

1.1 Agriculture Production System

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Suitable climate condition and good arable land for vegetation ➤ Well communication facility to the near by villages ➤ Different schemes operated through agriculture dept. ➤ Farmers are educated and interested for scientific practices 	<ul style="list-style-type: none"> ➤ Scope for qualitative hybrid seed production ➤ Scope for mushroom production ➤ Scope for irrigation facility by using natural nalas ➤ Scope for agorbased industry (coir based) ➤ Scope for integrated farming system
WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ Unavailability of required critical input on time. ➤ Lack of infrastructure and storage facility ➤ Insufficient of staffing pattern ➤ Lack of farm mechanization 	<ul style="list-style-type: none"> ➤ Natural calamities like flood. ➤ Indiscriminate use of fertilizer & pesticides ➤ Stray bull ➤ Frequent electric failure ➤ Unavailability of labour in agricultural activity

1.2 Horticulture Production System

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Favourable climate for all type of vegetable crops ➤ Availability of marketing facility ➤ Availability of well communication & transportation facilities ➤ Involvement of women in farming ➤ Availability of govt. schemes ➤ Technology transfer through mobile messaging 	<ul style="list-style-type: none"> ➤ Scope for production of High value crops of vegetable, fruits & floriculture ➤ Scope for mushroom production ➤ Scope for high tech horticulture ➤ Better scope for easy marketing of the produce to neighbouring districts ➤ Scope of intercropping in mango orchard

WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ Lack of post harvest management like grading, packaging & value addition ➤ Unavailability of horticultural processing industry ➤ Lack of insurance facility for the horticultural crops especially for vegetable ➤ Lack of irrigation facility ➤ Non availability of quality seed in timely ➤ Certification & branding not possible ➤ Lack of technical knowhow regarding horticultural crops 	<ul style="list-style-type: none"> ➤ Natural calamities like flood ➤ Lack of market intelligence ➤ Interpretation of middle man ➤ Unavailability of labour ➤ Distress sale ➤ Menace of stray cattle

1.3 Animal Production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Climatic adaptability of improved breed of cattle & poultry ➤ Availability of local food material ➤ Existence of milk route channel ➤ Higher women participation in dairy & poultry. ➤ High literacy rate 	<ul style="list-style-type: none"> ➤ Scope for expansion of area under green & fodder cultivation & processing ➤ Scope for establishment of milk processing ➤ Scope for establishment of chilling plant ➤ Scope for expansion of milk routs ➤ Scope for strengthening L.T centres ➤ Scope for disease diagnosis centre
WEAKNESSES	CHALLENGES

<ul style="list-style-type: none"> ➤ Unorganized market ➤ Improper storage facility ➤ Lack of diary processing unit ➤ Inadequate availability of green fodders ➤ Unavailability proper awareness about the health management 	<ul style="list-style-type: none"> ➤ Lack of awareness on disease management ➤ monopoly of milk company ➤ Hindrance in financing ➤ lack of provision of cattle shed ➤ non permitting the beneficiaries to purchase the milk animal from their own choice
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1.4 Fish Production System:

➤ STRENGTHS	➤ OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Farmers are very much eager for fish production. ➤ more market demand ➤ availability of local market ➤ well communication facility ➤ Availability of water resources for fish production 	<ul style="list-style-type: none"> ➤ scope for value addition ➤ scope for fish hatchery ➤ scope for processing unit ➤ scope for fingerlings production ➤ scope for pond based integrated farming system
➤ WEAKNESSES	➤ CHALLENGES
<ul style="list-style-type: none"> ➤ Financial burden for taking up pisciculture activities ➤ time taking in finance processing ➤ Lack of aquashop ➤ Non availability fingerlings & medicine ➤ Lack of storage facility ➤ Lack of subsidy based implements like pump, aerator, net, testing kit. ➤ Lack of official staff in ground level 	<ul style="list-style-type: none"> ➤ Lack of financial subsidy on fry & fingerlings & fish feed ➤ Renovation of old pond for fish farming ➤ Lack of timely supply of fry ➤ Provision of borewell for mitigating the crises period ➤ Creation of awareness regarding health care ➤ Shortage of cold chain facility & ice factory ➤ Lack of availability of technology

1.5 Natural Resource System:

➤ STRENGTHS	➤ OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Availability of favourable climatic condition ➤ Availability of well drained rich humus soil ➤ Proportionately more forest area ➤ Rich in biodiversity 	<ul style="list-style-type: none"> ➤ Scope for agroforestry ➤ Scope for ground water recharge ➤ Conservation of biodiversity ➤ Scope for composting unit
➤ WEAKNESSES	➤ CHALLENGES
<ul style="list-style-type: none"> ➤ Poor management of irrigation water ➤ Loss of vegetation due to deforestation ➤ Degradation of soil due to erosion ➤ Loss of biodiversity due to monocultivation ➤ Lack of awareness in farming practices especially tillage practices 	<ul style="list-style-type: none"> ➤ Natural calamities like flood ➤ Resistance resurgence & residual toxicity by indiscriminate use of plant protection chemicals

