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PENGON	:	Palestinian Environmental Non organization Network	:
ILO	:	International Labour Organization	:
UNCED	:	United Nation Conference on Environment and Development	:
EIA	:	Environmental Impact Assessment	:
ANOVA	:	Analysis of variance	:
SPSS	:	Statistical Package fro Social Sciences	:
OECD	:	Organisation for Economic Cooperation and Development	:
SCOPE	:	Scientific Committee on Problems of the Environment	:

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The role of adopting the values and principles of environmental impact assessment in the project management between the factors of success and obstacles

Abstract

This study was conducted between September 2007 and April 2008, Where the directors of environmental projects in the Palestinian Environmental Non Governmental Organizations network, heads of Regional Committees for Planning and Development in the departments of local government in the West Bank, and officials of the Environment Quality Authority in Ramallah, represents society of the study. This study is considered to be one of the first studies at the local level, where important aspects related to environmental impact assessment are discussed, those are: its principles and values, it impacts on the project management, and on the institutional work as whole, especially on planning, resources input, leadership, and monitoring. The study also addressed the important factors that help to adopt the principles and value of environmental impact assessment in the institutional work and those which hinder it. The scarcity of literature and studies that discusses the environmental impact assessment and its relationship to project management and institutional work represented the most important determinants of the study.

The descriptive approach was used in the completion of this study. Information was collected and hypotheses were tested with the help of literature review and the design of special questionnaire for the environmental experts. Results were analyzed and presented using the Statistical Package for Social Science (SPSS).

The most important results of this study were clear differences in the definitions of the concept of environmental impact assessment, and that the most important principles and values of environmental impact assessment are: up-dated database, benefit from feedback and accumulated experiences, commitment to laws and regulations and standards, the involvement of everyone, and selection while considering alternatives. The study also confirmed that adopting principles and values of environmental impact assessment in the institutional work is generally reflected through: the knowledge of safe environmental project, successful planning, resource conservation, sustainability and optimal staffing, knowledge about negative impacts of projects before their occurrence, reduction of long – term costs, and participation of all parties. Factors that enhance the adoption of the principles and values of the environmental impact assessment are: commitment of the organizations to standards, laws and rules, modern management, formal encouragement of adopting principles of environmental impact assessment, gaining the confidence of the community, having specialized task forces, having update database, possession of sufficient awareness of the positive aspect of environmental impact assessment, working in a harmony with the national environmental strategy, setting goals based on the comprehensive value of the resources. The most important factors that hindered the adoption of the principles of environmental impact assessment in project management and institutional work can be summarized by unavailability of modern database in the majority of institutions, the absence of formal incentive for institutions to adopt principles of environmental impact assessment, lack of expertise among institutions to benefit from the experience of members of the local community, the institutions concern of the economical feasibility than the environmental feasibility, lack of strategic planning, and limitedness of available alternatives.

The most important recommendations of the study are: adoption of the principles and values of environmental impact assessment in the institutional work, particularly in the environmental institutions, generalization and encouragement of strategic planning, and official stimulation of the organizations to adopt environmental impact assessment. It is also recommended to conduct research on the relationship between adopting values and principles of environmental impact assessment and institutional vocabulary such as: job pressures, work struggle, job duplication.

