

ANNEX 20 CALCULATION OF ECONOMIC INTERNAL RATE OF RETURN (EIRR) FOR RIVER RESTORATION PLAN (EXECUTION OF WATERSHED MANAGEMENT WORKS + SEDIMENT CONTROL WORKS + EROSION CONTROL WORKS) (AT 2025 YEAR ECONOMIC CONDITION IN CASE OF EXECUTION RATE OF WATERSHED MANAGEMENT PLAN OF 75 %)

(Million Rials)

Year Order	Year in Christian Calendar	Year in Iranian Calendar	Cost for Watershed Management Plan + Debris Flow Control Plan			Benefit								Cash Balance
			Direct Cost	OM Cost for Equipment	Total Cost	Damages to Agricultural and Residential Area incl. Public Facilities			Benefit Derived From Watershed Management Plan				Total	
						Watershed Management Works (Residential Area)	Sediment Control Dam	Erosion Control Dam	Farm Land		Range Land			
									Dasht- e- Sheikh Area 25%	Ghiz Ghaleh Area 33%	Dasht- e- Sheikh Area 25%	Ghiz Ghaleh Area 33%		
1	2005	1384	0	0	0	0	0	0	0	0	0	0	0	0
2	2006	1385	0	0	0	0	0	0	0	0	0	0	0	0
3	2007	1386	17,414	0	17,414	0	0	0	0	0	0	0	0	-17,414
4	2008	1387	7,843	501	8,344	0	0	0	0	0	274	118	393	-7,951
5	2009	1388	15,467	723	16,190	0	0	0	0	0	368	186	554	-15,636
6	2010	1389	13,335	1007	14,343	0	0	0	0	0	454	289	743	-13,600
7	2011	1390	12,022	1193	13,215	0	0	0	746	170	558	332	1,806	-11,410
8	2012	1391	2,453	1506	3,958	47	3,353	7	2,680	648	697	377	7,809	3,851
9	2013	1392	163	1666	1,829	48	3,415	7	5,166	1,397	702	377	11,112	9,283
10	2014	1393	163	1758	1,920	49	3,478	7	8,226	2,392	707	377	15,236	13,315
11	2015	1394	0	1849	1,849	50	3,540	7	12,019	3,527	707	377	20,228	18,379
12	2016	1395	0	1936	1,936	50	3,603	8	14,807	4,361	707	377	23,913	21,977
13	2017	1396		1936	1,936	51	3,665	8	17,283	4,977	707	377	27,069	25,133
14	2018	1397		1936	1,936	52	3,728	8	19,267	5,259	707	377	29,398	27,462
15	2019	1398		1936	1,936	53	3,790	8	20,628	5,403	707	377	30,967	29,031
16	2020	1399		1936	1,936	54	3,853	9	21,139	5,403	707	377	31,542	29,606
17	2021	1400		1936	1,936	55	3,915	9	21,199	5,403	707	377	31,665	29,729
18	2022	1401		1936	1,936	56	3,978	9	21,229	5,403	707	377	31,759	29,823
19	2023	1402		1936	1,936	57	4,040	9	21,229	5,403	707	377	31,822	29,886
20	2024	1403		1936	1,936	57	4,103	10	21,229	5,403	707	377	31,886	29,950
21	2025	1404		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
22	2026	1405		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
23	2027	1406		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
24	2028	1407		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
25	2029	1408		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
26	2030	1409		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
27	2031	1410		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
28	2032	1411		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
29	2033	1412		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
30	2034	1413		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
31	2035	1414		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
32	2036	1415		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
33	2037	1416		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
34	2038	1417		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
35	2039	1418		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
36	2040	1419		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
37	2041	1420		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
38	2042	1421		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
39	2043	1422		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
40	2044	1423		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
41	2045	1424		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
42	2046	1425		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
43	2047	1426		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
44	2048	1427		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
45	2049	1428		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
46	2050	1429		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
47	2051	1430		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
48	2052	1431		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
49	2053	1432		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
50	2054	1433		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
51	2055	1434		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
52	2056	1435		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
53	2057	1436		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
54	2058	1437		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014
55	2059	1438		1936	1,936	58	4,165	10	21,229	5,403	707	377	31,950	30,014