2 AES -II Red Soil High Rainfall Medium Elevation

2.1 Agriculture Production System:

➤ STRENGTHS	➤ OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Favorable climate and suitable soil type for crop production ➤ Medium elevation, high rain fall ➤ Approachable road communication ➤ Availability of sufficient pasture land ➤ Different government schemes operated through agriculture department. 	<ul style="list-style-type: none"> ➤ Scope for integrated farming system ➤ Scope for producer company, farmers bazaar, farmers federation ➤ Scope for increasing irrigation potential by using natural water bodies ➤ Scope for seed production programme

	<ul style="list-style-type: none"> ➤ Scope for establishment of solarised irrigation system ➤ Scope for mushroom cultivation
➤ WEAKNESSES	➤ CHALLENGES
<ul style="list-style-type: none"> ➤ Non availability of agroprocessing unit. ➤ Small land holding ➤ Insufficient staffing pattern ➤ Lack of organized marketing system ➤ Non availability of input in time ➤ Lack of storage facility ➤ Lack of farm mechanization 	<ul style="list-style-type: none"> ➤ Frequent Natural calamities like drought. ➤ Indiscriminate use of fertilizer & pesticides ➤ Stray bull ➤ Frequent electric failure ➤

2.2 Horticulture Production System:

	➤ OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Favourable climate for all horticultural crops ➤ Suitable climate for offseason vegetable production ➤ Availability of local market ➤ Approachable road communication. ➤ Higher Involvement of women in farming 	<ul style="list-style-type: none"> ➤ Scope for floriculture ➤ Scope for hi -tech horticulture ➤ Scope for honey bee production ➤ Scope for medicinal, aromatic and plantation crop cultivation with their processing. ➤ Scope for vegetable processing unit
➤ WEAKNESSES	➤ CHALLENGES

<ul style="list-style-type: none"> ➤ Lack of irrigation facility ➤ Higher input cost and not available timely ➤ Lack of awareness for commercial vegetable production ➤ Lack of technologies for commercial vegetable production (especially fertilizer and pesticide application) ➤ Lack of processing industries and storage facilities. ➤ Lack of marketing information and organized system ➤ Lack of risk bearing ability of farmers 	<ul style="list-style-type: none"> ➤ Lack of irrigation facility ➤ Higher fluctuation in price of marketable commodities. ➤ Higher interference of middle man ➤ Menace of stray cattle ➤ Frequent natural calamities ➤ Imbalance application fertilizers and pesticide
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2.3 Animal Production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Higher women participation in dairy & poultry ➤ Agriculture is the main source of livelihood ➤ Climate is favourable for animal husbandry ➤ Department infrastructure for breeding/health coverage 	<ul style="list-style-type: none"> ➤ High demand for animal product like meat, milk and egg ➤ More number of entrepreneurs came to the areas of animal husbandry ➤ Vocational course in +2 level in dairy and poultry ➤ Food habit changing with urbanization ➤ Scope for disease diagnostic centre ➤ Purchasing power for the general public ➤ Scope for fodder cultivation and processing ➤ Scope for strengthening L.I

	centre
WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> • Grazing land depleting • Inadequate manpower departmentally in the grass root level • Inadequate marketing facility for produce like milk. • Sufficient exposure not available for new technologies • Inadequate supply of vaccines timely. • Lack of awareness on disease management. 	<ul style="list-style-type: none"> • Bird flue is rapid in poultry industry • Inadquate verterinary service • Zoonotic diseases newly emerging diseases like Trypanosoma, Theilenia, Brculle

2.4 Fish production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> • More consumer acceptance • Availability of tanks for pisciculture. • KMS Service (Mobile messaging) • Availability of local market • Well connected by road 	<ul style="list-style-type: none"> • Scope for fish hatchery and fingerling production • Scope for intensive fish cultivation and polyculture of freshwater prawn. • Scope for integrated farming system (pond based)
WEAKNESSES	CHALLENGES

<ul style="list-style-type: none"> • Bank Linkages are not well established • Non availability of aquashops • Standing water problem in some munich • Non availability of water testing laboratory • Lack of subsidy based implements like pump, aerator, generator, net, testing kit etc. 	<ul style="list-style-type: none"> • Non availability of fingerlings and other inputs in time (grass carp) • Inbreeding depressed seed problem • Non availability of equipments and water testing kit • Disease diagnosis facility • Shortage of cold chain facility and ice production unit.
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2.5 Natural Resource System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> • Availability of natural waterbodies • Proportionately higher and dense forest cover • Availability of indigenous practices. • Availability of wild foods. 	<ul style="list-style-type: none"> • Scope for agro forest • Scope for Conservation of biodiversity • Scope for soil conservation and ground water recharges • Scope for organic farming • Scope for composting unit • Scope for cultivationg wild foods (wild tuber, minor millets, wild fruits)
WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ Degradation of soil due to erosion ➤ Lack of technological knowledge for conserving germplasm ➤ Faulty method of tillage 	<ul style="list-style-type: none"> ➤ Loss of forest cover due to illicit felling ➤ Higher rate of soil erosion ➤ Ecological imbalance ➤ Poor management of irrigation water

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3 AES -III Red Soil High Rainfall High Elevation

