Study on the Problems and Countermeasures of the Construction of Livable Rural Areas in Shenyang City

Jian MA¹,a and Si-Qi NIU²,b,*

¹,²Shenyang Jianzhu University, Shenyang City, Liaoning, China
*a296465378@qq.com, b343179052@qq.com
*Corresponding author

Keywords: Livable Village, Ecological Environment, Countermeasure.

Abstract. The construction of livable rural areas is of vital importance both in terms of national policy and in rural construction. However, a series of problems have emerged in the process of policy implementation and implementation, which has caused certain obstacles to the smooth development of livable rural construction. The article expounds the significance of livable rural construction, analyzes the main tasks of livable rural construction in the new era, analyzes the problems existing in the construction of livable rural areas in Shenyang, and finally increases the infrastructure, enhances the level of garbage disposal, and strengthens the rural areas. Suggestions for public facilities construction, improvement of public facilities, strengthening of agricultural skills training, pollution-free treatment of livestock and poultry manure, and strengthening of biogas tank construction were put forward.

Introduction

The report of the 19th National Congress of the Communist Party of China clearly pointed out that it is necessary to strengthen the construction of livable villages and put forward the "Village Revitalization Strategy". The proposal of this strategy indicates that China's "three rural" issues have reached a new height of awareness. A livable village, that is, a new countryside with ecological, green and environmental protection, is an upgraded version of the countryside where the people live and work in peace. The most fundamental purpose of livable rural construction is to improve the quality of life of ordinary people and improve the living standards of ordinary people. It is an important deployment of the country to the coordinated development of local urban and rural integration.

The Significance of Livable Rural Construction

Livable Rural Construction is a Necessary Task to Improve the Ecological Environment

With the continuous development of the economy, the living standards of farmers have been continuously improved, and the concept of consumption has gradually changed. What followed was the increase in domestic waste and the gradual increase in environmental pollution. Among them, the more significant problem is that a large amount of garbage discharge is out of control, and garbage collection equipment is lacking, causing garbage to be scattered and seriously affecting the air and environmental quality of the countryside. Therefore, while the economy is developing rapidly, maintaining a beautiful environment and improving the ecological environment has become a necessary task for the construction of livable villages.

Livable Rural Construction is an Effective Means to Promote Urban and Rural Development

In order to promote the rapid development of the city, local governments have invested heavily in urban construction in terms of manpower, material resources and financial resources, and invested less in the construction of rural areas, especially medical facilities, infrastructure construction, institutional system construction, public health, etc. The aspect is even weaker. The purpose of
livable rural construction is to narrow the gap between urban and rural areas, optimize the rural structure, coordinate the development of urban and rural development, scientifically develop urban and rural development, and promote the smooth development of rural areas through the model of urban and rural areas. Therefore, livable rural construction is an effective means and means to promote coordinated development of results.

The Construction of Livable Rural Areas is an Important Measure to Promote Economy and Benefit the People's Livelihood

Under the complicated economic situation at home and abroad, the construction of livable rural areas has become an important means for the steady growth of urban economy and an effective means of conducing people's livelihood. In the process of livable rural construction, it can effectively strengthen rural infrastructure construction, transportation facilities construction, ecological environment construction, etc., and comprehensively promote the coordinated development of urban and rural integration. Therefore, livable rural construction plays an important role in promoting urban economic growth, structural optimization, and preferential livelihood.

The Basic Tasks of the Construction of Livable Countryside in Shenyang

Improve the Rural Garbage Control System

According to relevant statistics, the annual collection and reasonable disposal rate of domestic garbage in Shenyang is less than 20%, which is at a relatively low level. Moreover, the amount of pesticides used is increasing every year, and the concentration is about 2.5kg per hectare, far exceeding the standard value of pesticide use in the national ecological zone. In the case of crop straw burning, only about 30% of the straw can be effectively treated, and the rest are incinerated, causing serious air pollution. At the same time, the straw burning process also caused damage to the soil structure, greatly reducing the soil fertility and reducing the production quality of the farmland.

Strengthening Rural Sewage Treatment

The sewage treatment system in Shenyang City is in a state of scarcity, and the existing facilities are insufficient to meet the actual needs of sewage treatment. The sewage treatment rate is less than 25%. Moreover, the existing sewage treatment facilities are in an unstable state during operation, and many of the equipments are in an intermittent state during operation and even malfunction. In order to better solve the problem of rural sewage treatment, Shenyang City has established a number of sewage treatment stations, increased sewage treatment equipment, and sewage treatment has been significantly improved. However, in the face of the actual demand for total sewage, it is necessary to further strengthen the addition of sewage treatment facilities.

Strengthening the Treatment of Feces in Rural Animal Husbandry

At present, some of the main economic sources in rural areas come from livestock farming. The direct problem brought by animal husbandry is that a large amount of livestock manure will be produced. Improper handling will result in environmental pollution and waste of resources. Shenyang City has set up some public waste treatment centers, and added a fecal fermentation tank, which effectively relieved the processing pressure of rural manure. Rural greening construction, road hardening treatment, agricultural toilet renovation, and trench repair have already invested a certain amount of manpower and material resources, and achieved remarkable results.

Strengthening the Construction of Livable Rural Construction System

In order to effectively implement the central government policy, Shenyang City has introduced four policy systems for livable rural construction and more than 500 village regulations, which effectively promoted the implementation of environmental governance and supporting construction. At the same time, Shenyang City has also formulated a rural construction plan and three rural construction implementation plans, which initially formed the institutional system for the construction of livable rural areas in Shenyang. At the same time, Shenyang City has also invested
financial and material resources in public infrastructure construction, effectively promoting the process of urban and rural public infrastructure construction.