ANNEX 21 AVERAGE ANNUAL URBAN HOUSEHOLD NET EXPENDITURE ON NON-FOOD COMODITIES AND SERVICES BY MAJOR ITEMS

Description	(Rial)									
	1986	1991	1996	1998	1999	2000	2001	2002	2003	
Total	767,910	2,099,706	7,653,009	11,493,993	14,519,039	17,365,090	20,853,964	26,090,764	30,346,842	
Clothing and footwear	97,330	364,469	1,225,864	1,478,749	1,658,080	1,845,601	1,939,764	2,296,116	2,518,460	
Clothing	75,744	291,553	929,587	1,155,444	1,309,966	1,443,350	1,535,163	1,815,514	1,985,149	
Footwear	21,586	72,916	296,277	323,305	348,114	402,251	404,601	480,602	533,311	
Housing	398,762	1,066,252	3,706,127	5,629,621	6,686,476	7,605,354	8,929,214	11,261,036	12,984,604	
Rents and rental value of owner-occupied housing, repair and maintenance	364,260	978,188	3,375,395	5,089,779	5,906,642	6,753,650	7,913,704	10,026,002	11,492,816	
Water and sewage, fuel, and light	34,502	88,064	330,732	539,842	779,834	851,704	1,015,510	1,235,034	1,491,788	
Furniture, furnishings, equipment and services	62,258	194,577	703,643	991,307	1,214,123	1,390,730	1,700,932	2,024,439	2,284,177	
Furniture, fixtures and floor coverings	8,636	39,834	135,776	210,981	230,296	281,466	292,809	419,754	451,088	
Household appliances and other furnishings	10,262	25,933	73,317	100,617	124,018	150,985	195,184	204,468	231,316	
Heating and cooking appliances, refrigerators, etc	13,670	47,695	164,443	263,731	349,525	353,607	466,358	565,423	663,417	
Glasswares, tablewares and utensils	11,496	35,775	142,113	146,786	181,857	229,263	317,382	325,889	349,051	
Non-durable household goods	15,272	42,090	178,995	256,726	308,294	353,628	399,648	467,821	515,743	
Household services	2,922	3,250	8,999	12,466	20,133	21,781	29,551	41,084	53,452	
Medical care and health services	51,446	131,512	552,881	860,840	1,273,263	1,621,816	1,962,237	2,571,243	2,767,789	
Medical care and health expenses	46,014	120,671	472,244	719,026	1,008,955	1,317,738	1,602,473	2,102,566	2,185,541	
Health insurance charges	5,432	10,841	80,637	141,814	264,308	304,078	359,764	468,677	582,248	
Transport and communications	86,080	177,785	724,173	1,322,764	1,815,727	2,341,937	2,974,866	3,924,287	4,889,255	
Transport	76,981	153,816	554,426	1,015,314	1,393,187	1,798,361	2,240,877	2,960,067	3,663,275	
Communications	9,099	23,969	169,747	307,450	422,540	543,576	733,989	964,220	1,225,980	
Recreation, entertainment and cultural services	21,083	69,071	348,719	565,627	650,004	788,069	959,054	1,179,930	1,329,876	
Recreation and entertainment	9,891	33,692	95,000	192,805	208,915	266,989	328,045	406,473	450,927	
Education and training	11,192	35,379	253,719	372,822	441,089	521,080	631,009	773,457	878,949	
Miscellaneous personal goods and services	50,951	96,040	391,602	645,085	1,221,366	1,771,583	2,387,897	2,833,713	3,572,681	
Personal care and effects	15,973	36,249	137,109	187,795	221,840	275,987	333,713	397,897	460,780	
Jewellery, watches and other personal goods	-5,752	-352	-2,935	11,575	-20,440	64,430	120,730	162,190	206,591	
Expenditure in restaurants, cafe and hotels; packaged tours	11,595	8,421	72,978	152,993	154,421	175,414	340,808	374,432	460,692	
Financial and legal services	253	2,851	3,636	11,031	12,204	21,018	52,486	39,808	44,490	
Religious contributions and duties	17,442	6,632	44,229	57,783	125,128	103,147	125,323	160,250	145,575	
Services n.e.c.	11,440	42,239	136,585	223,908	728,213	1,131,587	1,414,837	1,699,136	2,254,553	

Source: Iran Statistical Year Book 1382, Statistical Centre of Iran, Department of Publication and Information.

ANNEX 22 AVERAGE ANNUAL URBAN HOUSEHOLD NET EXPENDITURE ON FOOD, BEVERAGE AND TOBACCO BY MAJOR ITEMS

Description	(Rials)									
	1986	1991	1996	1998	1999	2000	2001	2002	2003	
Total	546,666	958,985	3,407,666	5,175,650	6,183,847	6,810,223	7,166,386	8,879,897	10,642,441	
Cereals and cereal products	94,079	215,635	692,605	1,102,051	1,363,905	1,326,883	1,392,880	1,678,601	2,006,290	
Flour of cereals; macaroni and similar products	3,252	11,313	49,263	74,303	98,963	118,896	111,982	122,368	143,643	
Cereals and meat of cereals	62,260	157,240	496,551	778,570	947,318	850,310	879,523	1,093,262	1,323,226	
Bread	27,726	44,182	135,029	236,527	289,384	326,658	369,659	412,307	479,178	
Biscuits, cake and other bakery products	841	2,900	11,762	12,651	28,240	31,019	31,716	50,664	60,243	
Meat	185,123	246,300	854,965	1,192,162	1,485,291	1,702,902	1,841,215	2,337,666	2,713,065	
Livestock	132,593	170,499	542,572	734,004	912,109	1,008,488	1,074,550	1,354,133	1,573,914	
Poultry	41,736	54,707	252,704	368,209	458,232	529,058	581,979	749,088	851,806	
Fish and shrimp	10,794	21,094	59,689	89,949	114,950	165,356	184,686	234,445	287,345	
Milk and milk products; eggs	57,144	96,100	378,194	558,834	639,252	707,452	773,932	928,851	1,103,379	
Milk	9,959	20,416	70,658	113,946	134,365	143,038	163,388	212,802	275,896	
Milk products	32,608	50,211	216,714	323,982	361,568	423,708	452,065	527,427	622,587	
Eggs	14,577	25,473	90,822	120,906	143,319	140,706	158,479	188,622	204,896	
Oil and fats	12,479	39,848	156,051	261,987	281,532	273,179	265,710	330,894	441,087	
Edible oils and fats of animal origin	1,592	3,551	6,500	8,955	9,433	10,019	10,604	12,075	19,900	
Vegetable oils	10,887	36,297	149,551	253,032	272,099	263,160	255,106	318,819	421,187	
Fruits and vegetables	109,428	148,026	494,091	791,716	893,934	1,090,205	1,098,308	1,483,650	1,810,030	
Fruits	65,243	74,447	226,862	331,893	383,357	502,332	527,888	719,546	867,639	
Vegetables	43,645	72,724	264,187	455,117	502,857	579,800	559,436	748,891	922,392	
Prepared fruits and vegetables for home consumption	540	855	3,042	4,706	7,720	8,073	10,984	15,213	19,999	
Nuts and dried fruits; pulses	16,983	43,241	149,796	219,763	284,891	339,250	316,654	404,643	503,866	
Nuts and dried fruits	11,067	18,358	83,494	121,463	134,261	173,757	157,324	234,846	322,222	
Pulses	5,916	24,883	66,302	98,300	150,630	165,493	159,330	169,797	181,644	
Sugar; confectionary; tea; coffee and cocoa	22,424	68,651	334,579	509,896	580,010	609,269	607,431	728,290	851,910	
Sugar	4,840	17,842	101,795	157,687	175,207	155,266	160,498	191,520	234,797	
Confectionary, honey and jam	10,417	27,174	96,729	141,905	167,749	207,046	199,662	266,827	317,470	
Tea, coffee and cocoa	7,167	23,635	136,055	210,304	237,054	246,957	247,271	269,943	299,643	
Spices, seasonings and pickles	2,964	19,668	89,350	148,164	170,377	195,088	225,489	276,140	316,802	
Spices	1,234	5,052	30,891	46,608	64,218	77,549	79,507	84,570	102,713	
Seasonings and pickles	1,730	14,616	58,459	101,556	106,159	117,539	145,982	191,570	214,089	
Beverages; prepared foods; tobacco	46,042	81,516	258,035	391,077	484,655	565,995	644,767	711,162	896,012	
Beverages	2,502	4,013	25,847	45,277	68,216	86,932	98,794	129,004	149,345	
Prepared foods	20,269	21,635	105,545	174,470	211,012	262,202	331,640	346,450	486,951	
Tobacco	23,271	55,868	126,643	171,330	205,427	216,861	214,333	235,708	259,716	

