Socio-Economic Aspects of Sustainable Ecotourism Development: The Case of Kerala

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Abstract

The paper is an attempt to shed light on the socio-economic aspects of the local communities on the development of ecotourism in Kerala. Most of the local communities in the ecotourism destinations are tribes who have been excluded from the mainstream society and are not a part of Kerala's overall development setting. The paper also tries to situate the community perception on the sustainable livelihood of ecotourism sites of Kerala. Data for the study is obtained from a primary survey by dividing the ecotourism destinations in Kerala into three zones, 230 from south zone, 220 from central zone and 200 from north zone with a total sample size of 650 based on the notion of community based ecotourism initiatives of the state. The result of the study confirms that ecotourism has helped to enhance the livelihood of the marginalized community. With well-knit policies it is possible to tag ecotourism of Kerala as an important tourism destination in the global tourism map.

Key Words: Perception, Livelihood, Marginalized community, Community based Ecotourism, Sustainability

1. Introduction

Kerala, the southernmost State of India with 2.8 percent of the population is blessed with human development indicators at par with the developed countries. Literacy rate of almost 100 percent as well as high life expectancy and low infant mortality rates among Indian states make Kerala the most advanced state in terms of social sector development. Tourism has been given industry status by Kerala since 1986. Varied demographic traits and the resultant unique culture and traditions *inter alia* forest and wild life heritage tags make Kerala one of the popular ecotourism hotspots in the world with 56 potential ecotourism destinations (Govt. of Kerala, 2006). Most of the local communities in these destinations belong to tribes who have been excluded from the mainstream and are not a part of Kerala's overall development discourse of the state through the enlargement of ecotourism base in various parts of the state. The growth of ecotourism has been phenomenal during the last decade with an increase in tourist inflow and associated activities. Its emergence as one of the major source of income and livelihood for the local communities transformed them from exploiters of forest to conservators and protectors.

Community based ecotourism has always advocated the involvement of the local communities in the development initiatives as they are the most affected group during the conservation process. Most of the ecotourism sites in Kerala are in and around the forest area and are occupied by local tribal communities. These community members depend mostly on forest for their livelihoods. They also work as local tourist-guides, watchers and other employees at the tourist sites. As the forest resources are fast depleting the socio-economics of these communities to a greater extend depend on the earnings they get from the ecotourism destinations (Smith, 1989; Thampi, 2005; Rajasenan and Paul, 2012). The ecotourism policy of the government unequivocally focuses on the local community to safeguard their survival and sustenance and thereby the sustainability of the ecotourism destinations with the help of socio-economic impact assessment.

2. Materials and methods

The article is the result of an exploratory search into the socio-economic contour of the communities focusing on education, income and livelihood options as well as their perception about the ecotourism development in their area.

Data for the study is obtained from a primary survey by dividing the ecotourism destinations in Kerala into three zones. Eco Development Committees/Vana Samrakshana Samithi (EDC/VSS) constitutes the data source and the sampling framework was decided on the basis of active EDC/VSS in the area, based on their population proportion. 230 EDC/VSS from south zone (Thiruvananthapuram, Kollam, Pathanamthitta and Kottayam), 220 from central zone (Idukki, Ernakulam and Thrissur) and 200 from north zone (Palakkad and Wayanad), with a total of 650 samples involved in various fields of community based ecotourism in Kerala represent the respondents of the survey. Statistical tools like Chi-Square, Correspondence Analysis, Likert Scale Analysis, etc. have been employed for analytical purpose.

3. Results and Discussion

3.1 Educational Qualification of the Community Members

Education acts as a determining factor for the socio-economic and livelihood of the forest communities connected with the ecotourism activities. Their historical backwardness and dwelling in difficult terrains make it difficult to acquire basic education and thereby to interact with the multi-cultural and multi-linguistic tourists visiting the ecotourism destinations. It can be inferred from the analysis of the educational qualifications in Table 1 that majority (i.e. 62.20 percent) has a formal education of 10th class and below. Most of the locals had only basic school education. 21.40 percent are undergraduates whereas 10.20 percent respondents are graduates and 6.30 percent are with post-graduation and above. Majority of graduates and post graduates come from south and central zones--36.60 percent of the post graduates are from the south zone and 46.30 percent are from the central zone and 59.10 percent of the graduates are from south and 33.30 percent from the central zone. There is not much difference in percentages when we analyze the sample based on education level of the 10th and below and under graduation. Even though graduates form a meager part of the total sample, more than 80 percent of the respondents having these qualifications are from Table 2 (a) that there is significant difference in the formal education level between three zones.

