,2,3,4,5
3	**Bio-pesticides (Y/N)**							
	Neem Products	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	NPV	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	VT	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
4	**Bioagents**							
	Egg parasite	•	•	•	•	3,4	1,2,3,4	1,2,3,4
	Larvel prasite	•	•	•	•	3,4	1,2,3,4	1,2,3,4
5	**Other practices**							
	Pheronmone Trap	•	•	•	•	3,4	1,2,3,4	1,2,3,4
	Light Trap	•	•	•	•	3,4	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**							
	Spraying	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Dusting	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Seed Treatment	•	•	•	•	1,2,,3	1,2,3,4	1,3,4
	Soil application	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Granular application	•	•	•	•	1,2,3	1,2,3,4	1,3,4
7	**Any other**							
	Seedling trreament	•	•	•	•	1,2,3	3,4	1,2,3,4
	Conservation of nuturala enemy (Frog)	•	•	•	•	1,2,3	3,4	1,2,3,4
	Use of Karanj cack, Neem cake	•	•	•	•	1,2,3	3,4	1,2,3,4

*** Code for Reasons for gap in adoption as perceived by the farmers**

1. Lack of awareness
2. Non availability of required quantity of quality seed
3. Plant protection is not economical under rainfed conditions
4. Lack of knowledge
5. Lack of resource

**** code for Strategies as perceived by the farmers**

1. On farm trails / Demonstration
2. Training
3. Soil testing and application of fertilizers as per recommendation
4. Use of locally available materials for nutrient management & plant protection

***** code for Strategies proposed to overcome the gap**

1. Training & awareness campaigm
2. Demonstration
3. Exposure visit
4. On farm trail/ORF
5. Research is needed for resistant variety having nearer taste to local variety

Chapter VII **Table -III**

STRATEGIES FOR INTEGRATED PEST MANGT.

District:Chatra **Crop: Niger**

Sl. No.	Particulars	Gap in adoption in the Pest Mngt. in different AES in the dist.				Reasons for gap in adoption as perceived by the farmers *	Strategies as perceived by the farmers **	Strategies proposed to overcome the gap ***
		AES-I	AES-II	AES-III	AES-IV			
1	**Cultural Practices**	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	**1** 2 3 4 5	**1** 2 3 4	**1** 2 3 4 5
	Summer ploughing	•	•	•	•	1,2,4	2,3	1,2,3,4,5
	Timely sowing	•	•	•	•	1,2,4	2,3	1,2,3,4,5
	Clean Cultivation	•	•	•	•	1,2,4	2,3	1,2,3,4,5
2	**Resistance Varieties**	•	•	•	•	1,2,3, 4	2,3	1,2,3,4,5
3	**Bio-pesticides (Y/N)**							
	Neem Products	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	NPV	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	VT	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
4	**Bioagents**							
	Egg parasite	•	•	•	•	3,4	1,2,3,4	1,2,3,4
	Larvel prasite	•	•	•	•	3,4	1,2,3,4	1,2,3,4
5	**Other practices**							
	Pheronmone Trap	•	•	•	•	3,4	1,2,3,4	1,2,3,4
	Light Trap	•	•	•	•	3,4	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**							
	Spraying	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Dusting	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Seed Treatment	•	•	•	•	1,2,,3	1,2,3,4	1,3,4
	Soil application	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Granular application	•	•	•	•	1,2,3	1,2,3,4	1,3,4
7	**Any other**							
	Seedling trreament	•	•	•	•	1,2,3	3,4	1,2,3,4
	Conservation of nuturala enemy (Frog)	•	•	•	•	1,2,3	3,4	1,2,3,4
	Use of Karanj cack, Neem cake	•	•	•	•	1,2,3	3,4	1,2,3,4

*** Code for Reasons for gap in adoption as perceived by the farmers**

1. Lack of awareness
2. Non availability of required quantity of quality seed
3. Plant protection is not economical under rainfed conditions
4. Lack of knowledge
5. Lack of resource

**** code for Strategies as perceived by the farmers**

1. On farm trails / Demonstration
2. Training
3. Soil testing and application of fertilizers as per recommendation
4. Use of locally available materials for nutrient management & plant protection

***** code for Strategies proposed to overcome the gap**

1. Training & awareness campaigm
2. Demonstration
3. Exposure visit
4. On farm trail/ORF
5. Research is needed for resistant variety having nearer taste to local variety

Chapter VII **Table -III**

STRATEGIES FOR INTEGRATED PEST MANGT.

