

**MINISTRY OF WATER RESOURCES AND IRRIGATION  
ARAB REPUBLIC OF EGYPT**

**THE PREPARATORY SURVEY  
FOR  
THE REHABILITATION AND  
IMPROVEMENT  
OF  
DIROUT GROUP OF REGULATORS  
IN  
THE ARAB REPUBLIC OF EGYPT**

**APPENDIX  
( MINOR STRUCTURES )**

OCTOBER, 2010

**JAPAN INTERNATIONAL COOPERATION AGENCY**

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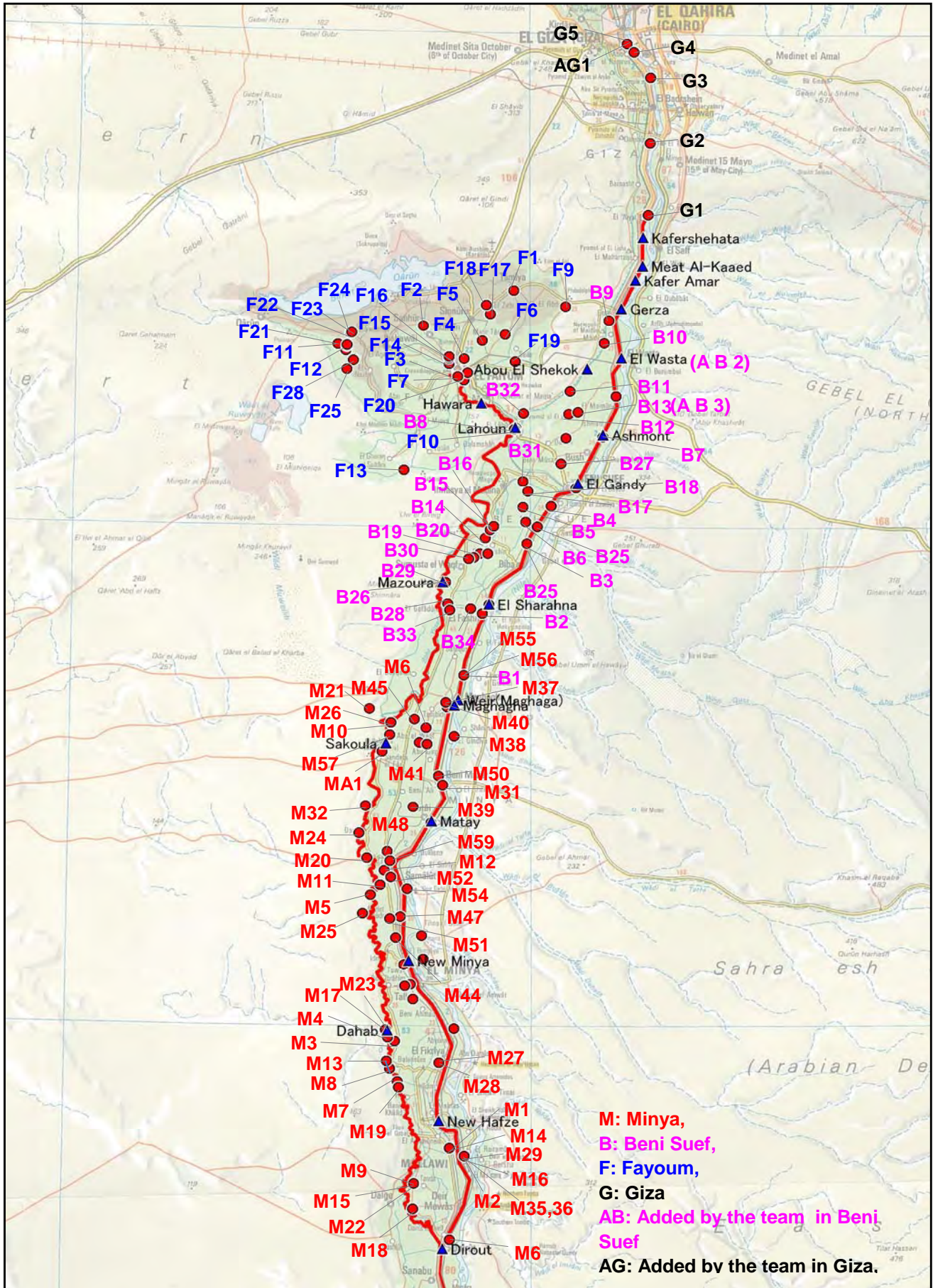
**SANYU CONSULTANTS INC.**

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# Minor Structures Location Map



# Comprehensive Evaluation by Consultant

**Type of the Minor Structure** (site No.)

	Giza	Fayoum	Beni-Suef	Minya	Total
Intake	2	2	11	31	46
Regulator	4	2	1	14	21
Tail escape	0	0	9	5	14
Culvert	0	1	1	0	2
Siphon	0	0	5	1	6
Aqueduct	0	0	3	0	3
Bridge	0	1	2	6	9
Weir	0	19	1	0	20
Pipe line	0	0	3	0	3
Pump station	0	0	1	3	4
Total	6	25	37	60	128

**The result of evaluation for the implementation term** (site No.)

	Giza	Fayoum	Beni-Suef	Minya	Total
Within 5yrs	4	19	26	54	103
Within 10yrs	1	4	6	4	15
Within 20yrs	1	2	5	2	10
Total	6	25	37	60	128

**The evaluation of the cost for suitable works** (LE)

	Giza	Fayoum	Beni-Suef	Minya	Total
Within 5yrs	13,860,000	20,788,000	9,147,000	15,345,700	59,140,700
Within 10yrs	105,000	1,470,000	192,000	283,000	2,050,000
Within 20yrs	53,000	206,000	368,000	0	627,000
Total	14,018,000	22,464,000	9,707,000	15,628,700	61,817,700

**The cause of the deterioration and trouble on Minor structure** (site No.)

	Giza	Fayoum	Beni-Suef	Minya	Total
Water Level shortage	0	0	2	3	5
Water Discharge small	0	19	12	34	65
Sedimentation	0	0	6	9	15
Garbage around the structure	4	0	13	20	37
Weathering Structure	2	20	27	46	95
Crack or Scouring of Structure	2	18	15	31	66
Settling of struc. or facili.	0	1	0	0	1
Damage on the machine	4	1	14	31	50

**The cause of the deterioration and trouble on Minor structure needed the suitable works within 5 yrs** (site No.)

	Giza	Fayoum	Beni-Suef	Minya	Total
Water Level	0	0	2	3	5
Watre Discharge	0	18	12	34	64
Sedimentation	0	0	1	0	1
Garbage around the structure	0	0	2	3	5
Weathering Structure	2	19	22	44	87
Crack or Scouring of Structure	2	16	15	31	64
Settling	0	1	0	0	1
Damage on the machine	4	1	14	31	50



Evaluation of the Minor Structure : Comparison Table between RGBS and Consultant

Area No.	Name	Canal	Type	Con. Yr.	Common d area	Max dis. (m <sup>3</sup> /s)	Evaluation by RGBS		Evaluation by Consultant				Entire cost/(LE)						
							Necessary works	Cost (LE)	Term of works (LE)	Recommendation	Cost for works (LE)	Geogra.		Geologi.	Mea- surement	Discharge volume	Strength test	Other test or survey	Cost for survey (LE)
F9	El seb intake	El Elaam	Regulator	1927- 1930	6.811	2.36	Replace the all structure	1,500,000	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction of the structure. replace the gate and protection work at downstream of the structure.	300,000	within 5yrs	•	•	•	•	•	•	15,000	315,000
F10	Hawara intake	Yousef	Intake	1927- 1930	1.448	7.65	Replace the all structure	1,000,000	The structure has been damaged on surface. Those damage will be dealt by rehabilitation. Need the rehabilitation of the structure (The new pump station near site. This pump will be worked instead of this intake)	200,000	within 5yrs	•	•	•	•	•	•	6,000	206,000
F11	El msrk nastba	El nazla	Weir	1927	15.154	5.26	Replace the all structure	3,000,000	The structure has been damaged by weathering and difficulty of the fair water distribution. It is afraid of the scouring at downstream. Need the reconstruction and protection work at downstream of the structure.	500,000	within 5yrs	•	•	•	•	•	•	25,000	525,000
F12	El hmerim nastba	El msrk nastba	Weir	1927	6.225	2.16	Replace the all structure	500,000	The structure has been damaged by weathering and difficulty of the fair water distribution. It is afraid of the scouring at downstream. Need the reconstruction and protection work at downstream of the structure.	500,000	within 5yrs	•	•	•	•	•	•	25,000	525,000
F13	TALET nastba	El Ghark	Weir	-----	14.808	5.14	Replace the all structure	5,000,000	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent	500,000	within 5yrs	•	•	•	•	•	•	25,000	525,000
F14	Abd El hmerim weir	ZAWEA	Weir	1927	14.393	5.00	Replace the all structure	1,500,000	The structure has been damaged on surface. Those damage will be dealt by rehabilitation. It is afraid of the scouring at downstream. Need the rehabilitation and protection work at downstream of the structure.	500,000	within 10yrs	•	•	•	•	•	•	25,000	525,000
F15	nakeila intake	ZAWEA	Weir	1927	10.844	3.76	Replace the all structure	500,000	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent	500,000	within 5yrs	•	•	•	•	•	•	25,000	525,000
F16	Farah weir	ZAWEA	BRIDGE	1927-1930	1.924	0.67	Replace the all structure	500,000	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent	500,000	within 5yrs	•	•	•	•	•	•	25,000	525,000
F17	elkharg intake	El masra	Weir	1927-1930	4.452	1.55	Replace the all structure	300,000	The structure has been damaged on surface. Those damage will be dealt by rehabilitation. Need the rehabilitation of the structure	100,000	within 10yrs	•	•	•	•	•	•	5,000	105,000
F18	End of elkharg nastba	Elkharg	Weir	1927-1930	4.436	1.54	Replace the all structure	700,000	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent	300,000	within 5yrs	•	•	•	•	•	•	15,000	315,000
F19	Sella nastba	Sella atomomy	Weir	1927-1930	8.659	3.00	Replace the all structure	5,000,000	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent	750,000	within 5yrs	•	•	•	•	•	•	38,000	788,000
F20	Tanhia intake	Tanhia	Intake	1927- 1930	22.020	7.64	Replace the all structure	5,000,000	It is difficult to do daily cleaning works. Need to install the mechanical Trash rack or other way	200,000	within 20yrs	•	•	•	•	•	•	6,000	206,000
F21	Esmail abd el lateef weir	nazla	Weir	1927-1930	5.947	2.07	Replace the all structure	500,000	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent	250,000	within 5yrs	•	•	•	•	•	•	13,000	263,000
F22	Hassan afndy weir	nazla	Weir	1927-1930	5.344	1.86	Replace the all structure	500,000	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent	250,000	within 5yrs	•	•	•	•	•	•	13,000	263,000

Remarks : Gray hatting is shown the different evaluation between RGBS and Consultant

Evaluation of the Minor Structure : Comparison Table between RGBS and Consultant

Area	No.	Name	Canal	Type	Con. Yr.	Common d area (m <sup>2</sup> /s)	Evaluation by RGBS		Evaluation by Consultant					Entire cost (LE)					
							Max dis. (m <sup>3</sup> /s)	Necessary works	Cost (LE)	Recommendation	Cost for works (LE)	Term of works	Geogra.		Geologi.	Mea- surement	Discharge volume	Strength test	Other test or survey
	F23	rawashda weir nazla		Weir	1927-1930	3,300	1.15	Replace the all structure	500,000	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent	250,000	within 5yrs	●	●	●	●	13,000	263,000	
	F24	mezar nazla		Weir	1927-1930	2,762	0.96	Replace the all structure	300,000	No problem. Because this structure had already reconstructed	0	within 20yrs	-----	-----	-----	-----	-----	0	0
	F25	Soleman nazla		Weir	1927-1930	20,637	7.16	Replace the all structure	1,000,000	The structure has been damaged on surface. Those damage will be dealt by rehabilitation. It is afraid of the scouring at downstream. Need the rehabilitation and protection work at downstream of the structure.	300,000	within 10yrs	●	●	●	●	15,000	315,000	
Beni-Suef	B1	ALFANT	ALFANT canal	Intake	1972	7,000	3.50	Replace the intake	1,500,000	At downstream, 500m, from the intake, many garbage prevent fair water. Need to remove the garbage urgently.	300,000	within 5 yrs*	-----	-----	-----	-----	0	30,000	
	B2	ELSHARAHN AELKABLIA		Intake	1965	1,000	1.00	Rehabilitation. Add the pipes to lake more water	100,000	At downstream, 100m, from the intake, many garbage prevent fair water. Need to remove the garbage urgently.	30,000	within 5 yrs*	-----	-----	-----	-----	0	30,000	
	B3	Elmagroba elgriba		Intake	1960	2,888	1.60	Rehabilitation. Add the pipes to lake more water	100,000	The structure has few damage. Need the maintenance of the gate	30,000	within 20yrs	-----	-----	-----	-----	0	30,000	
	B4	ELSAHARA	Elmagroba elgriba	Intake	1953	6,190	3.50	Rehabilitation. Add the pipes to lake more water	70,000	The structure has been damaged heavily by Weathering. Need the reconstruction and recommend to support into the pipe.	300,000	within 5yrs	●	●	●	●	9,000	309,000	
	B5	KELA	KELA canal	Intake	1935	20,000	6.50	Replace the intake	200,000	The structure has been damaged and the gates can not work at all. Need the reconstruction and replace the gates.	700,000	within 5yrs	●	●	●	●	21,000	721,000	
	B6	Amar AELKABLIA		Intake	-----	1,500	0.87	Rehabilitation	200,000	The structure has been damaged and the gates can not work at all. Need the reconstruction and replace the gate.	300,000	within 5yrs	●	●	●	●	9,000	309,000	
	B7	Asment AELKABLIA		Intake	1950	4,720	2.73	Rehabilitation	100,000	The geographical survey at surround area and measurement in more detail of the structure	300,000	within 5yrs	●	●	●	●	9,000	309,000	
	B8	HAGR ALAHON	HAGR ALAHON	Intake	1965	4,720	2.10	Replace the intake	100,000	The geographical survey at surround area and measurement in more detail of the structure	300,000	within 5yrs	●	●	●	●	9,000	309,000	
	B9	MOMTEZ CANAL		Intake	1970	1,073	0.60	Replace the intake	110,000	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the intake and replace the gate.	300,000	within 5yrs	●	●	●	●	9,000	309,000	
	B10	ELATHAR	ELATHAR intake	Intake	1970	815	0.44	Replace the intake	150,000	Measurement in more detail of the gate	50,000	within 10yrs	●	●	●	●	1,000	51,000	
	B11	ABWED		Intake	-----	1,400	0.81	Replace the intake	110,000	The structure has been damaged and the gates can not work suitable. This intake has severe problem to fair water. Need the reconstruction of the intake to take into consideration of the locion.	110,000	within 5yrs	●	●	●	●	6,000	116,000	
	B12	ALI HAFEZ		Tail escape	1965	4,900	2.80	Reconstruction	25,000	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the structure and replace the gate.	25,000	within 5yrs	●	●	●	●	1,000	26,000	
	B13	DALAS WEST		Tail escape	1965	2,300	1.33	Reconstruction	25,000	The gate is not so bad. Need the some rehabilitation and maintenance of the gate.	25,000	within 20yrs	-----	-----	-----	-----	0	25,000	

Remarks : Gray hatting is shown the different evaluation between RGBS and Consultant



Evaluation of the Minor Structure : Comparison Table between RGBS and Consultant

(4/9)

Area	No.	Name	Canal	Type	Con. Yr.	Common area (m <sup>2</sup> /s)	Max dis. (m <sup>3</sup> /s)	Evaluation by RGBS		Evaluation by Consultant															
								Necessary works	Cost (LE)	Evolution of the structure and necessary works	Recommendation	Cost for works (LE)	Term of works	Geogra.	Geologi.	Measurement	Discharge volume	Strength test	Other test or survey	Cost for survey (LE)	Entire cost(LE)				
	B14	SOLTANE (3)	SOLTANE (3)	Tail escape	1965	214	0.60	Reconstruction	25,000	The structure is not so bad. Need the some rehabilitation and removal of the weeds at upstream.	Recommend the some rehabilitation and removal of the weeds at upstream.	5,000	within 20yrs											0	5,000
	B15	SOLTANE (4)	SOLTANE (4)	Tail escape	1975	150	0.60	Reconstruction	25,000	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the structure and replace the gate.	Recommend the reconstruction of the structure and replace the gate.	25,000	within 5yrs	●										1,000	26,000
	B16	SOLTANE (5)	SOLTANE (5)	Tail escape	1964	147	0.60	Reconstruction	25,000	The structure has been expired almost. According to the hearing at site, there is no problem	Recommend the removal of the garbage at end of pipe.	5,000	within 20yrs											0	5,000
	B17	SOLTANE (6)	SOLTANE (6)	Tail escape	1970	520	0.70	Reconstruction	25,000	The structure on surface has been damaged by weathering however these damage dose not seem fatal. Need the some rehabilitation and replace the gate.	Recommend the some rehabilitation and replace the gate.	10,000	within 10yrs	●										0	10,000
	B18	SOLTANE (7)	SOLTANE (7)	Tail escape	1970	230	0.70	Reconstruction	25,000	The structure on surface has been damaged by weathering however these damage dose not seem fatal. Need the some rehabilitation and replace the gate.	Recommend the some rehabilitation and replace the gate.	10,000	within 10yrs	●										0	10,000
	B19	AL-ASKRA	AL-ASKRA	Tail escape	1980	3,000	1.74	Reconstruction	25,000	The structure has been damaged. According to the hearing, the water has not been reached up tail escape, however, there is no problem. Need the some rehabilitation for the structure.	Recommend the some rehabilitation.	10,000	within 10yrs											0	10,000
	B20	ALSHAMSHERGE	ALSHAMSHERGE	Tail escape	1970	2,760	1.70	Reconstruction	25,000	The structure has been damaged. According to the hearing, the water has not been reached up tail escape, however, there is no problem. Need the some rehabilitation and remove the weeds.	Recommend the some rehabilitation and remove the weeds.	10,000	within 10yrs											0	10,000
	B21	Oela canal	Oela canal	Bridge	1965	12,000	7.00	Reconstruction	250,000	The surface of the structure has been damaged by Weathering. However, these damage does not seem fatal damage. Need more some test to check the current strength of the brick	Recommend to study more or test to check current status.	500,000	within 5yrs	●										25,000	525,000
	B22	AZIT bridge	Oela canal	Bridge	1950	11,500	6.50	Reconstruction	250,000	The structure has been damaged by Weathering. Especially there are cracks to be cared on the abut pier. Need the reconstruction.	Recommend the reconstruction	500,000	within 5yrs	●										15,000	515,000
	B23	AHMED BASA	AHMED BASA	Pipe line	1995	5,000	3.50	Reconstruction	500,000	The structure has been damaged by Weathering. Especially there are much garbage to prevent the fairis water. Need to replace the pipe to more wide and remove the garbage.	Recommend the replace the pipe to more wide and remove the garbage.	300,000	within 5yrs	●										3,000	303,000
	B24	Fr ee alkasi	Fr ee alkasi	Pipe line	1998	800	0.60	Reconstruction	1,000,000	The structure has been damaged and the gates can not work suitable. Need the reconstruction and replace the gate.	Recommend the reconstruction and replace the gate.	300,000	within 5yrs	●										9,000	309,000
	B25	MASRT	MASRT	Aqueduct	1960	350	0.50	Reconstruction	250,000	The structure has been damaged. Need the reconstruction of the intake and remove the weed and sedimentation in front of the intake.	Recommend the reconstruction of the intake and remove the weed and sedimentation in front of the intake.	250,000	within 5yrs	●										8,000	258,000
	B26	TLAT canal	TLAT canal	Aqueduct	1960	4,580	2.65	Reconstruction	500,000	They want to change to the Aqueduct for the difficulty of the supply water.	Recommend the construction as the aqueduct.	500,000	within 5yrs	●										25,000	525,000
	B27	ALI HAFZ	ALI HAFZ	Aqueduct	1960	5,000	2.89	Reconstruction	500,000	The structure has been damaged by Weathering. Need the reconstruction of the structure and replace the steel pipe.	Recommend the reconstruction of the structure and replace the steel pipe.	1,000,000	within 5yrs	●										30,000	1,030,000

Remarks : Gray hatting is shown the different evaluation between RGBS and Consultant

Evaluation of the Minor Structure : Comparison Table between RGBS and Consultant

(5/9)

Area	No.	Name	Canal	Type	Con. Yr.	Command area (m <sup>2</sup> /s)	Max dis. (m <sup>3</sup> /s)	Evaluation by RGBS		Evaluation by Consultant									
								Necessary works	Cost (LE)	Recommendation	Cost for works (LE)	Term of works	Geogra.	Geologi.	Mea- surement	Discharge volume	Strength test	Other test or survey	Cost for survey (LE)
B28	ABO SHOSHE K0.8	ABO SHOSHE	Siphon	1960	5,000	2.89	Reconstruction	500,000	The structure has been damaged by Weathering. Need the reconstruction of the structure, replace the steel pipe and the protection works on the pipe at across the canal.	500,000	within 5yrs	•	•	•	•	•	•	15,000	515,000
B29	ABO SHOSHE K1.5	ABO SHOSHE	Siphon	1960	5,000	2.89	Reconstruction	500,000	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the structure and the protection works on the pipe at across the canal.	500,000	within 5yrs	•	•	•	•	•	•	15,000	515,000
B30	Stleem Siphon	ABO SHOSHE	Siphon	1960	3,000	2.50	Reconstruction	250,000	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the structure and the protection works on the pipe at across the canal.	250,000	within 5yrs	•	•	•	•	•	•	8,000	258,000
B31	GOHR K15	OLA	Cuvert	1969	11,500	6.50	Reconstruction	250,000	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the structure and the protection works on the pipe at across the canal.	250,000	within 5yrs	•	•	•	•	•	•	8,000	258,000
B32	ALBEN K3	ALLAHON	Siphon	1962	800	0.60	Reconstruction	500,000	The structure has been damaged on surface. Those damage has been not fatal damage. Need the rehabilitation of the structure and the protection works on the pipe at across the canal.	100,000	within 10yrs	•	•	•	•	•	•	1,000	101,000
B33	BNI SAUH K3	ABOSHOSHA	Siphon	1968	800	4.60	Reconstruction	500,000	The surface of the structure been damaged by Weathering. However, these damage does not seem fatal damage. Need more some test to check the current strength of the brick	500,000	within 5yrs	•	•	•	•	•	•	25,000	525,000
B34	ALSH HIHA	ABOSHOSHA K2.8	Pipe line	1958	800	4.60	Reconstruction	500,000	The structure of the intake has been damaged by Weathering. Need the reconstruction of the intake and preferable install the gate in front of the intake.	300,000	within 5yrs	•	•	•	•	•	•	9,000	309,000
B35	Hear bin funder	Ibrahimia canal	Weir	1940	11,520	4.00	Reconstruction	300,000	The structure is not so bad. The district engineer request to be low crest level of the weir for the water shortage in the future.	300,000	within 20yrs	•	•	•	•	•	•	3,000	303,000
AB1	DALAS West Pump station	DALAS West Canal	Pump station	1998	2,300	9.00	.....	.....	One of three pumps is expired. Need to install the new one and rehabilitation of pipe at saction side and steel stage.	500,000	within 5yrs	•	•	•	•	•	•	5,000	505,000
AB2	Wasela Regulator	Ibrahimia canal	Regulator	1989	38,000	0.17	.....	.....	The surface of the gate has been damaged. There are the hole and rust on the surface of the gate. Need to replace the gate.	300,000	within 5yrs	•	•	•	•	•	•	3,000	303,000
Minya M1	Al Ashmonin canal	Al Dairiyya canal	Intake	1920	9,225	4.06	Reconstruction	350,000	The structure has been damaged by weathering and deterioration. The gate can not work suitable by failure and deterioration. Need the reconstruction and replace the gates.	1,000,000	within 5yrs	•	•	•	•	•	•	50,000	1,050,000
M2	Al Desa canal	Al Sahliya canal	Intake	1918	2,575	1.13	Reconstruction	200,000	The structure and gate has been damaged by weathering and deterioration. The much garbage prevet the fair water. Need the reconstruction and replace the gates.	500,000	within 5yrs	•	•	•	•	•	•	25,000	525,000
M3	Sery Branch	Sery Canal at Km 27.525	Intake	1930	300	0.13	Rehabilitation	150,000	The structure has been damaged by weathering and deterioration. The gate can not work suitable by deterioration. Need the reconstruction and replace the gates.	200,000	within 5yrs	•	•	•	•	•	•	6,000	206,000