Table 1 (about here)

As can be seen from the cross tab analysis, the zone-wise difference is in the proportion of graduates and postgraduates as there are lesser percentages of graduates and post graduates in the north zone compared to the other two zones. To confirm this, Chi-Square of the zone and educational qualification, by taking only the south and central zones, is performed, which shows no significant difference between these, as is shown in Table 2 (b).

Table 2 (about here)

3.2 Income, employment and saving pattern

3.2.1 Income and employment

Employment and income are also equally important to place the position of the community in the economy and society. Nearly ninety nine percent of the respondents work in tourism sector throughout the year as guides, naturalists, watchers, drivers, eco-shop workers, cooks, craftsmen etc. As can be seen from Table 3, 56.20 percent of respondents are earning full income from tourism related activities and 34.80 percent of community members earn an income between 75-99 percent from tourism and the remaining 9.10 percent earn less than 74 percent from tourism. Zone-wise analysis also shows similar pattern.

Table 3 (about here)

It can be inferred from Figure 1 that majority of the respondents (55.50 percent) come under the income group of Rs. 3001-4000, whereas 23.80 percent has an income range of Rs. 4001-5000, 13.20 percent has a monthly income between Rs. 2001-3000. And the others (3.10 percent and 4.30 percent) have an income of Rs. 1001-2000 and above Rs. 5000 per month, respectively. Most of the community members are earning more after they start working as EDC. This shows that their security in income earning and thereby their livelihood security has increased once they start earning from tourism related activities. Because of this, the communities are now acting as conservators of forest in comparison to their earlier role as poachers and destroyers of forest. Analysis based on three zones also gives similar results.

Figure 1 (about here)

3.2.2 Banking habits

This section analyses the banking habits of the community pertaining to bank account, savings, and indebtedness. Section (a) (5) of Table 4 shows that 51.40 percent of households have bank account. Education level is an important determinant in the financial habits of the individuals as it shows a positive relationship between education and banking habits. Section (a) of Table 4 clearly evinces this fact as, people having a formal education of 10^{th} and below (38.10 percent) hold a bank account and the rest (61.90 percent) do not have a bank account. As we move to the respondents with higher qualification, the percentage also moves in favour of holding a bank account as it is revealed that 92.40 percent of the graduate community holds a bank account. However, all the respondents having qualification and above hold a bank account.

The saving habits of the community are satisfactory as 62.90 percent of the respondents have saving habits in varying temporal dimensions; 80.4 percent saved on a monthly basis, 7.6 percent have weekly savings, 7 percent save on a daily basis and the rest (5.1 percent) have other patterns of savings (see Figure 4.5). Education-saving cross tabulation also gives similar relationship as in education and bank account habits. Section (b) of Table 4 shows that people with higher education qualification, - post graduation and above, has 100 percent saving habits and this gets reduced with the downward shift in education level.

Figure 2 (about here)

Table 4 (about here)

Table 5 (a) highlights whether the respondents save for revenue generating and non-revenue is generating purposes. Savings to earn interest or to do business/self employment can be termed as revenue generating and savings for consumption, marriage etc., which do not earn any direct or immediate financial returns are categorized into non-revenue generating ones. Table 4.9 shows that 46.70 percent of the respondents save for the purpose of education of children followed by marriage (20.30 percent), and consumption/purchasing (14.4 percent). Only one fifth of their saving (19.50 percent) is utilized for income generating purposes.

Table 5 (about here)

The nature of saving of the community members is given in Table 5 (b), which shows a diversified saving pattern useful for their survival and sustenance. In the case of indebtedness, we can see from section (c) of Table 4 that there exists an inverse relation between indebtedness and formal education; as the education level increases the tendency to borrow decreases. 83.90 percent of the 10^{th} and below category of respondents have indebtedness. But we see a decelerating tendency when we relate indebtedness with higher and higher education levels as evidenced in section (c) of Table 4. But the combined analysis of indebtedness of the community shows an alarming picture with 73.40 percent. When we analyse the source of debt, they are really in debt trap with the money lenders (31.60 percent) as given in Table 5 (c). We can infer from Table 5 (d) that the percentage level of indebtedness is biased in favour of day to day expenses, construction of house, marriage, education and treatment which are purely unproductive in nature.

