Table 5) the general evaluative indicators of mode	l affecting the institutional development in rural
areas in 2018-2019	

Model fitness indicators	Calculated amount	Acceptable amount	
CMIN (Chi square)	1192.989	-	
Df (Degree of Freedom)	720	-	
CMIN/Df (relative Chi square)	1.657	Less than 3	
CFI (confirmatory Factor Index)	0.917	More than 0.9	
RMSEA (Root Mean Square Error	0.04	Loss than 0.09	
of Approximation)	0.04	Less than 0.00	
PCLOSE (P of close fit)	1.00	More than 0.05	
HOETLER index	269	More than 75	
RMR	0.05	About zero	
PRATIO	0.923	Between 0 and 1	

Table 6)	Confirmatory	factor	analysis	of the	e Institutional	Development	Questionnaire	in	2018-
2019									

The hidden and	Visited	isited Non-standard Standard		T statistics	Significance	
visited variables	variables	coefficients	coefficients		level	
Catiofaction with	Satisfaction w	ith the available in	nstitutions' in th	e village		
private organizations and institutions in the village	Q12	1	0.473	-	-	
Satisfaction with private agricultural organizations and institutions	Q13	1.122	0.438	7.841	<0.001	
Satisfaction with	Q14	1.434	0.637	11.332	< 0.001	
state enter prise	Awareness a	hout the institutio	ns' duties and st	ructure		
Familiarity with NGOs and private institutions Familiarity with	Q15	1	0.419	-	-	
agricultural and livestock institutions	Q16	1.429	0.585	12.415	<0.001	
various rural institutions' duties Familiarity with	Q17	2.115	0.799	19.061	<0.001	
private institutions' duties Awareness of how to	Q18	2.057	0.846	20.84	<0.001	
join the informal institutions	Q19	1.478	0.656	14.396	<0.001	
The correspondent's		Institutional	trust			
attention to rural people's well-being	Q20	1	0.729	-	-	
Governmental and non-governmental officials' well behavior with rural people	Q21	0.85	0.686	15.959	<0.001	
Attention to the justice and rural people's right	Q22	0.771	0.655	14.939	<0.001	
Executive managers' attention to the rural people's needs	Q23	0.989	0.733	17.672	<0.001	
Executive managers' attention to justice Private institutions'	Q24	0.816	0.57	12.361	<0.001	
attention to rural people's needs and tackling them	Q25	0.581	0.434	8.874	<0.001	
		Social solid	lary			
Rural people's tendency for collective efforts to solve the problems Rural people's	Q26	1	0.755	-	-	
tendency for investing money to solve the problems	Q28	0.574	0.476	9.453	0.002	
		Social netw	orks			
The relationship with	Q29	1	0.576	-	-	

agricultural experts					
Taking nart in					
agricultural meetings	Q30	0.807	0.499	10.518	0.001
Rural noonlo's					
interaction with					
nrivato and non-	031	1 071	0.748	18 202	<0.001
private and non-	Q31	1.071	0.740	10.292	<0.001
governmental					
Institutions					
Rural people's	000	4.054	0.550	40.000	0.004
interaction with	Q32	1.251	0.758	18.692	< 0.001
public sector					
Rural people's					
cooperation and					
interaction among	Q33	0.779	0.475	9.923	< 0.001
various social groups					
and institutions					
Inter-institutional					
relationship in the	Q34	0.544	0.323	6.413	< 0.001
village					
	Human and	l environmental c	apacities in the	village	
Farms and gardens	035	1	0 543	_	_
area	Q33	T	0.343	-	-
Livestock	Q35	0.604	0.397	7.938	< 0.001
Motivated and					
educated people in	Q37	1.11	0.634	13.966	< 0.001
the village	-				
Rural people's	020	0.040	0 510	10.016	.0.001
income	Q38	0.949	0.518	10.816	<0.001
Rural people's					
tendency to					
cooperate in	Q39	0.921	0.512	10.66	< 0.001
teamwork					
The proportion of					
neonle working in	040	1 194	0.66	14 762	< 0.001
agriculture sectors	QIU	1.1.) 1	0.00	11002	
Women's					
narticination	Q41	0.695	0.314	6.148	< 0.001
purcepueren		Incentiv	es		
Government's		meentry			
support by giving					
low-interest loans for	Q42	1	0.492	-	-
evamile					
Helping the public					
sector investors in	043	1 002	0.482	9 544	< 0.001
the village	Q15	1.002	0.102	7.511	0.001
Permissions given to					
the private sector to					
tako part in	Q44	1.32	0.652	13.814	< 0.001
aducational courses					
Drovision of logal					
opportunitios for					
mombons (munch	045	1 0 2 0	0 5 9 5	12.016	<0.001
noonlo) to transfor	Q45	1.038	0.585	12.016	<0.001
oquitios for instance					
Offering cheen innuts					
to the institutions					
to the institutions	Q46	1.491	0.778	17.495	< 0.001
improving the job					
opportunities					
Provision of the					
incentives for people	047	0.941	0.577	11.824	< 0.001
to invest money on	Č.				
employment			•		
		Institutional c	apacity		

