

**Outline of the Dynamic Conservation Plan**  
**for**  
**Zhanggana Agriculture-Forest-Animal**  
**Husbandry Composite System**



**The People's Government of Diebu County, Gansu Province**

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# **Outline of the Dynamic Conservation Plan**

## **1 Ongoing Efforts**

### **1.1 Reinforce Institution and Mechanism Building-up**

County Committee and Government of Diebu pay high attention to the Zhanggana Agriculture-Forest-Animal Husbandry Composite System dynamic protection, adaptive management and sustainable development. Firstly, Agricultural Culture Heritage Protection and Development leading group, which is composed of Husbandry Bureau and Forestry Bureau, was set up and lead by County magistrate. In the mean time, Agricultural Culture Heritage Administration Office was founded as well.

### **1.2 Ecological Engineering Building-up**

During *the 11th Five-Year Plan* and *the 12th Five-Year Plan period*, by carrying out Ecological Protection and corresponding policy, Natural Forest Protection Program, Biodiversity Protection Program, Grassland Protection Program, Grain for Green Project, Soil and Water Loss Control, Prevention, Reduction of Natural Disasters and a series of Ecological Protection and Building up Projects are carried out successively, which fundamentally reverse the trend of ecological environment deterioration. The ecological condition is improving and biodiversity gets well recovered.

### **1.3 Launching and developing Publicity Work**

In order to reasonably protect and make effective use of Zhanggana Agriculture-Forest-Animal Husbandry Composite System in Gansu Province-----the precious Agricultural culture heritage, the County of Diebu carried out a serious of significantly effective publicity work. Firstly, the county gave great impetus to building up the Zhanggana Glacier Heritage Park. Secondly, through hard work of applying for Globally Important Agricultural Heritage Systems, in the year of 2016, the Zhanggana Agriculture-Forest-Animal Husbandry Composite System was listed by Ministry of Agriculture as the first batch of backup directory in Globally Important Agricultural Heritage Systems.

### **1.4 Developing Scientific Research**

*Gannan Tibetan Autonomous Prefecture* in Gansu Province signed a strategic cooperation framework agreement with the Institute of Geographical Science and Resources from Chinese Academy of Sciences to carry out comprehensive scientific research from different perspectives of the construction of ecological civilization, ecological tourism development, agricultural cultural heritage protection and glaciers geological surveying, which establish a solid scientific foundation for sustainable development of Zhanggana Agriculture-Forest-Animal Husbandry Composite System.

Secondly, Protection and Development Seminars were organized. Since

the Year of 2009, Ecological Society of China, Gannan State Committee, and together with the State's Government have successfully launched 5 sessions of Diebu County Lazikou Ecological Civilization Forum. More than sixty academicians and experts from all over the country got involved and spared no efforts to contribute their intelligence and power to protecting and developing Zhanggana Agriculture-Forest-Animal Husbandry Composite System.

## **1.5 Explicating Guiding Principle of Protection**

### **(1) Principle of Sustainable Development**

Agricultural cultural heritage mainly shows the harmonious and dynamic balance between production & living for human being and the Nature in the past long terms. In the past tens of thousand years, under the frigid and sterile conditions, the ancients in Zhagana created the Agriculture-Forest-Animal Husbandry Composite System which contains production function and ecological functions at the same time, and the system still plays its proper role at present, which shows that the system has strong sustainability. Therefore, to develop Globally Important Agricultural Cultural Heritage Protection Planning shall be guided by the principle of dynamic protection and adaptive management. In the mean time, the idea of sustainable development shall run through the whole planning process, trying to guarantee the continuation of the whole system.

## **(2) Principle of Integrated Protection**

Different from Agricultural Heritage Site Protection and Agricultural Relic Protection, Agricultural system is more like a kind of typical ecological system. Therefore, in terms of Agriculture heritage, it is really important to carry out operation with the principle of integrated protection. Diebu Zhanggana Agriculture-Forest-Animal Husbandry Composite System is a composite system of Society- Economy- Nature ecological system. This system is combined of tangible and intangible heritage properties of ecology, environment, landscape, culture and technology. Regarding the composite ecological system as an integrated group can significantly help achieve the harmonious development of subsystem.