If we bring together bank account holding tendency, savings and borrowings, we can see that most of the graduate and post graduate respondents have bank account and saving habits, they have lesser tendency to borrow compared to the rest of the group. Chi-Square analysis between education-holding of bank account, education-savings and education-indebtedness is given in Table 6. The results of the Chi-Square show that there is a significant difference between formal education level of the community members and their tendency to save, hold a bank account and to incur debt.

Table 6 (about here)

Table 7 (about here)

Chi-Square analysis based on zones of these three banking habits viz. savings, bank account holding tendency and indebtedness (Table 7) shows that there is no significant difference between zone and saving habits, while a difference exists between zone and bank account holding tendency, and zone and indebtedness.

3.3 Community Perception

3.3.1 Managing tourism in the area

The community members' perception on how they will manage tourism in their area, if given an opportunity based on ranking in a scale of 1 to 6 is shown in Figure 3. Majority of the respondents (57.60 percent) give first preference to the increase in the number of tourists currently visiting the ecotourism sites.

Figure 3 (about here)

3.3.2 Benefits from the forest

The response of the community members with regard to ranking the benefits from the forest is depicted in Figure 4. Tourism is given first rank by 60.90 percent of the respondents, followed by the procurement of wood products by the others. This shows that the majority of the community members are able to derive benefits from the forest without harming the environment.

Figure 4 (about here)

3.3.3 Future threats to the forest

Table 8 infers that 60.30 percent of the total respondents opine that the ecotourism destination pose threats. Regarding the type of threats from the forest, 67.30 percent feel that the main threat to the forest is in the form of fires, followed by the felling of trees (16 percent). Some of the community members (9 percent) hold the view that tourism activities which are not based on the carrying capacity of the sites will also act as a threat factor. Inter-zone analysis also confirms this as shown in Table 9.

Table 8 (about here) Table 9 (about here)

3.3.4 Obstacles to tourism development

Obstacles to tourism development in the ecotourism sites are evaluated on the basis of the community members' perception in relation to 10 statements based on the degree of impact. The result is shown in Table 10.

Table 10 (about here)

It can be seen that 68 percent of the total respondents opine that unstable earning from tourism is an obstacle to tourism development. They are not happy about the government funding on development projects (79.50 percent) followed by the problem of language barrier (53.40 percent). Regarding the conflicting aspirations of officials and locals, only 19.10 percent argue this as a reason for lack of tourism development.

The respondents' perception regarding the degree of impact of these obstacles is shown in Figure 5. Community members believe that lack of adequate spending from the government and unstable earnings from tourism could be major obstacles in the development of ecotourism in their area. Except conflicting aspirations, all the other obstacles pose very serious or serious threats to the tourism development.

Figure 5 (about here)

3.3.5 Benefits to the household/community from tourism development

Major benefits from tourism, as cited by the respondents, are the development of transportation/communication facilities, improvement in sanitation/waste disposal facilities, and the inclusion of basic amenities (education, welfare, health, etc., developing more community activities for tourists, initiate training/education for locals, increase community involvement/ownership and other benefits). The respondents' ranking is shown in Table 11 and it shows that the increase in transportation facilities in ecotourism site was given the top rank by majority of respondents.

Table 11 (about here)

4. Conclusions

Ecotourism has helped the economic development and livelihood of the marginalized community of the ecotourism destinations. Most of the socio-economic indicators *inter alia* community perception show an upward trend in income and employment of the local people. One of the positive aspects of this is the reduction in the overall exploitation of forest land by these communities, perpetuating sustainable development of ecotourism sites and ecotourism in Kerala. Inter-zone analysis to highlight the differences in the socio-economic aspects points to the fact that, the difference among zones is marginal. This may be either due to the small geographical area of Kerala or to the different niche ecotourism sites which are equally preferable to all the visitors coming over to Kerala for

ecotourism activities. In order to sustain the potential of Kerala's ecotourism destinations, several factors like infrastructure, services, safety, and cost reflect the overall demand for the ecotourism sites, hence it is necessary to take sufficient policy options that maximizes strength and opportunity and minimizes weakness and threats. With appropriate policy options, it is possible to tag ecotourism spots of Kerala as an important tourism destination in the global tourism map.

