

The Effects of Rural Tourism on Sustainable Livelihoods (Case Study: Lavij Rural, Iran)

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Abstract

Using a quantitative methodology and questionnaire, this study sought to evaluate the impacts of tourism on sustainable livelihoods of local people of Lavij rural in Iran. Data collected from 230 local residents of the study area were analyzed using Pearson's correlation and linear regression. The results show that rural tourism has been able to play an effective role in sustainable livelihoods of people and there is a significant relationship between the development of rural tourism and sustainable livelihoods in Lavij. Rural tourism can predict a high percentage of changes in people's livelihoods sustainability. Therefore, with a proper planning, rural tourism can be used to development of sustainable livelihoods, quality of people's lives, job opportunities and poverty reduction.

Keywords: rural tourism, sustainable livelihood, Iran, lavij

1. Introduction

Agriculture could not be considered as the main source of income for rural livelihood anymore (Forstner, 2004). Agricultural income in rural areas are declining in all around the world even in the developed countries such as the United States of America (Fleischer & Pizam, 1997). This idea has been approved in developing countries that people who live in rural areas should adopt different strategies to make money. Among the various options, tourism is considered as an important tool for economic diversification (Binns & Nel, 2002; Rid, Ezeuduji, & Pröbstl-Haider, 2014; Jennifer Briedenhann & Wickens, 2004; Derno, 1991). In this regard, rural tourism can be a direct way to engage indigenous people, a sales channel for their traditional products and crafts (Rid et al., 2014) and create jobs for all members of the family (Bhandari, 2013).

The definition of rural tourism is emphasized that local people should be benefited, entrepreneurship is small-scaled and managed by the local community (Park & Yoon, 2009; Reichel, Lowengart, & Milman, 2000). In many parts around the world, development of tourism includes family-oriented SME (Note 1) s (Getz & Carlsen, 2000, Fleischer & Pizam, 1997, Mendonsa, 1983). Therefore, economic and social development should significantly improve the local people's livelihood (Friedman, 1992). Local hosts have a major impact on the rural tourism success because they can attract a large number of tourists. Consequently, money is coming into the village and it contributes economic development and increase people's incomes (Fotiadis et al., 2016, Bosworth & Atterton, 2012).

Rural tourism is dependent on natural geography and ethnic features of a village (Guzman-parra, Quintana-garcía, Benavides-velasco, & Vila-oblitás, 2015). In the whole world, developing countries enjoy rich resources based on their pristine natural landscape and cultural treasures. These are their competitive advantages to attract tourists to provide a new experience (Wahab, 1974, p. 15). Middle East is one of these areas where the most countries there have a rich culture and ancient history. However, development of rural tourism has been ignored in this region but Israel (Ghaderi & Henderson, 2012, Fleischer & Pizam, 1997). Iran is one of those countries that enjoy plenty of resources for promoting rural tourism (Kheiri, Zeinabad, & Tabatabaie, 2016).

Iran's villages have a lot of beauties to offer visitors such as Indigenous houses, local cuisine, folk costumes, beautiful pristine landscape, lush nature and rich culture are the physical attractiveness and rural culture. But these potentials had not been used properly, and little research has been done on rural tourism and its effect on local's livelihood in Iran (Ghaderi & Henderson, 2012). The aim of this research is to fill this gap by the

studying of rural tourism and its impact on the sustainability of the indigenous people's livelihoods in Lavij rural in Mazandaran Province, Iran.