District:Chatra **Crop: Arhar**

Sl. No.	Particulars	Gap in adoption in the Pest Mngt. in different AES in the dist.				Reasons for gap in adoption as perceived by the farmers *	Strategies as perceived by the farmers **	Strategies proposed to overcome the gap ***
		AES-I	AES-II	AES-III	AES-IV			
1	**Cultural Practices**	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	**1** 2 3 4 5	**1** 2 3 4	**1** 2 3 4 5
	Summer ploughing	•	•	•	•	1,2,3,4	1,2,3	1,2,3,4,5
	Timely sowing	•	•	•	•	1,2,3,4	1,2,3	1,2,3,4,5
	Clean Cultivation	•	•	•	•	1,2,3,4	1,2,3	1,2,3,4,5
2	**Resistance Varieties**	•	•	•	•	1,2,3,4	1,2,3	1,2,3,4,5
3	**Bio-pesticides (Y/N)**							
	Neem Products	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	NPV	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	VT	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
4	**Bioagents**							
	Egg parasite	•	•	•	•	3,4	1,2,3,4	1,2,3,4
	Larvel prasite	•	•	•	•	3,4	1,2,3,4	1,2,3,4
5	**Other practices**							
	Pheronmone Trap	•	•	•	•	3,4	1,2,3,4	1,2,3,4
	Light Trap	•	•	•	•	3,4	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**							
	Spraying	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Dusting	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Seed Treatment	•	•	•	•	1,2,,3	1,2,3,4	1,3,4
	Soil application	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Granular application	•	•	•	•	1,2,3	1,2,3,4	1,3,4
7	**Any other**							
	Seedling trreament	•	•	•	•	1,2,3	1,3,4	1,2,3,4
	Conservation of nuturala enemy (Frog)	•	•	•	•	1,2,3	1,3,4	1,2,3,4
	Use of Karanj cack, Neem cake	•	•	•	•	1,2,3	1,3,4	1,2,3,4

*** Code for Reasons for gap in adoption as perceived by the farmers**

1. Lack of awareness
2. Non availability of required quantity of quality seed
3. Plant protection is not economical under rainfed conditions
4. Lack of knowledge
5. Lack of resource

**** code for Strategies as perceived by the farmers**

1. On farm trails / Demonstration
2. Training
3. Soil testing and application of fertilizers as per recommendation
4. Use of locally available materials for nutrient management & plant protection

***** code for Strategies proposed to overcome the gap**

1. Training & awareness campaigm
2. Demonstration
3. Exposure visit
4. On farm trail/ORF
5. Research is needed for resistant variety having nearer taste to local variety

Chapter VII **Table -III**

STRATEGIES FOR INTEGRATED PEST MANGT.

District:Chatra **Crop: Tomato**

Sl. No.	Particulars	Gap in adoption in the Pest Mngt. in different AES in the dist.				Reasons for gap in adoption as perceived by the farmers *	Strategies as perceived by the farmers **	Strategies proposed to overcome the gap ***
		AES-I	AES-II	AES-III	AES-IV			
1	**Cultural Practices**	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	**1** 2 3 4 5	**1** 2 3 4	**1** 2 3 4 5
	Summer ploughing	•	•	•	•	1,2,3,4	1,2,3	1,2,3,4,5
	Timely sowing	•	•	•	•	1,2,3,4	1,2,3	1,2,3,4,5
	Clean Cultivation	•	•	•	•	1,2,3,4	1,2,3	1,2,3,4,5
2	**Resistance Varieties**	•	•	•	•	1,2,3	1,2,3	1,2,3,,5
3	**Bio-pesticides (Y/N)**							
	Neem Products	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	NPV	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
	VT	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4
4	**Bioagents**							
	Egg parasite	•	•	•	•	2,3,4	1,2,3,4	1,2,3,4
	Larvel prasite	•	•	•	•	2,3,4	1,2,3,4	1,2,3,4
5	**Other practices**							
	Pheronmone Trap	•	•	•	•	2,3,4	1,2,3,4	1,2,3,4
	Light Trap	•	•	•	•	2,3,4	1,2,3,4	1,2,3,4
6	**Pesticide (No. of application)**							
	Spraying	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Dusting	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Seed Treatment	•	•	•	•	1,2,,3	1,2,3,4	1,3,4
	Soil application	•	•	•	•	1,2,3	1,2,3,4	1,3,4
	Granular application	•	•	•	•	1,2,3	1,2,3,4	1,3,4
7	**Any other**							
	Seedling trreament	•	•	•	•	1,2,3	1,3,4	1,2,3,4
	Conservation of nuturala enemy (Frog)	•	•	•	•	1,2,3	1,3,4	1,2,3,4
	Use of Karanj cack, Neem cake	•	•	•	•	1,2,3	1,3,4	1,2,3,4