Remarks : Gray hatting is shown the different evaluation between RGBS and Consultant



Evaluation of the Minor Structure : Comparison Table between RGBS and Consultant

Area	No.	Name	Canal	Type	Con. Yr.	Common d area (m <sup>2</sup> /s)	Max dis. (m <sup>3</sup> /s)	Evaluation by RGBS		Evaluation by Consultant									
								Necessary works	Cost (LE)	Term of works (LE)	Recommendation	Cost for works (LE)	Geogra.	Geologi.	Mea- surement	Discharge volume	Strength test	Other test or survey	Cost for survey (LE)
	M17	Mabrout Intake	Bahr yosef canal km (75.475)	Intake	1902	2,000	0.88	Rehabilitation	300,000	400,000	within 5yrs	●	●	●	●	●	●	12,000	412,000
	M18	Mahmoud canal	Al Badraman canal at km 12,100	Intake	1917	880	0.39	Reconstruction	200,000	100,000	within 10yrs	●	●	●	●	●	●	1,000	101,000
	M19	Moussa	Bahr yosef at km 28,460	Intake	1990	300	0.13	Rehabilitation	300,000	0	within 20yrs	●	●	●	●	●	●	0	0
	M20	Nasser Feeder	Dahab canal	Intake	1936	250	0.11	Reconstruction	250,000	100,000	within 5yrs	●	●	●	●	●	●	1,000	101,000
	M21	North Bahassa	Bahr yosef - sabaa canal	Intake	1980	2,100	0.92	Reconstruction	450,000	450,000	within 5yrs	●	●	●	●	●	●	5,000	455,000
	M22	Om El Kousour canal	Al Badraman canal	Intake	1919	1,395	0.61	Reconstruction	200,000	300,000	within 5yrs	●	●	●	●	●	●	9,000	309,000
	M23	Rahel Intake	Dahab canal km (0.4)	Intake	1902	5,500	2.42	Rehabilitation	300,000	300,000	within 5yrs	●	●	●	●	●	●	9,000	309,000
	M24	Saket Dakouf	Dahab canal km (49.75)	Intake	1910	2,280	1.00	Reconstruction	190,000	50,000	within 10yrs	●	●	●	●	●	●	1,000	51,000
	M25	Ishir Intake	Dawood main canal	Intake	1908	200	0.09	Reconstruction	300,000	100,000	within 5yrs	●	●	●	●	●	●	1,000	101,000
	M26	Tambo Intake	Ebrahemis canal / sery canal at km 106.350	Intake	1970	400	0.18	Rehabilitation	100,000	500,000	within 5yrs	●	●	●	●	●	●	25,000	525,000
	M27	The Left Dairayia canal	The west hafize canal at km 14,700	Intake	1922	2,000	0.88	Reconstruction	250,000	300,000	within 5yrs	●	●	●	●	●	●	15,000	315,000
	M28	The Right Dairayia canal	The west hafize canal	Intake	1922	750	0.33	Reconstruction	250,000	300,000	within 5yrs	●	●	●	●	●	●	15,000	315,000
	M29	The West Rayamon canal	Al Sahliya canal	Intake	1918	1,750	0.77	Reconstruction	200,000	100,000	within 10yrs	●	●	●	●	●	●	1,000	101,000
	M30	East Desout	Desout / Ebrahemeyia	Regulator	.....	1,200	0.53	Reconstruction	200,000	200,000	within 5yrs	●	●	●	●	●	●	10,000	210,000

Remarks : Gray hatting is shown the different evaluation between RGBS and Consultant

Evaluation of the Minor Structure : Comparison Table between RGBS and Consultant

Area	No.	Name	Canal	Type	Con. Yr.	Common d area	Max dis. (m <sup>2</sup> /s)	Evaluation by RGBS		Evaluation by Consultant									
								Necessary works	Cost (LE)	Cost for works (LE)	Recommendation	Evolution of the structure and necessary works	Term of works	Geogra.	Geologi.	Mea- surement	Discharge volume	Strength test	Other test or survey
M31	Bardakh Bani Mazar	Ebraheemeyya	Intake	1970	1,400	0.62	Reconstruction	150,000	100,000	Recommend the rehabilitation of the structure and replace of the gate.	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate has been damaged and can not work suitable by failure. Need the rehabilitation of the structure and replace of the gate.	within 5yrs						1,000	101,000
M32	Abu Hashima	Menshal AdDahab	Regulator	1904	3,700	1.63	Reconstruction	400	3,700	Recommend the reconstruction at front of the intake and preferable replace the gate at same time.	The structure has been damaged by weathering, however these damage seem at surround the gate. The gate has not been so damaged. Need the reconstruction at front of the intake and preferable replace the gate at same time.	within 5yrs						0	3,700
M33	Al Badraman	Al Manekly regulator	Regulator	1919	1,930	0.85	Reconstruction	200,000	300,000	Recommend the reconstruction and replace of the gate.	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction and replace of the gate.	within 5yrs						9,000	309,000
M34	Al Sahala	The East hafeze canal	Regulator	1912	2,200	0.97	New construction	250,000	350,000	Recommend the reconstruction with changing to the suitable vent and preferable replace of the gate at same time.	The structure has been damaged, additionally, has the trouble of the fair water distribution, due to the narrow vents. The gate has not been so damaged. Need the reconstruction with changing to the suitable vent and	within 5yrs						11,000	361,000
M35	Al Sahliya	Al Sahliya canal	Regulator	1918	3,224	1.42	Reconstruction	250,000	500,000	Recommend the reconstruction and replace of the gate.	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction and replace of the gate.	within 5yrs						25,000	525,000
M36	Al Takheef Drain	Al Sahliya canal	Regulator	1918	5,000	2.20	Reconstruction	300,000	500,000	Recommend the reconstruction and replace of the gate.	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction and replace of the gate.	within 5yrs						25,000	525,000
M37	Ban Al Alam Branch	Ebraheemeyya	Regulator	1950	1,000	0.44	Rehabilitation	150,000	150,000	Recommend the reconstruction and replace of the gate	The structure has been damaged by weathering and deterioration. The gate can not work at all by the failure and deterioration. Need the reconstruction and replace of the gate	within 5yrs						5,000	155,000
M38	East Aba Canal	Ebraheemeyya	Regulator	1975	2,500	1.10	Rehabilitation	200,000	200,000	Recommend the reconstruction (preferable design more low level at top of guide ) and replace of the gate.	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction (preferable design more low level at top of guide ) and replace of the gate.	within 5yrs						6,000	206,000
M39	Abu Hasbia Canal	Ebraheemeyya	Intake	1950	600	0.26	Reconstruction	500,000	1,000,000	Recommend the reconstruction at front of the intake and replace the gate. Preferable support inner of pipe	The structure has been damaged by weathering, however these damage seem at surround the gate. The gate can not work suitable by rust. Need the reconstruction at front of the intake and replace the gate. Preferable support inner of pipe	within 5yrs						30,000	1,030,000
M40	Al Gendeyya Canal	Ebraheemeyya Canal	Regulator	1950	1,000	0.44	Rehabilitation	150,000	300,000	Recommend the reconstruction (should be check the level of the intake) and replace of the gate.	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction (should be check the level of the intake) and replace of the gate.	within 5yrs						15,000	315,000
M41	South Dawweesh Canal	Ebraheemeyya Canal	Regulator		500	0.22	Reconstruction	200,000	50,000	Recommend the rehabilitation of the structure and maintenance of the gate.	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate has not been so damaged. Need the rehabilitation of the structure and maintenance of the gate.	within 5yrs						2,000	52,000
M42	Sawaida Canal	River Nile	Regulator	1990	10,000	4.40	Reconstruction	250,000	250,000	Recommend the reconstruction at front of the intake and preferable replace the gate at same time.	The structure has been damaged by weathering, however these damage seem at surround the gate. The gate has not been so damaged. Need the reconstruction at front of the intake and preferable replace the gate at same time.	within 5yrs						8,000	258,000
M43	West Desout Canal	Ebraheemeyya Canal	Regulator		1,000	0.44	New construction	150,000	150,000	Recommend the reconstruction at front of the intake and install the gate.	The structure need the regulation function, however there is not gate. Need the reconstruction at front of the intake and install the gate.	within 5yrs						5,000	155,000

Remarks : Gray hatting is shown the different evaluation between RGBS and Consultant

9/9  
Evaluation of the Minor Structure : Comparison Table between RGBS and Consultant

Area	No	Name	Canal	Type	Con. Yr.	Command area (m <sup>2</sup> /s)	Max dis. (m <sup>3</sup> /s)	Evaluation by RGBS		Evaluation by Consultant							
								Necessary works	Cost (LE)	Term of works (LE)	Geogra.	Geologi.	Measurement	Discharge volume	Strength test	Other test or survey	Cost for survey (LE)
	M44	1 Salsafa Branch	Ebraheemeya Canal	Regulator		900	0.40	New construction	200,000	within 5yrs	●	●	●	●	●	15,000	315,000
	M45	Bany walkems Escape	Serry Canal	Tail escape	1950	2,700	0.30	Reconstruction	50,000	within 5yrs	●	●	●	●	●	2,000	52,000
	M46	1 Al-Salsafa Branch	Ebraheemeya Branch	Tail escape	1945	1,200	0.13	Rehabilitation	150,000	within 5yrs	●	●	●	●	●	2,000	52,000
	M47	2 Salsafa Branch	Ebraheemeya Canal	Tail escape		900	0.10	Reconstruction	150,000	within 20yrs	●	●	●	●	●	0	0
	M48	Al-Shekh Yousef Branch	Ebraheemeya Canal	Tail escape	1950	600	0.07	Reconstruction	.....	within 5yrs	●	●	●	●	●	2,000	52,000
	M49	West Tehasha Branch	Al Badraman canal	Tail escape		410	0.05	Reconstruction	150,000	within 5yrs	●	●	●	●	●	2,000	52,000
	M50	Abu Haseeba Branch	Ebraheemeya Canal	Pump station	1985, 2000	1,000	0.44	Construction	200,000	within 5yrs	●	●	●	●	●	6,000	206,000
	M51	Hassen Basha Drain Pump station		Pump station		60,000	6.60	New structure	500,000	within 5yrs	●	●	●	●	●	15,000	515,000
	M52	Samalout Canal Pump station	Ebraheemeya Canal	Pump station	2000	1,000	0.50	New construction	250,000	within 5yrs	●	●	●	●	●	13,000	263,000
	M53	Sawada Intake siphon	Sawada Intake River Nile	Siphon		1,500	0.66	Rehabilitation	300	within 5yrs	●	●	●	●	●	2,000	52,000
	M54	Wastel Al-Sherel	ELFASHEN CANAL / EBRAHEMIA CANAL	Bridge	1970	400	0.18	Rehabilitation	80,000	within 5yrs	●	●	●	●	●	4,000	84,000
	M55	Al-Fashemeya Canal 1	ELFASHEN CANAL / EBRAHEMIA CANAL	Bridge	1955	1,300	0.57	Rehabilitation	200,000	within 5yrs	●	●	●	●	●	15,000	315,000
	M56	Al-Fashemeya Canal 1	ELFASHEN CANAL / EBRAHEMIA CANAL	Bridge	1955	1,500	0.66	Rehabilitation	200,000	within 5yrs	●	●	●	●	●	15,000	315,000
	M57	Marian Bridge	Serry Canal	Bridge	1950	15,000	6.60	Reconstruction	500,000	within 5yrs	●	●	●	●	●	25,000	525,000
	M58	Morgan Regulator	Al Badraman canal	Regulator	1917	6,935	3.05	Reconstruction	200,000	within 5yrs	●	●	●	●	●	10,000	210,000
	M59	SHEIKH YOUSEF BRANCH	Ebraheemeya Canal	Bridge	1950	350		Rehabilitation	150,000	within 5yrs	●	●	●	●	●	8,000	158,000
	M60	WEST ABA CANAL	Ebraheemeya Canal	Bridge	1989	1,500	0.66	Rehabilitation	150,000	within 5yrs	●	●	●	●	●	8,000	158,000

Remarks : Gray hatting is shown the different evaluation between RGBS and Consultant

# Evaluation by Consultant in Minya

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M1	Location of the structure or facility	Al Dairotiya canal	
Type of Structure or facility	Intake	Name of the structure or facility	Al Ashmonin canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by failure and deterioration. Need the reconstruction and replace the gates.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	5	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	5	Recommend the reconstruction and replace the gates.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	M2	Location of the structure or facility	Al Sahliya canal	
Type of Structure or facility	Intake	Name of the structure or facility	Al Desa canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure and gate has been damaged by weathering and deterioration. The much garbage prevet the fair water. Need the reconstruction and replace the gates.			
<b>Additional Survey, if any</b>	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	4	Recommend the reconstruction and replace the gates.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M3	Location of the structure or facility	Serry Canal at Km 27.525	
Type of Structure or facility	Intake	Name of the structure or facility	Serry Branch	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by deterioration. Need the reconstruction and replace the gates.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	4	Recommend the reconstruction and replace the gates.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M4	Location of the structure or facility	Serry Canal at Km 28.460	
Type of Structure or facility	Intake	Name of the structure or facility	2 Serry branch intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate has not been so damaged. It is afraid of the weight of the vehicle. Need the reconstruction and preferable replace the gates at the same time.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	5	
Working life by empirical	<b>within 5yrs</b>	Recommend the reconstruction and preferable replace the gates at the same time.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M5	Location of the structure or facility	Bahab canal ( 33.15)	
Type of Structure or facility	Intake	Name of the structure or facility	5 th Branch canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level Or 1/3 Plan<Actual<2/3Plan	enough	B
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the deterioration and much garbage. Need the reconstruction and replace the gates. Preferable the construction of the new one out of village Zone toward northern (300m). <b>Additional survey</b> : The geographical survey at surround area, measurement in more detail of the structure.			
Additional Survey, if any				

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	<b>Need the suitable works Urgently within 5yrs</b>
Number of the Rank : B	8	
Number of the Rank : C	1	Recommend the reconstruction and replace the gates. Preferable the construction of the new one out of village Zone toward northern (300m).
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M6	Location of the structure or facility	Al sahliya canal	
Type of Structure or facility	Intake	Name of the structure or facility	Al sharka canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and much garbage. Need the reconstruction and replace the gates			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	5	Recommend the reconstruction and replace the gates
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M7	Location of the structure or facility	Bahr yosef canal km (63.450)	
Type of Structure or facility	Intake	Name of the structure or facility	Asmant Intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure is not so bad, the gate has been not so damaged. Need the replace of the gate and rehabilitation of the structure.			
Additional Survey, if any	The measurement in more detail of the structure.			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	7	
Number of the Rank : C	5	Recommend the replace of the gate and rehabilitation of the structure.
Working life by empirical	<b>within 10yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M8	Location of the structure or facility	Bahr yosef km(67.370)	
Type of Structure or facility	Intake	Name of the structure or facility	Balansora Intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	B
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the deterioration. Need the reconstruction and replace the gates			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	5	Recommend the reconstruction and replace the gates
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M9	Location of the structure or facility	Al Badraman canal at km 17.710	
Type of Structure or facility	Intake	Name of the structure or facility	Derwa canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the deterioration and much garbage. Need the reconstruction and replace the gate			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	5	
Working life by empirical	<b>within 5yrs</b>	Recommend the reconstruction and replace the gate

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	M10	Location of the structure or facility	Ibrahimia canal/ Serry canal	
Type of Structure or facility	Intake	Name of the structure or facility	AL-Hagat Intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate has not been damaged. Need the reconstruction and preferable replace the gate at same time.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	6	
Number of the Rank : C	4	Recommend the reconstruction and preferable replace the gate at same time.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M11	Location of the structure or facility	Serry canal	
Type of Structure or facility	Intake	Name of the structure or facility	Al-Sheikh Kelada	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work at all by the failure. Need the reconstruction and replace the gate			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	5	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	6	Recommend the reconstruction and replace the gate
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M12	Location of the structure or facility	Serry canal	
Type of Structure or facility	Intake	Name of the structure or facility	Al_Sheikh Yousef	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate has not been damaged. Need the reconstruction and preferable replace the gate at same time.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	7	Recommend the reconstruction and preferable replace the gate at same time.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M13	Location of the structure or facility	Bahr yosef km (69.240)	
Type of Structure or facility	Intake	Name of the structure or facility	El Sultan hassan	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate can not work suitable by the deterioration. Need the rehabilitation of the structure and replace the gate			
Additional Survey, if any	The measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	5	Recommend the rehabilitation of the structure and replace the gate
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M14	Location of the structure or facility	Al Dairotiya canal	
Type of Structure or facility	Intake	Name of the structure or facility	Ganabyia Al Ashmonin canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate can not work suitable by the failure. Need the rehabilitation of the structure and replace the gate.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	5	Recommend the rehabilitation of the structure and replace the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M15	Location of the structure or facility	Al Badraman canal	
Type of Structure or facility	Intake	Name of the structure or facility	Ganabiya Al Maniekly canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate has not been so damaged. Need the reconstruction and preferable replace the gate at same time.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	4	Recommend the reconstruction and preferable replace the gate at same time.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M16	Location of the structure or facility	Al Sahliya canal	
Type of Structure or facility	Intake	Name of the structure or facility	Ganabyia Al Sahliya canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate can not work suitable by the deterioration. Need the rehabilitation of the structure and replace the gate			
Additional Survey, if any	The measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	6	Recommend the rehabilitation of the structure and replace the gate
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M17	Location of the structure or facility	Bahr yosef canal km (75.475)	
Type of Structure or facility	Intake	Name of the structure or facility	Mabrouk Intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the deterioration. Need the reconstruction and replace the gate.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	7	Recommend the reconstruction and replace the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	M18	Location of the structure or facility	Al Badraman canal at km 12.100	
Type of Structure or facility	Intake	Name of the structure or facility	Mahmoud canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate has not been damaged. Need the rehabilitation of the structure and maintenance of the gate			
Additional Survey, if any	The measurement in more detail of the structure.			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	1	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	6	
Number of the Rank : C	5	Recommend the rehabilitation of the structure and maintenance of the gate
Working life by empirical	<b>within 10yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M19	Location of the structure or facility	Bahr yosef at km 28.460	
Type of Structure or facility	Intake	Name of the structure or facility	Moussa	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	C
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	This structure finish the reconstruction already.			
Additional Survey, if any	Nothing			

## Evaluation

C

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 20yrs and keep watching the condition and maintenance
Number of the Rank : B	0	
Number of the Rank : C	12	This structure finish the reconstruction already.
Working life by empirical	<b>within 20yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M20	Location of the structure or facility	Dahab canal	
Type of Structure or facility	Intake	Name of the structure or facility	Nasser Feeder	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate can not work suitable by the deterioration. Need the rehabilitation of the structure and replace the gate.			
Additional Survey, if any	The measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	6	Recommend the rehabilitation of the structure and replace the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M21	Location of the structure or facility	Bahr yosef - sabaa canal	
Type of Structure or facility	Intake	Name of the structure or facility	North Bahnasa canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The surafce of gate can be seen rust. Need the rehabilitation of the structure and replace the gate.			
Additional Survey, if any	The measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	8	Recommend the rehabilitation of the structure and replace the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M22	Location of the structure or facility	Al Badraman canal	
Type of Structure or facility	Intake	Name of the structure or facility	Om El Kousour canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering. The gate has not been so damaged. Need the reconstruction of the structure and preferable replace the gate at same time.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	6	Recommend the reconstruction of the structure and preferable replace the gate at same time.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M23	Location of the structure or facility	Dahab canal km (0.4)	
Type of Structure or facility	Intake	Name of the structure or facility	Raheil intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	B
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction and replace of the gate.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	3	Recommend the reconstruction and replace of the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M24	Location of the structure or facility	Dahab canal km (49.75)	
Type of Structure or facility	Intake	Name of the structure or facility	Sakiet Dakouf	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure is not so bad. The gate has not been so damaged. Need to keep the maintenace of the gate			
Additional Survey, if any	The measurement in more detail of the structure.			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	6	
Number of the Rank : C	6	
Working life by empirical	<b>within 10yrs</b>	Recommend to keep the maintenace of the gate