2. Literature review

Rural tourism is a type of tourism, which takes place within the village (Ghaderi & Henderson, 2012). This definition has been provided by the European Community as well (Farmaki, 2012). This type of tourism by diversifying the economic structure of rural people, makes locals less vulnerable to sudden changes in the agricultural market (Fotiadis et al., 2016). For a long time, tourism has been a tool for rural economic and social development (Maloletko et al., 2015), in particular, for those who suffer from declines in agricultural activities (Iorio & Corsale, 2010). It is also being seen as an alternative for mass tourism (Guerrero, Valdez Pérez, & Ibarra, 2013; Ghaderi, 2004; Sharpley, 2000). Wilson (2001) argued that development of rural tourism is easier in comparison to other development strategies and it has lower costs as well (Jaafar, Bakri, & Rasoolimanesh, 2015). Encouraging rural tourism is a policy which is used not only in developed countries but in developing countries (Iorio & Corsale, 2010). In the 1990s, when various events of last decade led to high unemployment in rural areas of Eastern Europe (Abinama & Jafari, 2015), tourism was recognized as an activity that could accelerate economic growth, adapting to underdeveloped regions and improve the living standards of local communities (Jenny Briedenhann & Wickens, 2004). In less-developed countries of Africa, where are faced with poverty in rural areas (Bidoki & Kargar, 2016), tourism is one of the few options for rural development (Evans & Ilbery, 1989; Getz, 1983; Marsden, 1992).

Rural tourism as a means of sustainable rural development is widely accepted throughout the world (Kim & Jamal, 2015). Sustainable Development Approach, is the link between economic, environmental and social issues in rural tourism (Garrod, Wornell, & Youell, 2006). Mbaiwa & Kolawole (2013) claim that local people are the centrality of sustainable livelihoods.

Jennifer Briedenhann & Wickens (2004) argue that it is very important to mention that if a country wants to make a profit as much as possible in rural tourism and make it less harmful, it must have coordination with the socio-cultural lifestyle of indigenous people. However, it should be evaluated for each region whether tourism has profit or even loss (Binns & Nel, 2002). What is expected from tourism is to play a major role in the revitalization of rural areas and bringing high profits to the local community (Iorio & Corsale, 2010; Silva & Leal, 2015). Tangible benefits for livelihood help local community to choose a tourism program (Ashley, 2000).

Table 1 shows some of the past researches on rural tourism and local people livelihoods.

Table 1. Rural tourism in the literature

Author/s/Year	Research topic	Results
Turnock (1990)	Tourism in Romania: Rural planning in the Carpathians	Showed opportunities for women in rural areas
Place (1991)	Nature tourism and rural development in Tortuguero	Few of the villagers were aware of the economic value of the park based tourism, no systematic attempt to promote tourism in rural areas
Luloff et al. (1994)	Assessing rural tourism efforts in the United States	Identified characteristics of the US 50 States
Oppermann (1996)	Rural tourism in Southern Germany	Several aspects of rural tourism have been discussed, the main market segment is families with children
Reichel, Lowengart, & Milman (2000)	Rural tourism in Israel: Service quality and orientation	Management and marketing implications for service quality improvements are discussed along with the acute need for appropriate training
Canoves et al. (2004)	Rural tourism in Spain: An analysis of recent evolution	Identified differences in the pattern of evolution, women part is important
León (2007)	The impact of tourism on rural livelihoods in the Dominican Republic's coastal areas	Personal and community characteristics, such as knowledge of a second language, young age, and predominance of domestic and day-trip tourism are the most important factors in determining tourism-related employment

Möller (2012)	Gendered entrepreneurship in rural Latvia: Exploring femininities, work, and livelihood within rural tourism	Women's entrepreneurship within rural tourism in Cesis district have been evaluated
Zhou (2014)	Online rural destination images: Tourism and rurality	Evaluated online image of a rural tourism in china, found three themes: resources, rewards and expectations
Li, Ryan, & Cave (2016)	Chinese rural tourism development: Transition in the case of Qiyunshan, Anhui. -2008-2015	Chinese rural tourism policies have been described in Daoist village