## **(3) Principle of Dynamic Protection**

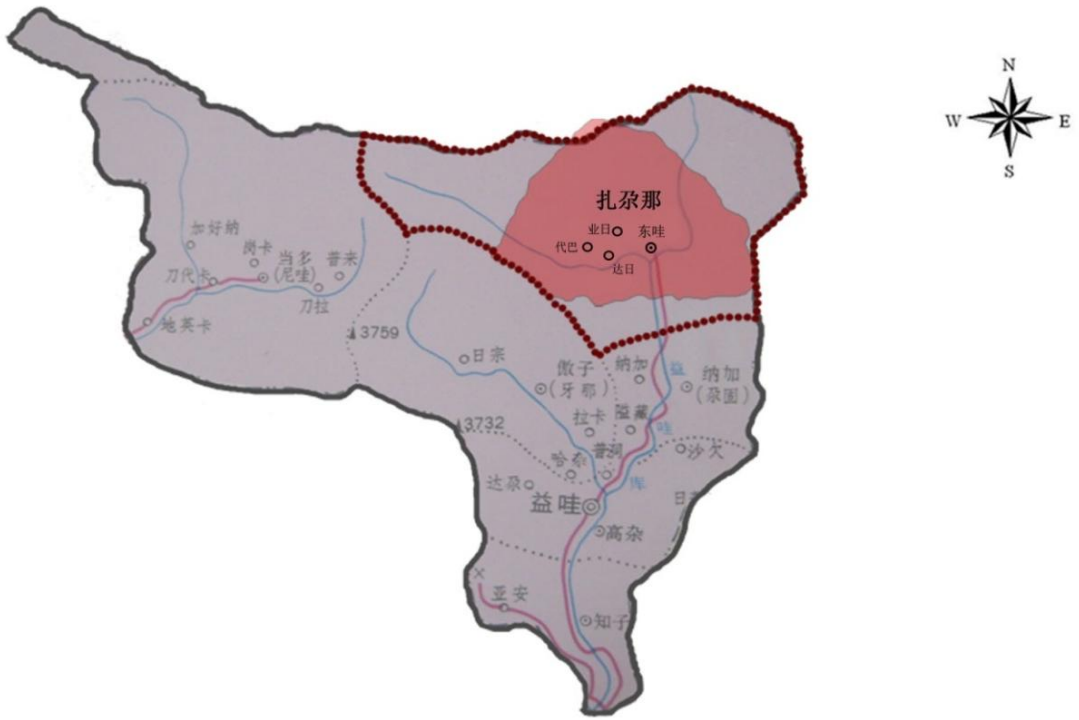
Dynamic protection is put forward as an absolutely new protective method especially for the type of heritage like agricultural culture heritage with dynamic factors, which is established by the *United Nations Food and Agriculture Organization* as the strategic principle of Globally Important Agricultural Heritage Systems (GIAHS). It is essential to explore the way of protection for Agricultural culture heritage during the process of development, and the core of dynamic protection is to protect in the development process. Diebu Zhanggana Agriculture-Forest-Animal Husbandry Composite System is a kind of “Active” and “Multifunctional” agricultural production system, should pay attention to

dynamic protection and function development on the basis of protection of agricultural biodiversity and agricultural cultural diversity in order to improve the system efficiency and the adaptive capacity.

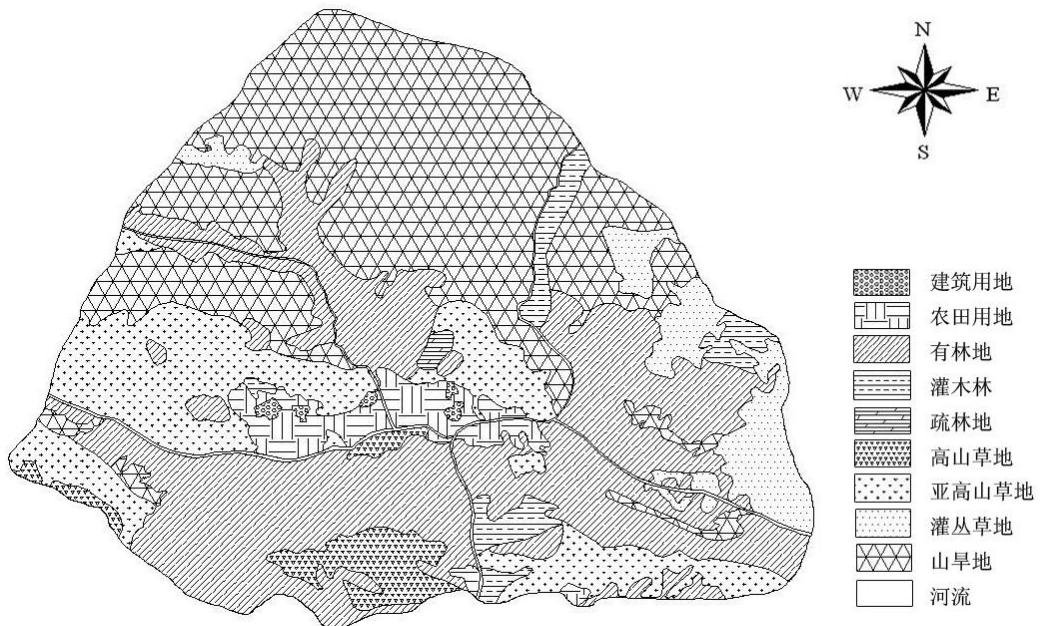
#### **(4) Principle of Participative Management**

Multi-participation, benefit sharing is the guarantee principle of agricultural culture heritage protection. The premise of dynamic protection is to build up multi-participation mechanism, to determine interested party of agricultural culture heritage, to explicit the responsibility, duty and benefit of dynamic protection and to build up benefit sharing mechanism. By doing this, enthusiasm of interested party can be arouse and fairness of benefit distribution between different interested parties can be improved. The protection and development of Diebu Zhanggana Agriculture-Forest-Animal Husbandry Composite System Agricultural Culture Heritage involves a lot of interest parties, it needs enthusiastic participation of different parties.





**Figure1 Location of Zhagana settlement in Yiwa village**



**Figure2 Land use types of Zhagana settlement**

## **2 Action Plan**

### **2.1 Protecting the Agro-Ecology**

#### **(1) Protection Object**

Forest and agriculture intercropping, three-dimensional plant-culture system under the forest, and pollution-free agriculture and animal husbandry production base construction to reduce the use of chemical fertilizers, to reduce resource damage and the excessive development, and to maintain & restore the biodiversity.

Environmental protection goals: heritage sites to achieve pollution-free production standards; Reserve to reach green food production standards; Ecological agriculture circular economy industrial base to reach organic production standards.

Ecological protection goals: Heritage site vegetation coverage reaches more than 70%, Water loss rate decrease to less than 20%; Preserve zone vegetation coverage reaches more than 85%, Water loss rate decrease to less than 15%.