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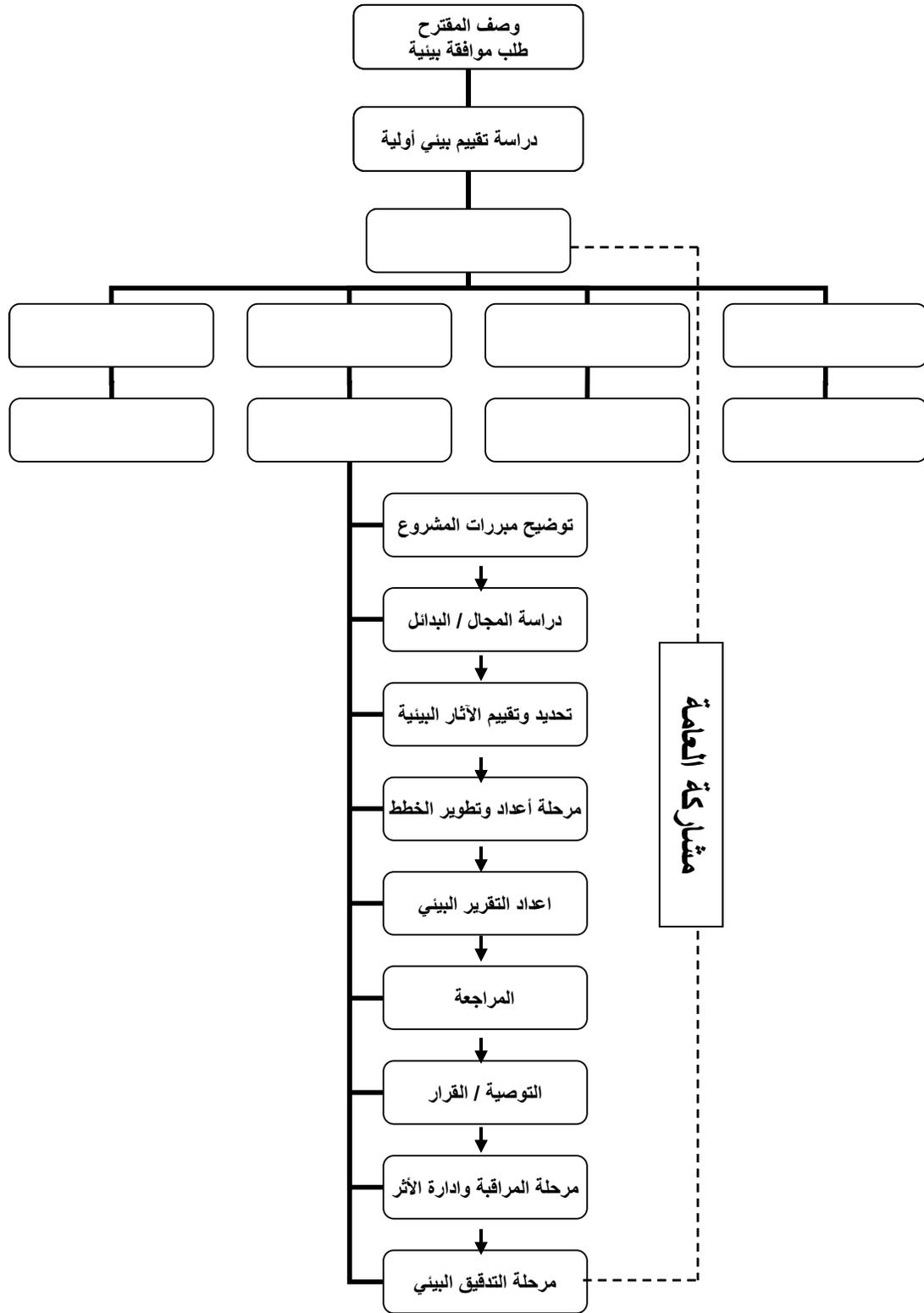
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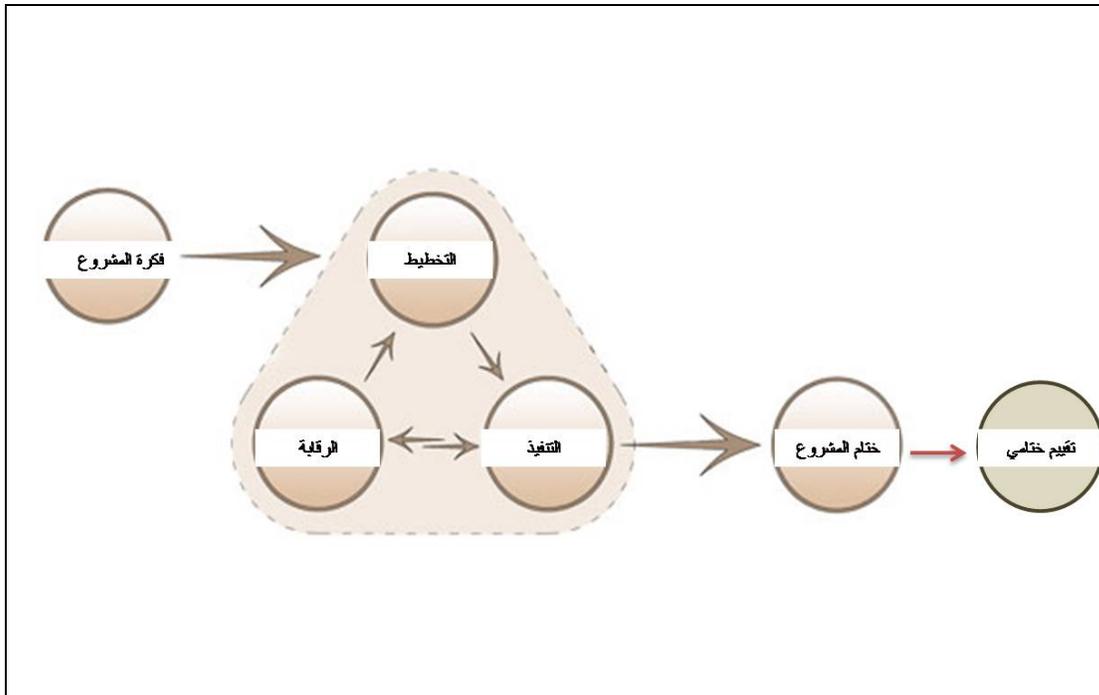
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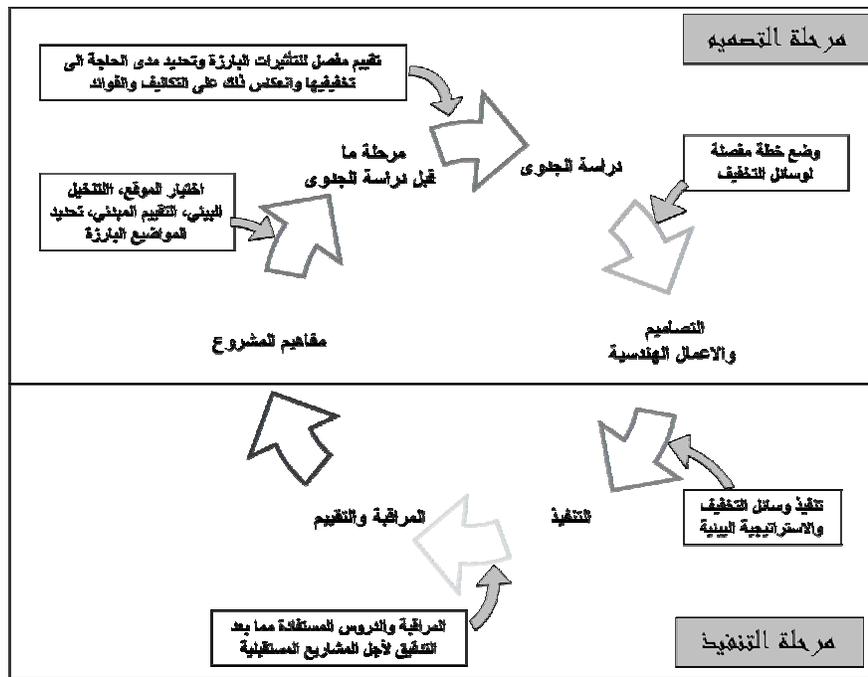