More than 21 million people in Iran (about 26 percent of Iran's 79 million population) live in rural areas in 2016 (Iran's Statistics Centre, 2016). Migration from rural to urban areas has been one of the major social problems in Iran in recent years. Iran's urban population grew from 34 percent in 1956 (*Analysis of urbanization and internal migration situation in the Islamic Republic of Iran*, 2012) to 74 percent in 2016 (Iran's Statistics Centre, 2016). Between 2007 and 2012, more than four million and three hundred thousand people immigrated from Iran's villages into urban areas, i.e. 77% of all immigrants (*Iran's domestic migration*, 2011). It caused declining in agricultural products as well. Between 2003 and 2014, the area of agricultural land in Iran declined 6 percent (*Detailed results of the general census of agriculture*, 2013). Lack of a sustainable income has been the main reason for this situation. Economic factors such as unemployment, poverty and low income were the focal reasons for 55% of migration from rural to urban areas in Iran (Ghasemi Ardahani, 2006). The process of migration from the countryside into the city is very critical and measures should be taken to more people stay in rural areas. In traditional business practices in rural areas, all family members were helping and involved. It is necessary to the replacement option to be such a case. In this regard, tourism is the best choice in these areas (McCareavey & McDonagh, 2011; Park et al., 2012).

But there are some gaps and little known about implementing the policies about promoting sustainable livelihood, especially in small scales (Addinsall et al, 2015; Christensen & Mertz, 2010). Despite widespread acceptance in the family-based businesses in rural tourism, there has been little research about it (Getz & Carlsen, 2000). Studies of farm exit or livelihood transition are almost entirely absent in poor rural agrarian contexts of developing countries (Bhandari, 2013). The same gap can be seen in studies about Iran's rural tourism (Ghaderi & Henderson, 2012). The aim of this study is to investigate the sustainability of livelihoods and rural tourism in Iran and provide solutions for its development.

3. Tourism in Iran

Iran is a large country in the Middle East with nearly 80 million population and 1.65 million square meters. Nineteen cultural monuments of Iran are in the list of UNESCO (UNESCO, 2016) while its history dates back to 7000 years ago. The main organization which is responsible for management of tourism in Iran is Cultural Heritage, Handcrafts and Tourism Organization (ICHTO). The nation has a diverse climate where can be swam in southern coast and can be skied in the highlands of north and west at the same time. The pristine forested area of northern Iran is one of the most fantastic natural areas in all around the world. Iran has a variety of ethnics, languages and traditions.

Despite all these sources, Iran hosted only 4.8 million tourists in 2014 while more than 3.5 million of them came from neighboring Iraq, Turkey, Azerbaijan and Afghanistan (Euromonitor, 2015). Additionally, a large number of them were the Iranians who live in foreign countries and came back to Iran during the year to meet their families and friends. Iran's tourism revenue from international tourists was only \$ 1.3 billion in 2013 (*Tourism highlight*, 2015) and its contribution to GDP was less than 2.5 percent in 2014 (*Travel & tourism economic impact: Iran*, 2015).

Improper position of Iran's in international tourism has many reasons, such as the 8-year Iran-Iraq war from 1980 to 1989, unfavorable destination image, International sanctions and ongoing tensions with Western powers (Ghaderi & Henderson, 2012).

3.1 The Case of Lavij Rural

One of the most beautiful villages in Iran is Lavij. Lavij Rural District (Persian: دهستان لاریج) is located in Chamestan District, Nur County, Mazandaran Province. This rural includes 16 villages, 12 inhabited and three uninhabited. Its population is around 3500 (Moosa Dokht, 2013). The village has a total area of 95 square

kilometers which 80 percent of this area covered by forest.



Figure 1. A view of Lavij rural



Figure 2. Lavij mountain road

Lavij is surrounded by Alborz Mountain. This area is always lush, beautiful and providing extraordinary landscape.

The main occupation of the village residents is agriculture, handicrafts and animal husbandry. Among Lavij's physical and cultural attractions rivers, waterfalls, hot and cold springs, forest areas and chalets, castles, shrines and Tir-Mah Sizdah Shab can be noted.



Figure 3. Lavij hot spring building

As it can be noticed this village has a major potential for rural tourism, but it has been neglected. That's why many residents have been migrated to cities in recent years and some of Lavij's villages have been nonresidential. Based on previous studies and the case study of this research the following hypotheses are proposed:

H1: Rural tourism development is effective on sustainable livelihoods in rural areas of Lavij.