Source: Iran Statistical Year Book 1382, Statistical Centre of Iran, Department of Publication and Information.

ANNEX 23 AVERAGE ANNUAL RURAL HOUSEHOLD NET EXPENDITURE ON NON-FOOD COMODITIES AND SERVICES BY MAJOR ITEMS

Description	(Rials)									
	1986	1991	1996	1998	1999	2000	2001	2002	2003	
Total	335,088	1,042,713	3,728,805	5,672,250	7,549,868	9,040,015	10,162,598	12,614,868	15,448,182	
Clothing and footwear	73,570	291,444	955,701	1,308,491	1,470,902	1,690,993	1,574,071	1,987,291	2,239,045	
Clothing	60,034	235,979	720,301	1,015,167	1,147,954	1,329,033	1,239,735	1,553,907	1,756,960	
Footwear	13,536	55,465	235,400	293,324	322,948	361,960	334,336	433,384	482,085	
Housing	102,456	304,922	1,031,761	1,614,991	2,084,992	2,497,706	2,972,558	3,462,874	4,213,569	
Rents and rental value of owner-occupied housing, repair and maintenance	74,198	227,223	741,788	1,151,652	1,383,336	1,632,718	1,979,114	2,333,538	2,880,984	
Water and sewage, fuel, and light	28,258	77,699	289,973	463,339	701,656	864,988	993,444	1,129,336	1,332,585	
Furniture, furnishings, equipment and services	48,832	146,600	548,139	822,993	1,000,548	1,189,662	1,356,476	1,621,606	1,837,655	
Furniture, fixtures and floor coverings	8,239	21,658	96,495	146,776	181,274	201,184	210,270	240,834	280,960	
Household appliances and other furnishings	8,977	25,966	67,949	108,961	118,048	141,902	172,684	216,921	264,738	
Heating and cooking appliances, refrigerators, etc	10,197	35,863	122,017	212,460	270,578	330,850	349,615	425,164	460,587	
Glasswares, tablewares and utensils	7,937	29,993	103,032	140,641	169,355	205,393	267,967	313,943	344,278	
Non-durable household goods	13,447	32,744	157,148	212,014	257,155	306,996	353,399	416,695	476,213	
Household services	35	376	1,498	2,141	4,138	3,337	2,541	8,049	10,879	
Medical care and health services	30,586	92,520	354,955	530,315	829,119	959,224	1,073,043	1,492,122	1,757,091	
Medical care and health	29,551	88,570	325,167	482,629	716,811	827,475	928,785	1,303,465	1,529,626	
Health insurance charges	1,035	3,950	29,788	47,686	112,308	131,749	144,258	188,657	227,465	
Transport and communications	34,120	84,451	376,517	623,754	884,047	1,040,391	1,234,303	1,714,909	2,477,913	
Transport	33,377	81,477	344,366	549,644	764,076	880,514	1,025,338	1,402,979	2,021,174	
Communications	743	2,974	32,151	74,110	119,971	159,877	208,965	311,930	456,739	
Recreation, entertainment and cultural services	9,054	31,607	135,822	258,150	310,325	362,344	423,440	536,563	641,276	
Recreation and entertainment	4,563	15,921	45,522	125,693	147,724	183,997	225,007	297,158	366,286	
Education and training	4,491	15,686	90,300	132,457	162,601	178,347	198,433	239,405	274,990	
Miscellaneous personal goods and services	36,470	91,169	325,910	513,556	969,935	1,299,695	1,528,707	1,799,503	2,281,633	
Personal care and effects	8,881	23,844	90,646	131,246	162,366	196,821	225,725	269,323	344,105	
Jewellery, watches and other personal goods	3,293	16,986	41,364	60,902	70,096	122,124	158,640	183,989	221,632	
Expenditure in restaurants, cafe and hotels; packaged tours	4,910	4,649	28,135	50,983	68,966	91,874	119,913	187,882	263,005	
Financial and legal services	161	582	2,139	1,482	9,304	27,109	31,288	28,789	58,474	
Religious contributions and duties	12,126	9,061	36,565	67,892	102,004	111,755	121,266	139,751	144,657	
Services n.e.c.	7,099	36,047	127,061	201,051	557,199	750,012	871,875	989,769	1,249,760	

Source: Iran Statistical Year Book 1382, Statistical Centre of Iran, Department of Publication and Information.