3.1 Agriculture Production System:

➤ STRENGTHS	➤ OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Suitable climate for growing of different crops ➤ More no. of nala & perennial streams available ➤ Diff. govt. schemes operated through agril. 	<ul style="list-style-type: none"> ➤ Scope for increasing irrigation potential by using natural streams, nala ➤ Scope for increasing the mustard, niger cultivation ➤ Scope for increasing the cropping intensity ➤ Scope for single window delivery
➤ WEAKNESSES	➤ CHALLENGES
<ul style="list-style-type: none"> ➤ Small land holdings ➤ Non-availability of inputs in time ➤ Insufficient field level staffs to carry out the schemes of Govt. ➤ Lack of mandi/storage facilities at GP level. ➤ Lack of irrigation potential ➤ Unavailability of desired var. of paddy in time(for upland) ➤ 	<ul style="list-style-type: none"> ➤ Low literacy rate due to more SC/ST Population. ➤ Frequent drought ➤ Frequent electric failure ➤ Stray animals

3.2 Horticulture Production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Climate suitable for elephant foot yam, arrowroot & ginger cultivation ➤ Well communicated roads. ➤ Govt. schemes like NHM is available ➤ Transfer of technology through KMAs ➤ Diff. perennial streams, nallas available for irrigation 	<ul style="list-style-type: none"> ➤ Five nos. of defunct cold storage facilities available ➤ Scope for value addition & processing ➤ Scope for increasing honey bee cultivation
➤ WEAKNESSES	➤ CHALLENGES
<ul style="list-style-type: none"> ➤ Lack of irrigation water ➤ Lack of knowledge on diff. off season var. of vegetables ➤ Lack of processing units ➤ Lack of knowledge on diseases, pests & fertilizer application. ➤ Lack of knowledge on protected cultivation 	<ul style="list-style-type: none"> ➤ Shortage of professional staffs ➤ Low literacy rate ➤ Stray cattle is a problem in vegetable cultivation

3.3 Animal Production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> • More no. of vegetation available for animal rearing(mostly Goatery) • The best var. of goat in the world i. e. Black Bengal is available • Which is somewhat resistant to many diseases • Goatery Hat is present • Mobile van is working in the district for vaccination 	<ul style="list-style-type: none"> • Scope for expansion of area under green & fodder cultivation • Scope for strengthening the goatery cultivation • Scope for strengthening the LI centres
WEAKNESSES	CHALLENGES

<ul style="list-style-type: none"> ➤ Lack of fodder for diary ➤ Lack of medicine store in the area ➤ Lack of knowledge on disease management ➤ Lack of availability of diff. var. of poultry ➤ Lack of awareness on diff. Govt. schemes & subsidy 	<ul style="list-style-type: none"> ➤ Frequent electric failure ➤ More no. of illiterate persons. ➤ Lack of sufficient staffs in field level
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3.4 Fish production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ More market demand. ➤ Well communicated to market ➤ KMAs services for fishery cultivators ➤ High demand for fish production ➤ Availability of water resources for fish production 	<ul style="list-style-type: none"> ➤ Scope for increasing IFS system ➤ Scope for fingerling/yearling production ➤ Scope for integrated farming system ➤ Good market availability
➤ WEAKNESSES	➤ CHALLENGES
<ul style="list-style-type: none"> ➤ Fish seed is not available in time ➤ Lack of knowledge on fish production & disease management due to illiterate ST fisherman & fish farmers. ➤ Non availability of fish feed ➤ Non availability of aqua medicines & chemicals ➤ Lack of ownership of community water bodies ➤ Banks reluctant to extend finance due to joint ownership 	<ul style="list-style-type: none"> ➤ Water scarcity pose a major threats in fish cultivation ➤ Availability of Fish seed is not available in time ➤ Non revision of unit lost under FFDA ➤ Lack of timely supply of fingerlings/yearlings ➤ Non inclusion of bore well for mitigating the crisis period ➤ Non provision of subsidy on fish feed

<p>of land of applicants.</p> <ul style="list-style-type: none"> ➤ Prolonged winter in the area extends time for growth of fish 	
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3.4 Natural Resource System:

➤ STRENGTHS	➤ OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Proportionately more forest area available ➤ Rich in Bio-diversity ➤ Natural water bodies available ➤ Soil is rich in OM & well drained ➤ High rainfall in the area due to its AES characteristics 	<ul style="list-style-type: none"> ➤ Scope for increasing agro forestry ➤ Scope for increasing the compost preparation techniques ➤ Scope for increasing the renovation of LI pints for increasing the irrigation ➤ Scope for more no. of check dams for conserving water & soil
➤ WEAKNESSES	➤ CHALLENGES
<ul style="list-style-type: none"> ➤ Lack of awareness among farmers about farming practices in high elevation area ➤ Lack of biodiversity due to monoculture ➤ Poor management of available water 	<ul style="list-style-type: none"> ➤ Loss of vegetation due to traditional Podu chasa ➤ Degradation of soil due to erosion ➤ Lack of knowledge i.e. due to illiteracy.