H2: There is a significant relationship between the development of rural tourism and sustainable livelihoods assets in Lavij rural.

H3: There is a significant relationship between rural tourism development and vulnerability of sustainable livelihoods in Lavij rural.

H4: There is a significant relationship between rural tourism development and rural economic structures of sustainable livelihoods in Lavij.

4. Methodology

The research method in this study is quantitative. Required information have been collected using two methods of library and field studies. In the library method, researchers has been tried to understand measures and concepts of rural tourism and sustainable livelihoods by studying fundamental research related to the topic. In the next step, these measures have been given to the experts to be validated. In the field study section, a questionnaire was used based on 5-point Likert type scale with "strongly disagree" at the lowest end and "strongly agree" at the highest end to assess the status of rural tourism and sustainability of livelihoods in the study area.

Lavij rural district has 16 villages where four villages are haunted and a total number of 3,500 people are living in the 12 villages (Moosa Dokht, 2013). 230 residents of these villages were selected by random sampling as the study's population. Of this number, 207 were male and 23 were female.

For data collection, a questionnaire was designed containing 59 questions. Nine questions were about the development of rural tourism (independent variable), and 50 questions were about the sustainable rural livelihoods in three sections which include assets, vulnerability and organizational structure (dependent variables).

Validity of the research was confirmed by experts who were familiar with the research subject. Cronbach's alpha was also used to measure the reliability of the research. The number of alpha for the development of rural tourism variables was (0.706) and for sustainable livelihoods variable was (0.863) which are acceptable. Every single aspect and any of the questions showed also appropriate alpha, indicating good internal consistency reliability of the questionnaire.

In this study, SPSS 22 software was used to analysis the data. For determining the normal distribution of data Kolmogorov-Smirnov test was used. Pearson correlation test, Spearman's regression analysis and path analysis

also were used for measuring variables of the research.

5. Results and discussions

According to the study findings, the majority of the villages' residents are men, and that has been detected in the information extracted from the questionnaire as well. Ninety percent of respondents were male and 10 percent were women (Table 2). Over 60% of them were between 31 and 50 years old and less than 4 percent were over 60 years old. Nearly half of the rural population have a monthly income between 800 thousand to 1 million Tomans (Note 2) which is low-income and very close to the poverty line which is 745,000 Tomans (Iran's statistic center, 2015). Approximately 60 percent of rural residents lack a college education and 40 percent had a bachelor's or master's degree.

Table 2. Demographic profile of respondents

Variables		frequency	percent
Gender	Male	207	90
	female	23	10
Age	20-30	43	18.7
	31-40	84	36.5
	41-50	60	26.1
	51-60	34	14.8
	More than 61	9	3.6
Education	High school	84	36.5
	Collage	55	23.9
	Bachelor	74	32.2
	Masters and higher	17	7.4
Income	800,000-1,000,000 T	104	45.2
	1,000,000-1,200,000 T	51	22.2
	1,200,000-1,500,000 T	38	16.5
	1,500,000-1,700,000 T	14	6.1
	1,700,000-2,000,000 T	20	8.7
	More than 2,000,000 T	3	1.3
Occupation	Farmer	26	11.3
	Ranchman	17	7.4
	Teacher	141	61.3
	employee	13	5.7
	Others	33	14.3
overall		230	100

For testing the normality of the data Kolmogorov–Smirnov test has been used. The results showed the data are normal (Table 3). So, parametric tests were used to analyze the data. Pearson correlation test was used to test the hypotheses and linear regression analysis was used to investigate the relationship between the dependent and independent variables.