ANNEX 24 AVERAGE ANNUAL RURAL HOUSEHOLD NET EXPENDITURE ON FOOD, BEVERAGE AND TOBACCO BY MAJOR ITEMS

Description	(Rial)									
	1986	1991	1996	1998	1999	2000	2001	2002	2003	
Total	426,505	888,540	3,258,003	5,131,586	6,087,403	6,633,246	7,070,294	8,780,087	10,227,852	
Cereals and cereal products	135,371	239,372	875,537	1,580,504	1,642,480	1,596,378	1,728,319	2,047,599	2,210,759	
Flour of cereals; macaroni and similar products	1,246	53,041	170,762	224,446	276,118	308,092	280,362	298,515	377,629	
Cereals and meat of cereals	57,014	156,674	595,910	1,170,847	1,120,031	993,430	1,108,104	1,331,094	1,328,098	
Bread	76,893	27,010	97,046	176,249	227,497	275,289	314,489	378,059	452,076	
Biscuits, cake and other bakery products	218	2,647	11,819	8,962	18,834	19,567	25,364	39,931	52,956	
Meat	113,791	198,071	669,878	962,427	1,209,757	1,462,101	1,573,189	2,054,351	2,459,116	
Livestock	87,166	140,518	422,616	587,753	736,721	869,939	909,016	1,166,050	1,374,323	
Poultry	18,871	45,318	207,327	316,356	392,414	493,067	544,424	739,410	888,607	
Fish and shrimp	7,754	12,235	39,935	58,318	80,622	99,095	119,749	148,891	196,186	
Milk and milk products; eggs	61,011	103,610	377,753	527,220	653,986	712,450	818,337	936,647	1,078,530	
Milk	7,433	34,898	190,727	248,908	301,398	315,788	340,711	363,323	450,866	
Milk products	41,404	44,602	101,206	165,141	209,469	253,441	307,700	356,726	387,476	
Eggs	12,174	24,110	85,820	113,171	143,119	143,221	169,926	216,598	240,188	
Oil and fats	12,153	45,161	206,370	307,930	377,165	377,706	356,957	460,679	549,924	
Edible oils and fats of animal origin	6,454	9,793	15,349	14,592	16,706	16,112	18,033	27,286	40,614	
Vegetable oils	5,699	35,368	191,021	293,338	360,459	361,594	338,924	433,393	509,310	
Fruits and vegetables	38,155	110,465	403,607	651,224	780,379	941,878	972,046	1,301,293	1,560,185	
Fruits	14,556	47,422	150,569	219,347	278,934	345,191	368,037	505,200	612,550	
Vegetables	23,520	62,400	250,453	427,810	494,741	587,987	593,066	780,334	926,407	
Prepared fruits and vegetables for home consumption	79	643	2,585	4,067	6,704	8,700	10,943	15,759	21,228	
Nuts and dried fruits; pulses	11,995	39,071	125,064	192,127	276,100	319,673	307,240	396,436	468,755	
Nuts and dried fruits	4,774	15,260	59,510	92,504	109,013	122,068	103,124	160,467	235,511	
Pulses	7,221	23,811	65,554	99,623	167,087	197,605	204,116	235,969	233,244	
Sugar, confectionary; tea; coffee and cocoa	27,281	78,362	358,492	529,574	646,605	658,931	680,020	837,612	986,109	
Sugar	12,413	27,596	146,255	215,063	262,485	233,406	242,928	310,867	358,010	
Confectionary, honey and jam	3,449	18,215	57,147	89,309	119,111	142,645	148,898	212,201	276,788	
Tea, coffee and cocoa	11,419	32,551	155,090	225,202	265,009	282,880	288,194	314,544	351,311	
Spices, seasonings and pickles	2,823	14,631	70,552	126,329	145,587	164,892	207,559	247,820	275,194	
Spices	1,198	4,843	29,727	44,370	59,568	69,822	81,449	88,984	100,190	
Seasonings and pickles	1,625	9,788	40,825	81,959	86,019	95,070	126,110	158,836	175,004	
Beverages; prepared foods; tobacco	23,925	59,797	170,750	254,251	355,344	399,237	426,627	497,650	639,280	
Beverages	653	2,179	12,029	25,035	44,921	57,429	70,457	96,651	120,187	
Prepared foods	4,800	12,665	43,267	76,853	108,057	133,935	145,303	165,900	236,754	
Tobacco	18,472	44,953	115,454	152,363	202,366	207,873	210,867	235,099	282,339	

Source: Iran Statistical Year Book 1382, Statistical Centre of Iran, Department of Publication and Information.