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M25	Location of the structure or facility	Dawood main canal	
Type of Structure or facility	Intake	Name of the structure or facility	taheir intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	B
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate on the surface can seen rust. Need the rehabilitation of the structure and replace the gate.			
Additional Survey, if any	The measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	6	
Number of the Rank : C	4	Recommend the rehabilitation of the structure and replace the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	M26	Location of the structure or facility	Ebrahemia canal / serry canal at km 106.350	
Type of Structure or facility	Intake	Name of the structure or facility	Tambo intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction and replace of the gate.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	5	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	4	Recommend the reconstruction and replace of the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M27	Location of the structure or facility	The west hafeze canal at km 14.700	
Type of Structure or facility	Intake	Name of the structure or facility	The Left Dairotyia canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction and replace of the gate.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	4	Recommend the reconstruction and replace of the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M28	Location of the structure or facility	The west hafeze canal	
Type of Structure or facility	Intake	Name of the structure or facility	The Right Dairotyia canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction and replace of the gate.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	4	Recommend the reconstruction and replace of the gate.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M29	Location of the structure or facility	Al Sahliya canal	
Type of Structure or facility	Intake	Name of the structure or facility	The West Rayramon canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate has not been so damaged. Need the rehabilitation of the structure, the gate and removal of the garbage.			
Additional Survey, if any	The measurement in more detail of the structure.			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	1	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	5	
Number of the Rank : C	6	
Working life by empirical	<b>within 10yrs</b>	Recommend the rehabilitation of the structure, the gate and removal of the garbage.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M30	Location of the structure or facility	Desout / Ebraheemeyya	
Type of Structure or facility	Regulator	Name of the structure or facility	East Desout	
ITEMS	Rank : A	Rank : B	Rank : C	Selection of Rank
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	A
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	C
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure need the function of the regulation, however this structure does not the function of the regulation. Need more study to make clear of the function of the structure.			
Additional Survey, if any	Make clear the purpose of the structure, then examin the geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	0	
Number of the Rank : C	9	Recommend more study to make clear of the function of the structure.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M31	Location of the structure or facility	Ebraheemeyya	
Type of Structure or facility	Intake	Name of the structure or facility	Barbakh Bani Mazar	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate has been damaged and can not work suitable by failure. Need the rehabilitation of the structure and replace of the gate.			
Additional Survey, if any	<b>Additional Survey</b> : The measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	6	Recommend the rehabilitation of the structure and replace of the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M32	Location of the structure or facility	Menshat Al-Dahab	
Type of Structure or facility	Regulator	Name of the structure or facility	Abu Hashima	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering, however these damage seem at surround the gate. The gate has not been so damaged. Need the reconstruction at front of the intake and preferabel replace the gate at same time.			
Additional Survey, if any	<u>Additional Survey</u> : The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	7	Recommend the reconstruction at front of the intake and preferabel replace the gate at same time.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M33	Location of the structure or facility	Al Badraman canal at km 17.710	
Type of Structure or facility	Regulator	Name of the structure or facility	Al Maniekly regulator	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction and replace of the gate.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	6	Recommend the reconstruction and replace of the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	M34	Location of the structure or facility	The East hafeze canal	
Type of Structure or facility	Regulator	Name of the structure or facility	Al Sahala Regulator	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged, additionally, has the trouble of the fair water distribution, due to the narrow vents. The gate has not been so damaged. Need the reconstruction with changing to the suitable vent and preferabele replace of the gate at same time.			
Additional Survey, if any	<b>Additional survey</b> : The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	6	Recommend the reconstruction with changing to the suitable vent and preferabele replace of the gate at same time.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M35	Location of the structure or facility	Al Sahliya canal	
Type of Structure or facility	Regulator	Name of the structure or facility	Al Sahliya canal Reg.	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction and replace of the gate.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	4	Recommend the reconstruction and replace of the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M36	Location of the structure or facility	Al Sahliya canal	
Type of Structure or facility	Regulator	Name of the structure or facility	Al Takhfeef Drain	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction and replace of the gate.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	4	Recommend the reconstruction and replace of the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M37	Location of the structure or facility	Ebraheemeyya	
Type of Structure or facility	Regulator	Name of the structure or facility	Ban Al-Alam Branch	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work at all by the failure and deterioration. Need the reconstruction and replace of the gate			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	5	Recommend the reconstruction and replace of the gate
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M38	Location of the structure or facility	Ebraheemeyya	
Type of Structure or facility	Regulator	Name of the structure or facility	East Aba Canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction (preferable design more low level at top of guide ) and replace of the gate.			
Additional Survey, if any	<u>Additional survey</u> : The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	3	Recommend the reconstruction (preferable design more low level at top of guide ) and replace of the gate.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M39	Location of the structure or facility	Ebraheemeyya	
Type of Structure or facility	Intake	Name of the structure or facility	Abu Hassiba Cana.	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering, however these damage seem at surround the gate. The gate can not work suitable by rust. Need the reconstruction at front of the intake and replace the gate. Preferable support inner of pipe.			
Additional Survey, if any	<b>Additional survey</b> : The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	5	Recommend the reconstruction at front of the intake and replace the gate. Preferable support inner of pipe.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M40	Location of the structure or facility	Ebraheemeyya Canal	
Type of Structure or facility	Regulator	Name of the structure or facility	Al-Gendeyya Canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	A
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration. Need the reconstruction (should be check the level of the intake) and replace of the gate.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	6	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	3	Recommend the reconstruction (should be check the level of the intake) and replace of the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M41	Location of the structure or facility	Ebraheemeyya Canal	
Type of Structure or facility	Regulator	Name of the structure or facility	South Darweesh Canal	
ITEMS	Rank : A	Rank : B	Rank : C	Selection of Rank
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate has not been so damaged. Need the rehabilitation of the structure and maintenance of the gate.			
Additional Survey, if any	The measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	5	Recommend the rehabilitation of the structure and maintenance of the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	M42	Location of the structure or facility	River Nile	
Type of Structure or facility	Regulator	Name of the structure or facility	Sawada Canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering, however these damage seem at surround the gate. The gate has not been so damaged. Need the reconstruction at front of the intake and preferable replace the gate at same time.			
Additional Survey, if any	Additional survey: The geographical survey at surround area, measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	6	Recommend the reconstruction at front of the intake and preferable replace the gate at same time.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M43	Location of the structure or facility	Ebraheemeyya Canal	
Type of Structure or facility	Regulator	Name of the structure or facility	West Desout	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure need the regulation function, however there is not gate. Need the reconstruction at front of the intake and install the gate.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	4	Recommend the reconstruction at front of the intake and install the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M44	Location of the structure or facility	Ebraheemeyya Canal	
Type of Structure or facility	Regulator	Name of the structure or facility	1 Safsafa Branch	
ITEMS	Rank : A	Rank : B	Rank : C	Selection of Rank
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	C
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The district engineer requested to need new regulator at following picture showed. In this case, need more study the purpose of the structure and condition of the water level, also discharge volume etc.			
Additional Survey, if any	Make clear the purpose of the structure, then examin the geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	0	
Number of the Rank : C	10	Recommend to more study the purpose of the structure and condition of the water level, also discharge volume etc.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M45	Location of the structure or facility	Serry Canal	
Type of Structure or facility	Tail escape	Name of the structure or facility	Bany wallems Escape	
ITEMS	Rank : A	Rank : B	Rank : C	Selection of Rank
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. Need the reconstruction and install the gate			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	6	Recommend the reconstruction and install the gate
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M46	Location of the structure or facility	Ebraheemeyya Branch	
Type of Structure or facility	Tail escape	Name of the structure or facility	1 Al-Safsafa Branch	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged by weathering and deterioration. Need the reconstruction and install the gate			
<b>Additional Survey, if any</b>	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	6	Recommend the reconstruction and install the gate
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M47	Location of the structure or facility	Ebraheemeyya Canal	
Type of Structure or facility	Tail escape	Name of the structure or facility	2 Safsafa Branch	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	C
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been expired almost (we could not see structure). According to the hearing to farmer, the water has not been reached up the bank, therefore, there is no problem.			
Additional Survey, if any	Nothing			

## Evaluation

C

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 20yrs and keep watching the condition and maintenance
Number of the Rank : B	0	
Number of the Rank : C	12	There is no problem
Working life by empirical	<b>within 20yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M48	Location of the structure or facility	Ebraheemeyya Canal	
Type of Structure or facility	Tail escape	Name of the structure or facility	Al-Sheikh Yousef Branch	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The pipe has been broken at under the road. Need the reconstruction with replace the pipe.			
<b>Additional Survey, if any</b>	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	6	Recommend the reconstruction with replace the pipe.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M49	Location of the structure or facility	Al Badraman canal	
Type of Structure or facility	Tail escape	Name of the structure or facility	West Tahnasha Branch	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged by weathering and deterioration. Need the reconstruction and install the gate			
<b>Additional Survey, if any</b>	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	7	Recommend the reconstruction and install the gate
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	M50	Location of the structure or facility	Ebraheemeyya Canal	
Type of Structure or facility	Pump station	Name of the structure or facility	Abu Haseeba Branch	
ITEMS	Rank : A	Rank : B	Rank : C	Selection of Rank
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	One of two pumps is expired. Need the replace the pump and rehabilitation.			
Additional Survey, if any	Check the necessary performance and the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	6	Recommend the replace the pump and rehabilitation.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M51	Location of the structure or facility	Hassen Basha Drain /Serry canal	
Type of Structure or facility	Pump station	Name of the structure or facility	Hassen Basha Drain Pump station	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	A
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	Currently, this structure is siphon. In this site has the problem of the low water level, therefore the district engineer requested the pump station instead of the siphon. Need the more study of the actual status.			
Additional Survey, if any	<u>Additional Survey</u> : Check the necessary performance and the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	5	Recommend the more study of the actual status.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M52	Location of the structure or facility	Ebraheemeyya Canal	
Type of Structure or facility	Pump station	Name of the structure or facility	Samalout Canal Pump station	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	C
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The demand of the water has been increased, therefore one spare pump is required. Need the installation of the new pump.			
Additional Survey, if any	Make clear the purpose of the structure, then examin the geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	7	Recommend the installation of the new pump.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M53	Location of the structure or facility	Sawada Intake River Nile	
Type of Structure or facility	Siphon	Name of the structure or facility	Sawada Intake siphon	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The pipe is not so bad, however the structure at edge of the pipe has been damaged. Need the rehabilitation of the structure at edge of the pipe.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	5	Recommend the rehabilitation of the structure at edge of the pipe.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M54	Location of the structure or facility	Serry Canal	
Type of Structure or facility	Aqueduct	Name of the structure or facility	Waslet Al-Sher'e'l	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The water through the pipe is prevented the garbage. At across the drain, the pipe prevent the fair water. Need the reconstruction as the siphon			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	6	Recommend the reconstruction as the siphon
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M55	Location of the structure or facility	ELFASHEN CANAL / EBRAHEMIA CANAL	
Type of Structure or facility	Bridge	Name of the structure or facility	Al-Fashneyya Canal 2	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. Need the reconstruction			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	8	Recommend the reconstruction
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M56	Location of the structure or facility	ELFASHEN CANAL / EBRAHEMIA CANAL	
Type of Structure or facility	Bridge	Name of the structure or facility	Al-Fashneyya Canal 1	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. Need the reconstruction.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	8	Recommend the reconstruction.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M57	Location of the structure or facility	Serry Canal	
Type of Structure or facility	Bridge	Name of the structure or facility	Ma'atan Bridge	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged by weathering and deterioration. Need the reconstruction.			
<b>Additional Survey, if any</b>	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	8	Recommend the reconstruction.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	M58	Location of the structure or facility	Al Badraman canal	
Type of Structure or facility	Regulator	Name of the structure or facility	Morgan Regulator	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The gate has been expired, there is not gate. Need the reconstruction and install the gate			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	6	Recommend the reconstruction and install the gate
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M59	Location of the structure or facility	Ebraheemeyya Canal	
Type of Structure or facility	Bridge	Name of the structure or facility	SHEIKH YOUSEF BRANCH	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The narrow vent prevent the fair water. Need the reconstruction with wide vent.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	5	Recommend the reconstruction with wide vent.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	M60	Location of the structure or facility	Ebraheemeyya Canal	
Type of Structure or facility	Bridge	Name of the structure or facility	WEST ABA CANAL	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and deterioration. The narrow vent prevent the fair water. Need the reconstruction with wide vent			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	9	Recommend the reconstruction with wide vent
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

# Evaluation by Consultant in Beni-Suef

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B1	Location of the structure or facility	ALFANT canal	
Type of Structure or facility	Intake	Name of the structure or facility	ALFANT	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	At downstream, 500m, from the intake, many garbage prevet fair water. Need to remove the garbage urgently.			
Additional Survey, if any	Nothing			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	0	Structure is not so bad. Recommend the removal of the garbage at downstream urgently
Number of the Rank : B	6	
Number of the Rank : C	6	
Working life by empirical	<b>within 5 yrs*</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B2	Location of the structure or facility	ELSHARAHN AELKABLIA	
Type of Structure or facility	Intake	Name of the structure or facility	ELSHARAHN AELKABLIA	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	At downstream, 100m, from the intake, many garbage prevet fair water. Need to remove the garbage urgently.			
Additional Survey, if any	Nothing			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	0	<b>Recommend the removal of the garbage at downstream urgently</b>
Number of the Rank : B	3	
Number of the Rank : C	9	
Working life by empirical	<b>within 5 yrs*</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B3	Location of the structure or facility	Elmagrofa elgrbia	
Type of Structure or facility	Intake	Name of the structure or facility	Elmagrofa elgrbia	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	C
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has few damage. Need the maintenance of the gate			
Additional Survey, if any	Nothing			

## Evaluation

C

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 20yrs and keep watching the condition and maintenance
Number of the Rank : B	1	
Number of the Rank : C	11	
Working life by empirical	<b>within 20yrs</b>	Recommend the maintenance of the gate

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B4	Location of the structure or facility	ELSAHARA canal	
Type of Structure or facility	Intake	Name of the structure or facility	ELSAHARA	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged heavily by Weathering. Need the reconstruction and recommend to support into the pipe.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	7	Recommend the reconstruction and recommend to support into the pipe.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	B5	Location of the structure or facility	KELA canal	
Type of Structure or facility	Intake	Name of the structure or facility	KELA	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged and the gates can not work at all. Need the reconstruction and replace the gates.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	5	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	6	Recommend the reconstruction and replace the gates.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B6	Location of the structure or facility	Amar AELKABLIA	
Type of Structure or facility	Intake	Name of the structure or facility	Amar AELKABLIA	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged and the gates can not work at all. Need the reconstruction and replace the gate.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	5	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	6	Recommend the reconstruction and replace the gate.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B7	Location of the structure or facility	Ashmant ALKABLIA	
Type of Structure or facility	Pipi line	Name of the structure or facility	Ashmant ALKABLIA	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by Weathering. Need the replace the pipe and install the gate in front of the pipe.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	7	Recommend the replace the pipe and install the gate in front of the pipe.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B8	Location of the structure or facility	HAGR ALAHON	
Type of Structure or facility	Intake	Name of the structure or facility	HAGR ALAHON	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged and the gates can not work suitable. Need the reconstruction and replace the gate.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	5	Recommend the reconstruction and replace the gate.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B9	Location of the structure or facility	MOMTEZ CANAL / Giza	
Type of Structure or facility	Intake	Name of the structure or facility	MOMTEZ CANAL	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the intake and replace the gate.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	8	Recommend the reconstruction of the intake and replace the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B10	Location of the structure or facility	ELATHAR canal / Giza canal	
Type of Structure or facility	Intake	Name of the structure or facility	ELATHAR	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure is not so bad. Need the maintenance and replace the gate.			
Additional Survey, if any	Measurement in more detail of the gate			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	6	
Number of the Rank : C	6	
Working life by empirical	<b>within 10yrs</b>	Recommend the maintenance and replace the gate.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B11	Location of the structure or facility	ABWED	
Type of Structure or facility	Intake	Name of the structure or facility	ABWED	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	A
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged and the gates can not work suitable. This intake has severe problem to fair water. Need the reconstruction of the intake to take into consideration of the loction.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure and check the effect of the sedimentation.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	6	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	5	Recommend the reconstruction of the intake with take into consideration of the loction of the intake.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B12	Location of the structure or facility	ALI HAFEZ	
Type of Structure or facility	Tail escape	Name of the structure or facility	ALI HAFEZ	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the structure and replace the gate.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	7	Recommend the reconstruction of the structure and replace the gate.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	B13	Location of the structure or facility	DALAS WEST	
Type of Structure or facility	Tail escape	Name of the structure or facility	DALAS WEST	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	C
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The gate is not so bad. Need the some rehabilitation and maintenance of the gate.			
Additional Survey, if any	Nothing			

## Evaluation

C

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 20yrs and keep watching the condition and maintenance
Number of the Rank : B	3	
Number of the Rank : C	9	
Working life by empirical	<b>within 20yrs</b>	Recommend the some rehabilitation and maintenance of the gate.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B14	Location of the structure or facility	SOLTANE (3)	
Type of Structure or facility	Tail escape	Name of the structure or facility	SOLTANE (3)	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure is not so bad. Need the some rehabilitation and removal of the weeds at upstream.			
Additional Survey, if any	Nothing			

## Evaluation

C

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 20yrs and keep watching the condition and maintenance
Number of the Rank : B	4	
Number of the Rank : C	8	
Working life by empirical	<b>within 20yrs</b>	Recommend the some rehabilitation and removal of the weeds at upstream.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B15	Location of the structure or facility	SOLTANE (4)	
Type of Structure or facility	Tail escape	Name of the structure or facility	SOLTANE (4)	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the structure and replace the gate.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	6	Recommend the reconstruction of the structure and replace the gate.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B16	Location of the structure or facility	SOLTANE (5)	
Type of Structure or facility	Tail escape	Name of the structure or facility	SOLTANE (5)	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been expired almost. According to the hearing at site, there is no problem			
Additional Survey, if any	Nothing			

## Evaluation

C

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 20yrs and keep watching the condition and maintenance
Number of the Rank : B	4	
Number of the Rank : C	8	
Working life by empirical	<b>within 20yrs</b>	Recommend the removal of the garbage at end of pipe.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B17	Location of the structure or facility	SOLTANE (6)	
Type of Structure or facility	Tail escape	Name of the structure or facility	SOLTANE (6)	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. Need the some rehabilitation and replace the gate.			
Additional Survey, if any	Measurement in more detail of the structure and gate.			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	1	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	6	
Number of the Rank : C	5	
Working life by empirical	<b>within 10yrs</b>	Recommend the some rehabilitation and replace the gate.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B18	Location of the structure or facility	SOLTANE (7)	
Type of Structure or facility	Tail escape	Name of the structure or facility	SOLTANE (7)	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure on surface has been damaged by weathering, however these damage dose not seem fatal. Need the some rehabilitation and replace the gate.			
Additional Survey, if any	Measurement in more detail of the structure and gate.			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	1	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	6	
Number of the Rank : C	5	
Working life by empirical	<b>within 10yrs</b>	Recommend the some rehabilitation and replace the gate.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B19	Location of the structure or facility	AL-ASKRA	
Type of Structure or facility	Tail escape	Name of the structure or facility	AL-ASKRA	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged. According to the hearing, the water has not been reached up tail escape, however, there is no problem. Need the some rehabilitation for the structure.			
Additional Survey, if any	Nothing			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	1	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	3	
Number of the Rank : C	8	
Working life by empirical	<b>within 10yrs</b>	Recommend the some rehabilitation.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B20	Location of the structure or facility	ALSHAMSHERGE	
Type of Structure or facility	Tail escape	Name of the structure or facility	ALSHAMSHERGE	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged. According to the hearing, the water has not been reached up tail escape, however, there is no problem. Need the some rehabilitation and remove the weeds.			
Additional Survey, if any	Nothing			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	1	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	2	
Number of the Rank : C	9	Recommend the some rehabilitation and remove the weeds.
Working life by empirical	<b>within 10yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	B21	Location of the structure or facility	Qela canal	
Type of Structure or facility	Bridge	Name of the structure or facility	Qela canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The surface of the structure has been damaged by Weathering. However, these damage does not seem fatal damage. Need more some test to check the current strength of the brick			
<b>Additional Survey, if any</b>	First, the strength of the structure should be checked by the test. Then examine the geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	9	
Working life by empirical	<b>within 5yrs</b>	Recommend to study more or test to check current status.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B22	Location of the structure or facility	Qela canal	
Type of Structure or facility	Bridge	Name of the structure or facility	AZIT bridge	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by Weathering. Especially there are cracks to be cared on the abut pier. Need the reconstruction.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	9	Recommend the reconstruction
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B23	Location of the structure or facility	Beni Kasem / K 5.000	
Type of Structure or facility	Pipe line	Name of the structure or facility	AHMED BASA	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by Weathering. Especially there are much garbage to prevent the fairs water. Need to replace the pipe to more wide and remove the garbage.			
Additional Survey, if any	The measurement in more detail of the pipe and length			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	6	
Number of the Rank : C	4	Recommend the replace the pipe to more wide and remove the garbage.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B24	Location of the structure or facility	Fare alkasi	
Type of Structure or facility	Pipe line	Name of the structure or facility	Fare alkasi	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged and the gates can not work suitable. Need the reconstruction and replace the gate.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	3	
Working life by empirical	<b>within 5yrs</b>	Recommend the reconstruction and replace the gate.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B25	Location of the structure or facility	NASRT canal	
Type of Structure or facility	Aqueduct	Name of the structure or facility	NASRT	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	B
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged. Need the reconstruction of the intake and remove the weed and sedimentation in front of the intake.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	6	
Number of the Rank : C	3	Recommend the reconstruction of the intake and remove the weed and sedimentation in front of the intake.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B26	Location of the structure or facility	TLAT canal	
Type of Structure or facility	Culvert	Name of the structure or facility	TLAT canal	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	A
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	They want to change to the Aqueduct for the difficulty of the supply water.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure and check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	6	
Number of the Rank : C	4	Recommend the construction as the aqueduct.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B27	Location of the structure or facility	ALI HAFZ	
Type of Structure or facility	Aqueduct	Name of the structure or facility	ALI HAFZ	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by Weathering. Need the reconstruction of the structure and replace the steel pipe.			
Additional Survey, if any	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	5	Recommend the reconstruction of the structure and replace the steel pipe.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B28	Location of the structure or facility	ABO SHOSHE	
Type of Structure or facility	Siphon	Name of the structure or facility	ABO SHOSHE K0.8	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged by Weathering. Need the reconstruction of the structure, replace the steel pipe and the protection works on the pipe at across the canal.			
<b>Additional Survey, if any</b>	The geographical survey surround area and measurement in more detail of the structure			

## Evaluation

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	5	
Working life by empirical	<b>within 5yrs</b>	Recommend the reconstruction of the structure, replace the steel pipe and the protection works on the pipe at across the canal.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	B29	Location of the structure or facility	ABO SHOSHE	
Type of Structure or facility	Siphon	Name of the structure or facility	ABO SHOSHE K1.5	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the structure and the protection works on the pipe at across the canal.			
<b>Additional Survey, if any</b>	The geographical survey surround area and measurement in more detail of the structure			

## Evaluation

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	6	Recommend the reconstruction of the structure and the protection works on the pipe at across the canal.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B30	Location of the structure or facility	Soltane / K 12	
Type of Structure or facility	Siphon	Name of the structure or facility	Sleem Siphon	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the structure and the protection works on the pipe at across the canal.			
Additional Survey, if any	The geographical survey surround area and measurement in more detail of the structure			

## Evaluation

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	6	Recommend the reconstruction of the structure and the protection works on the pipe at across the canal.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B31	Location of the structure or facility	Qela	
Type of Structure or facility	Siphon	Name of the structure or facility	GOHR K15	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged and the gates can not work suitable. Need the reconstruction of the structure and the protection works on the pipe at across the canal.			
Additional Survey, if any	The geographical survey surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	6	Recommend the reconstruction of the structure and the protection works on the pipe at across the canal.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B32	Location of the structure or facility	ALLAHON / Bahr Yousef	
Type of Structure or facility	Siphon	Name of the structure or facility	ALBEN K3	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged on surface. Those damage has been not fatal damage. Need the rehabilitation of the structure and the protection works on the pipe at across the canal.			
Additional Survey, if any	The measurement in more detail of the structure			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	1	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	4	
Number of the Rank : C	7	Recommend the rehabilitation of the structure and the protection works on the pipe at across the canal.
Working life by empirical	<b>within 10yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B33	Location of the structure or facility	ABOSHOSHA	
Type of Structure or facility	Siphon	Name of the structure or facility	BANI SALIH K3	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The surface of the structure been damaged by Weathering. However, these damage does not seem fatal damage. Need more some test to check the current strength of the brick			
Additional Survey, if any	First, the strength of the structure should be checked by the test. Then examine the geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	7	Recommend to study more or test to check current status.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B34	Location of the structure or facility	ABOSHOSHA K2.8	
Type of Structure or facility	Pipe line	Name of the structure or facility	ALSHIKH YAHIA	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	B
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	B
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure of the intake has been damaged by Weathering. Need the reconstruction of the intake and preferable install the gate in front of the intake.			
<b>Additional Survey, if any</b>	The geographical survey at surround area and measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	6	
Number of the Rank : C	4	Recommend the reconstruction of the intake and preferable attach the gate in front of the intake.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	B35	Location of the structure or facility	Ibrahimia canal	
Type of Structure or facility	Weir	Name of the structure or facility	Hdar bin hinder	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	B
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure is not so bad. The district engineer request to be low crest level of the weir for the water shortage in the future.			
Additional Survey, if any	Need more study concerning the water management at this structure and the effect forward the upstream by bellowing the crest level.			