*** Code for Reasons for gap in adoption as perceived by the farmers**

1. Lack of awareness
2. Non availability of required quantity of quality seed
3. Plant protection is not economical under rainfed conditions
4. Lack of knowledge
5. Lack of resource

**** code for Strategies as perceived by the farmers**

1. On farm trails / Demonstration
2. Training
3. Soil testing and application of fertilizers as per recommendation
4. Use of locally available materials for nutrient management & plant protection

***** code for Strategies proposed to overcome the gap**

1. Training & awareness campaigm
2. Demonstration
3. Exposure visit
4. On farm trail/ORF
5. Research is needed for resistant variety having nearer taste to local variety

Chapter VII **Table -III**

STRATEGIES FOR INTEGRATED PEST MANGT.

District:Chatra **Crop: Potato**

Sl. No.	Particulars	Gap in adoption in the Pest Mngt. in different AES in the dist.				Reasons for gap in adoption as perceived by the farmers *	Strategies as perceived by the farmers **	Strategies proposed to overcome the gap ***
		AES-I	AES-II	AES-III	AES-IV			
1	**Cultural Practices**	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	Simple Tick mark or dash	**1** 2 3 4 5	**1** 2 3 4	**1** 2 3 4 5
	Summer ploughing	•	•	•	•	1,2,3,4	1,2,3	1,2,3,4,5
	Timely sowing	•	•	•	•	1,2,3,4	1,2,3	1,2,3,4,5
	Clean Cultivation	•	•	•	•	1,2,3,4	1,2,3	1,2,3,4,5
2	**Resistance Varieties**	•	•	•	•	1,2,3	1,2,3	1,2,3,,5
3	**Bio-pesticides (Y/N)**							
	Neem Products	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4,5
	NPV	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4,5
	VT	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4,5
4	**Bioagents**							
	Egg parasite	•	•	•	•	2,3,4	1,2,3,4	1,2,3,4,5
	Larvel prasite	•	•	•	•	2,3,4	1,2,3,4	1,2,3,4,5
5	**Other practices**							
	Pheronmone Trap	•	•	•	•	2,3,4	1,2,3,4	1,2,3,4,5
	Light Trap	•	•	•	•	2,3,4	1,2,3,4	1,2,3,4,5
6	**Pesticide (No. of application)**							
	Spraying	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4,5
	Dusting	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4,5
	Seed Treatment	•	•	•	•	1,2,,3,4	1,2,3,4	1,2,3,4,5
	Soil application	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4,5
	Granular application	•	•	•	•	1,2,3,4	1,2,3,4	1,2,3,4,5
7	**Any other**							
	Seedling trreament	•	•	•	•	1,2,3	1,3,4	1,2,3,4,5
	Conservation of nuturala enemy (Frog)	•	•	•	•	1,2,3	1,3,4	1,2,3,4,5
	Use of Karanj cack, Neem cake	•	•	•	•	1,2,3	1,3,4	1,2,3,4,5

*** Code for Reasons for gap in adoption as perceived by the farmers**

1. Lack of awareness
2. Non availability of required quantity of quality seed
3. Plant protection is not economical under rainfed conditions
4. Lack of knowledge
5. Lack of resource

**** code for Strategies as perceived by the farmers**

1. On farm trails / Demonstration
2. Training
3. Soil testing and application of fertilizers as per recommendation
4. Use of locally available materials for nutrient management & plant protection

***** code for Strategies proposed to overcome the gap**

1. Training & awareness campaigm
2. Demonstration
3. Exposure visit
4. On farm trail/ORF
5. Research is needed for resistant variety having nearer taste to local variety