ANNEX 25 AVERAGE ANNUAL INCOME OF AN URBAN/RURAL HOUSEHOLD BY SOURCES OF INCOME

	(Rial)					
Description	1,998	1,999	2,000	2,001	2,002	2,003
Urban	15,151,894	18,564,952	22,387,725	25,831,527	33,104,868	39,202,427
Income from wages	5,029,789	5,947,754	7,463,744	8,789,208	10,669,452	13,350,347
Public sector	3,081,538	3,393,897	4,448,359	5,103,931	5,833,646	7,009,087
Monetary	2,856,393	3,019,730	3,766,729	4,323,088	4,922,431	5,869,578
Non-monetary	225,145	374,167	681,630	780,843	911,215	1,139,509
Cooperative sector	65,378	36,086	23,980	47,828	90,442	62,877
Monetary	65,378	36,086	21,129	40,820	74,334	54,708
Non-monetary	0	0	2,851	7,008	16,108	8,169
Private sector	1,882,873	2,517,771	2,991,405	3,637,449	4,745,364	6,278,383
Monetary	1,841,501	2,360,962	2,712,015	3,321,244	4,347,767	5,709,585
Non-monetary	41,372	156,809	279,390	316,205	397,597	568,798
Income from self-employment	4,485,253	5,429,462	6,967,312	7,183,596	9,878,014	10,857,484
In agriculture	560,111	702,122	680,723	774,922	984,842	1,338,834
Monetary	510,775	648,544	641,243	731,194	945,348	1,265,220
Non-monetary	49,336	53,578	39,480	43,728	39,494	73,614
Other than agriculture	3,925,142	4,727,340	6,286,589	6,408,674	8,893,172	9,518,650
Monetary	3,832,916	4,602,892	6,163,412	6,283,045	8,759,850	9,319,380
Non-monetary	92,226	124,448	123,177	125,629	133,322	199,270
Miscellaneous income	5,636,852	7,187,736	7,956,669	9,858,723	12,557,402	14,994,596
Monetary	1,637,159	2,409,732	2,753,354	3,839,701	4,904,007	5,971,679
Non-monetary	3,999,693	4,778,004	5,203,315	6,019,022	7,653,395	9,022,917

	(Rial)					
Description	1,998	1,999	2,000	2,001	2,002	2,003
Rural	9,367,760	11,561,534	13,047,411	15,200,149	19,002,610	24,040,421
Income from wages	2,636,277	3,235,307	3,896,423	4,468,972	5,480,349	6,960,634
Public sector	939,464	1,153,432	14,122,034	1,635,145	1,861,493	2,255,722
Monetary	884,889	1,028,944	1,184,974	1,352,981	1,572,729	1,889,665
Non-monetary	54,575	124,488	227,060	282,164	288,764	366,057
Cooperative sector	43,173	14,505	21,255	27,241	37,136	54,808
Monetary	43,173	14,505	18,863	24,893	31,704	49,329
Non-monetary	0	0	2,392	2,348	5,432	5,479
Private sector	1,653,640	2,067,370	2,463,134	2,806,586	3,581,720	4,650,104
Monetary	1,628,952	1,987,852	2,323,989	2,658,697	3,405,097	4,403,850
Non-monetary	24,688	79,518	139,145	147,889	176,623	246,254
Income from self-employment	5,105,461	6,040,872	6,463,745	7,341,781	9,099,179	11,967,471
In agriculture	3,466,221	4,044,360	4,254,308	4,715,220	6,064,765	7,967,205
Monetary	2,674,342	3,300,613	3,581,485	3,972,258	5,235,313	7,146,055
Non-monetary	791,879	743,747	672,823	742,962	829,452	821,150
Other than agriculture	1,639,240	1,996,512	2,209,437	2,626,561	3,034,414	4,000,266
Monetary	1,564,983	1,913,439	2,117,276	2,507,288	2,895,246	3,850,476
Non-monetary	74,257	83,073	92,161	119,273	139,168	149,790
Miscellaneous income	1,626,022	2,285,355	2,687,243	3,389,396	4,423,082	5,112,316
Monetary	476,953	821,478	956,282	1,337,753	1,929,368	2,095,932
Non-monetary	1,149,069	1,463,877	1,730,961	2,051,643	2,493,714	3,016,384

Source: Iran Statistical Year Book 1382, Statistical Centre of Iran, Department of Publication and Information.