## Evaluation

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 20yrs and keep watching the condition and maintenance
Number of the Rank : B	4	
Number of the Rank : C	8	
Working life by empirical	<b>within 20yrs</b>	Recommend to study more.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	AB1	Location of the structure or facility	DALAS West Canal	
Type of Structure or facility	Pump station	Name of the structure or facility	DALAS West Pump station	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	B
Remarks, if any	One of three pumps is expired. Need to install the new one and rehabilitation of pipe at saction side and steel stage.			
Additional Survey, if any	The performance of this pump are lower than necessary performance, due to the low level water. Need the study of the actual status.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	6	Recommend to study more.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	AB2	Location of the structure or facility	Ibrahimia canal	
Type of Structure or facility	Regulator	Name of the structure or facility	Waseta Regulator	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the at surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The surface of the gate has been damaged. There are the hole and rust on the surface of the gate. Need to replace the gate.			
Additional Survey, if any	Measurement in more detail of the structure			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	7	Recommend to replace the gate
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

# Evaluation by Consultant in Fayoum

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F1	Location of the structure or facility	Bats Drain	
Type of Structure or facility	Weir	Name of the structure or facility	Hear weir	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	A
8 Damage of the mechanical facility or steel material	heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure is very dangerous condition by the much discharge. Need the reconstruction and replace all the gates			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	6	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	5	Recommend the reconstruction and replace all the gates
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F2	Location of the structure or facility	Bats Drain	
Type of Structure or facility	Weir	Name of the structure or facility	El asaba nasba	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged by weatherd and cracks. Need the reconstruction of the structure.			
<b>Additional Survey, if any</b>	The geographical survey at surround area, measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	7	Recommend the reconstruction of the structure.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F3	Location of the structure or facility	El Elaam	
Type of Structure or facility	Regulator	Name of the structure or facility	El Elaam	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and the wide of vent is so narrow. Need the reconstruction of the structure, one of the two structures			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

### Evaluation

widenig

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	6	Recommend the reconstruction of the structure
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F4	Location of the structure or facility	Sennors	
Type of Structure or facility	Weir	Name of the structure or facility	Behmo Nasba	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction and protection work at downstream of the structure.			
<b>Additional Survey, if any</b>	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	7	Recommend the reconstruction and protection work on downstream
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F5	Location of the structure or facility	Sennors	
Type of Structure or facility	Weir	Name of the structure or facility	El shoremy nasba	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction of the structure widening the vent.			
<b>Additional Survey, if any</b>	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

### Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	8	Recommend the reconstruction widening the vent
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F6	Location of the structure or facility	Sersena Elemomey	
Type of Structure or facility	Weir	Name of the structure or facility	Gadona	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction of the structure widening the vent.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	1	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	3	
Number of the Rank : C	8	
Working life by empirical	<b>within 10yrs</b>	Recommend the reconstruction widening the vent

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	F7	Location of the structure or facility	El Elaam	
Type of Structure or facility	Culvert	Name of the structure or facility	Zmloty Culvert	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and difficulty of the fair water distribution. The much garbage prevent the fair water. Need the reconstruction of the structure and the removal of the garbage.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	7	Recommend the reconstruction
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F8	Location of the structure or facility	El nazla	
Type of Structure or facility	Weir	Name of the structure or facility	Brka weir	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction and protection work at downstream of the structure.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	7	Recommend the reconstruction and protection work at downstream of the structure.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F9	Location of the structure or facility	Bahr Wahby	
Type of Structure or facility	Intake	Name of the structure or facility	El serb intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction of the structure, replace the gate and protection work at downstream of the structure.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	7	Recommend the reconstruction of the structure, replace the gate and protection work at downstream of the structure.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F10	Location of the structure or facility	Yousef	
Type of Structure or facility	Intake	Name of the structure or facility	Hawara Intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged on surface. Those damage will be dealt by rehabilitation. Need the rehabilitation of the structure (The new pump station near site. This pump will be worked instead of this intake)			
Additional Survey, if any	Measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	8	Recommend the rehabilitation of the structure
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F11	Location of the structure or facility	El nazla	
Type of Structure or facility	Weir	Name of the structure or facility	El meshrak nasba	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged by weathering and difficulty of the fair water distribution. It is afraid of the scouring at downstream. Need the reconstruction and protection work at downstream of the structure.			
<b>Additional Survey, if any</b>	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	6	Recommend the reconstruction and protection work at downstream of the structure.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F12	Location of the structure or facility	El meshark	
Type of Structure or facility	Weir	Name of the structure or facility	El hmam nasba	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and difficulty of the fair water distribution. It is afraid of the scouring at downstream. Need the reconstruction and protection work at downstream of the structure.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	3	
Number of the Rank : C	6	Recommend the reconstruction and protection work on downstream
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F13	Location of the structure or facility	El Ghark	
Type of Structure or facility	Weir	Name of the structure or facility	TALET nasba	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	B
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	7	Recommend the reconstruction with changing of the width the intake
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F14	Location of the structure or facility	ZAWEA	
Type of Structure or facility	Weir	Name of the structure or facility	Abd El rhman weir	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged on surface. Those damage will be dealt by rehabilitation. It is afraid of the scouring at downstream. Need the rehabilitation and protection work at downstream of the structure.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	1	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	3	
Number of the Rank : C	8	
Working life by empirical	<b>within 10yrs</b>	Recommend the rehabilitation of the protection work on downstream

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	F15	Location of the structure or facility	ZAWEA	
Type of Structure or facility	Weir	Name of the structure or facility	naklefa intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	8	Recommend the reconstruction widening the vent
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F16	Location of the structure or facility	ZAWEA	
Type of Structure or facility	Weir	Name of the structure or facility	Farsh weir	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	8	Recommend the reconstruction widening the vent
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F17	Location of the structure or facility	El masra	
Type of Structure or facility	Weir	Name of the structure or facility	elkharg intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged on surface. Those damage will be dealt by rehabilitation. Need the rehabilitation of the structure			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	1	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	3	
Number of the Rank : C	8	
Working life by empirical	<b>within 10yrs</b>	Recommend the rehabilitation of the body

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F18	Location of the structure or facility	Elkharg	
Type of Structure or facility	Weir	Name of the structure or facility	End of elkharg nasba	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	8	Recommend the reconstruction widening the vent
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F19	Location of the structure or facility	Seila elomomy	
Type of Structure or facility	Weir	Name of the structure or facility	Seila nasba	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	8	Recommend the reconstruction widening the vent
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F20	Location of the structure or facility	Bahr Yousef	
Type of Structure or facility	Intake	Name of the structure or facility	Tanhala Intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	C
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	It si difficult to do daily cleanning works. Need to install the mechanical Trash rack or other way			
Additional Survey, if any	Measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

C

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 20yrs and keep watching the condition and maintenance
Number of the Rank : B	3	
Number of the Rank : C	9	
Working life by empirical	<b>within 20yrs</b>	Recommend to install the mechanical Trash rack or other way

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F21	Location of the structure or facility	nazla	
Type of Structure or facility	Weir	Name of the structure or facility	Esmail abd el lateef weir	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	8	Recommend the reconstruction with changing to the suitable width of the vent
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F22	Location of the structure or facility	nazla	
Type of Structure or facility	Weir	Name of the structure or facility	Hassan afndy weir	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	B
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent			
<b>Additional Survey, if any</b>	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	6	Recommend the reconstruction with changing to the suitable width of the vent
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	F23	Location of the structure or facility	nazla	
Type of Structure or facility	Weir	Name of the structure or facility	rawashdia weir	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	A
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged by weathering and difficulty of the fair water distribution. Need the reconstruction with changing to the suitable width of the vent			
<b>Additional Survey, if any</b>	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	3	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	8	Recommend the reconstruction widening the vent
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F24	Location of the structure or facility	nazla	
Type of Structure or facility	Weir	Name of the structure or facility	mezar	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	C
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	No problem. Because this structure had already reconstructed			
Additional Survey, if any	Nothing			

## Evaluation

C

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 20yrs and keep watching the condition and maintenance
Number of the Rank : B	2	
Number of the Rank : C	10	
Working life by empirical	<b>within 20yrs</b>	This structure had already reconstructed

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	F25	Location of the structure or facility	nazla	
Type of Structure or facility	Weir	Name of the structure or facility	Soleman	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The structure has been damaged on surface. Those damage will be dealt by rehabilitation. It is afraid of the scouring at downstream. Need the rehabilitation and protection work at downstream of the structure.			
Additional Survey, if any	The geographical survey at surround area, measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	1	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	3	
Number of the Rank : C	8	
Working life by empirical	within 10yrs	Recommend the rehabilitation of the protection work on downstream

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

# Evaluation by Consultant in Giza

## Data Sheet for the Evaluation

Reference Number of the structure or facility	G1	Location of the structure or facility	Giza canal	
Type of Structure or facility	Regulator	Name of the structure or facility	El ayat	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	Fatal or heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	Fatal or heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure has been damaged by weathering and the roughly rehabilitation in the past. Need the reconstruction of the structure and replace the gate.			
<b>Additional Survey, if any</b>	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	1	
Number of the Rank : C	7	Recommend the reconstruction of the structure and replace the gate.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	G2	Location of the structure or facility	Giza canal	
Type of Structure or facility	Regulator	Name of the structure or facility	Abu rag wan	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	Fatal or heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	Fatal or heavy	light	little or no	B
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure and gate are not so bad. However, much garbage prevent fair distribution. Need the removal of the garbage, rehabilitation of the gate and sturcture on surface.			
<b>Additional Survey, if any</b>	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

B

Items	number	evaluation
Number of the Rank : A	0	Need the some works within 10yrs and keep watching the condition and maintenance
Number of the Rank : B	7	
Number of the Rank : C	5	Recommend the removal of the garbage, rehabilitation of the gate and the sturcture on surface.
Working life by empirical	<b>within 10yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	G3	Location of the structure or facility	Giza canal	
Type of Structure or facility	Regulator	Name of the structure or facility	El Hawamdia	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	Fatal or heavy	light	little or no	B
8 Damage of the mechanical facility or steel material	Fatal or heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
<b>Remarks, if any</b>	The structure is not so bad. However gates can not work almost. Only one gate at right side is working now. Need the replace all the gates and rehabilitation of the structure. Need the removal of the garbage.			
<b>Additional Survey, if any</b>	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	5	
Number of the Rank : C	5	Recommend the replace all the gates, rehabilitation of structure and removal of the garbage.
Working life by empirical	<b>within 5yrs</b>	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	G4	Location of the structure or facility	El Mansoria canal	
Type of Structure or facility	Intake	Name of the structure or facility	El Mansoria intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	C
6 Crack or scouring of part on structure	many	not so many	few or no	C
7 Settling of the structure or mechanical facility or steel material	Fatal or heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	Fatal or heavy	light	little or no	C
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	C
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The much garbage prevent the suitable distribution. Need the removal of the garbage and rehabilitation of the structure on surface.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

C

Items	number	evaluation
Number of the Rank : A	0	<b>Need the some works within 20yrs and keep watching the condition and maintenance</b>
Number of the Rank : B	3	
Number of the Rank : C	9	
Working life by empirical	<b>within 20yrs</b>	Recommend the removal of the garbage and rehabilitation of the structure on surface. And recommend to expire these gates, because new one is at dwonstream.

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason



## Data Sheet for the Evaluation

Reference Number of the structure or facility	G5	Location of the structure or facility	El zomaor canal	
Type of Structure or facility	Intake	Name of the structure or facility	El zomaor intake	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	B
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	B
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	A
6 Crack or scouring of part on structure	many	not so many	few or no	A
7 Settling of the structure or mechanical facility or steel material	Fatal or heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	Fatal or heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	B
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	B
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The much garbage prevent the suitable distribution. The structure body has been damaged by the weathering. Need the reconstruction and replace the gates.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

A

Items	number	evaluation
Number of the Rank : A	4	Need the suitable works Urgently within 5yrs
Number of the Rank : B	4	
Number of the Rank : C	4	Recommend the reconstruction and replace the gates.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason

## Data Sheet for the Evaluation

Reference Number of the structure or facility	AG1	Location of the structure or facility	El Mansoria canal	
Type of Structure or facility	Regulator	Name of the structure or facility	El Mansoria regulator	
<b>ITEMS</b>	<b>Rank : A</b>	<b>Rank : B</b>	<b>Rank : C</b>	<b>Selection of Rank</b>
<b>Hydraulic performance</b>				
1 Actual water level	very low level or Actual<2/3Plan	low level or 1/3 Plan<Actual<2/3Plan	enough	C
2 Fair discharge volume	hard to fair water	difficult to fair water	not difficult or suitable to fair water	C
3 Sedimentation around the structure	-----	much vol.	not so much	C
4 Garbage around the structure	-----	much vol.	not so much	C
<b>Structure stability</b>				
5 Weathering of the structure	Fatal or heavy	light	few or no	B
6 Crack or scouring of part on structure	many	not so many	few or no	B
7 Settling of the structure or mechanical facility or steel material	Fatal or heavy	light	little or no	C
8 Damage of the mechanical facility or steel material	Fatal or heavy	light	little or no	A
<b>Rehabilitation in past time</b>				
9 Times of the rehabilitation	-----	not experienced but need the rehabilitation	more than one (1)	C
<b>Social environment</b>				
10 Condition of the surround	-----	density area or main road	not so density area	C
<b>Operation and Maintenance</b>				
11 Problem of Operation	Fatal problem (not working all etc.)	some problem (not working some etc.)	few or no problem	A
12 Cost for maintenance at present	-----	high	not so high	C
Remarks, if any	The gates can not work and can not regulate the water. Need the rehabilitation of the structure on surface and replace the gates.			
Additional Survey, if any	The geographical survey at surround area, geological survey (at least one boring), measurement in more detail of the structure, check of the discharge volume in a year.			

## Evaluation

Items	number	evaluation
Number of the Rank : A	2	Need the suitable works Urgently within 5yrs
Number of the Rank : B	2	
Number of the Rank : C	8	Recommend the rehabilitation of the structure on surface and replace the gates.
Working life by empirical	within 5yrs	

"Need the suitable works Urgently within 5yrs" ---- "Rank: A" = 2-12, anyway

"Need the some works within 10yrs and keep watching the condition and maintenance" ---- " Rank:A = 1 ", anyway or " Rank:B = 6-12 and Rank:C = 0-6 "

"Need the some works within 20yrs and keep watching the condition and maintenance" ---- "Rank: A" = 0 and Rank: B = 0-5"

\*\*\* : Evaluation does not depend on target structure but other condition or reason




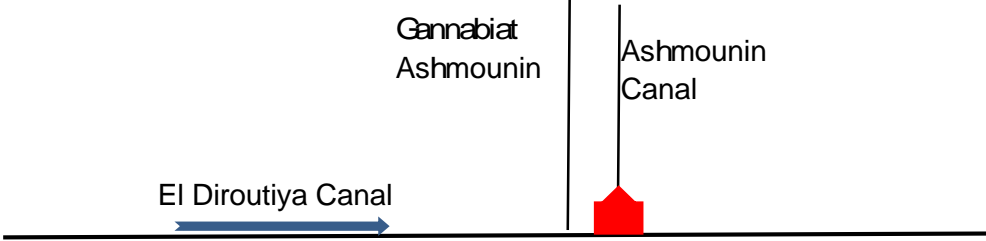
# Data Sheet by Consultant in Minya

Item	Number of Structure	Remarks
Intake	31	
Regulator	14	
Tail escape	5	
Culvert	0	
Siphon	1	
Aqueduct	0	
Bridge	6	
Weir	0	
Others	0	
Additional Structure	3	
<b>Total Structure</b>	<b>60</b>	

# Data Sheet for the Minor Structure

# For Intake




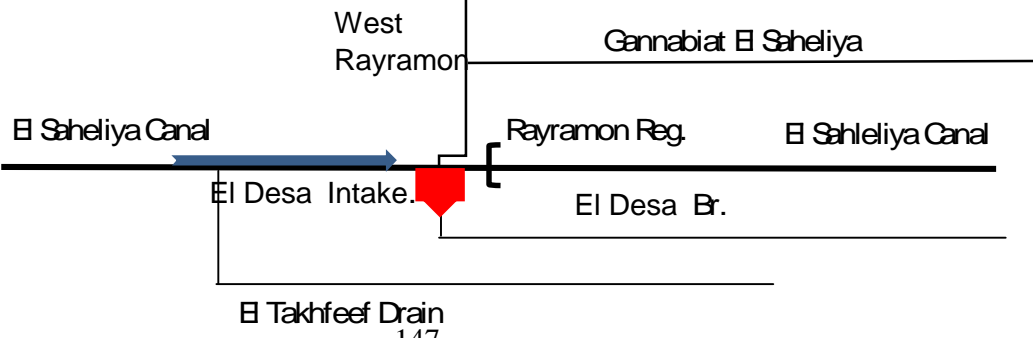
# M1

1. Name	Al Ashmonin canal	2- Construction Year	1920
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al Dairotiya canal	
5. Command Area (feddan)	9,225	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	4.06 m3/s
7. Length of Canal downstream the structure (km)			19.500
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>1,000,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and replace the gates	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by failure and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.10
2) Gate Width (m)			3.00
3) Number of Vent (How many ?)			2
4) Up stream water level EL(m)			Up Stream EL43.90
5) Down stream water level EL(m)			Down Stream EL43.55
6) Bed level EL(m)			EL41.30
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p>Gannabiat Ashmounin</p> <p>Ashmounin Canal</p> <p>El Diroutiya Canal</p> <p>El Ashmounin Intake Km 23.00</p> 		
	146		

# Data Sheet for the Minor Structure

# For Intake





# M2

1. Name	Al Desa canal	2- Construction Year	1918
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al Sahliya canal	
5. Command Area (feddan)	2,575	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.13 m3/s
7. Length of Canal downstream the structure (km)			5.680
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>500,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and replace the gates	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration by deterioration. The gate can not work suitable. The much garbage prevet the fair water.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			4.40
2) Gate Width (m)			2.50
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL44.30
5) Down stream water level EL(m)			Down Stream EL43.10
6) Bed level EL(m)			EL42.20
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			
	<p style="text-align: center;">147</p>		

# Data Sheet for the Minor Structure

# For Intake




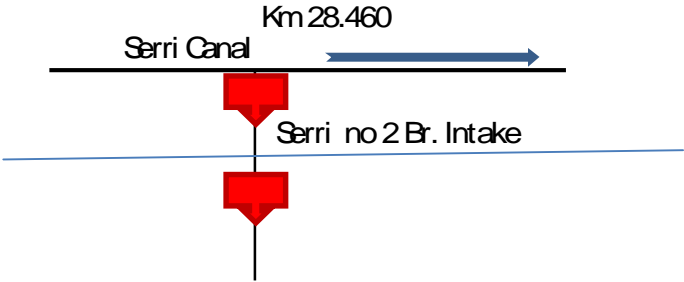
# M3

1. Name	1 Serry Branch	2. Construction Year	1930
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Serry Canal at Km 27.525	
5. Command Area (feddan)	300	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.13 m3/s
7. Length of Canal downstream the structure (km)			1.340
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>200,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and replace the gates	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by deterioration	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.50
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL39.60
5) Down stream water level EL(m)			Down Stream EL39.50
6) Bed level EL(m)			EL38.30
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">Km 27.525</p> <p style="text-align: center;">Serry Canal <span style="color: blue;">→</span></p> <p style="text-align: center;">   Serry no 1 Br. Intake         </p>		
	148		

# Data Sheet for the Minor Structure

# For Intake




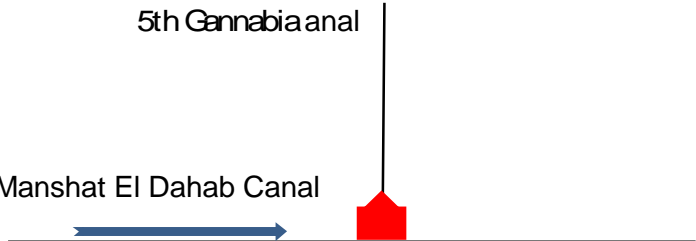
# M4

1. Name	2 Seery Branch	2. Construction Year	1930
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Serry Canal at Km 28.460	
5. Command Area (feddan)	500	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.22 m3/s
7. Length of Canal downstream the structure (km)			2.480
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>200,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and preferable replace the gates at the same time.	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate has not been so damaged. It is afraid of the weight of the vehicle.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.00
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL39.50
5) Down stream water level EL(m)			Down Stream EL39.40
6) Bed level EL(m)			EL37.80
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			bad
9) Gate condition / Excellent, Good, Bad, Already Expire			not so bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">Km 28.460 Serry Canal → ↓ Serry no 2 Br. Intake ↓</p>		