#### **(2) Protection Content**

The main content of ecological protection including Red Forest ecosystem, grassland ecosystem, biodiversity, water environment and so on.

#### **(3) Protection Procedures and Action Plan**

Between Year of 2016-2023, Department of County Forestry,

Husbandry and Technique take the lead and Yiwa Township Government cooperate to implement Natural Forest Protection Project, Green for Grain Project, Returning Land for Grazing to Pasture Project, Public Welfare Forest Construction Project, Pest Control Operation and Rare Animals and Plants Protection Project, “Ecological Degradation, Desertification and Salinization” Regulation Project and Grassland Ecological Protection Subsidy Policy , etc.

Between the year of 2016-2018, Department of County Technique takes the lead, Department of County Forestry, Department of Husbandry and Yiwa Township Government cooperate to contact with relevant colleges and universities and scientific research units, to make joint efforts to build Agriculture-Forest-Animal Husbandry Composite scientific research base.

Between the year of 2016-2023, Department of County Technique takes the lead, Department of County Forestry, Department of Husbandry and Yiwa Township Government cooperate to have system investigation and to summarize and scientifically select Forest and agriculture intercropping/ three-dimensional plant-culture system under the forest that suitable for local environment including species collocation, planting and aquiculture technology as well as ecological green production technology and so on. In between, from the year of 2016-2018, conduct survey and job of improving plant-culture technology; from the year of 2019-2021, set demonstration site in Reserve of Zhagana Village, build

up Ecological Agriculture Circular Economy Industrial Base; from the year of 2021 to 2023, popularize in Yiwa Heritage Site.

Between the year of 2018-2021, Department of County Technique takes the lead, Department of County Forestry, Department of Husbandry and Yiwa Township Government cooperate to train the Agriculture-Forest-Animal Husbandry Composite Plant-culture model households, to keep and implement traditional folk custom, environmental friendly and resource-saving plant-culture technology, introduce agricultural control, physical control and biological control, implement three-dimensional plant-culture system under the forest and implement Ecological green production technology.

Between the year of 2016-2023, Department of County Forestry, Husbandry and Technique take the lead and Yiwa Township Government cooperate to develop pollution-free animal husbandry production activities. In between, from the year of 2016-2021, to carry out the construction of pollution-free products in heritage sites; from the year of 2015-2020, to carry out the construction of green food in Reserves; from the year of 2021-2023, to develop organic products construction in Ecological Agriculture Circular Economy Industrial Base.

Between the year of 2016-2023, Department of County Water Conservancy takes the lead, Department of County Forestry, Department of Husbandry and Yiwa Township Government cooperate to carry out irrigation and water conservancy facilities and related engineering

construction, including some small water conservation projects, agricultural protection forest (grass) projects, and soil conservation tillage measures, etc.

Between the year of 2016-2021, Department of County Forestry, Husbandry and Technique take the lead and Yiwa Township Government cooperate to have relevant departments and regions to monitor ecological status, cooperate with national or provincial government to establish ecological system positioning observation station, to have long-term monitoring and tracking of function, dynamics and logistics, energy flow, information flow process of the forest, grassland ecosystem structure.

## **2.2 Protecting the Agro-Culture**

### **(1) Protection Object**

Through investigations and protective measures to protect particular agricultural plant-culture characteristic resources, such as the Tibetan highland barley, plateau Juema pigs, Special Tibetan medicinal herbs, special wild flowers and so on, to study corresponding traditional knowledge, technology and traditional folk culture, to restore and carry forward the excellent ideas and manifestation.

Together with Zhagana Forest Park's construction, to establish Special Agricultural Resource Protection Base; Through various forms of propaganda and the activities, the public awareness of Agriculture-Forest-Animal Husbandry Composite System Agricultural

culture heritage shall reach 95%; From studying of the traditional Tibetan culture and the related knowledge and technology, declare 2-3 item of intangible cultural heritage; to construct Zhagana Agriculture-Forest-Animal Husbandry Composite System Agricultural culture heritage exhibition room (museum).

## **(2) Protection Content**

Jujube tree, Jujube yard, Jujube culture protection include specific agriculture plant-culture resource, traditional culture and agriculture plant-culture knowledge and technology, which includes traditional knowledge, traditional craftsmanship and local rules, folk festivals and folk art, etc.

## **(3) Protection Procedures and Action Plan**

Between the year of 2016-2023, Department of County Culture takes the lead, cooperated by Department of County Forestry and Husbandry, to make full use of a variety of media and forms, popularize the relevant knowledge of Zhagana Agriculture-Forest-Animal Husbandry Composite System Agricultural culture heritage, create atmosphere of all-people participation in cultural heritage protection and development;

Between the year of 2016-2021, Department of County Forestry takes the lead, cooperated by Department of Husbandry and Yiwa Township Government, by combining the construction of Zhagana Forest Park, to build up Specific Agricultural Resources Protection Base including the Tibetan highland barley, plateau Juema pigs, Special

Tibetan medicinal herbs, special wild flowers and so on.

Between the year of 2016-2021 Department of County Forestry, Husbandry and Culture take the lead, cooperated by Yiwa Township Government, to study the traditional knowledge of Agriculture-Forest-Animal Husbandry Composite Management and to declare 2-3 item of intangible cultural heritage.

Between the year of 2018-2023, Department of County Development and Reform Commission, Construction, Culture and Technology take the lead, to construct the exhibition room(museum )of Zhagana Agriculture-Forest-Animal Husbandry Composite System Agricultural Culture Heritage, which is grouped by Tibetan Agricultural resources and Culture, Zhagana characteristic agricultural resources, Zhagana agricultural culture and technology, and Zhagana agricultural cultural heritage exhibition room, etc, to set it up as a Base combined with functions of cultural presentation, tourism, science popularization, technical training.