ANNEX 26 HOUSEHOLD INCOME AND EXPENDITURE

Sources / Expenditure Item	Income (Rials/HH per Annam)											
	1998		1999		2000		2001		2002		2003	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Income (by income Source)												
Income from wages	5,029,789	2,636,277	5,947,754	3,235,307	7,463,744	3,896,423	8,789,208	4,468,972	10,669,452	5,480,349	13,350,347	6,960,634
Public sector	3,081,538	939,464	3,393,897	1,153,432	4,448,359	14,122,034	5,103,931	1,635,145	5,833,646	1,861,493	7,009,087	2,255,722
Cooperative sector	65,378	43,173	36,086	14,505	23,980	21,255	47,828	27,241	90,442	37,136	62,877	54,808
Private sector	1,882,873	1,653,640	2,517,771	2,067,370	2,991,405	2,463,134	3,637,449	2,806,586	4,745,364	3,581,720	6,278,383	4,650,104
Income from self-employment	4,485,253	5,105,461	5,429,462	6,040,872	6,967,312	6,463,745	7,183,596	7,341,781	9,878,014	9,099,179	10,857,484	11,967,471
In agriculture	560,111	3,466,221	702,122	4,044,360	680,723	4,254,308	774,922	4,715,220	984,842	6,064,765	1,338,834	7,967,205
Other than agriculture	3,925,142	1,639,240	4,727,340	1,996,512	6,286,589	2,209,437	6,408,674	2,626,561	8,893,172	3,034,414	9,518,650	4,000,266
Miscellaneous income	5,636,852	1,626,022	7,187,736	2,285,355	7,956,669	2,687,243	9,858,723	3,389,396	12,557,402	4,423,082	14,994,596	5,112,316
Total	15,151,894	9,367,760	18,564,952	11,561,534	22,387,725	13,047,411	25,831,527	15,200,149	33,104,868	19,002,610	39,202,427	24,040,421
Expenditure (by Expenditure Item)												
Food	5,175,650	5,131,586	6,183,847	6,087,403	6,810,223	6,633,246	7,166,386	7,070,294	8,879,897	8,780,087	10,642,441	10,227,852
Cereals and cereal products	1,102,051	1,580,504	1,363,905	1,642,480	1,326,883	1,596,378	1,392,880	1,728,319	1,678,601	2,047,599	2,006,290	2,210,759
Meat	1,192,162	962,427	1,485,291	1,209,757	1,702,902	1,462,101	1,841,215	1,573,189	2,337,666	2,054,351	2,713,065	2,459,116
Milk and milk products; eggs	558,834	527,220	639,252	653,986	707,452	712,450	773,932	818,337	928,851	936,647	1,103,379	1,078,530
Oil and fats	261,987	307,930	281,532	377,165	273,179	377,706	265,710	356,957	330,894	460,679	441,087	549,924
Fruits and vegetables	791,716	651,224	893,934	780,379	1,090,205	941,878	1,098,308	972,046	1,483,650	1,301,293	1,810,030	1,560,185
Nuts and dried fruits; pulses	219,763	192,127	284,891	276,100	339,250	319,673	316,654	307,240	404,643	396,436	503,866	468,755
Sugar, confectionary; tea, coffee and cocoa	509,896	529,574	580,010	646,605	609,269	658,931	607,431	680,020	728,290	837,612	851,910	986,109
Spices, seasonings and pickles	148,164	126,329	170,377	145,587	195,088	164,892	225,489	207,559	276,140	247,820	316,802	275,194
Beverages; prepared foods;	391,077	254,251	484,655	355,344	565,995	399,237	644,767	426,627	711,162	497,650	896,012	639,280
Housing Cost and Others	11,493,993	5,672,250	14,519,039	7,549,868	17,365,090	9,040,015	20,853,964	10,162,598	26,090,764	12,614,868	30,346,842	15,448,182
Clothing and footwear	1,478,749	1,308,491	1,658,080	1,470,902	1,845,601	1,690,993	1,939,764	1,574,071	2,296,116	1,987,291	2,518,460	2,239,045
Housing	5,629,621	1,614,991	6,686,476	2,084,992	7,605,354	2,497,706	8,929,214	2,972,558	11,261,036	3,462,874	12,984,604	4,213,569
Furniture, furnishings, equipment and services	991,307	822,993	1,214,123	1,000,548	1,390,730	1,189,662	1,700,932	1,356,476	2,024,439	1,621,606	2,284,177	1,837,655
Medical care and health services	860,840	530,315	1,273,263	829,119	1,621,816	959,224	1,962,237	1,073,043	2,571,243	1,492,122	2,767,789	1,757,091
Transport and communications	1,322,764	623,754	1,815,727	884,047	2,341,937	1,040,391	2,974,866	1,234,303	3,924,287	1,714,909	4,889,255	2,477,913
Recreation, entertainment and cultural services	565,627	258,150	650,004	310,325	788,069	362,344	959,054	423,440	1,179,930	536,563	1,329,876	641,276
Miscellaneous personal goods and services	645,085	513,556	1,221,366	969,935	1,771,583	1,299,695	2,387,897	1,528,707	2,833,713	1,799,503	3,572,681	2,281,633
Total	16,669,643	10,803,836	20,702,886	13,637,271	24,175,313	15,673,261	28,020,350	17,232,892	34,970,661	21,394,955	40,989,283	25,676,034

Source: Iran Statistical Year Book 1382, Statistical Centre of Iran, Department of Publication and Information.

ANNEX 27 ESTIMATION OF ECONOMIC COST FOR GOLESTAN FOREST PARK DISASTER MANAGEMENT PLAN

Item	Total Cost	Disbursement							
		2007	2008	2009	2,010	2011	2012	2013	2014
Construction Cost	3,103	0	0	2,544	559	0	0	0	0
Flood Forecasting and Waning System	3,103	0	0	2,544	559	0	0	0	0
Land Acquisition Cost	0	0	0	0	0	0	0	0	0
Administration Cost	155	0	0	70	62	23	0	0	0
Engineering Cost	310	0	0	140	124	47	0	0	0
Physical Contingency	714	0	0	550	150	14	0	0	0
Financial Cost in Total	4,282	0	0	3,303	894	84	0	0	0
Economic Cost Converted	3,359	0	0	2,548	727	84	0	0	0

(Note)

Administration Cost: 5% of the Construction Cost.
 Engineering Cost: 10% of the Construction Cost.
 Physical Contingency: 20% of the whole cost from construction cost to engineering cost.
 Share Rate of Labor to Construction Cost: 40% to the Construction Cost.
 Standard Conversion Factor (SCF): 0.9071
 Income Tax for Labor: 10% According to Personal Income Law.
 Foreign Portion of Equipment: 80% of the equipment cost in total.
 Import Tax of equipment: 15% based on the similar project in developing countries (assumed).
 Value Added Tax (VAT): 10% for domestically procured equipment (assumed).
 Corporation Income Tax: 5% According to Corporation Income Law.
 Shadow Price of Land (Agricultural Area): 0.1806
 Shadow Wage Rate for Labor: 0.6526
 0.7845

ANNEX 28 CALCULATION OF ECONOMIC INTERNAL RATE OF RETURN (EIRR) FOR GOLESTAN FOREST PARK DISASTER MANAGEMENT PLAN (AT PRESENT ECONOMIC CONDITION)