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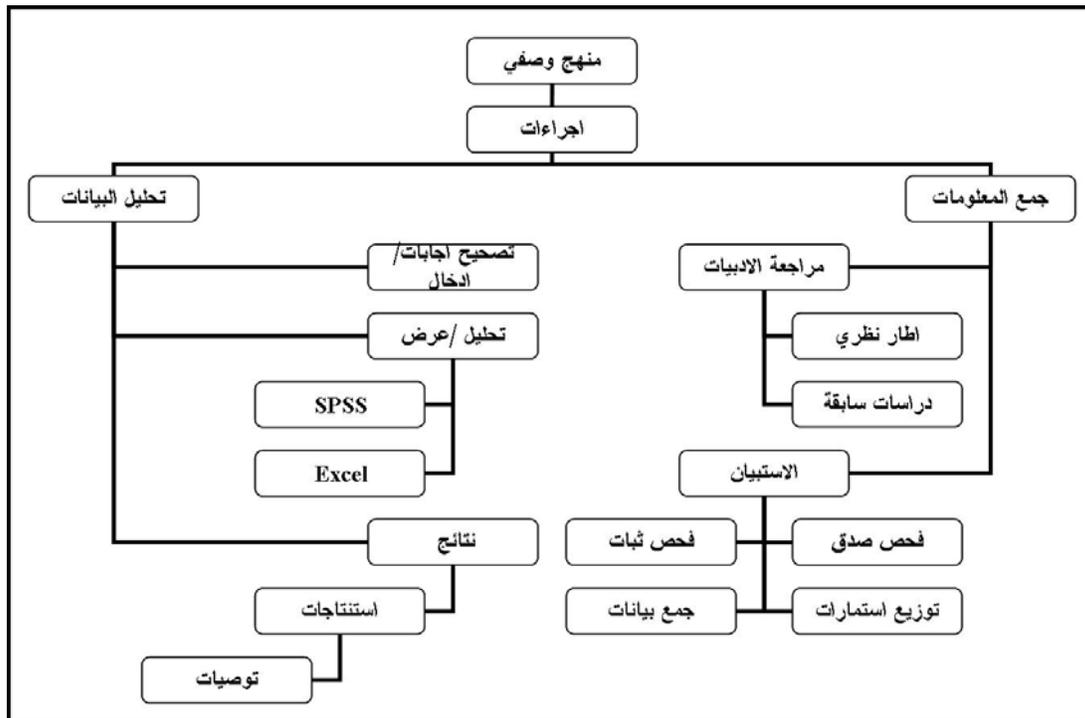
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0.032	0.47		6
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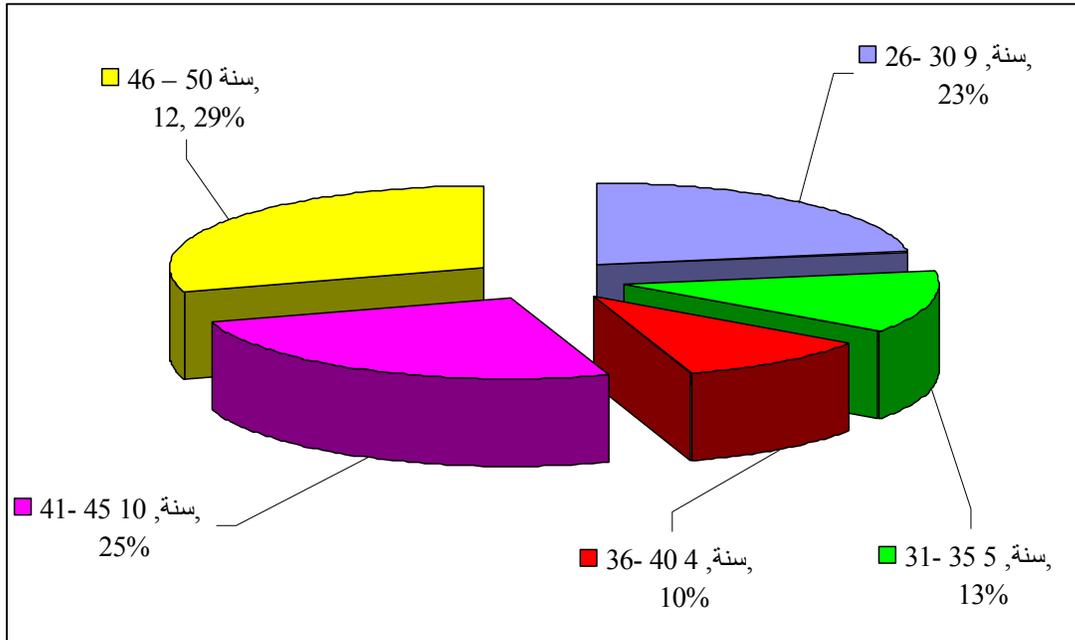