Between the year of 2015-2023, the county government takes the lead, in combination with existing brand activities like Shanbhala tourism festival and Lazikou red tourism festival activities, to integrate with Zhagana Agricultural Culture Heritage Festival, to centrally display Tibetan traditional festival culture, folk customs, folk songs and dances together with products exhibition, academic discussion, tourist publicity and other joint subjects.

Between the year of 2018-2021, Department of County technology and culture take the lead, Department of Forest and Husbandry cooperate to publish *Zhagana Agriculture-Forest-Animal Husbandry Composite System Agricultural Culture Heritage* series of books, comprehensively, systematically and multi-directionally explicit the cultural heritage, protection, development and achievements, which make it become a name card for Diebu's forestry and animal husbandry not only for internal but also for external propaganda.

Between the year of 2016-2023, the County Government takes the lead, and the other departments cooperate to combine with the Ecological Culture Lazikou Forum and periodically *Ecological Agriculture Circulation Economy Development Experts Forum*, to study and communicate the scientific technology, policy of Agricultural Heritage 's protection and development.

## **2.3 Protecting the Agricultural Landscapes**

### **(1) Protection Object**

Recover and protect Agriculture-Forest-Animal Husbandry Composite vertical distribution of landscape by implementing Agriculture-Forest-Animal Husbandry Composite management model and other ecological protective measures; combined with the construction of new countryside, govern rural environment, protect and restore traditional local-style dwelling houses and villages (the Pedal Houses).



Through the rural environmental health management project, make sure the rural environmental health to achieve good level in the area of Reserve zone; through the restoration project of traditional dwellings, make sure the Pedal Houses with more than one hundred years' history 100% restored and declared Zhagana Traditional Village.

## **(2) Protection Content**

Protection content includes restoration of Agriculture-Forest-Animal Husbandry Composite vertical distribution of landscape and traditional Agriculture-Forest-Animal Husbandry Composite Management Landscapes, rural area environmental health governance, and protection and restoration of Pedal Houses with more than one hundred years' history.

## **(3) Protection Procedures and Action Plan**

Between the year of 2016-2023, Department of County Technology takes the lead, cooperated by Department of County Forestry and Yiwa Township Government, to have systematic survey, summarize and scientifically select proper three-dimensional Plant-culture system under the forest, which including species collocation, planting and aquiculture technology and ecological green production technology, etc., to restore and protect animal husbandry vertical distribution landscape. During the period, from 2016-2018, to carry out survey, planting and aquiculture technology improvement; from 2019-2021, to set a example in Reserve zone Zhagana; from 2021-2023, to promote in heritage zone Yiwa.

Between the year of 2016-2023, the Department of County Construction, Agriculture and different villages and towns take the lead, cooperate to build up new rural countryside, carry out traditional Pedal Houses Dwellings restoration and protection project. In between, from 2016-2018, have census of Pedal Houses with more than one hundred years' history, build up integrated database; from 2018-2023, start listing the Pedal Houses protection and restoration project, declare for Zhagana traditional village.

Between the year of 2016-2023, Department of County Health, Agriculture and towns and villages take the lead to build up new rural countryside, carry our Environmental Health Management Project. Make sure yard is clean and sorted with no greasy and dirty ground, make sure poultry and livestock cultured in enclosure of big area; roads are clean, not dirty sewage, garbage kept in proper area and have centralized processing; make sure all the equipment, board and signboards of residents' houses are clean with all characters written correctly.

## **2.4 Developing Eco-Agriculture**

### **(1) Development Object**

Hierarchically develop different kinds of ecological animal husbandry and its by-products, orderly carry out ecological logo products base construction, expand the extension of animal husbandry products processing chain. Build an ecological agriculture construction of organic

products base, including the specific livestock and poultry breeding base a and Tibetan Chinese herbal medicine planting base; Promote two to three ecological products of famous brand; build a livestock products trading market.

## **(2) Development Content**

Development content includes base construction, production and processing, brand building, product certification, industrial extension, marketing, and related industries, etc.

## **(3) Development Procedures and Action Plan**

Between the year of 2016-2021, Department of County Publicity, Culture and Tourism take the lead, processing enterprises cooperate, to hire a professional marketing team together, take full advantage of Zhagana Tibetan cultural heritage, forest park, geological parks, and the opportunity of declaring pilot agricultural cultural heritage, make full use of the *Investment & Trade Forum for Cooperation between East & West*, *China Yangling Agricultural Hi-Tech Fair*, Anti-Poverty and public service advertising of CCTV and provincial TV station, as well as Weibo, BBS and other Internet platform promotion which is trying to build up Zhagana agricultural culture heritage brand, improve popularity of Zhagana Agriculture-Forest-Animal Husbandry products.

Between the year of 2016-2023, Department of County Development and Reform Commission, Commerce, forestry and Husbandry take the lead; processing enterprises cooperate, to improve animal husbandry

production and acquisition chain. Firstly is to cultivate and develop animal husbandry composite management model household; secondly is to build up rural production cooperatives; thirdly is to straighten out and perfect model that starting from “the leading enterprise + cooperative + farmer”, gradually move to the step of market pulling the leading enterprise, the leading pulling the base, and the base pulling the farmers, finally get the farmer’s products into brand commodity of market consumption.