The Problems in the Construction of Livable Rural Areas in Shenyang

Rural Waste Disposal Needs to be Further Strengthened

As the economy continues to grow, the living standards of farmers continue to rise, and the total amount of household waste continues to rise. However, the total amount of garbage disposal equipment that is matched with it cannot meet the actual demand. Domestic garbage that cannot be rapidly degraded, such as plastic bags, lunch boxes, and used batteries, will become serious after a long period of accumulation without being quickly and effectively treated. The pollutants have seriously damaged the ecological environment of the countryside. In addition, there is no standardized garbage disposal management, and the improper placement of garbage collection equipment has led to the dumping of garbage in some areas, which further highlights the serious pollution of rural garbage.

Rural Sewage Treatment Efficiency is Low

The sewage treatment work and resource optimization project in Shenyang started late, and the technical level and management level of sewage treatment were relatively low. As a result, many rural areas did not establish sewage treatment stations at all, and even more resources could not be reused. The lack of sewage treatment facilities is a common problem, and the number of sewage treatment plants is relatively small. The stagnation and improper treatment of sewage directly causes the pollution of rural water sources and indirectly threatens the health of farmers.

Lack of Rural Public Infrastructure Construction

Rural public infrastructure construction has a relatively simple source of funding, mainly from government grants, but the amount of funding is far from the total cost of rural payments. In some rural areas, the public infrastructure construction funds were used for other purposes without authorization, resulting in a shortage of public infrastructure construction. The more typical ones are libraries and baths, which are rare in rural areas. Even in places that are more remote, they are not conducive to the use of farmers, and they are more urgent to bring convenience to the daily life of farmers.

Rural Environmental Damage Has Not been Effectively Stopped

Animal husbandry farming and improper treatment of domestic waste have caused varying degrees of damage to the rural ecological environment. Under this circumstance, there is no system management and lack of supporting facilities, resulting in increasing environmental damage. Obvious manifestations include garbage in rivers and lakes, garbage on both sides of the street, pollution from pesticide irrigation, etc., causing direct damage to water sources and soil, and indirectly affecting the health of farmers.

Rural Management System is not Perfect

The most important and most important part of livable rural construction is the management system, which provides institutional support for rural construction, so that it can be justified and ruled. However, as far as the current rural management system is concerned, it is in a state of scarcity and the relevant management system is not sound enough. Leaders in some regions pursued economic achievements, and in the absence of a management system, they ignored the concept of healthy rural development and green development, which ultimately led to serious damage to the rural environment.
Suggestions on the Countermeasures for the Construction of Livable Rural Areas in Shenyang

Reasonably Plan the Garbage Disposal Station and Add Waste Treatment Facilities

In the case of more and more rural household waste, based on limited financial support, the rural areas should do a good job in setting up garbage sites, and set up garbage sites in accordance with villages and streets, and properly arrange garbage disposal facilities. With the expansion of financial allocations and sources of funds, there are steps and plans to increase the number of garbage disposal sites and garbage disposal facilities, so that scientific and reasonable, and ultimately achieve the purpose of timely and effective recycling and disposal of garbage.

Improve the Technical Level of Rural Sewage Treatment and Improve the Effective Treatment Rate of Sewage

The discharge of sewage and waste water in rural areas is increasing, but without the support of scientific and advanced technology, it is difficult to effectively treat sewage. In order to make the treated sewage reach the relevant national standards, continue to improve the skill level of rural sewage treatment, and improve the technical content of sewage treatment, thereby greatly improving the effective treatment rate of sewage.

Strengthening the Construction of Rural Public Facilities and Improving the Living Standards of Farmers

The peasants' living standards are constantly improving and their living needs are increasing. With the coming, it is necessary to provide public infrastructure for the rural areas to protect the peasants' living and entertainment needs, so as to improve the peasants' living standards. Especially in the medical support, library establishment, etc., to ensure that each village is equipped with a health room to facilitate farmers to treat some common diseases. The library provides farmers with access to some literature and timely access to knowledge resources.

Develop Scientific Skills Training to Improve Farmers' Production Levels

There is still a significant problem in the rural areas, that is, the level of production skills is low, farmers generally do not receive training in production skills, and production skills knowledge is relatively scarce. For example, there is no clear and scientific quantitative ratio for crop fertilization and irrigation. In this regard, the government should increase funding and intellectual input to train farmers in scientific training.

Increase the Construction of Livestock and Poultry Facilities to Help the Effective Use of Manure

The rural aquaculture industry is relatively developed, followed by a large amount of livestock and poultry manure. Based on this situation, rural areas should strengthen the construction of septic tanks, fermentation tanks and other facilities to promote the effective treatment and recycling of livestock and poultry. At the same time, for large-scale farms, scientific management and effective restraint are required, and the farms are required to be equipped with manure treatment facilities, and they are regularly inspected to ensure the effective treatment of livestock and poultry manure.

Conclusion

This paper analyzes in detail the problems existing in the construction of liveable rural areas in Shenyang city, mainly including improper disposal of rural waste, inefficient sewage treatment, lack of public facilities and serious environmental damage. Through the actual investigation, the author puts forward some countermeasures and suggestions from the aspects of reasonable planning and construction of garbage station, upgrading of sewage treatment level, strengthening of public facilities construction and reasonable beautification of environment. This paper tries to promote the construction of liveable rural areas in Shenyang City through research.
Acknowledgement
This research was financially supported by the 2018 Shenyang Philosophy and Social Science Planning Project, "Research on the Path Selection for Construction of Liveable Rural Area in Shenyang in the New Age“(18068Q)

References