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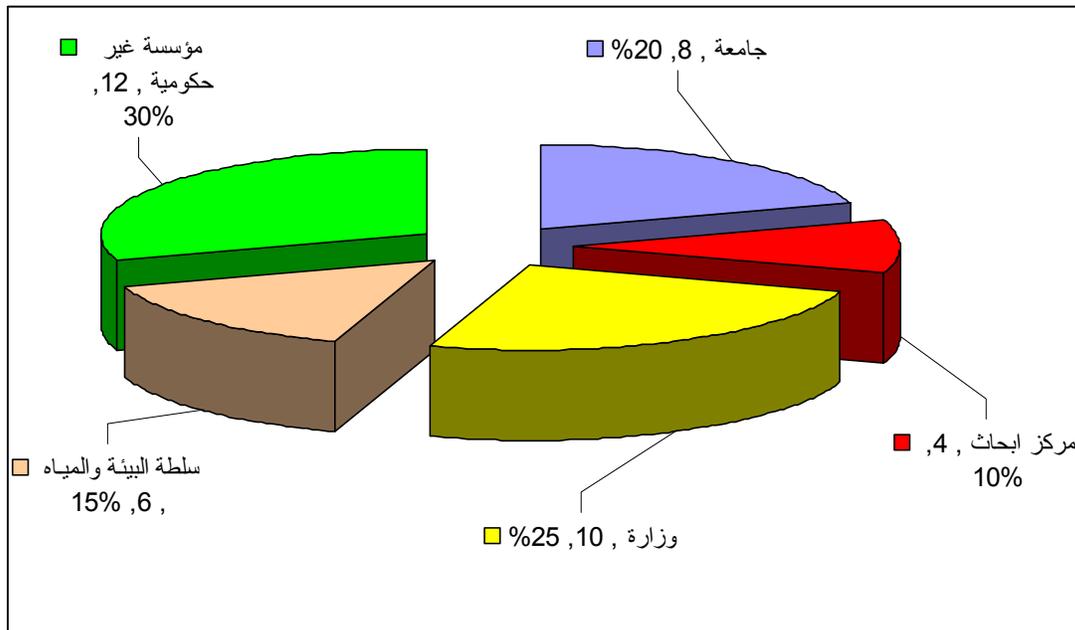
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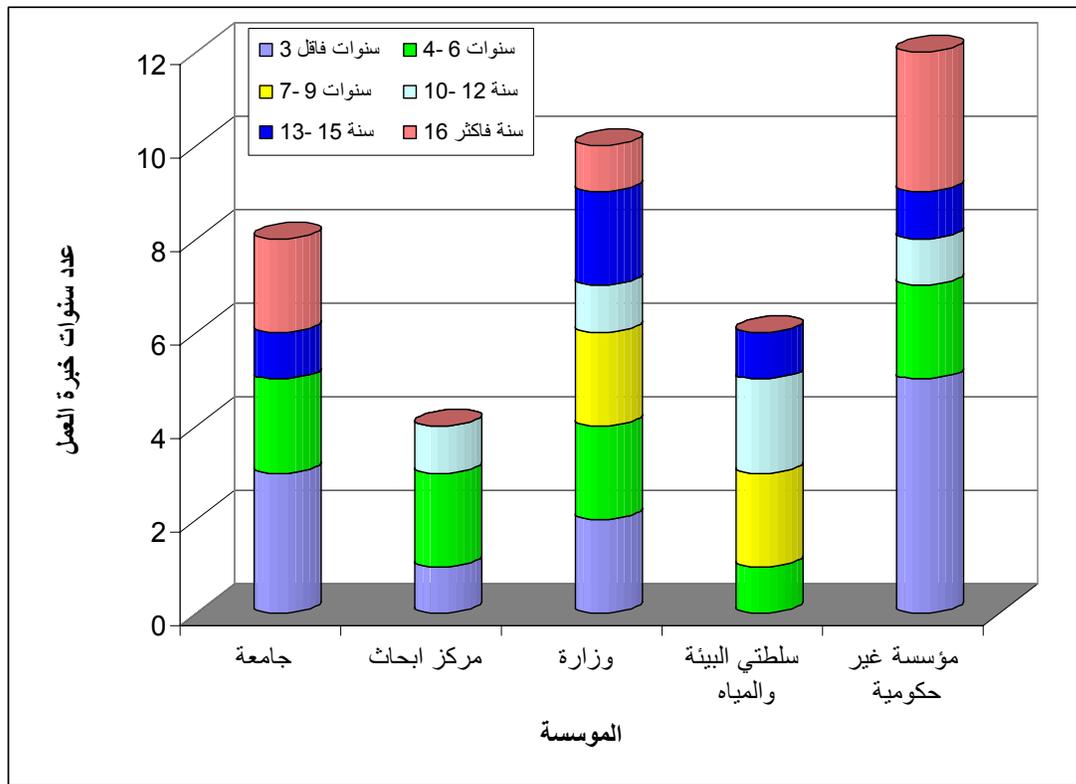
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0.372	2.83		7
0.307	2.80	_____	8
0.278	2.83		9
0.291	2.88		10
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0.304	2.90		5
0.304	2.90	_____	6
0.304	2.90		7
0.463	2.88	_____	8
0.549	2.83		9
0.723	2.70		10
0.813	2.58		11
0.816	2.53		12
0.859	2.33		13
0.939	2.30		14
0.169	2.77		