Data Sheet for the Minor Structure

For Intake

M5




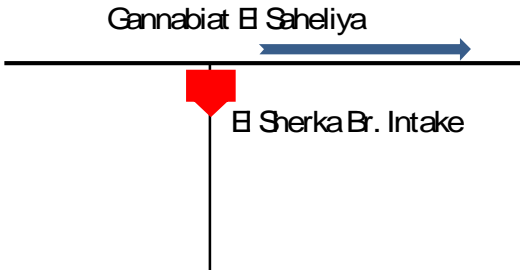
1. Name	5 th Branch canal	2. Construction Year	1920
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Bahab canal ( 33.15)	
5. Command Area (feddan)	1,850	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.81 m3/s
7. Length of Canal downstream the structure (km)			4.300
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			300,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction and replace the gates. preferable the construction of the new one out of village Zone toward northern (300m).	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and much garbage.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			concrete
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.00
2) Gate Width (m)			2.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL37.00
5) Down stream water level EL(m)			Down Stream EL36.37
6) Bed level EL(m)			EL35.82
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			1 yr (by original data sheet)
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">5th Gannabia anal</p>  <p style="text-align: center;">Manshat El Dahab Canal</p> <p style="text-align: center;">5th Gannabia Intake</p>		



Data Sheet for the Minor Structure

For Intake


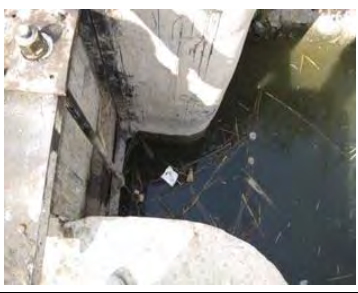
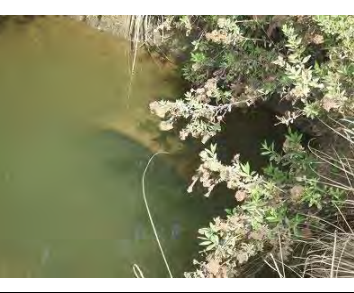
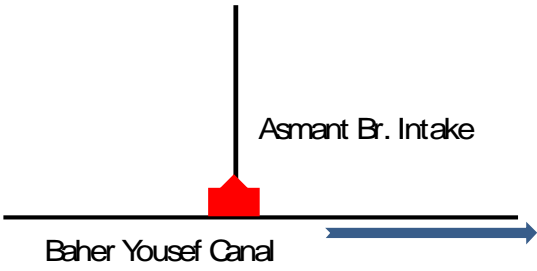
M6

1. Name	Al sharka canal	2- Construction Year	1920
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al sahliya canal	
5. Command Area (feddan)	1,020	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.45 m3/s
7. Length of Canal downstream the structure (km)			1.758
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>200,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and replace the gates	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the deterioration and much garbage.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			4.00
2) Gate Width (m)			2.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL45.35
5) Down stream water level EL(m)			Down Stream EL44.90
6) Bed level EL(m)			EL43.00
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			bad
9) Gate condition / Excellent, Good, Bad, Already Expire			bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			1 yr (by original data sheet)
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p>Gannabiat El Sahliya</p> 		
	<p>151</p>		

# Data Sheet for the Minor Structure

# For Intake




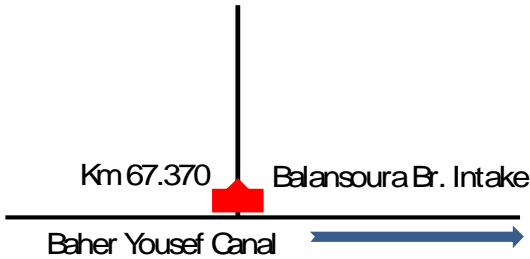
# M7

1. Name	Asmant Intake	2. Construction Year	1901
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Bahr yosef canal km (63.450)	
5. Command Area (feddan)	2,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.88 m3/s
7. Length of Canal downstream the structure (km)			2.450
8. Necessary works for improvement / Rehabilitation or Reconstruction			Rehabilitation
9. Commencement of the necessary works for improvement			<u>Within 10 yrs</u>
10. Cost of the necessary works for improvement			<u>30,000 LE</u>
11. Contents of the necessary works for improvement		Need the maintenance of the gate and rehabilitation of the structure.	
12. Existing problems of the structure		The structure is not so bad, the gate has been not so damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick-Mason
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.50
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL39.90
5) Down stream water level EL(m)			Down Stream EL39.80
6) Bed level EL(m)			EL39.10
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			not so bad
9) Gate condition / Excellent, Good, Bad, Already Expire			not so bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet for the Minor Structure

For Intake




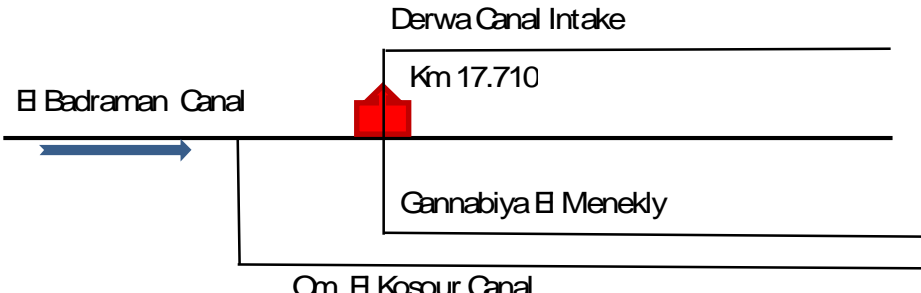
M8

1. Name	Balansora Intake	2. Construction Year	1910
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Bahr yosef km(67.370)	
5. Command Area (feddan)	1,500	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.66 m3/s
7. Length of Canal downstream the structure (km)			2.760
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			300,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction and replace the gates	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Concrete
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.00
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL39.60
5) Down stream water level EL(m)			N
6) Bed level EL(m)			EL39.10
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			
	153		

Data Sheet for the Minor Structure

For Intake




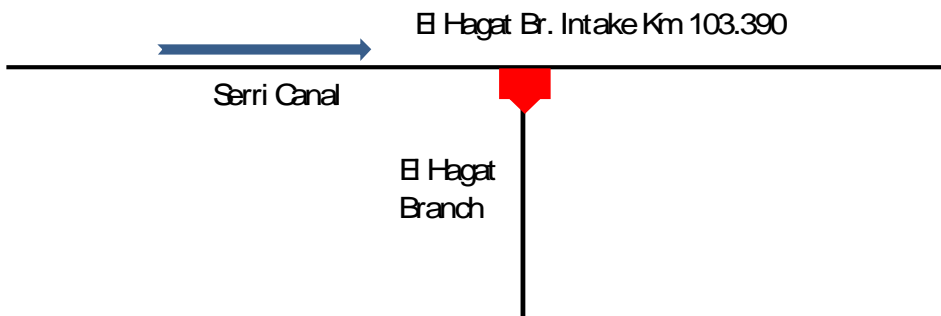
M9

1. Name	Derwa canal	2- Construction Year	1919
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al Badraman canal at km 17.710	
5. Command Area (feddan)	820	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.36 m3/s
7. Length of Canal downstream the structure (km)			2.580
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>300,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and replace the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the deterioration and much garbage.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.10
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL44.10
5) Down stream water level EL(m)			Down Stream EL43.75
6) Bed level EL(m)			EL42.64
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			bad
9) Gate condition / Excellent, Good, Bad, Already Expire			bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			---
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">Derwa Canal Intake Km 17.710 El Badraman Canal Gannabiya El Menekly Om El Kosour Canal</p>		

# Data Sheet for the Minor Structure

# For Intake




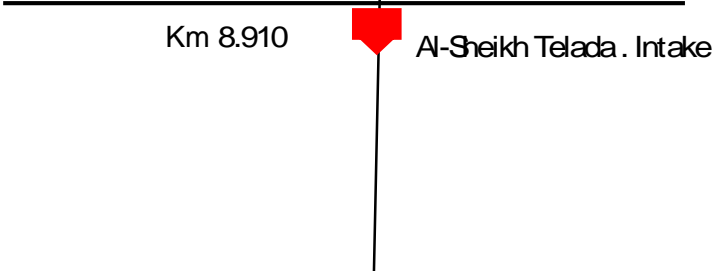
# M10

1. Name	AL-Hagat Intake	2. Construction Year	1970
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Serry Canal	
5. Command Area (feddan)	430	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.19 m3/s
7. Length of Canal downstream the structure (km)			3.180
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>350,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and preferable replace the gate at same time.	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate has not been damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.50
2) Gate Width (m)			1.20
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL33.50
5) Down stream water level EL(m)			Down Stream EL33.45
6) Bed level EL(m)			EL32.20
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			not so bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">  </p>		

# Data Sheet for the Minor Structure

# For Intake




# M11

1. Name	Al-Sheikh Kelada	2. Construction Year	1970
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Serry Canal	
5. Command Area (feddan)	350	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.15 m3/s
7. Length of Canal downstream the structure (km)			0.740
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			300,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction and replace the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work at all by the failure.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			----
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL36.10
5) Down stream water level EL(m)			Down Stream EL36.00
6) Bed level EL(m)			EL35.00
7) Gate type / Wood, Steal, Others, Nothing			No
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			----
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any		Water depth 1.30m	
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p>Baqarlank canal</p> <p>→</p> <p>Km 8.910</p> <p>Al-Sheikh Telada . Intake</p>		
			

# Data Sheet for the Minor Structure

# For Intake




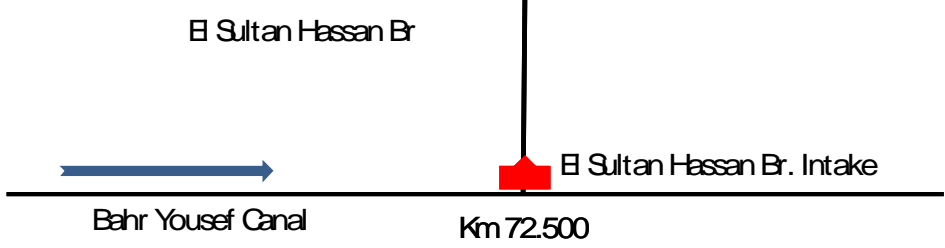
# M12

1. Name	Al_Sheikh Yousef	2. Construction Year	1980
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Serry Canal	
5. Command Area (feddan)	540	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.24 m3/s
7. Length of Canal downstream the structure (km)			3.200
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			300,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction and preferable replace the gate at same time.	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate has not been damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.50
2) Gate Width (m)			1.20
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL35.90
5) Down stream water level EL(m)			Down Stream EL35.80
6) Bed level EL(m)			EL35.00
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			not so bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">El Shaikh Yousef Br</p> <p style="text-align: center;">↓</p> <p style="text-align: center;">El Shaikh Yousef Br. Intake</p> <p style="text-align: center;">Km 1.810</p> <p style="text-align: center;">← El Dair Canal →</p>		
	157		

Data Sheet for the Minor Structure

For Intake

M13




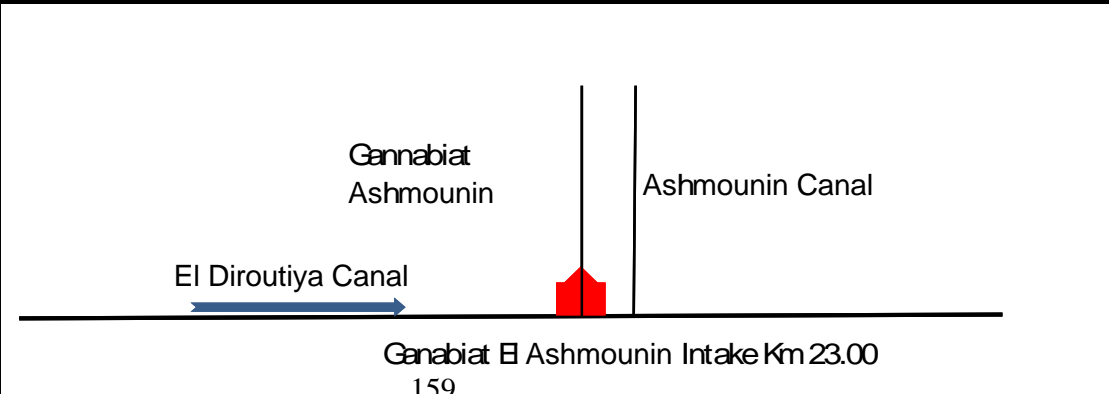
1. Name	El Sultan hassan	2. Construction Year	1910
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Bahr yosef km (69.240)	
5. Command Area (feddan)	600	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.26 m3/s
7. Length of Canal downstream the structure (km)			2.400
8. Necessary works for improvement / Rehabilitation or Reconstruction			Rehabilitation
9. Commencement of the necessary works for improvement			<u>Within 5 yrs</u>
10. Cost of the necessary works for improvement			<u>50,000 LE</u>
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure and replace the gate	
12. Existing problems of the structure		The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate can not work suitable by the deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.50
2) Gate Width (m)			3.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL39.80
5) Down stream water level EL(m)			N
6) Bed level EL(m)			EL39.00
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	surround	Side or Behind
			
16. Location / Also show the Location other MAP			



Data Sheet for the Minor Structure

For Intake




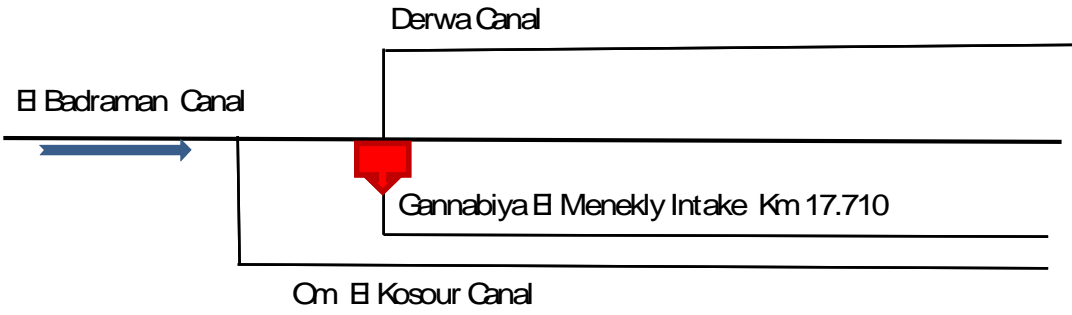
**M14**

1. Name	Ganabyia Al Ashmonin canal	2- Construction Year	1920
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al Dairotiya canal	
5. Command Area (feddan)	1,300	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.57 m3/s
7. Length of Canal downstream the structure (km)			4.560
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Rehabilitation</u>
9. Commencement of the necessary works for improvement			<u>Within 5 yrs</u>
10. Cost of the necessary works for improvement			<u>400,000 LE</u>
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure and replace the gate.	
12. Existing problems of the structure		The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate can not work suitable by the failure.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.00
2) Gate Width (m)			3.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL43.90
5) Down stream water level EL(m)			Down Stream EL43.60
6) Bed level EL(m)			EL43.15
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
 <p style="text-align: center;">Ganabiat El Ashmounin Intake Km 23.00</p>			

# Data Sheet for the Minor Structure

# For Intake




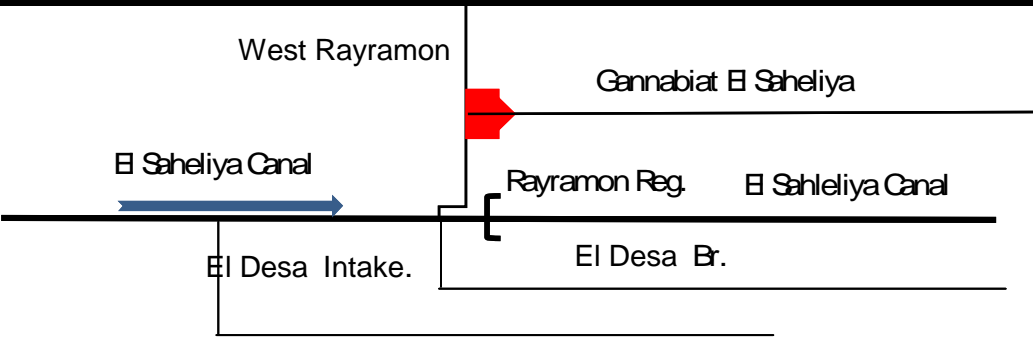
# M15

1. Name	Ganabiya Al Maniekly canal	2- Construction Year	1919
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al Badraman canal	
5. Command Area (feddan)	1,020	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.45 m3/s
7. Length of Canal downstream the structure (km)			6.245
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>350,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and preferable replace the gate at same time.	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate has not been so damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.15
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL44.10
5) Down stream water level EL(m)			Down Stream EL43.50
6) Bed level EL(m)			EL42.50
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			bad
9) Gate condition / Excellent, Good, Bad, Already Expire			not so bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			
	160		

# Data Sheet for the Minor Structure

# For Intake




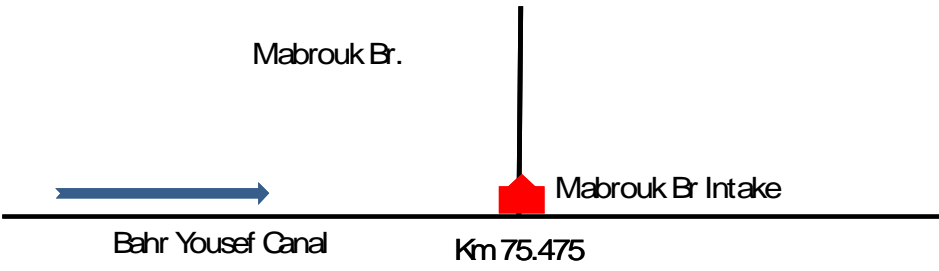
# M16

1. Name	Ganabyia Al Sahliya canal	2- Construction Year	1920
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al Sahliya canal	
5. Command Area (feddan)	444	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.20 m3/s
7. Length of Canal downstream the structure (km)			3.670
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Rehabilitation</u>
9. Commencement of the necessary works for improvement			<u>Within 5 yrs</u>
10. Cost of the necessary works for improvement			<u>50,000 LE</u>
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure and replace the gate	
12. Existing problems of the structure		The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate can not work suitable by the deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.50
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL44.30
5) Down stream water level EL(m)			Down Stream EL43.55
6) Bed level EL(m)			EL42.00
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p>West Rayramon</p> <p>Gannabat El Sahliya</p> <p>El Sahliya Canal</p> <p>Rayramon Reg. El Sahliya Canal</p> <p>El Desa Intake. El Desa Br.</p> <p>El Takhfeef Drain</p>		
			

Data Sheet for the Minor Structure

For Intake





M17

1. Name	Mabrouk Intake	2. Construction Year	1902
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Bahr yosef canal km (75.475)	
5. Command Area (feddan)	2,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.88 m3/s
7. Length of Canal downstream the structure (km)			3.380
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			400,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction and replace the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.00
2) Gate Width (m)			1.50
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL39.75
5) Down stream water level EL(m)			N
6) Bed level EL(m)			EL39.00
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			1 yr (by original data sheet)
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p>Mabrouk Br.</p>  <p>Bahr Yousef Canal Km 75.475 Mabrouk Br Intake</p>		

Data Sheet for the Minor Structure

For Intake




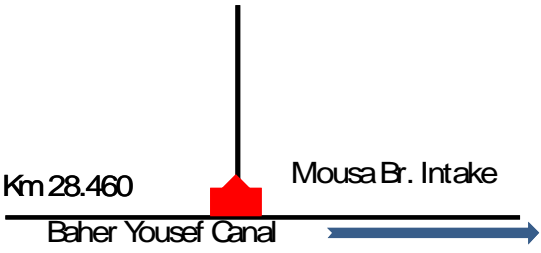
M18

1. Name	Mahmoud canal	2- Construction Year	1917
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al Badraman canal at km 12.100	
5. Command Area (feddan)	880	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.39 m3/s
7. Length of Canal downstream the structure (km)			7.323
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Rehabilitation</u>
9. Commencement of the necessary works for improvement			Within 10 yrs
10. Cost of the necessary works for improvement			100,000 LE
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure and maintenance of the gate	
12. Existing problems of the structure		The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate has not been damaged	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.60
2) Gate Width (m)			1.10
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL44.50
5) Down stream water level EL(m)			Down Stream EL44.35
6) Bed level EL(m)			EL42.85
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			not so bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">Mahmoud Canal</p>  <p style="text-align: center;">El Badraman Canal      Mahmoud Canal Intake Km 12.100</p>		

Data Sheet for the Minor Structure

For Intake




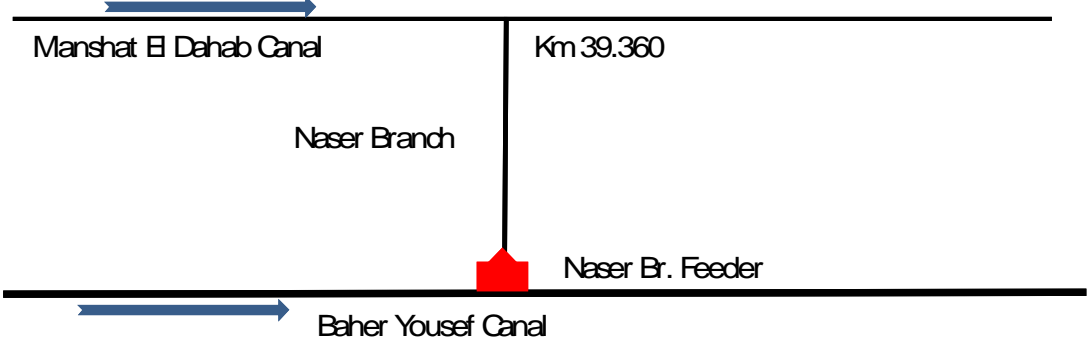
M19

1. Name	Moussa	2. Construction Year	1990
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Bahr yosef at km 28.460	
5. Command Area (feddan)	300	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.13 m3/s
7. Length of Canal downstream the structure (km)			2.450
8. Necessary works for improvement / Rehabilitation or Reconstruction			<b>no need</b>
9. Commencement of the necessary works for improvement			<u>Within 20 yrs</u>
10. Cost of the necessary works for improvement			----
11. Contents of the necessary works for improvement		This structure finish the reconstruction already.	
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Concrete
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.00
2) Gate Width (m)			2.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL39.70
5) Down stream water level EL(m)			Down Stream EL29.80
6) Bed level EL(m)			EL39.10
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			1 yr (by original data sheet)
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">Km 28.460      Moussa Br. Intake Baher Yousef Canal</p>		