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Paddy **Village: Kunda**

Preferred variety: MTU 7029, IR 36, IR 64, Hybrid, Gora Dhan **Agro-ecological situation: AES-I**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	MTU 7029 - 20 q Hybrid - 1 q	MTU 7029 - 29 ha IR 36 - 25 ha	Local Variety - 5 ha	G G
	- From Public sector	IR 36 - 10 q IR 64 - 15 q	IR 64 - 35 ha Gora Dhan - 10 ha		G
B	**Use of self produced seed:**		Hybrid - 5 ha		
	- From own field	Gora Dhan - 10 q IR 36 - 5 q Local Variety - 20 q	Local Variety - 30 ha		A
	- From others field	IR 36 - 5 q MTU 7029 - 5 q			A
C	Any other				
	Total	91 q			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Paddy **Village: Utrathi**

Preferred variety: IR 36, IR 64, Gora Dhan, Lal Sawarna and Local Variety **Agro-ecological situation: AES-II**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer		IR 36 - 50 ha	Local Variety - 5 ha	G
	- From Public sector	IR 36 - 20 q IR 64 - 25 q	IR 64 - 50 ha Gora Dhan - 30 ha Lal Sawarna - 4 ha Local Variety - 60 ha		G G
B	**Use of self produced seed:**				
	- From own field	Gora Dhan - 30 q IR 36 - 5 q IR 64 - 5 q Lal Sawarna - 2 q Local Variety - 20 q			A
	- From others field	IR 36 - 5 q Local Variety - 10 q			A
C	Any other				
	Total	142 q			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Paddy **Village: Manahari**

Preferred variety: IR 36, IR 64, Gora Dhan, Lal Sawarna and Local Variety **Agro-ecological situation: AES-III**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer		IR 36 - 75 ha	Local Variety - 10 ha	G
	- From Public sector	IR 36 - 25 q IR 64 - 30 q Lal Sawarna - 5 q	IR 64 - 70 ha Gora Dhan - 25 ha Lal Sawarna - 10 ha Local Variety - 20 ha		G G G
B	**Use of self produced seed:**				
	- From own field	Gora Dhan - 25 q IR 36 - 10 q IR 64 - 10 q Local Variety - 20 q			A
	- From others field	IR 36 - 5 q Local Variety - 10 q			A
C	Any other				
	Total	150 q			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Paddy **Village: Bhagawar**

Preferred variety: MTU 7029, IR 36, IR 64, Hybrid, Gora Dhan **Agro-ecological situation: AES-IV**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	MTU 7029 - 5 q Hybrid - 1 q	MTU 7029 - 25 ha IR 36 - 45 ha IR 64 - 50 ha Gora Dhan - 20 ha Hybrid - 5 ha Local Variety - 25 ha	Local Variety - 5 ha	G G
	- From Public sector	IR 36 - 15 q IR 64 - 20 q MTU 7029 - 10 q			G
B	**Use of self produced seed:**				
	- From own field	Gora Dhan - 20 q IR 36 - 5 q IR 64 - 5 q Local Variety - 50 q			A
	- From others field	IR 36 - 5 q IR 64 - 5 q			A
C	Any other				
	Total	141 q			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Maize **Village: Kunda**

Preferred variety: Kanchan - 5, Suwan Composite, Local Variety, Hybrid **Agro-ecological situation: AES-I**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Kanchan 5 - 1 q Hybrid - 1 q Suwarn Composite - 1 q	Kanchan 5 - 5 ha Hybrid - 5 ha Suwarn Composite - 4 ha Local Variety - 15 ha		G G G
	- From Public sector				
B	**Use of self produced seed:**				
	- From own field	Local Variety - 3 q			A
	- From others field	Local Variety - 1 q			A
C	Any other				
	Total	7 q			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Maize **Village: Utrathi**

Preferred variety: IR 36, IR 64, Gora Dhan, Lal Sawarna and Local Variety **Agro-ecological situation: AES-II**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Kanchan 5 - .5 q Hybrid - .5 q	Kanchan 5 - 2.5 ha Hybrid - 2.5 ha		G G
	- From Public sector		Local Variety - 12 ha		G
B	**Use of self produced seed:**				
	- From own field	Local Variety - 2 q			A
	- From others field	Local Variety - 1 q			A
C	Any other				
	Total	4 q			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Maize **Village: Manahari**