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0.158	2.98		B1
0.221	2.95		B2
0.463	2.88		B3
0.648	2.70		B4
0.221	2.95		B5
0.816	2.28	()	B6
0.362	2.85		B7
0.202	2.80		

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		_____)	(_____
0.304	2.90		C1
0.221	2.95		C2
0.158	2.98		C3
0.577	2.78	_____	C4
0.304	2.90		C5
0.221	2.95		C6
0.543	2.75		C7
0.221	2.95		C8
0.379	2.90		C9
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0.749	2.55		D1
0.405	2.80		D2
0.335	2.88		D3
0.379	2.90		D4
0.577	2.78		D5
0.304	2.90		D6
0.588	2.75		D7
0.516	2.80		D8
0.464	2.80		D9
0.291	2.79		

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0.158	2.98		E2
0.304	2.90		E3
0.221	2.95		E4
0.221	2.95	()	E5
0.221	2.95		E6
0.136	2.92		

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0.267	2.93			F4
0.656	2.68			F5
0.163	2.91			

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0.463	2.88		G1
0.501	2.83		G2
0.464	2.80		G3
0.427	2.85	()	G4
0.446	2.83	()	G5
0.480	2.78		G6
0.372	2.83		

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		_____)	(_____
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0.543	2.75		H2
0.405	2.80		H3
0.446	2.83		H4
0.501	2.83		H5
0.501	2.83		H6
0.501	2.83		H7
0.307	2.80		

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0.427	2.85	.	I2
0.427	2.85	.(.....)	I3
0.554	2.73	.()	I4
0.480	2.78	.	I5
0.304	2.90	.	I6
0.304	2.90	.	I7
0.278	2.83		

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0.000	3.00		J1
0.483	2.85		J2
0.221	2.95		J3
0.221	2.95		J4
0.588	2.75		J5
0.441	2.90		J6
0.463	2.88		J7
0.516	2.80		J8
0.291	2.88		

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0.463	2.88)	K2
		(
0.554	2.73		K3
0.267	2.93	_____	K4
0.427	2.85		K5
0.304	2.90		K6
0.751	2.53		K7
0.564	2.80		K8
0.483	2.85		K9
0.670	2.75		K10
0.501	2.83		K11
			K12
0.267	2.93		
0.267	2.93		K13
0.320	2.83		

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0.588	2.75		L2
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0.700	2.65		L4
0.636	2.58		L5
0.781	2.58		L6
0.744	2.60		L7
0.530	2.78		L8
0.744	2.60		L9
0.891	1.78	.	L10
0.549	2.83		L11
0.816	2.53		L12
0.705	2.63		L13
0.554	2.73		L14
0.501	2.83		L15
0.747	2.58		L16
0.679	2.73	(....)	L17
0.282	2.60		