Table 3. The value and significant test for variables of rural tourism development and sustainable livelihoods

		Rural Tourism	Sustainable livelihood	Economic Structures	Assets	Vulnerability
Total Number		230	230	230	230	230
Normal parameters	Average	3.3816	30.8961	10.9304	15.3933	4.5723
	standard deviation	0.42080	4.64455	1.88877	2.52329	0.83005
Most differences	Invariable	0.097	0.093	0.089	0.096	0.104
	Positive	0.097	0.093	0.089	0.096	0.104
	Negative	-0.091	-0.092	-0.084	-0.062	-0.071
Test value (t-value)		0.097	0.093	0.089	0.096	0.104

Significance level	0.076	0.193	0.119	0.591	0.219
Results	normal distribution	normal distribution	normal distribution	normal distribution	normal distribution

H1: Rural tourism development is effective on sustainable livelihoods in rural areas of Lavij.

Pearson correlation test scores for two variables “rural tourism development” and “sustainable livelihoods” was 0.813 with a significant level of 0.000. This means that there is a significant relationship between the two variables and so the third hypothesis is confirmed. The relationship between the two variables is shown in Table 4.

Table 4. Regression model of rural tourism development impact on sustainable livelihoods

Input and Output variables	Method	Output variable	Input variable		Model		
	Simultaneous	0	Rural tourism development		1		
a. The dependent variable: sustainable livelihoods of Lavij rural b. All input variables have been entered by Enter Method.							
Model suitability	Multiple correlation coefficient	Coefficient of determination	Corrected coefficient of determination		Standard error of the estimate		
	0.813	0.661	0.657		4.38959		
a. The dependent variable: Sustainable livelihood assets of Lavij b. All input variables have been entered by Enter Method.							
Bivariate regression analysis	Source of variation	Sum of squares	Df	Average of squares	F-Quantity	Significant effects	
	The effect of regression	546.722	1	546.722 19.269	28.374	b 0.000	
	The remainder	4393.221	228				
	Total	4939.942	229				
Independent variable regression model	variable	Non-standard coefficient		Non-standard coefficient		T	Sign
		B	Std.Error	Beta			
	Fixed amount	18.479	2.349	0.813		7.867	0.000
Rural tourism development	3.672	0.689	5.327			0.000	

The regression equation:

$$\text{Sustainable livelihoods of Lavij} = (\text{rural tourism development} \times 1.598) + (9.990)$$

Standard linear equation:

$$\text{Sustainable livelihoods of Lavij} = (\text{rural tourism development} \times 0.748)$$

According to the results, the independent variable (rural tourism development) can predict 66.1 per cent of sustainable livelihoods in Lavij. There is a direct linear relationship between independent and dependent variables. Also, rural tourism development variable with the 0.813 beta in the regression model, it's effective for the explanation of sustainable livelihoods in Lavij.

H2: There is a significant relationship between the development of rural tourism and sustainable livelihoods assets in Lavij rural.

Pearson correlation test scores for two variables “rural tourism development” and “sustainable livelihoods assets” were 0.748 with a significant level of 0.000. This means that there is a significant relationship between the two variables and so the first hypothesis is confirmed. The test results related to the development of rural tourism relations between the different variables and sustainable livelihoods assets in Lavij's villages is shown in table 5 which generated the linear combination of independent variables and shows a maximum correlation with the dependent variable.

Table 5. Regression model of rural tourism development impact on sustainable livelihoods assets

Input and Output variables	Method	Output variable	Input variable		Model		
	Simultaneous	0	Rural tourism development		1		
	a. The dependent variable: Sustainable livelihood assets of Lavij rural b. All input variables have been entered by Enter Method.						
Model suitability	Multiple correlation coefficient	Coefficient of determination	Corrected coefficient of determination		Standard error of the estimate		
	0.748	0.560	0.547		2.43739		
	a. The dependent variable: Sustainable livelihood assets of Lavij b. All input variables have been entered by Enter Method.						
Bivariate regression analysis	Source of variation	Sum of squares	Df	Average of squares	F-Quantity	Significant effects	
	The effect of regression	103.518	1	103.518 5.941	17.425	0.000	
	The remainder	1354.521	228				
	Total	1458.039	229				
Independent variable regression model	variable	Non-standard coefficient		Non-standard coefficient		T	Sign
		B	Std.Error	Beta			
	Fixed amount	9.990	1.304	0.748		7.659	0.000
	Rural tourism development	1.598	0.383			4.174	0.000