Between the year of 2016-2021, Department of County Husbandry and Forestry take the lead, Yiwa Township Government cooperate to carry out construction of ecological agriculture construction of organic products base, create industry chain of circular economy of ” livestock products – specific plant products-specific husbandry products and by-products – husbandry waste utilization”, including Tibetan medicinal herbs planting with edible fungus production industry chain, Agriculture-Forest-Animal Husbandry composite cultivation (Juema pigs, chicken) industry chain, interplanting of trees and crops base, Tibetan highland barley production base, wild flowers domestication test base, husbandry waste utilization, etc

Between the year of 2016-2023, Department of County Husbandry and Forestry take the lead, Yiwa Township Government cooperate to actively carry out the development of ecological mark certification. The implementation of the county, township and village and household 4

levels of science and technology service network promotion, carry out full implementation of pollution-free standardized cultivation technique procedures and Jia County pollution-free fruit quality standards, etc., have brochures popular and easy to understand/ use like " comprehensive high- yield cultivation technical management" sent to the farmers. In between, from 2016-2021 carry out the construction of pollution-free products in heritage sites, from 2018-2023 carry out the construction of green food in Reserve zone, from 2021-2023 develop organic products in ecological agriculture circular economy industrial base;

Between the year of 2016-2021, Department of County Development and Reform Commission, Commerce, take the lead, processing enterprises cooperate to build up leading enterprise of 2-3; work together with enterprises and related colleges , universities and research institutes to build joint production and scientific research base, extend Agriculture-Forest-Animal Husbandry primary product processing industry chain, introduce advanced technology, expand the relevant ability of development and agricultural products fabrication, Hierarchically develop different types of Agriculture-Forest-Animal Husbandry products, promote 2-3 ecological products as famous brand

Between the year of 2018-2021, Department of County Development and Reform Commission and Commerce take the lead, build up one Animal By-Products Trading Market, Promote the development of tertiary industry, such as logistics.

Between the year of 2016-2018, Department of County Husbandry and Forestry take the lead, Yiwa Township Government cooperate to carry out the construction of farmer specialized cooperative economy organization.

Between the year of 2016-2018, Department of County Commerce, Husbandry and Forestry take the lead, organize agricultural association, making it a bridge between farmers, government and merchants. Firstly carry out Industry management and service first, secondly as an organization, must strive for the technology and funding support together with looking for market and achieving sales.

## **2.5 Developing of Leisure Agri-culture**

### **(1) Development Object**

Build Quality tourist routes along Zhagana Agricultural culture heritage site, develop three to five tourism sites or experience points, support the development of 5-10 households farmhouse; merge Zhagana agricultural cultural heritage tourism into the existing tourism planning and tourism routes.

### **(2) Development Content**

Development content includes attractions and route design, reception facilities, brand building, product design, marketing, community participation, and the related tourism resources, etc.

### **(3) Development Procedures and Action Plan**

Between the year of 2016-2018, Department of County Tourism takes

the lead to list the agricultural culture heritage tourism into Jia County tourism planning; hire a professional marketing team; in the process of popularizing Diebu County Green Long March Branding and increasing the popularity of Diebu County Eco-products, advertise Diebu County agricultural cultural heritage tourism brand as well;

Between the year of 2016-2021, Department of County Tourism takes the lead, Yiwa Township Government cooperate to hire a professional tourism planning team, build quality tourist routes along Zhagana Agricultural culture heritage site, give priority to Zhagana Agriculture-Forest-Animal Husbandry Composite sites; give priority to agricultural cultural heritage exhibition room (museum), ecological agriculture construction of organic products base, Zhaganat forest park and geological park and Zhagana Folk –custom culture garden; develop three to five tourism sites or experience points;

Between the year of 2016-2021, Department of County Tourism and Poverty Relief Office take the lead, give priority to Agriculture-Forest-Animal Husbandry Composite cultivation model household, to support the development of 5-10 households of farm-stay (forest -house-stay, Tibetan-house-stay) in Zhagana Agricultural Culture Heritage Reserve zone.

Between the year of 2016-2018, Department of County Development and Reform Commission and Commerce take the lead to build 1 Tibetan-Han handicraft factory, develop local handicraft industry,

cooperate with the tourism industry, to build up brand with local Tibetan characteristics.

Between the year of 2018-2021, Department of County Construction and Tourism take the lead, Yiwa Township Government cooperate to carry out tourism infrastructure construction projects. Under the guidance of tourism planning to construct reception facilities, roads, scenic spot, agricultural cultural heritage logos, signs, parking and other hardware facilities.

Between the year of 2018-2021, Department of County Tourism and Husbandry take the lead, Yiwa Township Government cooperate to declare Diebu County as rural tourism demonstration county and demonstration site to Ministry of Agriculture and National Tourism Administration

## **2.6 Cultural Self-consciousness Building up**

### **(1) Development Content**

Through a variety of forms of propaganda, popularization activities of agricultural heritage value and recognition of the importance of protection, to improve the enthusiasm of all sectors of society to participate in the protection and development, and list the development and protection of Zhagana Agriculture-Forest-Animal Husbandry Composite system, and have the public awareness of Zhagana agricultural culture heritage achieve 95%.



## **(2) Development Object**

Improve awareness of importance of agricultural culture heritage value and heritage protection, improve enthusiasm of all sectors of the society especially farmers and herdsmen to participate in the protection and development.