4 AES-4 Red& Yellow Soil High Rainfall High Elevation

4.1 Agriculture Production System:

STRENGTHS	OPPORTUNITIES
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<ul style="list-style-type: none"> ➤ Suitable climate for growing of different crops ➤ More no. of nala & perennial streams available ➤ Farmers are more interested for scientific production and practices. ➤ Diff. govt. schemes operated through agril. 	<ul style="list-style-type: none"> ➤ Scope for increasing irrigation potential by using natural streams, nala ➤ Scope for increasing the mustard, niger cultivation ➤ Scope for increasing the cropping intensity ➤ Scope for single window delivery
WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ Small land holdings ➤ Non-availability of inputs in time ➤ Insufficient field level staffs to carry out the schemes of Govt. ➤ Unavailability of desired var. of paddy in time(for upland) ➤ Lack of mandi/storage facilities at GP level. ➤ Lack of irrigation potential 	<ul style="list-style-type: none"> ➤ Low literacy rte due to more SC/ST Population. ➤ Frequent drought ➤ Frequent electric failure ➤ Stray animals

4.2 Horticulture Production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Climate suitable for elephant foot yam, & ginger cultivation ➤ Well communicated roads and availability of marketing yard ➤ Govt. schemes like NHM is available ➤ Transfer of technology through KMAs ➤ Diff. perennial streams, nala available for irrigation 	<ul style="list-style-type: none"> ➤ Possibilities for establishment of cold storage and cool chamber ➤ Scope for value addition & processing ➤ Scope for increasing honey bee cultivation ➤ Scope for crop diversification
WEAKNESSES	CHALLENGES

<ul style="list-style-type: none"> ➤ Lack of irrigation water ➤ Lack of knowledge on diff. off season var. of vegetables ➤ Lack of processing units ➤ Lack of knowledge on diseases, pests & fertilizer application. ➤ Lack of knowledge on protected cultivation 	<ul style="list-style-type: none"> ➤ Shortage of professional staffs ➤ Low literacy rate ➤ Stray cattle is a problem in vegetable cultivation ➤ Promotion of offseason vegetable cultivation
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4.3 Animal Production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ More no. of vegetation available for animal rearing(mostly Goatery) ➤ The best var. of goat in the world i.e. Black Bengal is available ➤ Which is somewhat resistant to many diseases ➤ Goatery Hat is present ➤ Mobile van is working in the district for vaccination 	<ul style="list-style-type: none"> ➤ Scope for expansion of area under green & fodder cultivation ➤ Scope for strengthening the goatery cultivation ➤ Scope for strengthening the LI centres
➤ WEAKNESSES	➤ CHALLENGES
<ul style="list-style-type: none"> ➤ Lack of fodder for diary ➤ Lack of medicine store in the area ➤ Lack of knowledge on disease management ➤ Lack of availability of diff. var. of poultry ➤ Lack of awareness on diff. Govt. schemes & subsidy 	<ul style="list-style-type: none"> ➤ Frequent electric failure ➤ More no. of illiterate persons. ➤ Lack of sufficient staffs in field level ➤ Helping people to form society for supplying of poultry chicks and other inputs i.e medicine and vaccine at lower rate.

4.4 Fish production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Heavy market demand and favourable attitude of fish growers towards scientific practices. ➤ More market demand. ➤ Good liaisoning with the fishery department officials 	<ul style="list-style-type: none"> ➤ Scope for increasing IFS system ➤ Scope for fingerling/yearling production ➤ Scope for integrated farming system ➤ Good market availability
➤ WEAKNESSES	➤ CHALLENGES
<ul style="list-style-type: none"> ➤ Fish seed is not available in time ➤ Lack of knowledge on fish production & disease management due to illiterate ST fisherman & fish farmers. ➤ Non availability of fish feed ➤ Non availability of aqua medicines & chemicals ➤ Lack of ownership of community water bodies ➤ Banks reluctant to extend finance due to joint ownership of land of applicants. ➤ Prolonged winter in the area extends time for growth of fish 	<ul style="list-style-type: none"> ➤ Water scarcity pose a major threats in fish cultivation ➤ Non revision of unit lost under FFDA ➤ Lack of timely supply of fingerlings/yearlings ➤ Non inclusion of bore well for mitigating the crisis period ➤ Non provision of subsidy on fish feed

4.5 Natural Resource System:

STRENGTHS	OPPORTUNITIES
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<ul style="list-style-type: none"> ➤ Proportionately more forest area available ➤ Rich in Bio-diversity ➤ Natural water bodies available ➤ High rainfall in the area due to its AES characteristics 	<ul style="list-style-type: none"> ➤ Scope for increasing agro forestry ➤ Scope for increasing the compost preparation techniques ➤ Scope for increasing the renovation of LIs for increasing the irrigation ➤ Scope for more no. of check dams for conserving water & soil
➤ WEAKNESSES	➤ CHALLENGES
<ul style="list-style-type: none"> ➤ Lack of awareness among farmers about farming practices in high elevation area ➤ Lack of biodiversity due to monoculture ➤ Poor management of available water 	<ul style="list-style-type: none"> ➤ Loss of vegetation due to black marketing of forest products ➤ Degradation of soil due to erosion ➤ Lack of knowledge i.e. due to illiteracy. ➤ Lack of awareness among people to conserve forest for future generation.