# Data Sheet for the Minor Structure

# For Intake




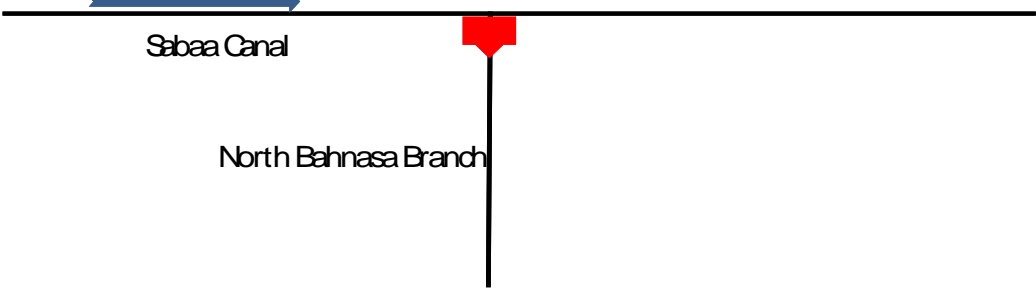
# M20

1. Name	Nasser Feeder	2. Construction Year	1936
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Dahab canal	
5. Command Area (feddan)	250	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.11 m3/s
7. Length of Canal downstream the structure (km)			1.700
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Rehabilitation</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>100,000 LE</u>
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure and replace the gate	
12. Existing problems of the structure		The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate can not work suitable by the failure.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.50
2) Gate Width (m)			1.20
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL31.90
5) Down stream water level EL(m)			N
6) Bed level EL(m)			EL30.40
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			bad
9) Gate condition / Excellent, Good, Bad, Already Expire			bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			
	165		

# Data Sheet for the Minor Structure

# For Intake

# M21

1. Name	North Bahnasa canal	2. Construction Year	1980
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Bahr yosef - sabaa canal	
5. Command Area (feddan)	2,100	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.92 m3/s
7. Length of Canal downstream the structure (km)			4.830
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Rehabilitation</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			450,000 LE
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure and replace the gate	
12. Existing problems of the structure		The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The surafce of gate can be seen rust.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			concrete
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.20
2) Gate Width (m)			1.45
3) Number of Vent (How many ?)			2
4) Up stream water level EL(m)			Up Stream EL31.90
5) Down stream water level EL(m)			Down Stream EL31.60
6) Bed level EL(m)			EL31.40
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			



# Data Sheet for the Minor Structure

# For Intake




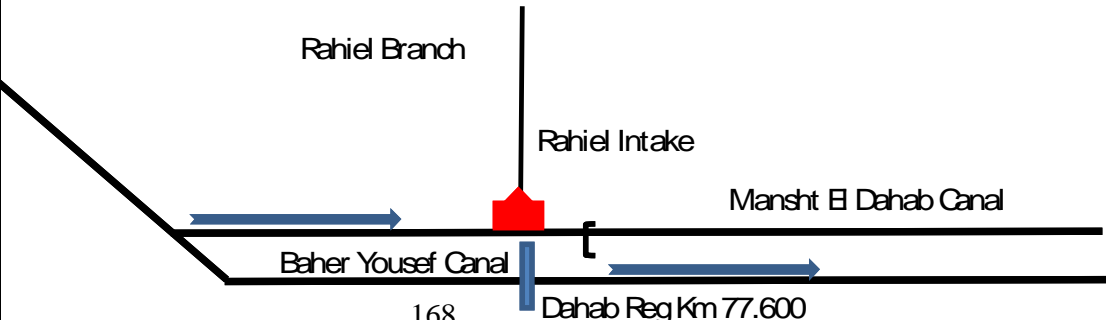
# M22

1. Name	Om El Kousour canal	2- Construction Year	1919
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al Badraman canal	
5. Command Area (feddan)	1,395	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.61 m3/s
7. Length of Canal downstream the structure (km)			5.560
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Rehabilitation</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>300,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction of the structure and preferable replace the gate at same time.	
12. Existing problems of the structure		The structure has been damaged by weathering. The gate has not been so damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.60
2) Gate Width (m)			1.50
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL44.10
5) Down stream water level EL(m)			Down Stream EL43.60
6) Bed level EL(m)			EL42.45
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			not so bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any		No	
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			
	<p style="text-align: center;">Derwa Canal</p> <hr/> <p style="text-align: center;">El Badraman Canal</p> <hr/> <p style="text-align: center;">Gannabiya El Menekly</p> <hr/> <p style="text-align: center;">Om El Kosour Canal</p>		

# Data Sheet for the Minor Structure

# For Intake




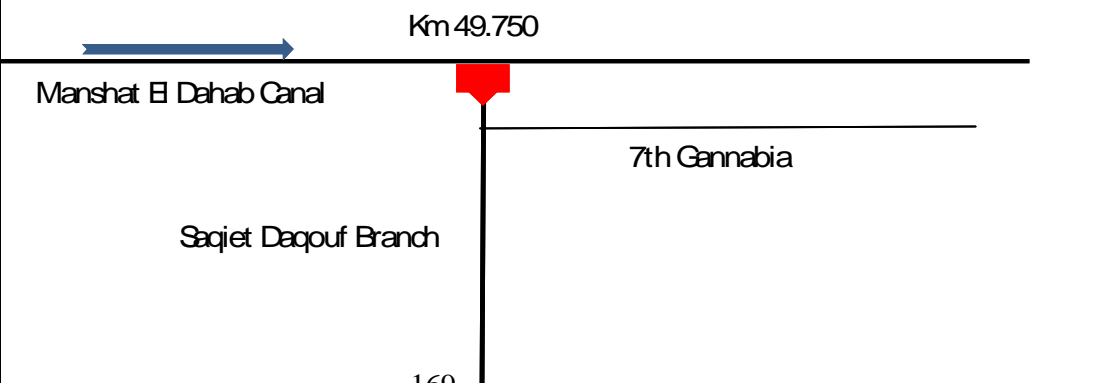
# M23

1. Name	Raheil intake	2. Construction Year	1902
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Dahab canal km (0.4)	
5. Command Area (feddan)	5,500	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.42 m3/s
7. Length of Canal downstream the structure (km)			2.500
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			300,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction and replace of the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Mason Bricks
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.70
2) Gate Width (m)			3.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL39.00
5) Down stream water level EL(m)			Down Stream EL38.00
6) Bed level EL(m)			EL37.00
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Already Expire
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet for the Minor Structure

For Intake




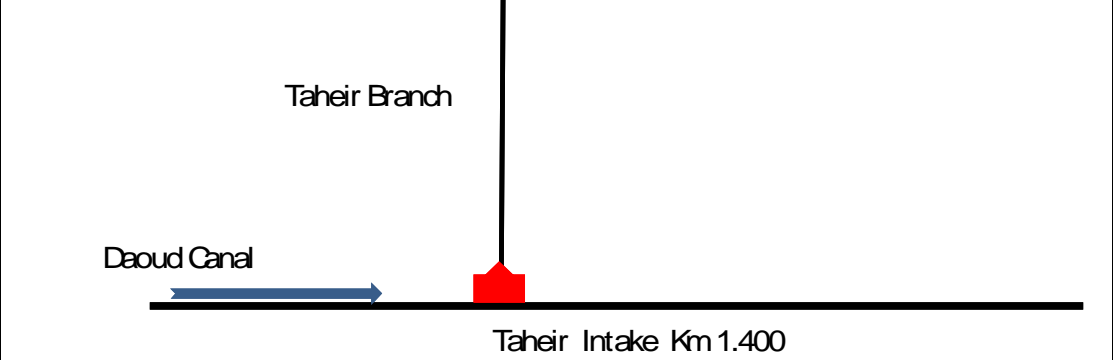
**M24**

1. Name	Sakiet Dakouf	2. Construction Year	1910
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Dahab canal km (49.75)	
5. Command Area (feddan)	2,280	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.00 m3/s
7. Length of Canal downstream the structure (km)			3.800
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Maintenance</u>
9. Commencement of the necessary works for improvement			<u>Within 10 yrs</u>
10. Cost of the necessary works for improvement			<u>50,000 LE</u>
11. Contents of the necessary works for improvement		Need to keep the maintenace of the gate	
12. Existing problems of the structure		The structure is not so bad. The gate has not been so damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Bricks
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.50
2) Gate Width (m)			1.10
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL35.20
5) Down stream water level EL(m)			Down Stream EL34.10
6) Bed level EL(m)			EL34.55
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			<u>not so bad</u>
9) Gate condition / Excellent, Good, Bad, Already Expire			Good
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	Km 49.750		
			

# Data Sheet for the Minor Structure

# For Intake




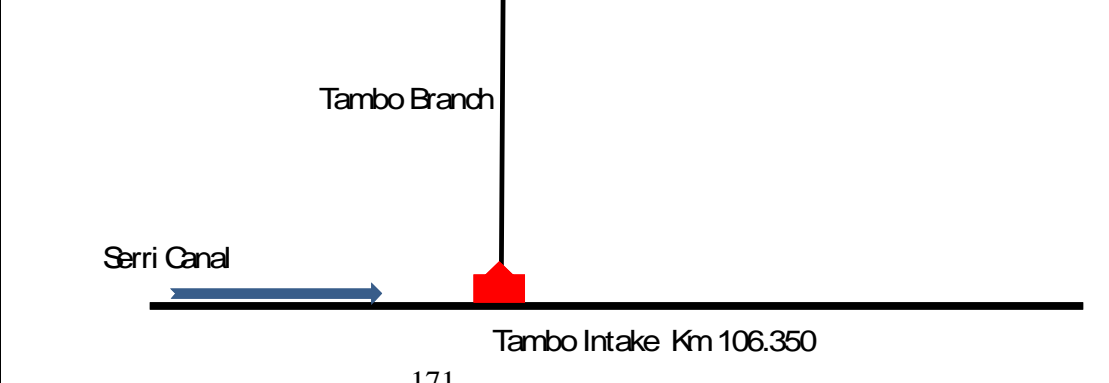
# M25

1. Name	taheir intake	2. Construction Year	1908
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Dawood main canal	
5. Command Area (feddan)	200	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.09 m3/s
7. Length of Canal downstream the structure (km)			0.910
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Rehabilitation</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>100,000 LE</u>
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure and replace the gate	
12. Existing problems of the structure		The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate on the surface can seen rust	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Bricks
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.40
2) Gate Width (m)			1.10
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL37.20
5) Down stream water level EL(m)			36,80
6) Bed level EL(m)			EL36.30
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">Taheir Branch</p> <p style="text-align: center;">  </p> <p style="text-align: center;">Daoud Canal</p> <p style="text-align: center;">Taheir Intake Km 1.400</p>		
	170		

# Data Sheet for the Minor Structure

# For Intake




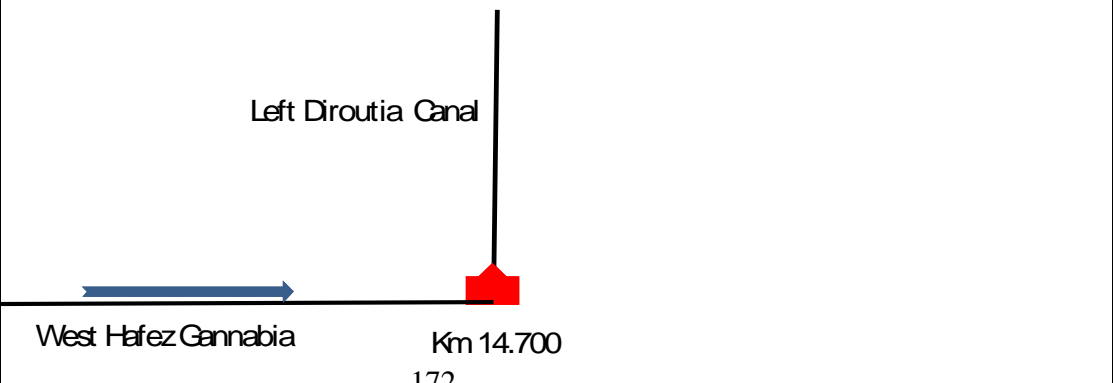
# M26

1. Name	Tambo intake	2. Construction Year	1970
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			intake
4. Canal's name / Main canal name		Ebrahemia canal / serry canal at km 106.350	
5. Command Area (feddan)	400	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.18 m3/s
7. Length of Canal downstream the structure (km)			2.400
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>500,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and replace of the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.50
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1 vent +1*0.5m dia. Pipe
4) Up stream water level EL(m)			Up Stream EL33.30
5) Down stream water level EL(m)			Down Stream EL33.25
6) Bed level EL(m)			EL32.20
7) Gate type / Wood, Steal, Others, Nothing			steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			---
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">Tambo Branch</p> <p style="text-align: center;">Serry Canal</p> <p style="text-align: center;">Tambo Intake Km 106.350</p>		

# Data Sheet for the Minor Structure

# For Intake




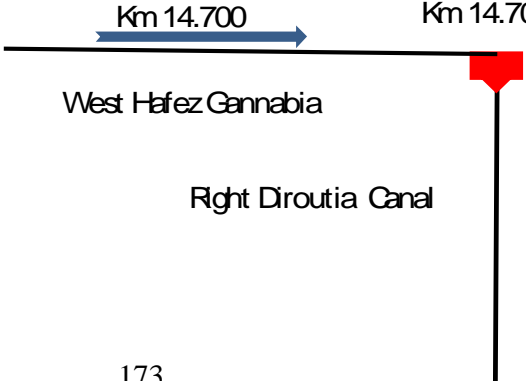
# M27

1. Name	The Left Dairotyia canal	2- Construction Year	1922
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		The west hafeze canal at km 14.700	
5. Command Area (feddan)	2,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.88 m3/s
7. Length of Canal downstream the structure (km)			6.100
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>300,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and replace of the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.20
2) Gate Width (m)			2.80
3) Number of Vent (How many ?)			1 (left side gate : M27, M28)
4) Up stream water level EL(m)			Up Stream EL41.10
5) Down stream water level EL(m)			Down Stream EL40.90
6) Bed level EL(m)			EL39.39
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Already expire
9) Gate condition / Excellent, Good, Bad, Already Expire			Already expire
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any		No	
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	Left Diroutia Canal		
			

Data Sheet for the Minor Structure

For Intake




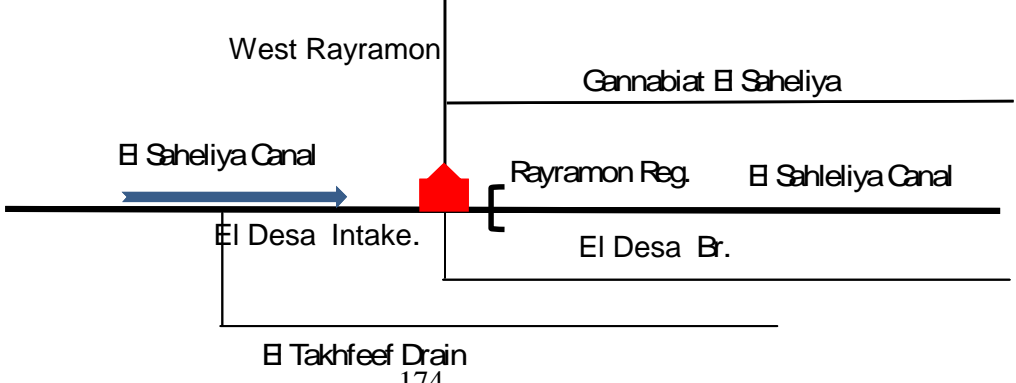
M28

1. Name	The Right Dairotyia canal	2- Construction Year	1922
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		The west hafeze canal	
5. Command Area (feddan)	750	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.33 m3/s
7. Length of Canal downstream the structure (km)			4.480
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>300,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and replace of the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.20
2) Gate Width (m)			2.80
3) Number of Vent (How many ?)			1 (right side gate : M27, M28)
4) Up stream water level EL(m)			Up Stream EL41.10
5) Down stream water level EL(m)			Down Stream EL40.65
6) Bed level EL(m)			EL39.85
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Already expire
9) Gate condition / Excellent, Good, Bad, Already Expire			Already expire
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any		No	
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">Km 14.700 <span style="color: blue;">→</span> Km 14.700</p> <p style="text-align: center;">West Hafez Gannabia</p> <p style="text-align: center;">Right Diroutia Canal</p>		
			

# Data Sheet for the Minor Structure

# For Intake

# M29




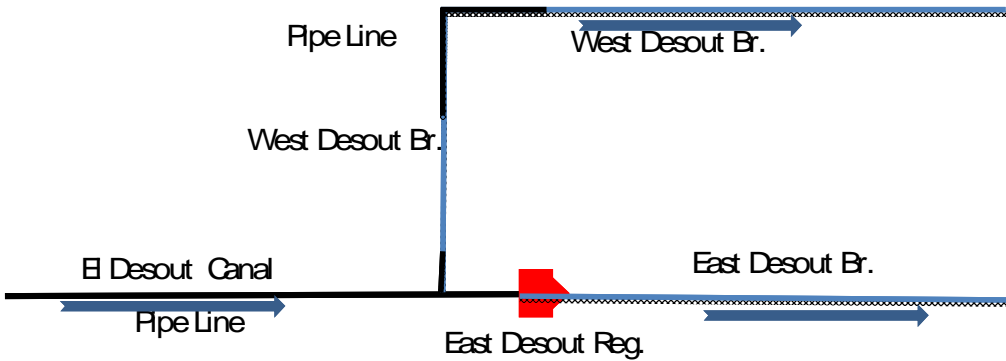
1. Name	The West Rayramon canal	2- Construction Year	1918
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al Sahliya canal	
5. Command Area (feddan)	1,750	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.77 m3/s
7. Length of Canal downstream the structure (km)			0.875
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Rehabilitation</u>
9. Commencement of the necessary works for improvement			<u>Within 10 yrs</u>
10. Cost of the necessary works for improvement			<u>100,000 LE</u>
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure, the gate and removal of the garbage.	
12. Existing problems of the structure		The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate has not been so damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Concrete
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.10
2) Gate Width (m)			2.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL44.65
5) Down stream water level EL(m)			Down Stream EL44.30
6) Bed level EL(m)			EL42.35
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			



# Data Sheet for the Minor Structure

# For Regulator

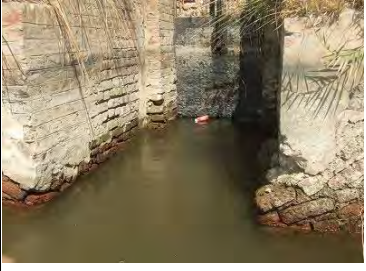


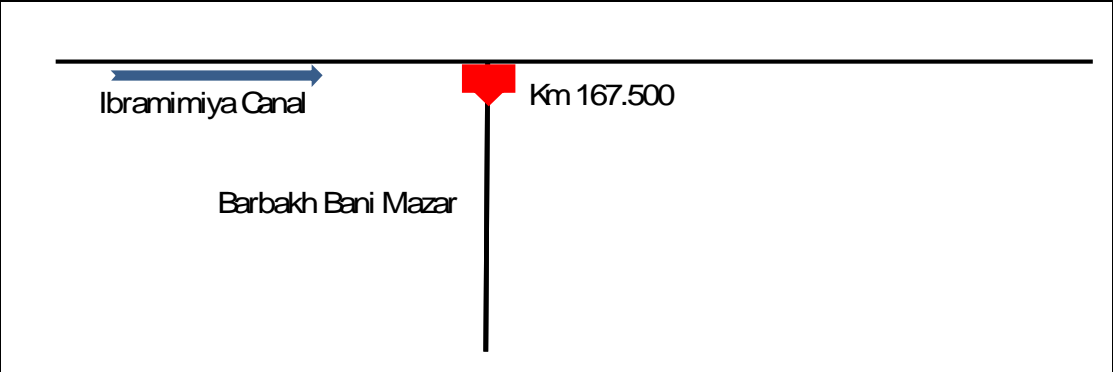
# M30

1. Name	East Desout	2. Construction Year	N
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Desout / Ebraheemeyya	
5. Command Area (feddan)	1,200	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.53 m3/s
7. Length of Canal downstream the structure (km)			3.870
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction (need sytudy)
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			200,000 LE
11. Contents of the necessary works for improvement		The structure need the function of the reguration, however this structure does not the function of the reguration. Need more study to make clear of the function of the structure.	
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Other			
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)		----	
2) Gate Width (m)		----	
3) Number of Vent (How many ?)		----	
4) Up stream water level EL(m)		----	
5) Down stream water level EL(m)		----	
6) Bed level EL(m)		----	
7) Gate type / Wood, Steal, Others, Nothing		----	
8) Structure condition / Excellent, Good, Bad, Already Expire		----	
9) Gate condition / Excellent, Good, Bad, Already Expire		----	
10) How often the maintenance / every half year or 1 year ... nothing... etc.		1 yr (by original data sheet)	
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

# Data Sheet for the Minor Structure

# For Intake




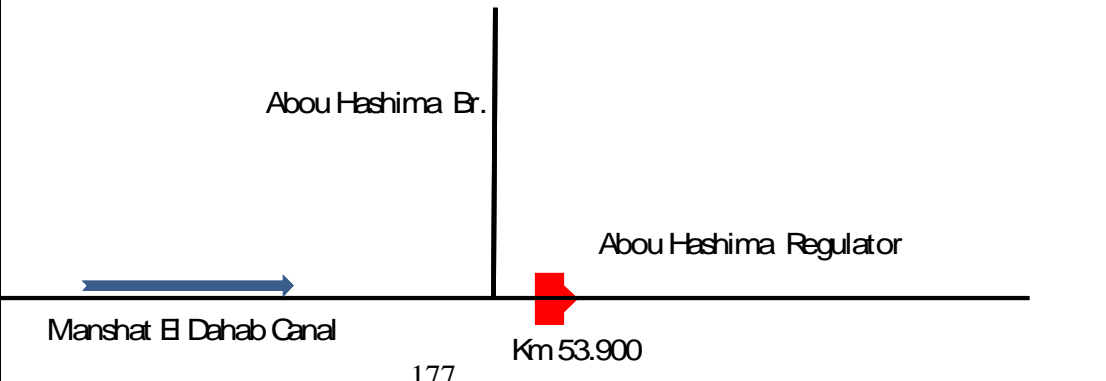
# M31

1. Name	Barbakh Bani Mazar	2. Construction Year	1970
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Ebraheemeyya	
5. Command Area (feddan)	1,400	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.62 m3/s
7. Length of Canal downstream the structure (km)			4.170
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Rehabilitation</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>100,000 LE</u>
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure and replace of the gate.	
12. Existing problems of the structure		The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate has been damaged and can not work suitable by the failure.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.50
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL35.00
5) Down stream water level EL(m)			Down Stream EL34.84
6) Bed level EL(m)			EL33.80
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			not so bad
9) Gate condition / Excellent, Good, Bad, Already Expire			bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			1 yr (by original data sheet)
11) Please write remarks, if any		The existing section is enough for the required discharge	
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p>Ibramimiya Canal → Km 167.500</p> <p>Barbakh Bani Mazar</p>		

Data Sheet for the Minor Structure

For Regulator




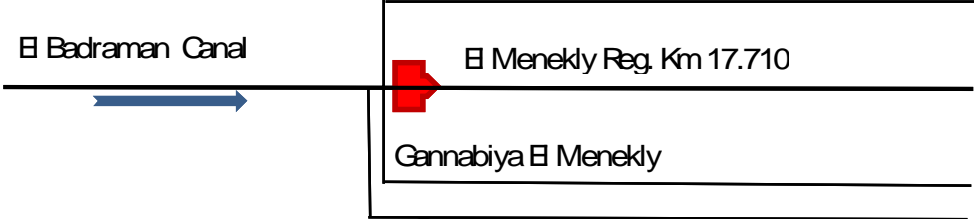
M32

1. Name	Abu Hashima	2. Construction Year	1904
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Menshat Al-Dahab	
5. Command Area (feddan)	3,700	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.63 m3/s
7. Length of Canal downstream the structure (km)			9.100
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Rehabilitation</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>300,000 LE</u>
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure (reconstruction at front of the intake) and preferabel replace the gate.	
12. Existing problems of the structure		The structure has been damaged by weathering, however these damage seem at surround the gate. The gate has not been so damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.20
2) Gate Width (m)			2.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL35.40
5) Down stream water level EL(m)			Down Stream EL35.20
6) Bed level EL(m)			EL34.10
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			bad
9) Gate condition / Excellent, Good, Bad, Already Expire			not so bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	Abou Hashima Br.		
			