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		I mai cuucation o	i the comm	unity members	
		Formal Educ	ation (%)		
Zone	10th & Below	Under Graduate	Graduate	Post Graduate	Total
South zone	140	36	39	15	230
	(34.7)	(25.9)	(59.1)	(36.6)	(35.4)
Central zone	133	46	22	19	220
	(32.9)	(33.1)	(33.3)	(46.3)	(33.8)
North zone	131	57	5	7	200
	(32.4)	(41.0)	(7.6)	(17.1)	30.8
Total	404	139	66	41	650
	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)
(% of Total)	(62.2)	(21.4)	(10.2)	(6.3)	(100.0)

Table 1 Formal education of the community members

Tuble 2 Chi square result – Zone and formal cureation											
	(a) South	, cent	ral and north zones ¹	(b) South and central zones 2							
	Value	df	Asymp. Sig. (2-sided)	Value	df	Asymp. Sig. (2-sided)					
Pearson Chi-Square	35.250 ^a	6	0	6.388 ^a	3	0.094					
Likelihood Ratio	38.732	6	0	6.453	3	0.092					
Linear-by-Linear Association											
	7.922	1	0.005	0.064	1	0.801					
N of Valid Cases	650			450							

Table 2 Chi-square result – zone and formal education

N of valid Cases6504501. 0 cells (.0%) have expected count less than 5. The minimum expected count is 12.62.

2.0 cells (.0%) have expected count less than 5. The minimum expected count is 16.62.

Table 3 Percentage of income from tourism									
		Income from tourism (%)							
Zone	0-24	25-49	50-74	75-99	100	Total			
South zone	0.4	3.9	4.8	36.5	54.3	100			
Central zone	0.5	3.2	4.1	37.7	54.5	100			
North zone	0.5	2.0	8.0	29.5	60.0	100			
Total	0.5	3.1	5.5	34.8	56.2	100			

Table 4 Formal Education * holding of bank account * savings * indebtedness - Cross tabulation

Formal Education	(8	a)	(b)	(
	Holding	of bank	Does yo	ur family	Indebt	tedness	Total
	account (%)		save	e (%)	()	(a)/(b)/(c)	
	yes	no	yes	no	Yes	no	(%)
10 th and Below (1)	38.10	61.90	56.40	43.60	83.90	16.10	100.00
Under Graduate (2)	43.60	56.40	54.30	45.70	63.60	36.40	100.00
Graduate (3)	92.40	7.60	98.50	1.5	66.70	33.30	100.00
Post Graduate (4)	100.00	0.00	100.00	0.00	14.60	85.40	100.00
Total (5)	48.60	51.40	62.90	37.10	73.40	26.60	100.00