## **(3) Development Procedures and Action Plan**

Between the year of 2016-2023, Department of County Culture takes the lead, Departments of Technology, Forestry and Husbandry cooperate to make full use of multiple media to advertise and popularize Zhagana Agriculture-Forest-Animal Husbandry Composite System Agricultural Culture Heritage relevant knowledge through “Culture to the countryside”, farmer education and teenager popularization of science, to create atmosphere of agricultural culture heritage protection and development participated by all people

Between the year of 2018-2021, Department of County Culture and Technology take the lead, Department of Forestry, Agriculture and Education cooperate, compile Leading cadres’ readers, farmers' practical technical brochures and elementary school and junior high school extracurricular reading materials, based on *Diebu County Zhanggana Agriculture-Forest-Animal Husbandry Composite System*, make sure, one leader one brochure, one Jujude family one brochure, and one student one brochure;

Between the year of 2016-2021, department of County Culture and

Tourism take the lead, Actively develop Agriculture-Forest-Animal Husbandry Composite management history and culture, folk culture, cooking culture, landscape culture and art, in combination with existing brand activities like Shanbhala Tourism Festival and Lazikou Red Tourism Festival activities, to integrate with Zhagana Agricultural Culture Heritage Festival. Pay attention to the idea of County Red Culture and Green Culture, farming culture and Tibetan culture. Make sure Red culture and Green Culture, farming culture and Tibetan culture help each other forward, and develop vigorously.

Between the year of 2016-2023, Department of County Heritage Application Office takes the lead, make Zhanggana Agriculture-Forest-Animal Husbandry Composite System Agricultural Culture Heritage Wall Calendar, and distributed to the public for free, improve the awareness and attention of the society on Zhanggana Agricultural Culture Heritage.

## **2.7 Decision making capacity Building Up**

### **(1) Development Object**

Administrator of agricultural cultural heritage protection and development can have a clear idea of agricultural cultural heritage protection and development; in policy-making process, can consult opinions of the agricultural cultural heritage with local farmers; farmer representatives can base on the actual situation they are facing in the town

or village to make reasonable suggestion on proposed policy.

Held professional training 2-3 times for the manager and the farmer's every year, participate in national agricultural cultural heritage seminar 1 to 2 time; Participate in local exchange activities with other agricultural cultural heritage site 1 to 2 times; make sure that all heritage site villages have farmer's production cooperatives.

### **(2)Development Content**

Improve the overall grasp and understanding of agricultural cultural heritage management for the administrators, increase the ability of farmer to understand policies, implement policies, and participate in policy formulation.

### **(3) Development Procedures and Action Plan**

Between the year of 2016-2023, Department of County Heritage Application Office takes the lead, other Departments cooperate to regularly organize Agriculture-Forest-Animal Husbandry Composite Management professional training courses and seminars, invite professionals in all aspects, train administrators and farmers respectively.

Between the year of 2016-2023, Department of County Heritage Application Office takes the lead, despatch administrators, farmer and herder representatives attend national Agricultural Culture Heritage related Seminars, take positive part in local Agricultural culture heritage interchange activities

Between the year of 2016-2021, Department of Husbandry and Yiwa

Township Government take the lead, positively organize farmers and herders to establish professional cooperative economic organization. Not only help each other in production, but also becoming a bridge between government, industry and farmers and herders, which forms platform for farmers and herders to get involved in making decision.

Between the year of 2016-2018, Department of Commerce, Forestry and Husbandry take the lead, organize Agricultural Products Association, not only strength up from aspects of Production, Sales, but also become the bridge and the link between farmers and herdsman, the government, and businessmen, create a platform for enterprises to participate in decision-making.

## **2.8 Operating Capacity Building up**

### **(1) Development Object**

Through the introduction of talent, innovation mechanism, training means to improve the management level of business and management ability, improve the enterprise innovation ability, improve the ability of farmers and herdsman's ability of diversified operation capacity. Carry out 2-3 times professional trainings for administrators and farmers regularly every year. Establish a professional talented team equipped with Agriculture-Forest-Animal Husbandry technology.

### **(2) Development Content**

Develop professional technical personnel and product development

staff on Agriculture-Forest-Animal Husbandry cultivation, cultivate professional administrative management and enterprise management team, cultivate farmers, herdsman and those who understand the market, and have the ability to making decision.

### **(3) Development Procedures and Action Plan**

Between the year of 2016-2023, Department of Husbandry, Forestry and Technology take the lead, Yiwa Township Government cooperate to carry out a variety of business technology training project. Increase the intensity of technical training; improve the quality of the farmers and herdsman's scientific and technological quality. Train those who can understand technology, understand the market, equipped with decision-making ability personnel, truly achieve the aim that in the town ,there must be someone who is technology leader, in the village, there must be someone who is technician, and in each family, there must be someone who is with clear mind of the technique. To promote advanced practical and comprehensive Agriculture-Forest-Animal Husbandry fertility management technology, improve the utility ratio of science and technology, together with the contribution rate;

Between the year of 2016-2023, the County Development and Reform Commission, Business Association together with other enterprises, regularly organize Management Ability Training every year, train professional Agriculture-Forest-Animal Husbandry related technician and developers, train professional administrators and management personnel,

enhance enterprise innovation ability, and increase the of administrators.

Between the year of 2016-2023, Department of Husbandry, Forestry and Technology take the lead to carry out Human Resources of Agricultural Science and Technology. Strengthen education of ecology and agricultural environmental protection and other disciplines, strengthen the cultivation of the ecological agricultural technical personnel, build up a professional team with certain scale and equipped with ability to carry out agricultural biodiversity protection and follow different business model.

Between the year of 2016-2021, Department of Development and Reform Commission and Department of Commerce take the lead, other Processing Enterprise cooperate contact with relevant colleges and universities and scientific research units, to make joint efforts to build Agriculture-Forest-Animal Husbandry Composite scientific research base. Extend Agriculture-Forest-Animal Husbandry primary product processing industry chain, introduce advanced technology, and expand the relevant ability of development and agricultural products fabrication.