Data Sheet for the Minor Structure

For Regulator




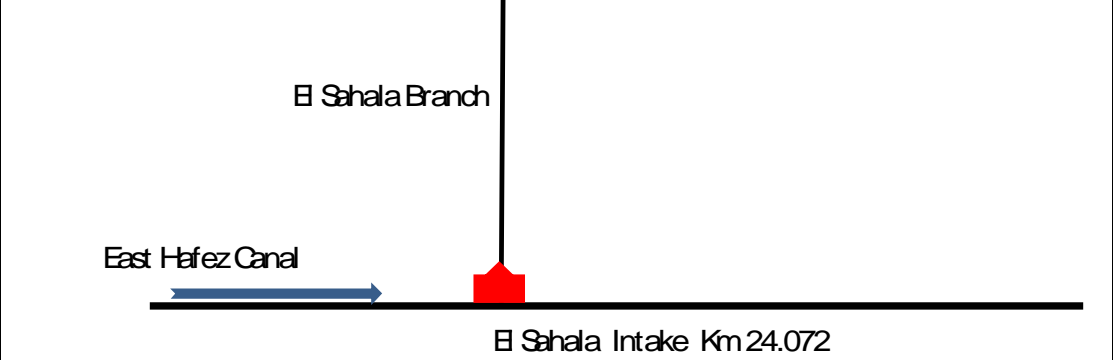
**M33**

1. Name	Al Maniekly regulator	2- Construction Year	1919
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Regulator		
4. Canal's name / Main canal name	Al Badraman canal at km 17.710		
5. Command Area (feddan)	1,930	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.85 m3/s
7. Length of Canal downstream the structure (km)	10.665		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	Within 5 yrs		
10. Cost of the necessary works for improvement	<u>300,000 LE</u>		
11. Contents of the necessary works for improvement	Need the reconstruction and replace of the gate		
12. Existing problems of the structure	The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration.		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	1.80		
2) Gate Width (m)	1.00		
3) Number of Vent (How many ?)	1		
4) Up stream water level EL(m)	Up Stream EL44.10		
5) Down stream water level EL(m)	Down Stream EL43.80		
6) Bed level EL(m)	EL42.25		
7) Gate type / Wood, Steal, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	bad		
10) How often the maintenance / every half year or 1 year ... nothing... etc.	----		
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p>Derwa Canal</p> <p>El Badraman Canal</p> <p>El Menekly Reg. Km 17.710</p> <p>Gannabiya El Menekly</p> <p>Om El Kosour Canal</p> 		

Data Sheet for the Minor Structure

For Regulator




**M34**

1. Name	Al Sahala Regulator	2- Construction Year	1912
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		The East hafeze canal	
5. Command Area (feddan)	2,200	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.97 m3/s
7. Length of Canal downstream the structure (km)			3.300
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>350,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction with changing to the suitable vent and preferabele replace of the gate at same time	
12. Existing problems of the structure		The structure has been damaged, additionally, has the trouble of the fair water distribution, due to the narrow vents. The gate has not been so damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			----
2) Gate Width (m)			----
3) Number of Vent (How many ?)			2
4) Up stream water level EL(m)			Up Stream EL40.90
5) Down stream water level EL(m)			Down Stream EL40.70
6) Bed level EL(m)			EL39.00
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			bad
9) Gate condition / Excellent, Good, Bad, Already Expire			not so bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">El Sahala Branch</p> <p style="text-align: center;">East Hafez Canal</p> <p style="text-align: center;">El Sahala Intake Km 24.072</p>		

Data Sheet for the Minor Structure

For Regulator




M35

1. Name	Al Sahliya canal	2- Construction Year	1918
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Al Sahliya canal	
5. Command Area (feddan)	3,224	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.42 m3/s
7. Length of Canal downstream the structure (km)			7.030
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>500,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and replace of the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			4.40
2) Gate Width (m)			2.55
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL44.60
5) Down stream water level EL(m)			Down Stream EL44.30
6) Bed level EL(m)			EL41.00
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Already expire
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Side or Behind	Sorround
			
16. Location / Also show the Location other MAP	West Rayramon		Gannabiat El Sahliya
	El Sahliya Canal		El Sahliya Canal Reg.
El Takhfeef Drain Intake.		El Desa Br.	El Sahliya Canal
El Takhfeef Drain			

# Data Sheet for the Minor Structure

# For Intake




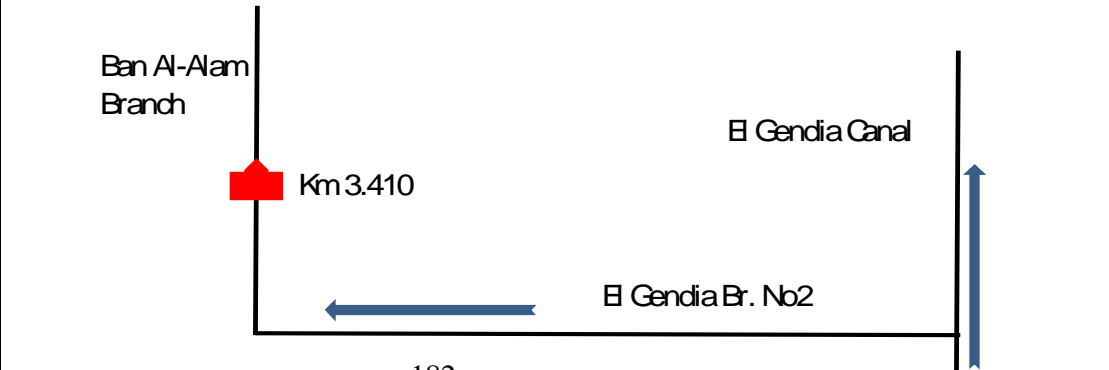
# M36

1. Name	Al Takhfeef Drain	2- Construction Year	1918
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Al Sahliya canal	
5. Command Area (feddan)	5,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.20 m3/s
7. Length of Canal downstream the structure (km)			1.200
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>500,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and replace of the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			4.50
2) Gate Width (m)			3.00
3) Number of Vent (How many ?)			2
4) Up stream water level EL(m)			Up Stream EL44.30
5) Down stream water level EL(m)			Down Stream EL44.15
6) Bed level EL(m)			EL41.10
7) Gate type / Wood, Steal, Others, Nothing			Wood
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any		No	
15. Picture	Front	Side or Behind	Sorround
			
16. Location / Also show the Location other MAP	West Rayramon		Gannabiat El Sahliya
	El Sahliya Canal		El Sahliya Canal
El Takhfeef Drain Intake.		El Desa Br.	El Sahliya Canal
		El Takhfeef Drain	

Data Sheet for the Minor Structure

For Regulator

**M37**




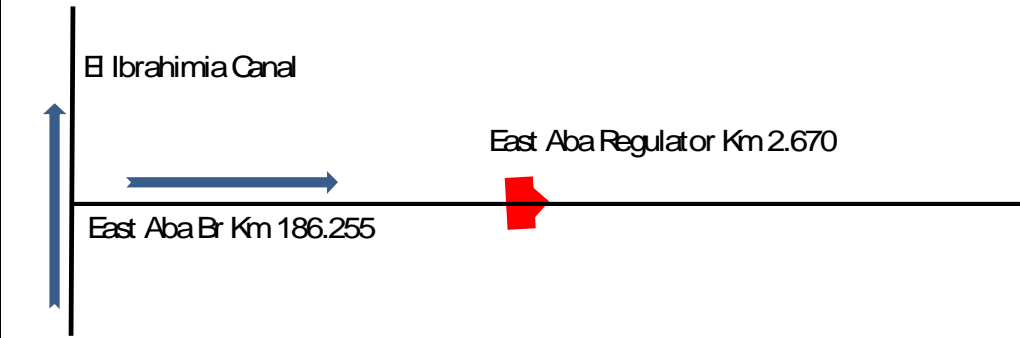
1. Name	Ban Al-Alam Branch	2. Construction Year	1950
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Ebraheemeyya	
5. Command Area (feddan)	1,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.44 m3/s
7. Length of Canal downstream the structure (km)			4.560
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			150,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction and replace of the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work at all by the failure and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.05
2) Gate Width (m)			1.00 m
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			32.20 m
5) Down stream water level EL(m)			32.10 m
6) Bed level EL(m)			30.60 m
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			1 yr (by original data sheet)
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			



Data Sheet for the Minor Structure

For Regulator




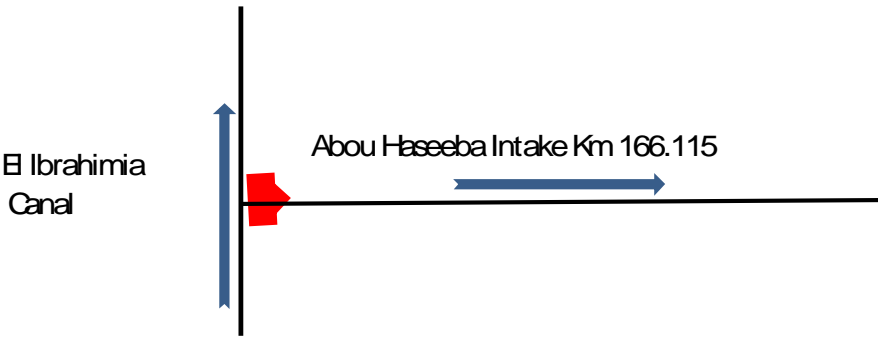
M38

1. Name	East Aba Canal	2. Construction Year	1975
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Ebraheemeyya	
5. Command Area (feddan)	2,500	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.10 m3/s
7. Length of Canal downstream the structure (km)			5.640
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			200,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction (preferable design more low level at top of guide ) and replace of the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.50
2) Gate Width (m)			1.10
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			33.60 m
5) Down stream water level EL(m)			33.50 m
6) Bed level EL(m)			32.80 m
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			1 yr (by original data sheet)
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

# Data Sheet for the Minor Structure

# For Intake





# M39

1. Name	Abu Hassiba Cana.	2. Construction Year	1950
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Ebraheemeyya	
5. Command Area (feddan)	600	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.26 m3/s
7. Length of Canal downstream the structure (km)			12.200
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			1,000,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction at front of the intake and replace the gate. Preferable support inner of pipe	
12. Existing problems of the structure		The structure has been damaged by weathering, however these damage seem at surround the gate. The gate can not work suitable by rust.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.5 m
2) Gate Width (m)			2.50
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			36.50 m
5) Down stream water level EL(m)			36.40 m
6) Bed level EL(m)			EL34.80
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			1 yr for gate (by original data sheet)
11) Please write remarks, if any		Intake velocity is so high that cause to lead much volume of discharge. Need the regulation by the gate.	
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

# Data Sheet for the Minor Structure

# For Regulator




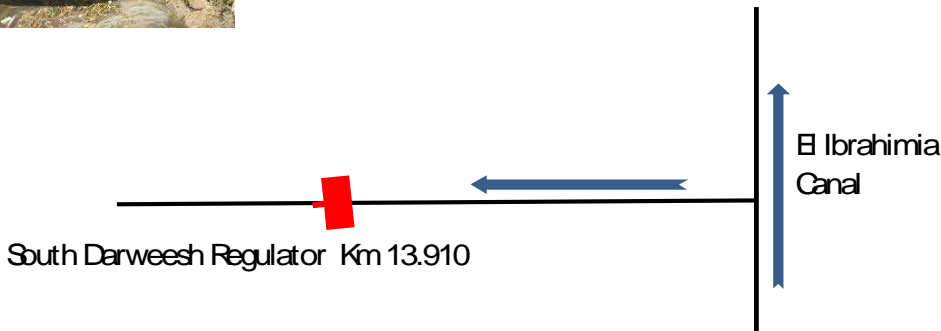
# M40

1. Name	Al-Gendeyya Canal	2. Construction Year	1950
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Ebraheemeyya Canal	
5. Command Area (feddan)	1,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.44 m3/s
7. Length of Canal downstream the structure (km)			4.120 Km
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			300,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction (should be check the level of the intake) and replace of the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate can not work suitable by the failure and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.00
2) Gate Width (m)			1.50
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			33.00 m
5) Down stream water level EL(m)			32.90 m
6) Bed level EL(m)			30.30 m
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.			1 yr (by original data sheet)
11) Please write remarks, if any		Water level is decreased by 0.30m currently that it cause the water shortage	
15. Picture	Front	inner	Side or Behind
			
16. Location / Also show the Location other MAP			

# Data Sheet for the Minor Structure

# For Regulator




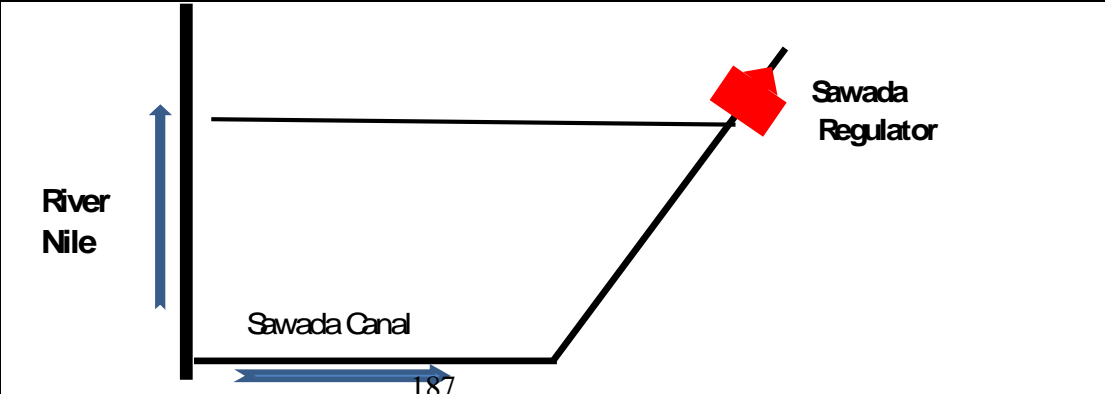
# M41

1. Name	South Darweesh Canal	2. Construction Year	N
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Ebraheemeyya Canal	
5. Command Area (feddan)	500	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.22 m3/s
7. Length of Canal downstream the structure (km)			5.320
8. Necessary works for improvement / Rehabilitation or Reconstruction			Rehabilitation
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>50,000 LE</u>
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure and maintenance of the gate	
12. Existing problems of the structure		The structure on surface has been damaged by weathering, however these damage dose not seem fatal. The gate has not been so damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.30
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			34.00 m
5) Down stream water level EL(m)			33.50 m
6) Bed level EL(m)			33.00 m
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			bad
9) Gate condition / Excellent, Good, Bad, Already Expire			<u>not so bad</u>
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 yr (by original data sheet)
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">South Darweesh Regulator Km 13.910</p>		

# Data Sheet for the Minor Structure

# For Regulator




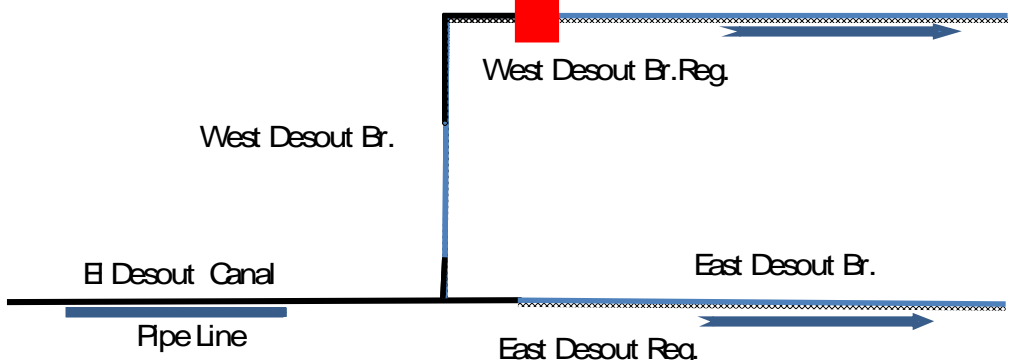
# M42

1. Name	Sawada Canal	2. Construction Year	1990
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		River Nile	
5. Command Area (feddan)	10,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	4.40 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)			16.620
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			250,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction at front of the intake and prefeble replace the gate at same time.	
12. Existing problems of the structure		The structure has been damaged by weathering, however these damage seem at surround the gate. The gate has not been so damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.50 m
2) Gate Width (m)			2.80 m
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL39.20
5) Down stream water level EL(m)			Down Stream EL39.10
6) Bed level EL(m)			EL37.00
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			<u>bad</u>
9) Gate condition / Excellent, Good, Bad, Already Expire			<u>not so bad</u>
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 yr (by original data sheet)
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

# Data Sheet for the Minor Structure

# For Intake


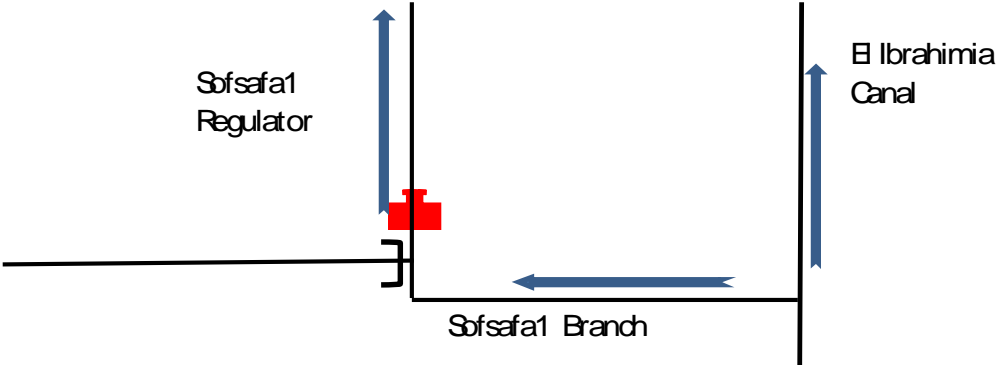
# M43

1. Name	West Desout	2. Construction Year	N
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			<u>Intake</u>
4. Canal's name / Main canal name		Ebraheemeyya Canal	
5. Command Area (feddan)	1,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.44 m3/s
7. Length of Canal downstream the structure (km)			2.640 Km
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			150,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction at front of the intake and install the gate.	
12. Existing problems of the structure		The structure need the regulation function, however there is not gate.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)		----	
2) Gate Width (m)		----	
3) Number of Vent (How many ?)		----	
4) Up stream water level EL(m)		----	
5) Down stream water level EL(m)		----	
6) Bed level EL(m)		----	
7) Gate type / Wood, Steal, Others, Nothing		----	
8) Structure condition / Excellent, Good, Bad, Already Expire		----	
9) Gate condition / Excellent, Good, Bad, Already Expire		----	
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.		1 yr (by original data sheet)	
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p>West Desout Br.</p> <p>West Desout Br. Reg.</p> <p>El Desout Canal</p> <p>Pipe Line</p> <p>East Desout Br.</p> <p>East Desout Reg.</p>		

Data Sheet for the Minor Structure

For Regulator




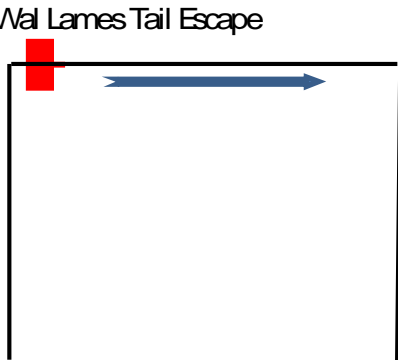
M44

1. Name	1 Safsafa Branch	2. Construction Year	N
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Ebraheemeyya Canal	
5. Command Area (feddan)	900	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.40 m3/s
7. Length of Canal downstream the structure (km)			6.060
8. Necessary works for improvement / Rehabilitation or Reconstruction			New Construction (need more study)
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			300,000 LE
11. Contents of the necessary works for improvement		The district engineer requested to need new regulator at following picture showed. In this case, need more study the purpose of the structure and condition of the water level, also discharge volume etc.	
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Other			
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)		----	
2) Gate Width (m)		----	
3) Number of Vent (How many ?)		----	
4) Up stream water level EL(m)		----	
5) Down stream water level EL(m)		----	
6) Bed level EL(m)		----	
7) Gate type / Wood, Steal, Others, Nothing		----	
8) Structure condition / Excellent, Good, Bad, Already Expire		----	
9) Gate condition / Excellent, Good, Bad, Already Expire		----	
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.		1 yr (by original data sheet)	
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet for the Minor Structure

For Tail Escape

**M45**





1. Name	Bany wallems Escape	2. Construction Year	1950
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Tail escape
4. Canal's name / Main canal name		Serry Canal	
5. Command Area (feddan)	2,700	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.30 m3/s
7. Length of Canal downstream the structure (km)			0.000
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			50,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction and install the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.50
2) Gate Width (m)			0.50
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL32.00
5) Down stream water level EL(m)			----
6) Bed level EL(m)			EL31.00
7) Gate type / Wood, Steal, Others, Nothing			Nothing
8) Structure condition / Excellent, Good, Bad, Already Expire			Already Expire
9) Gate condition / Excellent, Good, Bad, Already Expire			No gate
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">Bani Wal Lames Tail Escape</p>  <p style="text-align: center;">Bani Wal Lames</p> <p style="text-align: right;">El Moheet Drain</p>		