5 AES-V Black soil Medium Rainfall Medium Elevation

5.1 Agriculture Production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Availability of agricultural land ➤ Availability of both surface and ground water sources ➤ Existence of farmer friendly government programmes ➤ Easy reach of improved technological knowledge ➤ Good assistance from NABARD and Farmers' club 	<ul style="list-style-type: none"> ➤ Good communication facility ➤ Scope for structured market ➤ Scope for crop diversification
➤ WEAKNESSES	➤ CHALLENGES

<ul style="list-style-type: none"> ➤ Scarcity of agri-inputs (seed, fertilizer, pesticides) ➤ Shortage of agril. Labourers ➤ Problem in bank finance ➤ Less awareness amongst farmers to avail government schemes and subsidy ➤ Non availability of mandi in G.P level 	<ul style="list-style-type: none"> ➤ Frequent occurrence of drought & flood ➤ Crop loss due to climatic hazard and animal threat ➤
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5.2. Horticulture Production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Good market demand for vegetable crop ➤ Existence of government programmes like NHM, NRGEA, RKVY, etc for horticultural development ➤ Good irrigation facility and water source ➤ Good fertile soil for horticultural crop 	<ul style="list-style-type: none"> ➤ Good communication facility ➤ Scope for value addition of fruits and vegetables ➤ Availability of implements on rent basis ➤ Scope for floriculture
➤ WEAKNESSES	➤ CHALLENGES
<ul style="list-style-type: none"> ➤ Problem in availability of electricity for irrigation ➤ Non availability of appropriate variety and quality seed in private dealer point ➤ Problem in mobilizing credit ➤ Scarcity in government horticulture extension personnel ➤ Less communication of farmers with horticulture department ➤ Crop insurance yet to reach to majority of the farmers ➤ Insufficient marketing infrastructure 	<ul style="list-style-type: none"> ➤ Organising farmers group for procurement of input in a bulk amount and marketing of the produce at larger scale ➤ Establishment of cold storage structure ➤ Awareness of farmers regarding soil test and soil health management

5.3. Animal Production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Good market demand for milk, meat and egg ➤ Existence veterinary hospitals in panchayat level ➤ Adequate grazing land, forest, water, etc for goat, poultry & cattle farming ➤ Existence of more no. of broiler farms in PPP mode 	<ul style="list-style-type: none"> ➤ Good market demand for milk products ➤ Opportunity to organize health camps for promoting the technology. . ➤ Scope for supply of eggs to school for mid-day-meal programmes ➤ Scope for contact farming for broiler farming ➤ Scope for value addition of milk
WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ Non availability of good breeding buck in case of goat farming ➤ Insufficient availability of credit facility and insurance ➤ Absence of milk cooperative society leading to distress sale ➤ Chicks procurement problem in case of individual broiler farming ➤ Lack of irrigation facility 	<ul style="list-style-type: none"> ➤ Upgradation of local stock by ensuring availability of good breeding males to the small animal rearers. ➤ Maintenance of proper health to reduce the mortality. ➤ Awareness to unemployed youth diverted from agriculture and allied sector to mining & industries

5.4. Fish production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Existence of good no. of water bodies like pond, canals, river, etc. ➤ Existence of government schemes for fish farmers ➤ Availability of yearlings & fingerlings locally ➤ Good market for sale of fish and fish products 	<ul style="list-style-type: none"> ➤ Scope for fish value added products unit ➤ Scope for commercial ornamental pisciculture ➤ Good communication facility ➤ Scope for exposure visit and skill training programmes
WEAKNESSES	CHALLENGES

<ul style="list-style-type: none"> ➤ Low level of awareness amongst farmers to adopt scientific fish farming ➤ Deficit in improved fingerlings, yearlings, etc. ➤ Problem in bank finance ➤ Lack of knowledge in value addition of fish ➤ Absence of insurance facility ➤ Absence of credit facility and government assistance in case of G.P tanks 	<ul style="list-style-type: none"> ➤ Less rainfall leads to water scarcity round the year ➤ Low yield due to lack of technical know how
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5.5. Natural Resource System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Existence of good volume of water , forest, land and animals. ➤ Soil texture and structure is optimum for vegetation 	<ul style="list-style-type: none"> ➤ Establishment of agro-forestry model for rural livelihood. ➤ Scope for rain water storage structure ➤ Scope for promotion of Bamboo cultivation
WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ Degradation of forest due to fire ➤ Low level of awareness on conservation / renovation of existing forest ➤ Lack of awareness for conserving the natural resources 	<ul style="list-style-type: none"> ➤ Frequent occurrence of drought, flood, etc. ➤ Climate change ➤

6 AES-VI Black Soil High Rainfall Medium Elevation

6.1 Agriculture Production System:

STRENGTHS	OPPORTUNITIES
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<ul style="list-style-type: none"> ➤ ➤ Favorable climate ➤ Medium elevation, high rain fall ➤ Approachable road communication ➤ Availability of sufficient pasture land ➤ Different government schemes operated through agriculture department. 	<ul style="list-style-type: none"> ➤ ➤ Scope for integrated farming system ➤ Scope for producer company, farmers bazaar, farmers federation ➤ Scope for increasing irrigation potential by using natural water bodies ➤ Scope for seed production programme ➤ Scope for mushroom cultivation
WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ ➤ Non availability of agroprocessing unit. ➤ Small land holding ➤ Insufficient staffing pattern ➤ Lack of organized marketing system ➤ Non availability of input in time ➤ Lack of storage facility ➤ Lack of farm mechanization 	<ul style="list-style-type: none"> ➤ ➤ Frequent Natural calamities like drought. ➤ Indiscriminate use of fertilizer & pesticides ➤ Stray bull ➤ Frequent electric failure