Preferred variety: IR 36, IR 64, Gora Dhan, Lal Sawarna and Local Variety **Agro-ecological situation: AES-III**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Kanchan 5 - .5 q Hybrid - 1 q	Kanchan 5 - 2 ha Hybrid - 4 ha		G G
	- From Public sector		Local Variety - 14 ha		G
B	**Use of self produced seed:**				
	- From own field	Local Variety - 2.5 q			A
	- From others field	Local Variety - 1 q			A
C	Any other				
	Total	5 q			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Maize **Village: Bhagawar**

Preferred variety: MTU 7029, IR 36, IR 64, Hybrid, Gora Dhan **Agro-ecological situation: AES-IV**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Kanchan 5 - 1 q Hybrid - 1 q	Kanchan 5 - 5 ha Hybrid - 5 ha		G G
	- From Public sector		Local Variety - 16 ha		G
B	**Use of self produced seed:**				
	- From own field	Local Variety - 4 q			A
	- From others field	Local Variety - 1 q			A
C	Any other				
	Total	7 q			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Tomato **Village: Kunda**

Preferred variety: Pusa Rubi, Suraksha, Hybrid **Agro-ecological situation: AES-I**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety) (kg)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Pusa Rubi - .700 kg Suraksha - 1 kg Hybrid - 1 kg	Pusa Rubi - 1 ha Suraksha - 2 ha Hybrid - 2 ha		G G G
	- From Public sector				
B	**Use of self produced seed:**				
	- From own field				
	- From others field				
C	Any other				
	Total	2.700 kg			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Tomato **Village: Utrathi**

Preferred variety: Pusa Rubi, Suraksha, Hybrid **Agro-ecological situation: AES-II**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety) (kg)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Pusa Rubi - .5 kg Suraksha - .5 kg Hybrid - .5 kg	Pusa Rubi -.5 ha Suraksha - .75 ha Hybrid - 1 ha		G G G
	- From Public sector				
B	**Use of self produced seed:**				
	- From own field				
	- From others field				
C	Any other				
	Total	1.5 kg			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Tomato **Village: Manahari**

Preferred variety: Pusa Rubi, Suraksha, Hybrid **Agro-ecological situation: AES-III**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety) (kg)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Pusa Rubi - .5 kg Suraksha - .75 kg Hybrid - .75 kg	Pusa Rubi -.5 ha Suraksha - 1 ha Hybrid - 1.5 ha		G G G
	- From Public sector				
B	**Use of self produced seed:**				
	- From own field				
	- From others field				
C	Any other				
	Total	2 kg			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Tomato **Village: Bhagawar**

Preferred variety: Pusa Rubi, Suraksha, Hybrid **Agro-ecological situation: AES-IV**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety) (kg)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Pusa Rubi - 1 kg Suraksha - 1 kg Hybrid - 1 kg	Pusa Rubi - 1.5 ha Suraksha - 1.5 ha Hybrid - 2 ha		G G G
	- From Public sector				
B	**Use of self produced seed:**				
	- From own field				
	- From others field				
C	Any other				
	Total	3 kg			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Brinjal **Village: Kunda**

Preferred variety: Hybrid, Local Variety, Pusa Purple Long **Agro-ecological situation: AES-I**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety) (kg)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Hybrid - 1 kg Pusa Purple Long - 1 kg	Hybrid - 1 ha Local Variety - 1 ha Pusa Purple Long - 1ha		G P A
	- From Public sector				
B	**Use of self produced seed:**				
	- From own field	Local Variety - 1 kg			
	- From others field				
C	Any other				
	Total	3 kg			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Brinjal **Village: Utrathi**

Preferred variety: Hybrid, Local Variety, Pusa Purple Long **Agro-ecological situation: AES-II**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety) (kg)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Hybrid - .5 kg Pusa Purple Long - .5 kg	Hybrid - 1 ha Local Variety - 1 ha Pusa Purple Long - .5 ha		G P A
	- From Public sector				
B	**Use of self produced seed:**				
	- From own field	Local Variety - 1 kg			
	- From others field				
C	Any other				
	Total	2 kg			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Brinjal **Village: Manahari**

