Various issues, problem and opportunities have been identified on the basis of primary and secondary information, along with results of the SWOC analysis of the existing farming system available under different AES. This was done with a view to develop need based extension and research strategies for the district. It is grouped under six categories such as agriculture production system, horticulture production system, animal production system, fish production system, natural resource management and participatory research. Each issue was gain categories as E, R & P where E = Extension, R= Research & P= Policy. A summary statement of issues with relevance to different AES is given in the following table.

1. AES-I Plain Land Irrigated

Management of Technologies

- Decreasing trend in use of organic manures in rural pocket
- Knowledge and skill gap in INM, IPM, IDM, IWM & ICM
- Crop diversification from paddy to non-paddy gaps in rain fed high lands
- Expansion of area under cash crops
- Non availability of improved seeds materials for tuber crops
- In-adequate staff position in all Departments
- Gap in skill and production technology of all crops.
- Commercial cultivation of floriculture and mushroom
- Scope for plantation crops and of medicinal plant
- Establishment of processing plant in horticultural sector
- Improper health care, poor sanitation measures in cowshed of livestock
- Opportunity for expansion of Goatery for landless farmer.
- Technological gap in adoption of scientific production
- Practices for a good yield in fishery sector
- Poor technological infrastructures
- Scope for intensive Pisciculture in ponds/tanks, MIPS etc.
- Poor knowledge on soil and water conservation technologies
- Strengthening the work of Pani panchayat and renovation of field channels of all water sources

Management of Inputs

- Non availability of designed and improved variety of seeds and seed materials both in agriculture & horticulture sector
- Non-availability of Bio-fertilizer
- Lack of water storage structure for rain water harvesting to save the crop at the time of critical period
- Expansion of area under seed village programme of paddy and pulses
- Expansion of area on vegetable seeds production.
- Non availability of poultry feeds and livestock medicines for animals in rural areas
- Steps to be taken to make it available in rural areas
- Non availability of low cost feed for Pisciculture
- Renovation of MIPs, LIPs & its field channel for better management of input like irrigation water in this district

Management of Markets	 Day by day production cost of both field and horticultural crops are rising which renders low profit to the farmers Excess post-harvest loss (specially in vegetables and fruits) due to unorganized market in all sectors Interference and Exploitation by middlemen. Formation of more number of Farmers Interest Group(FIG),Commodity Interest Group (CIG) at village level Scope of establishment of cold storage Lack of agro processing and post-harvest handling technique
Management of Services(Credit & Insurance)	 Non availability of timely credit for purchase of inputs for any production system in all sectors. The insurance facilities should be simplified and expanded in all sector
Management of Infrastructure	 Steps to be taken to establish soil lab, agro-clinic and cold storage at Gram Panchayat and Block level. The network of irrigation water management should be strengthen for judicious water use

2. AES-II Rain fed Plateau

DRICRITIES ISSUES AND ODDORTHNITIES

PRIORITIES ISSUES A	ND OPPORTUNITIES
Management of	Line sowing of short duration paddy varieties
Technologies	Introduction of low water duty crops
	 Use of agricultural waste for composting
	 Skill oriented training for development of horticulture nursery
	 Promotion of drip and sprinkler irrigation in horticultural crops
	 Improvement of desi cows by artificial insemination
	Exchange of box among village to prevent inbreeding depression in goat
	 Popularization of SRI, LT and LS method
	Training and demonstration on use of herbicide
	 Development of entrepreneurship through skill oriented training
	Promotion for commercial cultivation of onion
	 Value addition of milk
	 Backyard poultry rearing
	 Cultivation perennial fodder crops
Management of	 Supply of tissue culture banana plantlet
Inputs	 Subsidization on drip and sprinkler irrigation
	Supply of fodder seeds to farmers
	Supply of seeds of non-paddy crops
	Supply of seeds of different vegetables
	Demonstration on agriculture implement and machinery
	 Supply of fry and fingerlings of fish
Management of	 Cooperative system of marketing for pulse and oilseed crops
Markets	Preponderance of middle man has to be restricted
	Fixation of minimum support price for crops, fruits and vegetables
	 Community approach in milk and meat marketing
	Tie up OMFED, Big Bazar, ICT and Reliance Fresh