Institutions capabilities(human capitals, physical capitals, financial capitals, being purposeful, inter- institute relationships, and being flexible in decision making)	Q48	1	0.776	-	-
Institutions homogeneity	Q49	0.986	0.772	18.621	< 0.001
Institutions' knowledge	Q50	0.692	0.618	13.486	< 0.001
Institutions' education	Q51	0.915	0.741	17.475	< 0.001
Proper legal foundation	Q52	0.824	0.621	13.554	< 0.001

Table 7)	coefficients	for the	analysis	of the	influential	factors	in the	institutional	developmer	it of
rural area	as in 2018-20)19								

Factors affecting the institutional development in rural areas	Non-standard coefficients	Standard coefficients	T statistics	Significance level
Satisfaction with available institutions in the village	0.084	0.078	2.332	0.02
Awareness about the institutions' structure and	-0.596	-0.577	-17.25	<0.001
Institutional trust	0.347	0.361	10.777	< 0.001
Social solidarity	-0.47	-0.241	-7.198	< 0.001
Social networks	0.099	0.115	3.437	< 0.001
Human and environmental capacities of the village	0.22	0.056	1.661	<0.001
incentives	0.3	0.297	8.877	< 0.001
Institutional capacity	0.298	0.314	9.388	< 0.001



Figure 3) road maps in Boin Zahra and Avaj counties in 2018-2019 (Zanjan, , Qarahbolagh, Qale, Arochan, Dakhrajin, Mashane, Gol Cheshme, Karvansara, Avaj, Abgarm, Tuabad, Takistan, Shahin Tape, Tazrak, Danesfahan, Meshkin Tape,Bouin Zahra, Esmat Abad, Khownan, Arasanj, Markazi, Alborz, Abik)



Figure 4) institutions development in the studied rural areas in 2018-2019

Village	TOPSIS amount	TOPSIS range	TOPSIS mean	Frequency	Percentage
		Very good	condition		
Shakhdar	0.6143				
Arochan	0.6140				
Tazrak	0.5688				
Shahin Tape	0.5578	-0.6143			
Khownan	0.5412	0.5004	0.5604	8	44.4
Khuznin	0.5104				
Esmat abad	0.5092				
New Arasanj	0.5007				
		Good co	ondition		
Dakhrajin	0.4707				
Tuabad	0.4654	-0.5004	0.4402	4	22.4
Meshkin Tape	0.4624	0.3866	0.4483	4	55.4
Shingel	0.4064				
		Almost goo	d condition		
Gol Cheshme	0.3731				
Mashane	0.3515				
Karvansara	0.3490	-0.3866	0.2700	6	22.2
Qale	0.3468	0.2728	0.2789	0	22.2
Qarebolagh	0.3432				
Oushe Oui	0.3099				

Table 8) zoning the studied village according to the institutional development indices