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	F/T													
0. 189	0. 582	0. 604	0. 164	0. 374	0. 674	0. 339	0. 134	0. 501	1.973	0. 292	1.003	0. 884	0. 119	
0. 719	0. 523	0. 900	0. 263	0. 390	1.061	0. 771	0. 450	0. 654	0. 616	0. 341	1.170	0. 135	1.887	
0. 907	0. 098	0. 148	2.016	0. 635	0. 459	0. 571	0. 569	0. 331	1.138	0. 251	1.435	0. 035	3.674	
0. 306	1.254	0. 404	1.033	0. 305	1.258	0. 363	1.120	0. 501	0. 854	0. 982	0. 098	0. 225	1.494	
0. 496	0. 863	0. 632	0. 648	0. 923	0. 224	0. 894	0. 273	0. 196	1.600	0.194	1.609	0. 595	0. 704	
0. 596	0. 525	0. 971	0. 030	0. 920	0. 083	0. 507	0. 691	0. 347	1.088	0. 745	0. 296	0. 616	0. 490	
0. 667	0. 646	0. 428	1.008	0. 342	1.175	0. 674	0. 636	0. 305	1.257	0. 267	1.350	0. 313	1.237	
0. 492	0. 870	0. 615	0. 673	0. 138	1.867	0. 486	0. 880	0. 927	0. 218	0. 297	1.279	0. 471	0. 907	

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	F/T											
0. 837	0. 121	0. 818	0. 603	0. 698	0. 138	0. 168	0. 797	0. 726	0. 372	0. 590	0. 032	
0. 275	1.338	0. 312	1.240	0. 121	1.967	0. 153	1.791	0. 064	2.449	0. 163	1.741	
0. 392	0. 961	0. 642	0. 448	0. 353	1.070	0. 356	1.063	0. 502	0. 702	0. 948	0. 053	
0. 324	1.210	0. 194	1.606	0. 432	0. 978	0. 182	1.655	0. 413	1.015	0. 512	0. 836	
0. 630	0. 651	0. 549	0. 775	0. 441	0. 961	0. 296	1.281	0. 404	1.033	0. 184	1.650	
0. 784	0. 245	0. 808	0. 214	0. 814	0. 206	0. 979	0. 021	0. 424	0. 877	0. 248	1.450	
0. 679	0. 628	0. 903	0. 311	0. 738	0. 548	0. 869	0. 365	0. 438	0. 991	0. 721	0. 572	
0. 184	1.648	0. 072	2.368	0. 335	1.185	0. 546	0. 779	0. 370	1.105	0. 289	1.299	

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- : (2005).
- . () .
- : (2006).
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- : (2002)
- : (2007).
- . () . -
- : (1997).
- : (1998).
- : (1995) .
- : (2003).
- : (2005).
- . () .
- : (2003).
- : (2002) .
- : (2007)
- <http://www.pengonorg/arabic/about.htm>, 5/7/2008.
- : (2008)
- www.pengon.org://:http, 11/3/2008

- (2006).
- (2005).
- (2008).
- (2005).
- (2005).
- (2005).
- (2005).
- (1999).
- (2006).
- (2003).
- (2005).
- (2000).
- (2001).
- (1998).
- (2001).

- Economic and Social Commission for Asia and the Pacific (ESCAP) (2008): Environmental Impact Assessment Project Cycle and Project Management. In: Virtual Conference - Integrating Environmental Considerations into Economic Policy Making Processes.UN. (http://www.unescap.org/drrpad/vc/orientation/M8_2.htm, 12/04/2008)
- Husain Sadar. (1996): environmental Impact Assessment, Canada.

- Lgraham Smith. (1993): Impact Assessment and Sustainable Resource Management, NewYork.
- Organisation for Economic Cooperation and Development (OECD). (2006): Appling Strategic Environmental Assessment, France.
- Scientific Committee on Problems of the Environment. (SCOPE), (1989): environment Impact Assessment, R.E.Munn. John and sons, Toronto, Canada.
- Sitepoint Pty. Ltd (2008): Project cycle. Austalia.
(http://i2.sitepoint.com/graphics/guerilla_project_cycle_red.png, 12/04/2008)

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