### **3 Effect of Action**

#### **3.1 In Local Level**

##### **(1) Natural Factor and Human Activities Threat Coping Strategy**

Firstly , establish a multilateral participation protection mechanism,

improve the acknowledge of government towards agricultural cultural heritage projects, promote the development of Agriculture-Forest-Animal Husbandry Composite System protection and related projects, make sure the projects can be conducted smoothly and successfully in local level. Second, make the relevant departments further realize that the agricultural culture heritage make huge contribution to the process of agricultural modernization and sustainable development of ecology and also clarify the important role agricultural culture heritage play in the new rural construction through continuous efforts. Third, give full play to the national, provincial and city's leadership and coordination, the Technology Department shall provide Project science and technology support, and Local Government bear important role during the process of concrete implement. Fourth, carry out Zhagana Agriculture-Forest-Animal Husbandry Composite system protection Study, organize various types of meetings and the popular science activities, strengthen the propaganda of farmers, and improve the protection consciousness.

## **(2) Working-age Workforce Reduction Coping Strategy**

Firstly, increase the awareness of farmers on Agriculture-Forest-Animal Husbandry Composite System Value through trainings and seminars, arouse the local residents' confidence and pride towards local culture. Secondly, drive the protection and sustainable development of Agriculture-Forest-Animal Husbandry Composite System

through Leisure Agricultural development, this can help increase the income of farmers, increase the comparative profit of agricultural management, and effectively reduce the outflow of the workforce. Thirdly, enhance the affection of local residents towards hometown and improve the enthusiasm and initiative of protecting local culture by restoring all kinds of festival activities. Fourthly, develop agricultural cultural heritage protection compensation measures, at the same time, provide more coach to the young about modern agricultural marketing methods and skills, to ensure they are qualified to carry on agricultural production and make profit from that.

### **(3) Imperfect Agricultural Culture Heritage Protection Management Measure Coping Strategy**

Firstly, set up a specialized agricultural cultural heritage protection management organization, set up strict rules of rewards and punishments system to crack down on all kinds of behaviors that damage agricultural cultural heritage protection and development. Secondly, improve the heritage site managers, technical personnel, and farmers' scientific quality, cultivate professional agricultural culture heritage management team, Agriculture-Forest-Animal Husbandry Composite management and technical personnel, and at the same time train the farmers with multiple operation capacity. Thirdly, complete survey about the major component of heritage and vulnerable spot, also formulate corresponding protective measures.



#### **(4) Damage caused by Tourism Development towards Agriculture-Forest-Animal Husbandry Composite System Coping Strategy**

Firstly, control tourism development and facilities construction of the 4 core natural villages of Diebu Zhagana Agriculture-Forest-Animal Husbandry Composite System keep the original style, make sure the farmland, forest, grassland, rivers, local-style dwelling houses, temples and other landscape in Agriculture-Forest-Animal Husbandry Composite System core Reserve area are well coordinated. Secondly, vigorously explore sustainable tourism and agricultural cultural heritage with the combination of new ideas and new ways, innovate agricultural heritage tourism exploitation mode, especially pay attention to building up agricultural cultural heritage tourism brand. Thirdly, take agricultural culture heritage as important historical , cultural and landscape resource to develop and enrich leisure agriculture, sustain industries development, drive the heritage site employment and increase in rural incomes at the same time.

### **3.2 In State Level**

#### **(1) Impact of Modern Chemical Agriculture towards Traditional Technology Coping Strategy**

Firstly, According to the scientific and reasonable principle of on-demand fertilization and reducing chemicals inputs correspondingly,

try to use organic fertilizer as far as possible. According to the national standard "Rule of Rational Use of Pesticides", reasonably use pesticides during farming, and reduce the harm of pesticide residues as far as possible. Secondly, reinforce the inheritance and usage of traditional production management technology such as the use of green manure, farmyard manure, compost, intercropping, crop rotation and fallow and other traditional organic production methods. Thirdly, build up system of alien species environmental impact assessment, strengthen the supervision of alien species introduction, those included in the national invasive species list shall be strictly prohibited.

## **(2) Historic Opportunity of Increasing Investment towards Tibetan Area Coping Strategy**

Firstly, put Diebu under the overall background of national and global accelerating development, combine with national macro strategy adjustment and the formation of the regional development pattern, base on the advantage of location, resources and industry of Diebu, highlight the strategic positioning and clarify development direction. Secondly, at the height of the cultural consciousness and cultural self-confidence, give full play to resource advantage of the Agriculture-Forest-Animal Husbandry Composite Tibetan nomadic culture, farming culture of the Han nationality, forest culture, Tibetan Buddhism culture, regional culture and other characteristic national culture. Highlight the cultural accumulation and strengthen protection of cultural innovation and

development, strive to build the integration of a Tibetan and Han nationality agricultural civilization heritage and innovation development demonstration area. With greater efforts to promote cultural development, comprehensively promotes Agriculture-Forest-Animal Husbandry Composite System cultural cohesion, influence and competitiveness.