Table 5 Banking habits										
(a) Purpose of saving	gs			(b) Type of savings						
Durnasa	Resp	onses	Percent of	True	Respo	onses	Percent of			
Pulpose	Ν	Percent	Cases	туре	N	Percent	Cases			
Purchasing	64	14.4	18.8	Bank savings	104	18.2	27.2			
Education of children	207	46.7	60.9	60.9 Post office savings		18	26.9			
Marriage	90	20.3	26.5	Chit fund savings	60	10.5	15.7			
To earn interest	56	12.6	16.5	Self helped Groups savings	60	10.5	15.7			
To do business	26	5.9	7.6	Co-operatives savings	42	7.3	11			
				Savings at home	25	4.4	6.5			
				Others savings	178	31.1	46.5			
Total	443	100	130.3	Total	572	100	149.3			
(c) Source of Debt				(d) Purpose of indebtedness	5					
Source	Resp	onses	Percent of	Durnosa	Respo	onses	Percent of			
Source	N		C	ruipose						
	N	Percent	Cases	_	Ν	Percent	Cases			
Private money lenders	N 305	Percent 31.6	Cases 66.9	Agriculture	N 120	Percent 9.6	Cases 26.1			
Private money lenders Kudumbasree	N 305 188	Percent 31.6 19.5	66.9 41.2	Agriculture Education	N 120 156	Percent 9.6 12.4	Cases 26.1 33.9			
Private money lenders Kudumbasree Co-operative society	N 305 188 150	Percent 31.6 19.5 15.5	66.9 41.2 32.9	Agriculture Education Treatment	N 120 156 168	Percent 9.6 12.4 13.4	Cases 26.1 33.9 36.5			
Private money lenders Kudumbasree Co-operative society Local shopkeepers	N 305 188 150 118	Percent 31.6 19.5 15.5 12.2	Cases 66.9 41.2 32.9 25.9	Agriculture Education Treatment Livestock	N 120 156 168 80	Percent 9.6 12.4 13.4 6.4	Cases 26.1 33.9 36.5 17.4			
Private money lenders Kudumbasree Co-operative society Local shopkeepers Relatives	N 305 188 150 118 80	Percent 31.6 19.5 15.5 12.2 8.3	Cases 66.9 41.2 32.9 25.9 17.5	Agriculture Education Treatment Livestock Purchase of land	N 120 156 168 80 50	Percent 9.6 12.4 13.4 6.4 4	Cases 26.1 33.9 36.5 17.4 10.9			
Private money lenders Kudumbasree Co-operative society Local shopkeepers Relatives Friends/neighbors	N 305 188 150 118 80 60	Percent 31.6 19.5 15.5 12.2 8.3 6.2	Cases 66.9 41.2 32.9 25.9 17.5 13.2 13.2	Agriculture Education Treatment Livestock Purchase of land Construction/maintenance of house	N 120 156 168 80 50 190	Percent 9.6 12.4 13.4 6.4 4 15.1	Cases 26.1 33.9 36.5 17.4 10.9 41.3 10.9			
Private money lenders Kudumbasree Co-operative society Local shopkeepers Relatives Friends/neighbors Others	N 305 188 150 118 80 60 64	Percent 31.6 19.5 15.5 12.2 8.3 6.2 6.6	Cases 66.9 41.2 32.9 25.9 17.5 13.2 14	Agriculture Education Treatment Livestock Purchase of land Construction/maintenance of house Marriage	N 120 156 168 80 50 190 160	Percent 9.6 12.4 13.4 6.4 4 15.1 12.7	Cases 26.1 33.9 36.5 17.4 10.9 41.3 34.8			
Private money lenders Kudumbasree Co-operative society Local shopkeepers Relatives Friends/neighbors Others	N 305 188 150 118 80 60 64	Percent 31.6 19.5 15.5 12.2 8.3 6.2 6.6	Cases 66.9 41.2 32.9 25.9 17.5 13.2 14	Agriculture Education Treatment Livestock Purchase of land Construction/maintenance of house Marriage Day to day expenses	N 120 156 168 80 50 190 160 182	Percent 9.6 12.4 13.4 6.4 4 15.1 12.7 14.5	Cases 26.1 33.9 36.5 17.4 10.9 41.3 34.8 39.6			
Private money lenders Kudumbasree Co-operative society Local shopkeepers Relatives Friends/neighbors Others	N 305 188 150 118 80 60 64	Percent 31.6 19.5 15.5 12.2 8.3 6.2 6.6	Cases 66.9 41.2 32.9 25.9 17.5 13.2 14	Agriculture Education Treatment Livestock Purchase of land Construction/maintenance of house Marriage Day to day expenses Others	N 120 156 168 80 50 190 160 182 149	Percent 9.6 12.4 13.4 6.4 4 15.1 12.7 14.5 11.9	Cases 26.1 33.9 36.5 17.4 10.9 41.3 34.8 39.6 32.4			

Note: Percentages and totals are based on responses; Percent of cases will add up to more than hundred.

Table 6 Chi-Square test (Education-bank account, Education-saving and Education-indebtedness)

	Educat	Education-Bank account ¹			Education-Savings ²				Education-Indebtedness ³		
	Value	df	Asymp. Sig. (2- sided)	Value	df	Asymp. Sig. (2- sided)	Value	df	Asymp. Sig. (2-sided)		
Pearson Chi-Square	113.513 ^a	3	.000	72.013 ^a	3	.000	104.123 ^a	3	.000		
Likelihood Ratio	138.058	3	.000	101.634	3	.000	95.886	3	.000		
Linear-by-Linear Association	96.495	1	.000	51.479	1	.000	86.778	1	.000		

0 cells (.0%) have expected count less than 5. The minimum expected count is 19.93.
 0 cells (.0%) have expected count less than 5. The minimum expected count is 15.20.
 0 cells (.0%) have expected count less than 5. The minimum expected count is 10.91.