Preferred variety: Hybrid, Local Variety, Pusa Purple Long **Agro-ecological situation: AES-III**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety) (kg)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Hybrid - .5 kg Pusa Purple Long - .5 kg	Hybrid - 1 ha Local Variety - 1 ha Pusa Purple Long - .5 ha		G P A
	- From Public sector				
B	**Use of self produced seed:**				
	- From own field	Local Variety - 1 kg			
	- From others field				
C	Any other				
	Total	2 kg			

Table A

PROPOSED STRATEGY FOR PROMOTING SUPPLY OF SEED AND ITS MULTIPLICATION

Name of crop: Brinjal **Village: Bhagawar**

Preferred variety: Hybrid, Local Variety, Pusa Purple Long **Agro-ecological situation: AES-IV**

Sl. No.	Source of seed of preferred variety/ hybrid	Quantity of seed used (of preferred variety) (kg)	Area sown (ha) under the crop with different variety		Quality of seed of preferred variety (G/A/P)
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	Hybrid - 1 kg Pusa Purple Long - 1 kg	Hybrid - 1 ha Local Variety - 1 ha Pusa Purple Long - 1ha		G P A
	- From Public sector				
B	**Use of self produced seed:**				
	- From own field	Local Variety - 1 kg			
	- From others field				
C	Any other				
	Total	3 kg			

Table A
PROPOSED STRATEGY FOR PROMOTING PREFERRED HORTICULTURAL PLANTING MATERIAL

Sl. No.	Source of preferred planting material of horticultural crops	Quantity of planting material used of preferred variety	Area sown (ha) under the crop with different variety		Quality of preferred planting material required for the district
			Preferred variety	Other varieties	
A	**Purchase form outside:**				
	- From Private dealer	125000	Mango (Amrapali,		A
	- From Public sector	25000	Langra, Malika, Dashari,		A
			Alphanso)		A
B	**Use of self produced planting material**		Guava (L 49, Ilahabad		
	- From own field	10000	Safeda)		
	- From others field				
C	Any other				
	Total	3 kg			

PROPOSED STRATEGY FOR PROMOTING MARKETING

Sl. No.	Critical gap	Proposed marketing Strategies
1.	Very high fluctuating market demand & Unpredictable market price	Creating awareness on market led extension
		Encouraging farmer organization/commodity growers groups to create local marketing centers
		Encouraging FO/CGs to serve as market intelligence in association with reputed market organization
		Arranging market survey exposure visits for farmers to different marketing systems
		Establishing direct linkage between rural market and urban consumers
		Arranging buy back arrangements for farmers' produce
		Training farmers in supply chain and facilitate direct linkage with urban market
		Propaganda and publicity on the quality products
		Establishing linkage between industries and producers
		Promotion of producer-exporter interface
2.	Lack of post harvest technologies	Motivating farmers to go for value addition, product diversification and other post harvest technologies
3.	Absence of backward and forward linkages	Establishing single window service to provide backward and forward linkages
		Encouraging cooperatives to support farmers in providing inputs and arranging for assured market

PROPOSED STRATEGY FOR PROMOTING MEDIA SUPPORT

Sl. No.	Critical gap	Proposed marketing Strategies
1.	Very high fluctuating market demand & Unpredictable market price	Establishment of region based exclusive agricultural channels to deliver specific information needs of farmers in local language
		Reengineering radio programmes through incorporating farmers innovation, success stories in local language
2.	Nonexistence of market intelligence information	Strengthening information communication technology
		Strengthening Kisan call centers, portals of department of agriculture and cooperation and other related agricultural research, extension and marketing organisations
		Market intelligence through SMS on mobile telephone
3.	Poor and inadequate columns devoted exclusively for agriculture in daily newspapers	Strengthening the agriculture columns in the dailies by earmarking adequate columns and adequate information for the existing farmers' needs
4.	Lack of capsule form information to meet the urgent information requirement in production and marketing	Production of capsule form information on region basis through radio, television and dailies
5.	Lack of quality printed technical	Encouraging development departments, NGOs, etc. to produce technical literatures like leaflets, folders, booklets etc. in local language
6.	Non existence of farmers' discussion groups in villages/taluks/district level	Encouraging FO/CG/others to organize farmer discussion groups
7.	Lack of opportunity for farmers to interact with scientists and extension specialists	Conducting region specific agricultural seminars to provide opportunity for farmers to participate
		Organising farmer-scientist - extension personnel interactions