6.2 Horticulture Production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Favourable climate for all horticultural crops ➤ Suitable climate for offseason vegetable production ➤ Availability of local market ➤ Approachable road communication. ➤ Higher Involvement of women in 	<ul style="list-style-type: none"> ➤ Scope for floriculture ➤ Scope for hi -tech horticulture ➤ Scope for honey bee production ➤ Scope for medicinal, aromatic and plantation crop cultivation with their processing. ➤ Scope for vegetable processing unit

farming	
WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ Lack of irrigation facility ➤ Higher input cost and not available timely ➤ Lack of awareness for commercial vegetable production ➤ Lack of technologies for commercial vegetable production (especially fertilizer and pesticide application) ➤ Lack of processing industries and storage facilities. ➤ Lack of marketing information and organized system ➤ Lack of risk bearing ability of farmers 	<ul style="list-style-type: none"> ➤ Lack of irrigation facility ➤ Higher fluctuation in price of marketable commodities. ➤ Higher interference of middle man ➤ Menace of stray cattle ➤ Frequent natural calamities ➤ Imbalance application fertilizers and pesticide

6.3 Animal Production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Higher women participation in dairy & poultry ➤ Agriculture is the main source of livelihood ➤ Climate is favourable for animal husbandry ➤ Department infrastructure for breeding/health coverage 	<ul style="list-style-type: none"> ➤ High demand for animal product like meat, milk and egg ➤ ➤ More number of entrepreneur came to the areas of animal husbandry ➤ Vocational course in dairy and poultry ➤ Food habit changing with urbanization

<ul style="list-style-type: none"> ➤ ➤ Good communication facility ➤ Existence of milk route channel and cooperative societies 	<ul style="list-style-type: none"> ➤ Scope for disease diagnostic centre ➤ Purchasing power for the general public ➤ Scope for fodder cultivation and processing ➤ Scope for strengthening L.I centre
WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ Grazing land depleting ➤ Inadequate manpower departmentally in the grass root level ➤ Inadequate marketing facility for produce like milk. ➤ Sufficient exposure not available for new technologies ➤ Inadequate supply of vaccines timely. ➤ Lack of awareness on disease management. 	<ul style="list-style-type: none"> ➤ Bird flu is rapid in poultry industry ➤ Inadequate veterinary service ➤ Zoonotic diseases newly emerging diseases like Trypanosoma, Theilena, Brculle

6.4 Fish production System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ More consumer acceptance ➤ Availability of tanks for pisciculture. ➤ KMS Service (Mobile messaging) ➤ Availability of local market ➤ Well connected by road 	<ul style="list-style-type: none"> ➤ Scope for fish hatchery and fingerling production ➤ Scope for intensive fish cultivation and polyculture of freshwater prawn. ➤ Scope for integrated farming system (pond based)

WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ Non availability of quality fish seed. ➤ Market competition for selling the produce ➤ Non availability of water testing laboratory ➤ Lack of subsidy based implements like pump, aerator, generator, net, testing kit etc. ➤ Lack of field staff for supervision at farmers field 	<ul style="list-style-type: none"> ➤ Non availability of fingerlings and other inputs in time (grass carp) ➤ Inbreeding depressed seed problem ➤ Non availability of equipments and water testing kit ➤ Disease diagnosis facility ➤ Shortage of cold chain facility and ice production unit.

6.5 Natural Resource System:

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Availability of natural waterbodies ➤ Proportionately higher and dense forest cover ➤ Availability of indigenous practices. ➤ Availability of wild foods. 	<ul style="list-style-type: none"> ➤ Scope for agro forest ➤ Scope for Conservation of biodiversity ➤ Scope for soil conservation and ground water recharges ➤ Scope for organic farming ➤ Scope for composting unit ➤ Scope for cultivationg wild foods (wild tuber, minor millets, wild fruits)
WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ Degradation of soil due to erosion ➤ Lack of technological knowledge for conserving germplasm ➤ Faulty method of tillage 	<ul style="list-style-type: none"> ➤ Loss of forest cover due to illicit felling ➤ Higher rate of soil erosion ➤ Ecological imbalance ➤ Poor management of irrigation water

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7 AES-VII Alluvial Soil

7.1 Agriculture Production System

Strength	Opportunity
<ul style="list-style-type: none"> ➤ More are under medium & low land suitable for rice cultivation of medium & long duration paddy. ➤ 90% Kharif irrigation facility available. ➤ Canal irrigation, LI & Private LIP conducive for cultivation of oilseed & pulses. ➤ Residual moisture status is adequate on the river basin of Baitarani ➤ Suitable for cultivation of groundnut during Rabi season ➤ Good return with less investment of pulse crop ➤ Cultivation experience of farmers 	<ul style="list-style-type: none"> ➤ Establishment of More numbers of rice mills to processes paddy ➤ Well connected road for transportation of agricultural produces. ➤ Innovative and educated farmers engaged in agriculture activities. ➤ Better marketing facilities available due to geographical situation of the blocks. ➤ Technology is approachable Agril. & allied department RRTTS & KVK are actively engaged in Research and transfer of technology in the district. ➤ Opportunity for seed production of HYV of rice, pulses, oilseeds and hybrid of rice
Weakness	Challenge
<ul style="list-style-type: none"> ➤ Imbalanced use of Chemical Fertilizer. ➤ Application of Chemical Fertilizer without soil test recommendation. ➤ Less availability of FYM due to 	<ul style="list-style-type: none"> ➤ Prone to flood & cyclone which damage the crops frequently in Kharif season. ➤ Non-availability of agriculture labourer squeezes the package & practices of