	Zon	Zone-Bank account ¹			Zone-S	Savings ²	Zone-Indebtedness ³		
	Value	df	Asymp. Sig. (2-sided)	Value	Df	Asymp. Sig. (2-sided)	Value	df	Asymp. Sig. (2- sided)
Pearson Chi-Square	5.975ª	2	.050	1.121 ^a	2	.571	8.921 ^a	2	.012
Likelihood Ratio	5.994	2	.050	1.117	2	.572	8.790	2	.012
Linear-by-Linear Association	3.951	1	.047	1.023	1	.312	3.858	1	.050

Table 7 Chi-square test (Zone-bank account, Zone-savings & Zone-indebtedness)

Source: Worked out from Appendix 1, 2 and 3

1.0 cells (.0%) have expected count less than 5. The minimum expected count is 97.23.

2.0 cells (.0%) have expected count less than 5. The minimum expected count is 74.15.

3.0 cells (.0%) have expected count less than 5. The minimum expected count is 53.23.

Tuble of a tube throug to the forest									
	Does t any fut	the forest face ure threats (%)							
Zone	yes	yes No							
South zone	138	92	230						
	(60.0)	(40.0)	(100.0)						
Central zone	130	90	220						
	(59.1)	(40.9)	(100.0)						
North zone	124	76	200						
	(62.0)	(38.0)	(100.0)						
Total	392	258	650						
	(60.3)	(39.7)	(100.0)						

Table 8 Future threats to the forest

Table 9 Main Threat to the forest

		Main threat (in %)								
	Felling	Fires	over use of	Agriculture	Other					
Zone	trees		tourism	-						
South zone	16.2	69.9	8.1	1.5	4.4	100.0				
Central zone	17.1	67.	9.3	1.6	4.7	100.0				
North zone	14.6	64.2	9.8	4.9	6.5	100.0				
Total	16.0	67.3	9.0	2.6	5.2	100.0				

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		South			North		Central			Total		
Obstacle type	Yes	No	total	Yes	No	Total	Yes	No	Total	Yes	No	Total
Conflicting aspirations (goals) of local												
community and forest officials	21.3	78.7	100	16.8	83.2	100	19	81	100	19.1	80.9	100
Unstable earnings from tourism	73	27	100	61.8	38.2	100	69	31	100	68	32	100
Lack of proper awareness of community												
on tourism business	46.5	53.5	100	40.5	59.5	100	44.5	55.5	100	43.8	56.2	100
Lack of coordination between tourism												
authorities and forest authorities	29.1	70.9	100	28.2	71.8	100	32	68	100	29.7	70.3	100
Language barriers	52.6	47.4	100	55.5	44.5	100	52	48	100	53.4	46.6	100
Limited land for tourism use /expansion	37.8	62.2	100	33.2	66.8	100	38.5	61.5	100	36.5	63.5	100
Low participation of community in												
tourism	41.7	58.3	100	43.2	56.8	100	39	61	100	41.4	58.6	100
Political interference	25.7	74.3	100	18.2	81.8	100	20	80	100	21.4	78.6	100
Poor leadership at the community level	35.7	64.3	100	39.1	60.9	100	36	84	120	36.9	63.1	100
Lack of Government spending on												
development projects	79.6	20.4	100	79.1	20.9	100	80	20	100	79.5	20.5	100

Table 10 Obstacle to tourism development (in percent)

Table 11 Ranking of benefits due to tourism development

	Ranks in %									
Type of benefit	1	2	3	4	5	6	7			
Transportation	42.8	12.6	14.8	12.2	11.2	5.8	0.6			
Improve sanitation/waste disposal facilities	10.8	21.1	21.8	25.8	15.4	5.1	0			
Improve basic amenities (including education, welfare, healthetc)	18.3	38.2	15.1	11.8	10	5.2	1.4			
Develop more community activities for tourists	20.8	14.9	18.2	23.1	13.7	8	1.4			
Initiate Training/ education for locals	5.2	9.5	23.5	12.6	33.5	12.2	3.4			
Increase community involvement/ownership	1.5	2.8	6.6	12.8	13.1	49.1	14.2			
Others	2	0.9	2	2.8	14.6	77.7	0			



Figure 1 Monthly income from tourism activities



Figure 2 Saving pattern



Figure 3 Perception of the community in managing tourism in the area according to their preference

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Figure 4 Type of Benefits from forest according to the preference



Figure 5 Degree of impact of obstacles

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