	1
Management of	Insurance coverage for all crops
Services(Credit &	Agril. loan availability to farmers and farm women
Insurance)	 Availability of credit to rural youth for entrepreneurship development
	 Availability of credit for establishment of processing plant for paddy,
	pulse ,oilseeds, vegetables and fruits
	Establishment of rice mill for preparation of different value added
	product from rice
	 Availability of credit for cultivation of fruit crops
	 Extending insurance to livestock
Management of	RLI establishment to avail sufficient water
Infrastructure	 Construction of community threshing floor
	Construction of storage godown and ware house
	 Excavation of community compost pit
	 Construction community centre for training activities
	Provision for gobar gas plant to individual/community
	Construction of community godown for storage of agriculture implements
	 Construction of shed for goat/sheep for individual /community basis
	Subsidization for sinking of dug well
	 Creation of infrastructure for processing of pulse, oilseeds fruits and vegetables
	Establishment of Govt. nursey for supply quality planting material
	 Construction of check dam irrigation project on Kalara jhuli perineal stream and Tel river

3. Agriculture and Allied Production System

SI No	Issues, Problems, Opportunities	Relevance	Relevance to the AES	
		AES-1	AES-2	
1.	Considerable Yield gap in crops like Paddy, Greengram,			
	Blackgram, Groundnut, Chickpea due to.			
	Non availability of desired variety of seeds	Y	Υ	
	Low seed replacement rate	Y	Υ	
	Decreasing trend in use of organic manure	Y	Υ	
	Non availability of bio fertilizer	Y	Υ	
	Lack of irrigation & rain water harvesting	Y	Υ	
	Soil acidity	Y	Υ	
	Poor adoption of technology	Y	Υ	
	Knowledge and skill gap in INM & IPM	Y	Υ	
	Non availability for timely credit for purchase of inputs.	Y	Υ	
2	Low profit from Agricultural crops due to			
	Lack of organized market	Y	Y	
	Rise in production cost	Y	Υ	
	Exploitation by the middle men	Y	Υ	

SI No	Issues, Problems, Opportunities	Relevance to the AES	
		AES-1	AES-2
	Low quality of the produce	Υ	Υ
3	Resurgence of pest population and environmental degradation		
	due to		
	Application of wrong and over/under dose of P.P chemicals	Υ	Υ
	Non adoption of IP practices	Υ	Υ
	Inadequate field staff		
	Opportunities		
1	Crop diversification from paddy to Non-paddy crops in rain fed	γ	γ
	high lands.	Ĭ	ľ
	Expansion of area under sunflower	Υ	Υ
2	Expansion of area under sugarcane	Υ	Υ
	Expansion of area under paddy	Υ	Υ
	Expansion of area under seed village programme of paddy and	Υ	v
	pulses	ĭ	ı

HORTICULTURE PRODUCTION SYSTEM

SI No	Issues, Problems, Opportunities	Relevance to the AES	
		AES-1	AES-2
1	Significant yield gap in vegetable & fruit crop due to		
	 Timely non-availability of inputs 		
	 Lack of irrigation potential 		
	Knowledge and skill gap in improved production technology	Υ	V
	Non adoption of IPM and INM practices	Y	Υ
	Excess post-harvest loss		
	Inadequate research recommendation based on farming		
	situation		
2	Low profit in vegetables due to		
	 Lack or organized market infrastructure 		
	Want of farmers group/organization	Υ	Y
	 Lack of cold storage facilities 	Y	Y
	Interference of middle men		
	 Lack of agro-processing and post-harvest handling technique 		
3	Low yield in roof and tuber crops due to		Y
	Non availability of improved seed materials	Υ	
	Gap in skill & knowledge in production technology		
4	Inadequate field staff	Р	Υ
	OPPERTUNITIES		
1	Expansion of area under Hybrid vegetable	Υ	Υ
2	Scope of introduction of Mushroom	Υ	Υ
3	Commercial cultivation of floriculture	Υ	-
4	Expansion of area on vegetable seed production	Υ	-