(Million Rials)

Year in Order	Year in Christian Calender	Year in Iranian Calender	Cost for Golestan Forest Park Disaster Management Plan			Total Cost	Benefit	Cash Balance
			Direct Cost	OM Cost for Equipment				
				OM Cost for Equipment	Replace- ment Cost			
1	2005	1384	0	0	0	0	0	
2	2006	1385	0	0	0	0	0	
3	2007	1386	0	0	0	0	0	
4	2008	1387	0	0	0	0	0	
5	2009	1388	2,548	0	0	2,548	0	
6	2010	1389	727	0	0	727	0	
7	2011	1390	84	0	0	84	0	
8	2012	1391		198	0	198	669	
9	2013	1392		198	0	198	669	
10	2014	1393		198	0	198	669	
11	2015	1394		198	0	198	669	
12	2016	1395		198	0	198	669	
13	2017	1396		198	0	198	669	
14	2018	1397		198	0	198	669	
15	2019	1398		198	0	198	669	
16	2020	1399		198	0	198	669	
17	2021	1400		198	2,687	2,885	669	
18	2022	1401		198	0	198	669	
19	2023	1402		198	0	198	669	
20	2024	1403		198	0	198	669	
21	2025	1404		198	0	198	669	
22	2026	1405		198	0	198	669	
23	2027	1406		198	0	198	669	
24	2028	1407		198	0	198	669	
25	2029	1408		198	0	198	669	
26	2030	1409		198	0	198	669	
27	2031	1410		198	2,687	2,885	669	
28	2032	1411		198	0	198	669	
29	2033	1412		198	0	198	669	
30	2034	1413		198	0	198	669	
31	2035	1414		198	0	198	669	
32	2036	1415		198	0	198	669	
33	2037	1416		198	0	198	669	
34	2038	1417		198	0	198	669	
35	2039	1418		198	0	198	669	
36	2040	1419		198	0	198	669	
37	2041	1420		198	2,687	2,885	669	
38	2042	1421		198	0	198	669	
39	2043	1422		198	0	198	669	
40	2044	1423		198	0	198	669	
41	2045	1424		198	0	198	669	
42	2046	1425		198	0	198	669	
43	2047	1426		198	0	198	669	
44	2048	1427		198	0	198	669	
45	2049	1428		198	0	198	669	
46	2050	1429		198	0	198	669	
47	2051	1430		198	2,687	2,885	669	
48	2052	1431		198	0	198	669	
49	2053	1432		198	0	198	669	
50	2054	1433		198	0	198	669	
51	2055	1434		198	0	198	669	
52	2056	1435		198	0	198	669	
53	2057	1436		198	0	198	669	
54	2058	1437		198	0	198	669	
55	2059	1438		198	0	198	669	
56	2060	1439		198	0	198	669	
57	2061	1440		198	2,687	2,885	669	
Total			3,359			26,702	33,440	6,738
Accumulated Oresent Valu			2,036			3,902	3,403	-499

(Note) Applied Discount Rate at: 10%

NPV (B-C): 1,367

ANNEX 29 CALCULATION OF ECONOMIC INTERNAL RATE OF RETURN (EIRR) FOR GOLESTAN FOREST PARK DISASTER MANAGEMENT PLAN (AT 2025 YEAR ECONOMIC CONDITION)

(Million Rials)

Year in Order	Year in Christian Calender	Year in Iranian Calender	Cost for Golestan Forest Park Disaster Management Plan			Total Cost	Benefit	Cash Balance
			Direct Cost	OM Cost for Equipment				
				OM Cost for Equipment	Replacement Cost			
1	2005	1384	0	0	0	0	0	
2	2006	1385	0	0	0	0	0	
3	2007	1386	0	0	0	0	0	
4	2008	1387	0	0	0	0	0	
5	2009	1388	2,548	0	0	2,548	0	
6	2010	1389	727	0	0	727	0	
7	2011	1390	84	0	0	84	0	
8	2012	1391		198	0	198	669	
9	2013	1392		198	0	198	702	
10	2014	1393		198	0	198	737	
11	2015	1394		198	0	198	774	
12	2016	1395		198	0	198	813	
13	2017	1396		198	0	198	854	
14	2018	1397		198	0	198	896	
15	2019	1398		198	0	198	941	
16	2020	1399		198	0	198	988	
17	2021	1400		198	2,687	2,885	1,038	
18	2022	1401		198	0	198	1,089	
19	2023	1402		198	0	198	1,144	
20	2024	1403		198	0	198	1,201	
21	2025	1404		198	0	198	1,261	
22	2026	1405		198	0	198	1,261	
23	2027	1406		198	0	198	1,261	
24	2028	1407		198	0	198	1,261	
25	2029	1408		198	0	198	1,261	
26	2030	1409		198	0	198	1,261	
27	2031	1410		198	2,687	2,885	1,261	
28	2032	1411		198	0	198	1,261	
29	2033	1412		198	0	198	1,261	
30	2034	1413		198	0	198	1,261	
31	2035	1414		198	0	198	1,261	
32	2036	1415		198	0	198	1,261	
33	2037	1416		198	0	198	1,261	
34	2038	1417		198	0	198	1,261	
35	2039	1418		198	0	198	1,261	
36	2040	1419		198	0	198	1,261	
37	2041	1420		198	2,687	2,885	1,261	
38	2042	1421		198	0	198	1,261	
39	2043	1422		198	0	198	1,261	
40	2044	1423		198	0	198	1,261	
41	2045	1424		198	0	198	1,261	
42	2046	1425		198	0	198	1,261	
43	2047	1426		198	0	198	1,261	
44	2048	1427		198	0	198	1,261	
45	2049	1428		198	0	198	1,261	
46	2050	1429		198	0	198	1,261	
47	2051	1430		198	2,687	2,885	1,261	
48	2052	1431		198	0	198	1,261	
49	2053	1432		198	0	198	1,261	
50	2054	1433		198	0	198	1,261	
51	2055	1434		198	0	198	1,261	
52	2056	1435		198	0	198	1,261	
53	2057	1436		198	0	198	1,261	
54	2058	1437		198	0	198	1,261	
55	2059	1438		198	0	198	1,261	
56	2060	1439		198	0	198	1,261	
57	2061	1440		198	2,687	2,885	1,261	
Total			3,359			26,702	58,508	31,806
Accumulated Oresent Valu			2,036			3,902	4,934	1,033
Increasing Rate of Visitors:			5%		/annum			
Applied Discount Rate at:			10%					