The regression equation:

$$\text{Sustainable livelihood assets of Lavij} = (\text{rural tourism development} \times 1.598) + (9.990)$$

Standard linear equation:

$$\text{Sustainable livelihood assets of rural villages Lavij} = (\text{rural tourism development} \times 0.748)$$

This linear combination can be used to predict the amount of sustainable livelihoods assets variable and the importance of rural tourism development variable on the sustainable livelihood assets variable in rural areas of Lavij. As the first entry, the development of rural tourism as an independent variable to predict the changes of dependent variable (sustainable livelihoods assets) were imported to the regression model at the same time. Based on the result, the independent variable has been able to predict 56% of the variability of sustainable livelihoods in rural areas of Lavij. The results show that the regression model is significant and fit. Being significance means between independent (rural tourism development) and dependent variables (sustainable livelihoods assets) is certainly a direct linear relationship. Also, rural tourism development variable with the beta 0.748 in the regression model, is effective in explanation of sustainable livelihoods assets in Lavij rural.

H3: There is a significant relationship between rural tourism development and vulnerability of sustainable livelihoods in Lavij rural.

Pearson correlation test scores for two variables “rural tourism development” and “vulnerability of sustainable livelihoods” were 0.894 with a significant level of 0.000. This means that there is a significant relationship between the two variables and so the second hypothesis is confirmed. Based on the results of the second hypothesis, the relationship between the rural tourism development and sustainable livelihoods vulnerability variables in Lavij rural shown in Table 6.

Table 6. Regression model of rural tourism development impact on vulnerability of sustainable livelihoods

Input and Output variables	Method	Output variable	Input variable	Model		
	Simultaneous	0	Rural tourism development	1		
a. The dependent variable: vulnerability of sustainable livelihoods in Lavij b. All input variables have been entered by Enter Method.						
Model suitability	Multiple correlation coefficient	Coefficient of determination	Corrected coefficient of determination	Standard error of the estimate		
	0.894	0.799	0.784	0.79513		
a. The dependent variable: vulnerability of sustainable livelihoods in Lavij b. All input variables have been entered by Enter Method.						
Bivariate regression analysis	Source of variation	Sum of squares	Df	Average of squares	F-Quantity	Significant effects
	The effect of regression	13.628	1	13.628	21.556	^b 0.000
	The remainder	144.149	228	0.632		
	Total	157.777	229			
Independent variable regression model	variable	Non-standard coefficient		Non-standard coefficient	T	Sign
		B	Std.Error	Beta		
	Fixed amount	2.612	0.425	0.894	6.138	0.000
Rural tourism development	0.580	0.125	4.643		0.000	

The regression equation:

$$\text{vulnerability of sustainable livelihoods in Lavij} = (\text{rural tourism development} \times 1.598) + (9.990)$$

Standard linear equation:

$$\text{vulnerability of sustainable livelihoods in Lavij} = (\text{rural tourism development} \times 0.748)$$

According to the results of the model, the independent variable (rural tourism development) can predict 79.9 per cent of the vulnerability of rural sustainable livelihoods in Lavij. There is a direct linear relationship between the independent variable (rural tourism development) and the dependent variable (the vulnerability of rural sustainable livelihoods). Also, rural tourism development variable with the 0.894 beta in the regression model, it's effective for the explanation of the vulnerability of rural sustainable livelihoods in Lavij.

H4: There is a significant relationship between rural tourism development and rural economic structures of sustainable livelihoods in Lavij.

Pearson correlation test score for two variables "rural tourism development" and "rural economic structures of sustainable livelihoods" was 0.733 with a significant level of 0.000. This means that there is a significant relationship between the two variables and so the third hypothesis is confirmed. The relationship between the two variables is shown in Table 7.