<p>increased farm mechanisation.</p> <ul style="list-style-type: none"> ➤ Less use of Green manure & bio-fertilizer ➤ Poor marketing system & distress sale of pulses & oilseed. ➤ Due to lack of suitable variety area extension is not possible. ➤ Labour cost is high more than the govt. fixed rate. ➤ Pest & diseases outbreak like BPH, BLB, Cutworm, Sheath rot. 	<p>crops..</p> <ul style="list-style-type: none"> ➤ Frequency in the occurrence of hot, humid & cloudy weather encouraging outbreak of pest & disease. ➤ Affect of climate change like erratic & irregular rainfall, short winter, extremely high temperature during summer.
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7.7.2 Horticulture Production System

Strength	Opportunity
<ul style="list-style-type: none"> ➤ Land and climate suitable ➤ Horticulture department support ➤ Per ha yield 10 ton-12 ton ➤ Production technology available ➤ Irrigation facility available 	<ul style="list-style-type: none"> ➤ Large scope for area expansion ➤ Progressive farmers' readiness to take up mango cultivation ➤ High demand of fruits in internal markets ➤ Farmers are of investment mentality
Weakness	Challenge
<ul style="list-style-type: none"> ➤ Distress sale during harvest ➤ During bumper harvest of local var. the established farmers have poor sale ➤ unorganized market facility ➤ No value addition activities and infrastructure ➤ Unavailability of sufficient quantities of quality planting materials 	<ul style="list-style-type: none"> ➤ No training facilities for value addition ➤ Marketing is a challenge ➤ Specific Mango growers required. ➤ Special Govt. assistance for rejuvenation of old mango orchards ➤ Old mango orchard / Technology

	<p>(Production) up-gradation</p> <p>➤ Dist. level mango collection centre with Govt. support</p>
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7.3 SWOC of Animal Production Systems

Strength	Opportunity
<ul style="list-style-type: none"> ➤ Good Cross Bred Animal Population ➤ Availability of veterinary extension personnel for helping ➤ Cooperative System of marketing ➤ Increasing demand for milk and milk products ➤ Good water table and rivers 	<ul style="list-style-type: none"> ➤ Availability of vast Gochar land for community fodder ➤ Private entrepreneurs in milk marketing ➤ Insurance facility for animals ➤ Conversion to different products like ghee, skim milk etc. ➤ Small packing units of raw milk / fresh milk
Weakness	Challenge
<ul style="list-style-type: none"> ➤ Poor consumption habit of milk & milk products among the people. ➤ Shortage of fodder. ➤ Repeat Breeding & mastitis. ➤ Calf rearing costly. ➤ Non-availability of High Pedigree semen straws. ➤ 	<ul style="list-style-type: none"> ➤ High stray bulls menance. ➤ High cost of veterinary drugs. ➤ Flood prone areas. ➤ Low & erratic price of raw milk. .

7.4 Fish Production Systems

Strength	Opportunity
<ul style="list-style-type: none"> ➤ Availability of low land condition for tank & ponds for taking up fishing. ➤ A number of fresh water ponds & tanks are existing. ➤ Input for fishing spawn and other inputs are available. ➤ Fisherman communities are existing. ➤ Fished ingredients like oilcakes are available. 	<ul style="list-style-type: none"> ➤ Low cost feed mills can be established.. ➤ There is opportunity for establishment of yearlings production centres ➤ Carp hatcheries can be established. ➤ Biological control of aquatic weeds can be done. ➤ Sound economy of farmers favouring establishment of aquashop.
Weakness	Challenge
<ul style="list-style-type: none"> ➤ Pisciculture tanks are community based, a number of villagers are the partners of ponds & tanks. ➤ Pond & tanks are subject to herbs & shrubs & various types of perennial weeds. ➤ Less availability of shops dealing in fish based inputs. ➤ No coverage of insurance. ➤ Lack of fish genera-having market demand. ➤ Occurrence of various fish diseases. 	<ul style="list-style-type: none"> ➤ Poisoning of fish by enemies. ➤ Involvement of high cost in the fish production is a emerging challenge.

7.5 Natural Resource Management

STRENGTHS	OPPORTUNITIES
<ul style="list-style-type: none"> ➤ Availability of natural waterbodies ➤ Proportionately higher and dense forest cover ➤ Availability of indigenous practices. ➤ Availability of wild foods. 	<ul style="list-style-type: none"> ➤ Scope for agro forest ➤ Scope for Conservation of biodiversity ➤ Scope for soil conservation and ground water recharges ➤ Scope for organic farming ➤ Scope for composting unit ➤ Scope for cultivationg wild foods (wild tuber, minor millets, wild fruits)
WEAKNESSES	CHALLENGES
<ul style="list-style-type: none"> ➤ Degradation of soil due to erosion ➤ Lack of technological knowledge for conserving germplasm ➤ Faulty method of tillage 	<ul style="list-style-type: none"> ➤ Loss of forest cover due to illicit felling ➤ Higher rate of soil erosion ➤ Ecological imbalance ➤ Poor management of irrigation water