ANNEX 30 BASIC DATA/INFORMATION FOR ESTIMATION OF 2001-FLOOD DAMAGES TERJENLI VILLAGE

II] Damages to Houses and Movables

1. Total number of Households:	300 HHs	4. Construction cost if it is newly constructed:	1,000,000 Rials/m ²
2. Average floor area of house:	80 m ²	5. Construction cost in total:	80,000,000 Rials/house
3. Number of houses destroyed:	240 houses	6. Damaged amount in total:	19,200,000,000 Rials
		7. Average area of garden:	200 m ²

8. Movables:

Personal Movables	Number of Movables in Total					
	Television	Radio	Refrigerator	Carpet	Closet	Oven/Cooking Heater
	1	1	1	1 set	1	1
Price/unit	2,000,000	500,000	2,000,000	1,500,000	2,000,000	1,500,000

Land Value and Damages in Residential Area

Damage Rate:	80% (=270/325)
Residential Area:	590,000 m ² = 59 ha
Land Value in Residential Area:	1,231,712 1,000 Rials/ha
Damages to Houses and Movables: (Incl. Livestocks)	985,369 1,000 Rials/ha

Land Value and Damages in Agricultural Area

Damage Rate in Irrigated Area:	80% (according to the site information)
Damage Rate in Non-Irrigated Area:	20% (according to the site information)
Irrigated Area:	310 ha
Non-Irrigated Area:	1,500 ha
Land Value of Irrigated Area:	13,000 1,000 Rials/ha
Damages to Irrigated Area:	10,400 1,000 Rials/ha
Land Value of Non-Irrigated Area:	0 1,000 Rials/ha
Damages to Non-Irrigated Area:	0 1,000 Rials/ha

7. Goods and Equipment

Belonging to:	Number of Goods and Equipment in Total					
	Tractor	Motor Cycle	Bicycle	Agricultural Goods and Tools (5% of the others)	Pick-up Car or Van Type Car	Other Type of Vehicles
Personal	19	70	60	Uncountable	5	2 Tracks
Village				x		
Price/unit	40,000,000	3,000,000	250,000	96,750,000	40,000,000	75,000,000

Other Agricultural Tools and Equipment (5 % of the above):

III] Agricultural Products Cereal/Grain and Others

Products	Cultivated area (ha)	Harvested area (ha)	Production volume (tons/ha)	farm Gate Price (Rials/kg)	Income Due to Sell (Rials/ annum)	Farmers' Cost				
						Labor (Rials/ha)	Seed (Rials/ha)	Fertilizer (Rials/ha)	Irrigation water (Rials/ha)	Others (Rials/ha)
Irrigated Area										
Wheat	200	400	2.00	1,980	792,000,000	333,000	750,000	180,000	20,000	50,000
Soya Beans	100	100	2.00	2,600	520,000,000		200,000	70,000	500,000	
					Annual Income in Total:	1,312,000,000				
Non-Irrigated Area										
					Annual Income in Total:	0				

(Note)

- (1) Labor for taking irrigation water is required Rials 1,000,000 per 3 ha.
- (2) Fertilizer is needed at 300 kg per ha.
- (3) Others includes an agricultural chemical as pesticide.

Damages to Livestocks

Damage Rate in Range Land:	30% (according to the site information)
Area of Range Land:	1500 ha
Land Value of Range Land:	502 1,000 Rials/ha
Damages to Range Land incl. Livestock:	150 1,000 Rials/ha

Vegetable Non to sell.

Flower

Products	Cultivated area (ha)	Harvested area (ha)	Production volume (tons/ha)	farm Gate Price (Rials/kg)	Income Due to Sell (Rials/ annum)	Farmers' Cost				
						Labor (Rials/ha)	Seed (Rials/ha)	Fertilizer (Rials/ha)	Irrigation water (Rials/ha)	Others (Rials/ha)
Irrigated Area										
Sun Flower	10	400	1.00	3,000	30,000,000		250,000	70,000 ⁽¹⁾		
					Annual Income in Total:	30,000,000				
Non-Irrigated Area										
					Annual Income in Total:	0				

(Note)

- (1) Labor for taking irrigation water is required Rials 150,000 per ha.

Fruits/Trees Before 2001-flood/debris flow.

Products	Cultivated area (ha)	Harvested area (ha)	Production volume (tons/ha)	farm Gate Price (Rials/kg)	Income Due to Sell (Rials/ annum)	Farmers' Cost				
						Labor (Rials/ha)	Seed (Rials/ha)	Fertilizer (Rials/ha)	Irrigation water (Rials/ha)	Others (Rials/ha)
Irrigated Area										
Olive	40	40	560.00	120	2,688,000,000					
					Annual Income in Total:	2,688,000,000				