### **3.3 In Global Level**

Tibetan Nationality, Tibetan Area and Tibetan Buddhism as a representative of Chinese traditional culture resources currently are facing the misunderstanding and distortion from other counties, which treat the development of culture. Firstly, properly handle the relationship between economic development and the intangible cultural heritage protection, shall speed up the process of intangible cultural heritage confirmation, save, preservation, collection and study, at the same time, and should conduct reasonable promotion, development and utilization tasks. Secondly, if the name of the intangible cultural heritage is in line with the provisions of the trademark law, shall submit to relevant heritage protective unit for protective registration as soon as possible, and the range of registration should not be confined to domestic area only, but should also include area oversea, in order to achieve full protection. Third, join (Globally Important Agricultural Heritage Systems) GIAHS, and form alliances with other heritage sites, share good experience with other heritage sites, ascend up the influence of Diebu Zhagana

Agriculture-Forest-Animal Husbandry Composite System Agricultural Culture Heritage in global level.

## **4 Funding Guarantee**

### **4.1 Expand Funding Channel**

Establish a multi-channel fund-raising way, set up agricultural cultural heritage protection and development fund, as special funds for agricultural heritage protection. Mainly through the following channels of financing:

Eco-compensation: Eco-compensation Funding share significant role in the development role of Diebu County Zhagana Ecological Agriculture-Forest-Animal Husbandry Industry. On the basis of implementing current policy for actively striving for and successfully achieving full specified amount of public welfare forest eco-compensation, steppe ecology protection allowance, scientifically evaluate the ecosystem service function value of Zhagana forest grassland ecosystem, cooperate the construction of “The National Ecological Environment Protection and Compensation Experimental Zone” in Gansu Province. Try to use scientific data convince National Development and Reform Commission, other relevant department like (Yangtze River Committee, Yellow River Committee) and Three Rivers Sources Ecological protection fun, and strive for eco-compensation funding.

Combine with the construction of new rural building up project. At present the country attaches great importance to the problem of countryside, it is also one of the top priority for each county or township government to build up new rural countryside. The central government requires government of all levels to provide special funding for new rural construction, and agricultural heritage protection can make full use of this funding, strengthen heritage protection and promote rural construction at the same time.

Incorporate with central government's policy towards Tibetan development of supporting policy and aid-to-the-poor policy. In recent years, the central government continue to strength up of supporting the development of Tibetan area, especially with preferential policy for beyond Tibet Tibetan areas. At the same time, need to cooperate with the aid-to-the-poor policy and aid-to-the-poor projects, to promote the development of Zhagana Ecological Agriculture-Forest-Animal Husbandry Industry and ecotourism.

Combine with Circular Economy Construction related projects in Gansu Province. At the end of 2009, "Overall Planning of Circular Economy in Gansu Province" approved by the state council, try to forge sixteen industry chains, thirty-six development zone levels above the provincial level. Zhagana focus on ecological agriculture circular economy industry development can rely on the unique resource advantages, actively merge the advantage into the circular economy

industry structure of the whole province.

## **4.2 Utilization of Fund**

Appropriately increase the proportion of supporting funds for major construction projects, such as agricultural infrastructure construction and agricultural production conditions improvement projects like Land improvement projects; Increase financial support for ecological compensation work; make sure funds are distributed reasonably to conference, forums and other promotional activities; guarantee sufficient scientific research funds; ensure the smooth progress of scientific research of agricultural culture.

## **4.3 Supervision and Inspection**

In order to ensure the safe, rational and effective use of funds, the relevant departments shall conduct supervision and inspection in the use of money management. Firstly, check usage of money management of major projects during the year; secondly, check whether the project construction tasks and the Construction Quality Responsibility Letter are well carried out. Check whether the relevant units meet the requirement regulated in the Responsibility Letter and earnestly fulfill their respective responsibilities; ensure the project progress and quality are under control; Thirdly, check whether the rectification measures are well carried out, if there were some problems which are not corrected and major violations, shall urge the local governments and relevant departments to solve as

soon as possible; Fourth, investigate cases in violation of laws and discipline. In addition, in order to ensure the rational use of funds shall increase inspections on the ecological environment, to ensure the progress of the ecological compensation is well organized.

## **5 Institution Building up**

### **5.1 In State Level**

As agricultural culture heritage protection gets more and more attention by the governments all over the world, central government provide excellent policy environment and the fund support for local agricultural culture heritage protection, the Ministry of Agriculture and relevant departments also pay full attention and support to the application for the list of world heritage. In the future, should also constantly strengthen the construction of Macroscopically Adjusting Control Management Department of Agricultural Culture Heritage, set up special support, guiding and promoting project for agricultural culture heritage protection, try to promote the related work smoothly.

### **5.2 Organizational Construction in County and Town Level**

Establish leading group for agricultural culture heritage management as soon as possible, the group shall be led by the county main leaders, the responsibility is to ensure the smooth implementation of agricultural culture heritage protection projects, and in the mean time responsible for

the management and implementation of national and international projects. The committee consists of executive office, which will be entirely responsible for the implementation of committee's work, office is located in the County Husbandry Bureau, which will significantly help the work implementation. Yiwa township government will set up corresponding mechanism together with personnel work to cooperate.

Set up and organize united Agriculture-Forest-Animal Husbandry Industry Association, make it become a bridge and link between Agriculture-Forest-Animal Husbandry, government and businessmen. The association shall first fulfil the industry function and service, secondly work as an organization, and try to strive for technology, funding support from the government on behalf of farmers and herders. At the same time, look for the market, achieve sales and become the platform for enterprise to get involved in decision-making.

### **5.3 Organizational Construction in Village Level**

Actively organize village committee composed of village self-governance, village committee, and enterprise in the village among the villages in Zhayiwa County. Have mutual assistance not only in production, but also being the bridge and link between government, industry and Jujude farmers. Reinforce the understanding of farmers and herders on protection and promote the enthusiasm of participation as well, make it become the platform for farmers and herders to get involved in



decision-making.