8 AES-VII Forest soil

8.1 Agriculture Production System

Strength	Opportunity
<ul style="list-style-type: none"> ➤ Scope for development of agro-forestry, agro-silvi for sustainable livelihood. ➤ Promotion of crop diversification and forest species. ➤ Water resources available for 	<ul style="list-style-type: none"> ➤ Large no of employment opportunity can be created ➤ WSHG can be employed in processing forest produce, making paper plate, extracting honey etc. ➤ Training on Bamboo cultivation, lac cultivation can promoted.

crop cultivation	➤ Utilization of solar energy as an alternative source of irrigation.
Weakness <ul style="list-style-type: none"> ➤ Lack of proper communication facility ➤ Non availability of quality input on time ➤ Ignorance of farmers. ➤ Motivating the farmers for scientific cultivation is very difficult. ➤ Lack of support in terms of financial back up. 	Challenge <ul style="list-style-type: none"> ➤ Lack of marketing channels for the agri-produce. ➤ Fruits and vegetables should be purchased as an organic product ➤ Adoption of modern technology by farmers instead of traditional farming ➤ Planning for combating natural calamity.

8.2 Horticulture Production System

Strength	Opportunity
<ul style="list-style-type: none"> ➤ Availability of land resources for cultivation of high value low volume crops and fruits ➤ Assured irrigation due to presence of perennial water streams ➤ Optimum climate condition for horticultural crop growth. 	<ul style="list-style-type: none"> ➤ Utilization of vacant sloppy land for cultivation of seasonal fruits and vegetables. ➤ Promotion of organic farming and organic fruits and vegetables ➤ Introduction of water use efficiency technology through drip irrigation system.
Opportunity	Challenge

<u>Weakness</u>	<u>Challenge</u>
<ul style="list-style-type: none"> ➤ Lack of marketing facility along with communication and transportation difficulty. ➤ Financial weakness for cultivating fruits and vegetable in a large scale for business purpose.. 	<ul style="list-style-type: none"> ➤ Development of collection center at each panchayat for bulk marketing of fruits and vegetables ➤ Establishment of market yard at panchayat level.

8.3 Animal Production System

Strength	Opportunity
<ul style="list-style-type: none"> ➤ Availability of grazing land for small and large ruminants ➤ Availability of land for fodder cultivation. ➤ Small animals can thrive in Drought situation. ➤ Small marginal, landed and landless people go for small animal rearing. ➤ Bushy forests available 	<ul style="list-style-type: none"> ➤ Huge demand of meat. ➤ Disposal of sheep and goat during economically very easy ➤ Small animal can withstand drought like situation. ➤ Construction of goat shed under MGNREGS
Weakness	Challenge
<ul style="list-style-type: none"> ➤ Inadequate mobility facility ➤ Inadequate supervision & guidance thereby poor follow-up ➤ No uniformity in extension methodology ➤ Inadequate publicity ➤ No infrastructure for Goat AI ➤ Less importance is being given to 	<ul style="list-style-type: none"> ➤ Non-cooperation of bank official to sanction loan ➤ Lack of official staff for proper technical backstopping ➤ Upgradation of local stock by ensuring availability of good breeding males to the small animal rearers. ➤ Maintenance of proper health to reduce

<p>goat/sheep sector in comparison to Dairy sector</p> <ul style="list-style-type: none"> ➤ Inadequate De-worming and vaccination programmes ➤ Negligible training programmes on goat management for field staff. ➤ Convergence concept not institutionalized. 	<p>the mortality.</p> <ul style="list-style-type: none"> ➤ Artificial Insemination in Goat for quick genetic gain in offspring. ➤ Ensure production of quality semen by setting up new Goat Frozen Semen Bank
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8.4 Fisheries Production System

Strength	Opportunity
<ul style="list-style-type: none"> ➤ Availability of low laying areas for excavation as fish production tank. ➤ Availability of spawn unit for fish production ➤ New scientific technologies for higher fish production 	<ul style="list-style-type: none"> ➤ Capacity building of farmers through training & demonstration ➤ Renovation of old water bodies ➤ Encouragement to farmers for excavation of new water bodies ➤ Supply of sufficient fry, fingerling & yearling by fishery Dept. & private hatchery ➤ Extending insurance facilities to fish farmers ➤ Proper treatment of water bodies after soil & water testing ➤
Weakness	Challenge

<ul style="list-style-type: none"> ➤ Financial institutions are reluctant to sanction loan for fish production. ➤ Low adoption of scientific fish production by farmers ➤ Non availability of infrastructure and storage for fish. ➤ 	<ul style="list-style-type: none"> ➤ Fish growers are competing with the other neighbouring states during fish procurement ➤ Availability of fresh fish at market yard from other states. ➤ Strict rules and regulation to be formulate for marketing of fish from neighbouring states.
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8.5 Natural Resource Management

Strength	Opportunity
<ul style="list-style-type: none"> ➤ Availability of vast diversity of flora and fauna ➤ Availability of large scale forest area ➤ Rich source of soil and water is available for vegetation 	<ul style="list-style-type: none"> ➤ To create awareness about the detrimental effect of shifting cultivation. ➤ Establishment of marketing infrastructure for procurement of Non-forest timber products. ➤ Establishment of processing of minor forest products.
Weakness	Challenge
<ul style="list-style-type: none"> ➤ Degradation of forest area due to shifting cultivation. ➤ Lack of awareness of farmers towards conserving forest and forest products. 	<ul style="list-style-type: none"> ➤ Soil erosion due to shifting cultivation practice ➤ Black marketing of forest products