SI No	Issues, Problems, Opportunities		Relevance to the AES	
		AES-1	AES-2	
5	Expansion of area on mango, lemon, guava etc	Υ	Υ	
6	Scope for plantation of medicinal plant	Υ	-	
7	Establishment nurseries for production of quality planting	Υ	Υ	
	materials	Y	Y	
8	Dry land horticulture in rain fed upland	Υ	-	
9	Establishment of processing plant	Υ	-	
LIVE S	TOCK PRODUCTION SYSTEM			
1	Low productivity in dairy animals due to			
	■ In adequate green fodder			
	Improper health care, like vaccination, deworming etc.			
	Non-availability of service in the rural areas of the time of			
	need	Υ	Υ	
	Poor sanitation and housing	Y	Y	
	Non availability of medicines inn rural areas			
	 Natural crossing by stra bulls 			
	Knowledge & skill gap among farmers			
	 Limited insurance facility 			
2	Low profit in dairy product due to			
	Un organized market	Υ	Υ	
	 Distress sale of milk in local market 			
3	Low productivity of poultry birds due to			
	Technological gap in nutrition management and housing etc.			
	Serious disease problem	Υ	Υ	
	 Low adoption of improved breeds 			
	Non availability of poultry feeds in rural areas.			
OPPO	RTUNITIES			
1	Artificial Insemination in dairy and goats	Υ	Υ	
2	Opportunity for expansion of goatery by land less farmers	Υ	Υ	
3	Scope for establishment of chilling plant	Υ	Υ	
4	Scope for establishment of processing plant for milk	Υ	Υ	
5	Scope for green fodder cultivation	Υ	-	
6	Scope for introduction of improved backyard poultry	Υ	Υ	
FISH P	RODUCTION SYSTEM			
1	Low productivity of fish is due to			
	Technological gap in adoption of scientific production			
	practices			
	 Improper management and maintenance of tanks 	ν.		
	 Lack of ownership of community water bodies 	Υ	Υ	
	Non availability of low cost feed			
	 Inadequate availability of fish seed/finger lings 			
	 Lack of adequate credit flow into fishery sector 			
2	Low profit due to	Υ	Υ	

SI No	Issues, Problems, Opportunities		Relevance to the AES	
		AES-1	AES-2	
	■ Lack of growers organization			
	 Lack of storage & processing facilities 			
	Exploitation by middle men			
3	Lack of interdepartmental co-ordination for extension	Υ	V	
	programme in fishery sector	Y	Υ	
OPPO	RTUNITIES			
1	Scope for intensive pisciculture in ponds/tanks, MIPs with	V		
	organization support	Υ	Υ	
2	Establishment of fish seed hatchery & fish seed production units	Υ	Υ	
3	Establishment of fish feed plant	Υ	-	
NATU	RAL RESOURCE MANAGEMENT			
1	Degradation of land due to			
	Excess run off and raindrop impact	.,	.,	
	Loss of organic matter from soil	Y	Υ	
	 Loss of vegetative cover 			
2	Depletion of soil nutrient is due to			
	Excess run off of rain water and soil erosion	.,	.,	
	Inadequate application of organic matter	Υ	Y	
	Indiscriminate use of chemical fertilizers			
3	Poor water management is due to			
	Lack of skill in rainwater harvesting			
	Un-bunded upland	Υ	Υ	
	Lack of co-ordination& awareness among the members of			
	pani panchayat (WUAs)			
4	Loss of vegetative cover due to			
	 Cultivation of pasture lands and over grazing 	Υ	Υ	
	Keeping the land fallow			
5	Soil acidity due to			
	 Leaching of base material due to soil erosion 	Υ	Υ	
	Non-use of soil amendments			
OPPO	RTUNITY			
1	Soil conservation measures by			
	Agronomic practices			
	 Mechanical measures 	Υ	Υ	
	Biological measures			
	 Integrated watershed management 			
2	Adoption of appropriate agro forest system in degraded soil by			
	 Alternate land use 	Υ	Υ	
	Plantation of field bonds			
3	Development of water resources for irrigation through	Υ	V	
	■ WUAs/Pani Panchyats	Y	Y	

SI No	Issues, Problems, Opportunities	Relevance to the AES	
		AES-1	AES-2
4	ISSUES IN R-E-F LINKAGE		
	1) Fund constraints for conducting participatory research to	٧	V
	evolve location specific recommendation	'	ı
	2) Lack of specialized man power for participatory research	Υ	Υ