Table 7. Regression model of rural tourism development impact on rural economic structures of sustainable livelihoods in Lavij

Input and Output variables	Method	Output variable	Input variable	Model
	Simultaneous	0	Rural tourism development	1
a. The dependent variable: Rural economic structures of sustainable livelihoods in Lavij b. All input variables have been entered by Enter Method.				
Model suitability	Multiple correlation coefficient	Coefficient of determination	Corrected coefficient of determination	Standard error of the estimate
	0.733	0.537	0.531	1.78491
a. The dependent variable: Rural economic structures of sustainable livelihoods in Lavij				

b. All input variables have been entered by Enter Method.						
Bivariate regression analysis	Source of variation	Sum of squares	Df	Average of squares	F-Quantity	Significant effects
	The effect of regression	90.556	1	90.556 3.186	28.424	b 0.000
	The remainder	726.378	228			
	Total	816.943	229			
Independent variable regression model	variable	Non-standard coefficient		Non-standard coefficient	T	Sign
		B	Std.Error			
	Fixed amount	5.887	0.955	0.733	6.153	0.000
	Rural tourism development	1.494	0.280		5.331	0.000

The regression equation:

Rural economic structures of sustainable livelihoods in Lavij = (rural tourism development × 1.598) + (9.990)

Standard linear equation:

Rural economic structures of sustainable livelihoods in Lavij= (rural tourism development × 0.748)

According to the results, the independent variable (rural tourism development) can predict 53.7 per cent of the rural economic structures of sustainable livelihoods in Lavij. There is a direct linear relationship between the independent and dependent variables. Also, rural tourism development variable with the 0.733 beta in the regression model, it's effective for the explanation of the vulnerability of rural economic structures of sustainable livelihoods in Lavij.

6. Discussion

The main purpose of this study was to evaluate the effect of rural tourism development on the Lavij's people's life and livelihood. According to the obtained results, rural tourism has a great impact on sustainable livelihood of indigenous people. For many years, rural tourism was implicated as a strategy towards development for rural areas (Heikkilä, Poladova, & Kääriä, 2014). From fishing in Norway to farming in West America, all are baits to attract tourists to rural areas (Macdonald & Jolliffe, 2003). Development of Rural tourism by diversification of the local economy will boost the quality of life for that region and improve infrastructures like transportation system (Fleischer & Felsenstein, 2000). Thus there is a need for a systematic and long-term planning to develop rural tourism in Lavij. As well, it is essential for local people to get involved in the planning process. So the programs become compatible with the sustainable development process (Garrod, Wornell, & Youell, 2006).

The findings also demonstrated that the development of rural tourism has an impact on sustainable livelihood assets. For developing rural tourism, the main attractions must be maintained and kept in good condition (Jenny Briedenhann & Wickens, 2004; Barke & Wiley, 2004). Nature, customs and rituals of local people must stay unharmed from possible damages that tourism might bring to them. Also, old houses and places that could be considered as an attraction must be under protection.

This study also illustrate that there is a correlation between the rural tourism development and vulnerability of sustainable livelihood in Lavij. This means that tourism will reduce people vulnerability against economic fluctuations by creating job opportunities, rising incomes (Wilson et al., 2001; Park & Yoon, 2009).

Also by proving the final hypothesis of this study, it is clear that there is a correlation between rural tourism development and the economic structure of sustainable livelihood in Lavij. Rural tourism development presents new opportunities for growth to local people by improving the flow of money in the villages (Lane, 1994) and creates a new market for their handmade merchandises. Due to the seasonality of the tourism industry, it is necessary for people in charge to define the economic structures in a way that with the change on the number of tourists in different seasons, local people's income does not damage as much (Fleischer & Tchetchik, 2005).

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Note

Note 1. Small and medium-sized enterprises.

Note 2. Toman is the official currency of Iran. Each 1000 Tomans equal to 0.28 USD.

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