# Data Sheet for the Minor Structure

# For Tail Escape




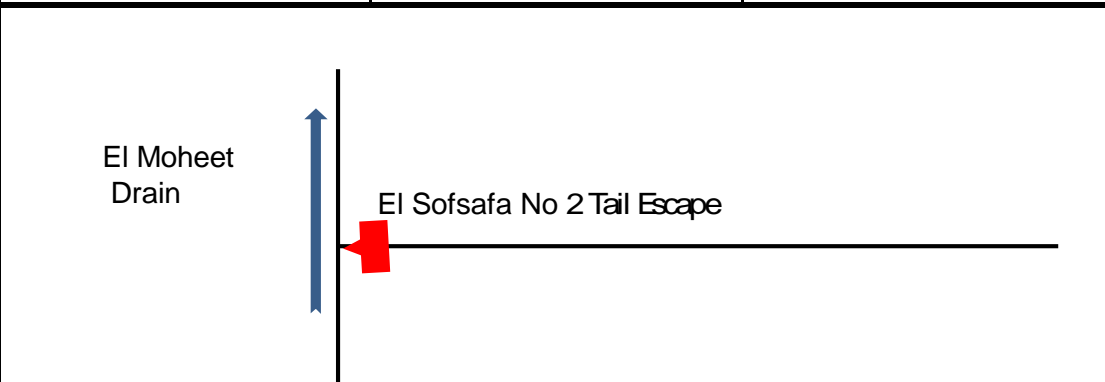
# M46

1. Name	1 Al-Safsafa Branch	2. Construction Year	1945
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Tail escape
4. Canal's name / Main canal name		Ebraheemeyya Branch	
5. Command Area (feddan)	1,200	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.13 m3/s
7. Length of Canal downstream the structure (km)			0.000
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>50,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and install the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Concrete pipe
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.25
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL37.50
5) Down stream water level EL(m)			----
6) Bed level EL(m)			EL3700.00
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Already Expire
9) Gate condition / Excellent, Good, Bad, Already Expire			Already Expire
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p>El Moheet Drain</p> <p>El Sofsafa No 1 Tail Escape</p> 		

# Data Sheet for the Minor Structure

# For Tail Escape





# M47

1. Name	2 Safsafa Branch	2. Construction Year	N
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Tail escape
4. Canal's name / Main canal name		Ebraheemeyya Canal	
5. Command Area (feddan)	900	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.10 m3/s
7. Length of Canal downstream the structure (km)			0.000
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>No need</u>
9. Commencement of the necessary works for improvement			<u>Within 20 yrs</u>
10. Cost of the necessary works for improvement			---
11. Contents of the necessary works for improvement		The structure has been expired almost (we could not see structure). According to the hearing to farmer, the water has not been reached up the bank, therefore, there is no problem.	
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Other			---
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			---
2) Gate Width (m)			---
3) Number of Vent (How many ?)			---
4) Up stream water level EL(m)			---
5) Down stream water level EL(m)			---
6) Bed level EL(m)			---
7) Gate type / Wood, Steal, Others, Nothing			---
8) Structure condition / Excellent, Good, Bad, Already Expire			---
9) Gate condition / Excellent, Good, Bad, Already Expire			---
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			---
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p>El Moheet Drain</p> <p>El Sofsafa No 2 Tail Escape</p>		

# Data Sheet for the Minor Structure

# For Tail Escape




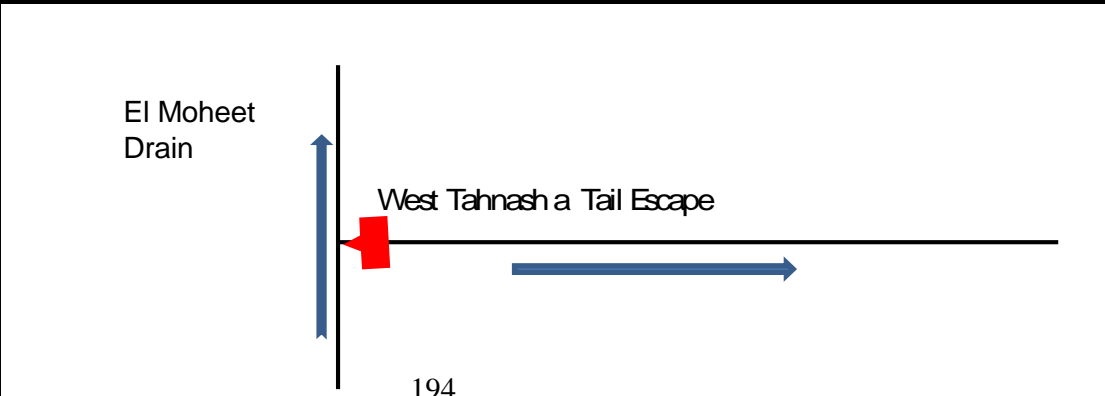
# M48

1. Name	Al-Sheikh Yousef Branch	2. Construction Year	1950
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Tail escape
4. Canal's name / Main canal name		Ebraheemeyya Canal	
5. Command Area (feddan)	600	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.07 m3/s
7. Length of Canal downstream the structure (km)			0.000
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>50,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction with replace the pipe.	
12. Existing problems of the structure		The pipe has been broken at under the road.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Concrete pipe : 0.50m dia.
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			----
2) Gate Width (m)			----
3) Number of Vent (How many ?)			----
4) Up stream water level EL(m)			----
5) Down stream water level EL(m)			----
6) Bed level EL(m)			34.62
7) Gate type / Wood, Steal, Others, Nothing			----
8) Structure condition / Excellent, Good, Bad, Already Expire			----
9) Gate condition / Excellent, Good, Bad, Already Expire			----
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p>El Moheet Drain</p>  <p>El Shaikh Yousef Tail Escape</p>		
	193		

Data Sheet for the Minor Structure

For Tail Escape




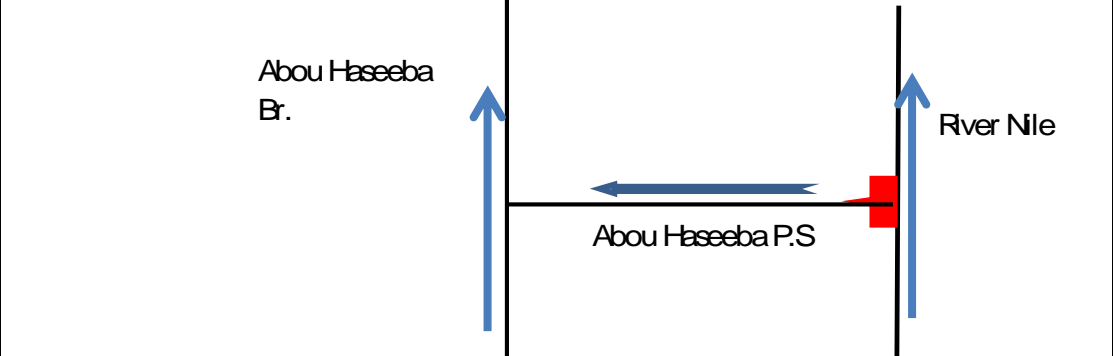
**M49**

1. Name	West Tahnasha Branch	2. Construction Year	N
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Tail escape
4. Canal's name / Main canal name		Al Badraman canal	
5. Command Area (feddan)	410	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.05 m3/s
7. Length of Canal downstream the structure (km)			N
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			<u>50,000 LE</u>
11. Contents of the necessary works for improvement		Need the reconstruction and install the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			<b>Brick</b>
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.00
2) Gate Width (m)			0.5
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			----
5) Down stream water level EL(m)			----
6) Bed level EL(m)			----
7) Gate type / Wood, Steal, Others, Nothing			----
8) Structure condition / Excellent, Good, Bad, Already Expire			----
9) Gate condition / Excellent, Good, Bad, Already Expire			----
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 Year
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p>El Moheet Drain</p> <p>West Tahnasha Tail Escape</p>		

# Data Sheet for the Minor Structure

# For Pump station




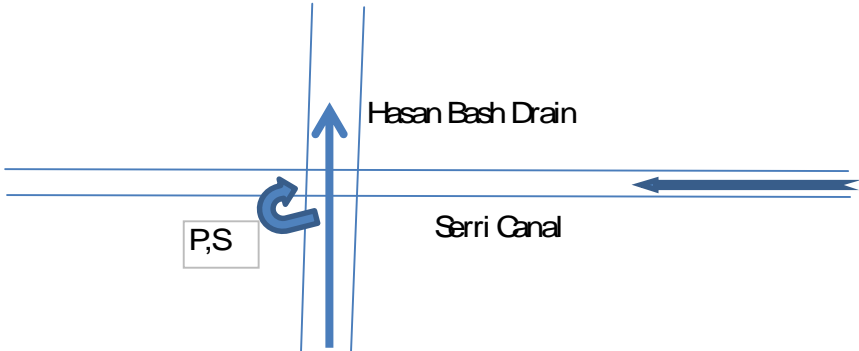
# M50

1. Name	Abu Haseeba Branch	2. Construction Year	1985 & 2000
3. Type	Pump station		
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	1,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.44 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)	5.000		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Rehabilitation</u>		
9. Commencement of the necessary works for improvement	Within 5 yrs		
10. Cost of the necessary works for improvement	200,000 LE		
11. Contents of the necessary works for improvement	Need the replace the pump and rehabilitation		
12. Existing problems of the structure	One of two pumps is expired		
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret	2 pumps		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Max discharge of the Pump (m <sup>3</sup> /s)	0.5 m <sup>3</sup> /sec		
2) Number of pump (How many?)	2 Units		
3) Diameter of the Pump (mm)	250		
4) Where from country is the pump machine installed site?	China		
5) Power source / Electricity, Diesel, others	Electricity		
6) How ofen the maintenance / every half year or 1 year ... nothing... etc.	1 yr (sourced by original data sheet)		
7) Inatke side water level EL(m)	----		
8) Discharge side water level EL(m)	Down Stream EL35.00		
9) Pump head = " 8) - 7) " (m)	----		
10) Please write remarks, if any	Out of criteria on this project (this canal from the Nile directly)		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p>Abou Haseeba Br.</p> <p>Abou Haseeba P.S</p> <p>Rver Nile</p>		

# Data Sheet for the Minor Structure




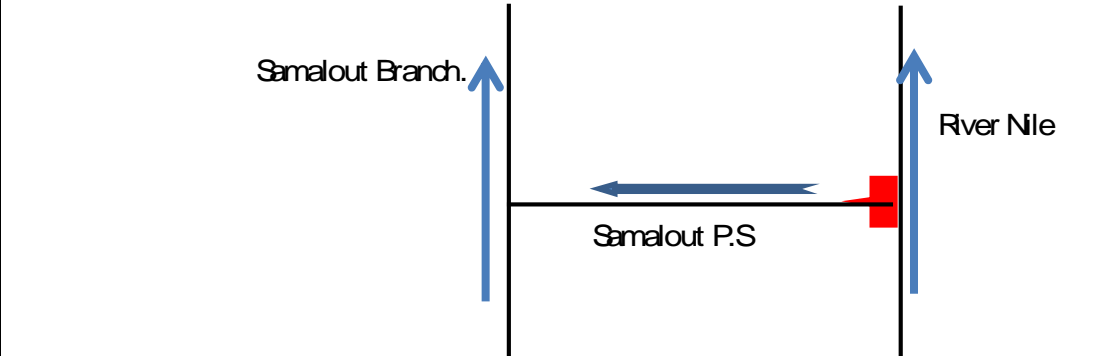
# For Pump station

# M51

1. Name	Hassen Basha Drain Pump station	2. Construction Year	N
3. Type			Pump station
4. Canal's name / Main canal name	Hassen Basha Drain /Serry canal		
5. Command Area (feddan)	60,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m3/s)	6.60 m3/s
7. Length of Canal downstream the structure (km)			58.000
8. Necessary works for improvement / Rehabilitation or Reconstruction	Construction of the pump station (Need more study)		
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			500,000 LE
11. Contents of the necessary works for improvement	Currently, this structure is siphon. In this site has the problem of the low water level, therefore the district engineer requested the pump station instead of the siphon. Need the more study of the actual status.		
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Max discharge of the Pump (m <sup>3</sup> /s)			0.5 m3/sec
2) Number of pump (How many?)			----
3) Diameter of the Pump (mm)			----
4) Where from country is the pump machine installed site?			----
5) Power source / Electricity, Diesel, others			Electricity
6) How ofen the maintenance / every half year or 1 year ... nothing... etc.			----
7) Inatke side water level EL(m)			----
8) Discharge side water level EL(m)			Down Stream EL34.00
9) Pump head = " 8) - 7) " (m)			----
10) Please write remarks, if any	Out of criteria on this project (this is drain, not canal)		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

# Data Sheet for the Minor Structure For Pump station





## M52

1. Name	Samalout Canal	2. Construction Year	2000
3. Type	Pump station		
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	1,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.5 m <sup>3</sup> / sec
7. Length of Canal downstream the structure (km)	1.140		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Rehabilitation</u>		
9. Commencement of the necessary works for improvement	Within 5 yrs		
10. Cost of the necessary works for improvement	250,000 LE		
11. Contents of the necessary works for improvement	Need the installation of the new pump		
12. Existing problems of the structure	The demand of the water has been increased, therefore one spare pump is required.		
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret	2 pumps		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Max discharge of the Pump (m <sup>3</sup> /s)	0.5 m <sup>3</sup> / sec		
2) Number of pump (How many?)	3 unit		
3) Diameter of the Pump (mm)	240		
4) Where from country is the pump machine installed site?	unknown		
5) Power source / Electricity, Diesel, others	Electricity		
6) How ofen the maintenance / every half year or 1 year ... nothing... etc.	1 yr (sourced by original data sheet)		
7) Inatke side water level EL(m)	----		
8) Discharge side water level EL(m)	Down Stream EL36.50		
9) Pump head = " 8) - 7) " (m)	----		
10) Please write remarks, if any	Out of criteria on this project (this canal from the Nile directly)		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet for the Minor Structure

For Siphon

M53




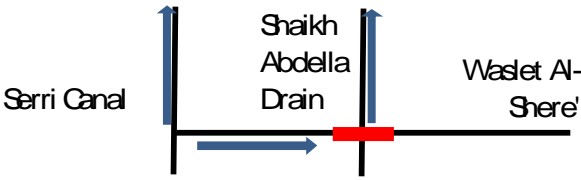
1. Name	Sawada Intake	2. Construction Year	N
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			siphon
4. Canal's name / Main canal name		Sawada Intake River Nile	
5. Command Area (feddan)	1,500	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.66 m3/s
7. Length of Canal downstream the structure (km)			12.500 km
8. Necessary works for improvement / Rehabilitation or Reconstruction			Rehabilitation
9. Commencement of the necessary works for improvement (At least after 5yr)			Within 5 yrs
10. Cost of the necessary works for improvement			50,000 LE
11. Contents of the necessary works for improvement		Need the rehabilitation of the structure at edge of the pipe.	
12. Existing problems of the structure		The pipe is not so bad, however the structure at edge of the pipe has been damaged.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Material of the pipe / Wood, Brick, Stone, Steal, Other			steel
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)			----
2) Vent width of the Culvert (m)			----
3) Length of the Culvert, Siphon, Aqueduct (m)			25.00
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)			5.00
5) The difference of water head level of the siphon (m)			15.00
6) Diameter of the pipe for Siphon or Aqueaduct (mm)			1.00
7) Up stream water level EL(m)			Up Stream EL38.25
8) Down stream water level EL(m)			Down Stream EL38.10
9) Length of pipe for Siphon or Aqueaduct,if any (m)			25.00m
10) Structure condition / Excellent, Good, Bad, Already Expire			Bad
11) Pipe condition / Excellent, Good, Bad, Already Expire			Bad
12) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 year
13) Please write remarks, if any		Out of criteria on this project (this canal from the Nile directly)	
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			



Data Sheet for the Minor Structure

For Aqueduct




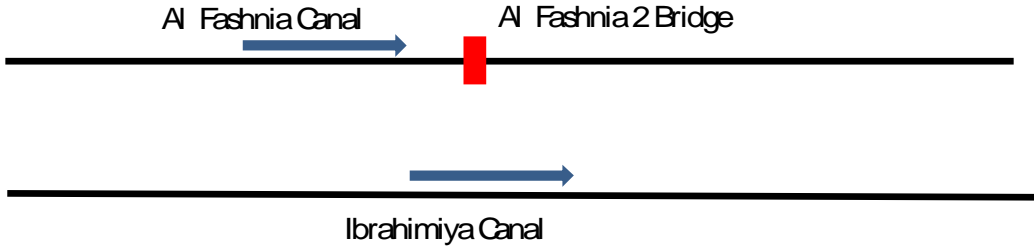
**M54**

1. Name	Waslet Al-Sher'e'l	2. Construction Year	1970
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			Aqueduct
4. Canal's name / Main canal name		Serry Canal	
5. Command Area (feddan)	400	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.18 m3/s
7. Length of Canal downstream the structure (km)			3.0
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>Reconstruction</u>
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			80,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction as the siphon	
12. Existing problems of the structure		The water through the pipe is prevented the garbage. At across the drain, the pipe prevent the fair water.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Material of the pipe / Wood, Brick, Stone, Steal, Other			Steel
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)			----
2) Vent width of the Culvert (m)			----
3) Length of the Culvert, Siphon, Aqueduct (m)			16.00
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)			----
5) The difference of water head level of the siphon (m)			----
6) Diameter of the pipe for Siphon or Aqueaduct (mm)			1.00
7) Up stream water level EL(m)			Up Stream EL36.10
8) Down stream water level EL(m)			Down Stream EL36.00
9) Length of pipe for Siphon or Aqueaduct,if any (m)			16.00
10) Structure condition / Excellent, Good, Bad, Already Expire			Bad
11) Pipe condition / Excellent, Good, Bad, Already Expire			Bad
12) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 yr (sourced by original data sheet)
13) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet for the Minor Structure

For Bridge




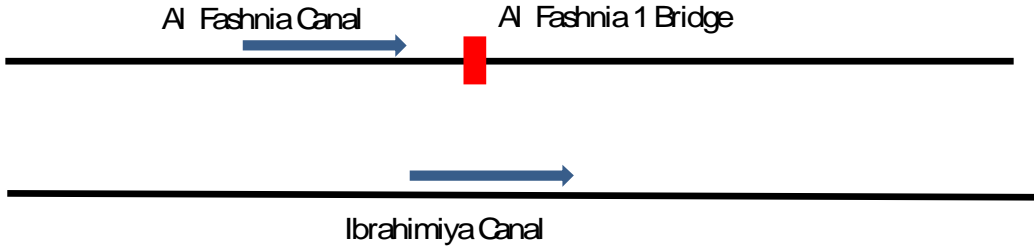
**M55**

1. Name	Al-Fashneyya Canal 2	2. Construction Year	1955
3. Type			Bridge
4. Canal's name / Main canal name	ELFASHEN CANAL / EBRAHEMIA CANAL		
5. Command Area (feddan)	1,300	6. Max discharge of canal (m <sup>3</sup> /day) or (m3/s)	0.57 m3/s
7. Length of Canal downstream the structure (km)			6.5 KM
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	Within 5 yrs		
10. Cost of the necessary works for improvement	<u>300,000 LE</u>		
11. Contents of the necessary works for improvement	Need the reconstruction		
12. Existing problems of the structure	The structure has been damaged by weathering and deterioration.		
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)			4.00
2) Length of the Bridge (m)			5.20
3) Hieight of the pier or abut of the Bridge from the canal bed (m)			2.60
4) Width of the canal at Bridge point (m)			5.20
5) Width of up stream of the canal (m)			5.20
6) Width of down stream of the canal (m)			5.20
7) Up stream water level EL(m)			Up Stream EL33.10
8) Down stream water level EL(m)			Down Stream EL33.00
9) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
10) Please write remarks, if any	Out of criteria on this project (this bridge does not concern the effect of DGR directly)		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p>The diagram shows a horizontal line representing a canal system. A blue arrow labeled 'Al Fashnia Canal' points to the right. A red vertical bar labeled 'Al Fashnia2 Bridge' is positioned on this line. Below the line, another blue arrow labeled 'Ibrahimiya Canal' points to the right.</p>		

Data Sheet for the Minor Structure

For Bridge




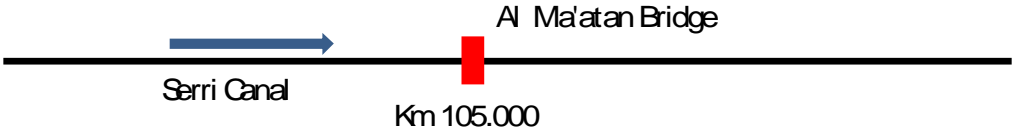
**M56**

1. Name	Al-Fashneyya Canal 1	2. Construction Year	1955
3. Type			Bridge
4. Canal's name / Main canal name	ELFASHEN CANAL / EBRAHEMIA CANAL		
5. Command Area (feddan)	1,500	6. Max discharge of canal (m <sup>3</sup> /day) or (m3/s)	0.66 m3/s
7. Length of Canal downstream the structure (km)			7.7
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	Within 5 yrs		
10. Cost of the necessary works for improvement	<u>300,000 LE</u>		
11. Contents of the necessary works for improvement	Need the reconstruction		
12. Existing problems of the structure	The structure has been damaged by weathering and deterioration.		
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)			1.80
2) Length of the Bridge (m)			4.00
3) Hieight of the pier or abut of the Bridge from the canal bed (m)			1.80
4) Width of the canal at Bridge point (m)			2.20
5) Width of up stream of the canal (m)			5.00
6) Width of down stream of the canal (m)			4.00
7) Up stream water level EL(m)			Up Stream EL33.10
8) Down stream water level EL(m)			Down Stream EL33.00
9) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
10) Please write remarks, if any	Out of criteria on this project (this bridge does not concern the effect of DGR directly)		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet for the Minor Structure

For Bridge




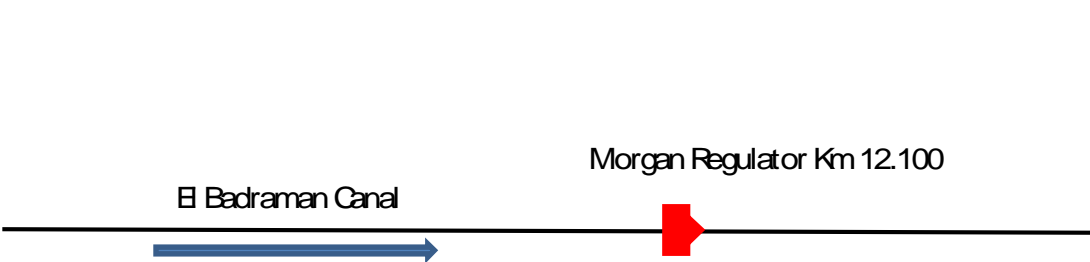
**M57**

1. Name	Ma'atan Bridge	2. Construction Year	1950
3. Type			Bridge
4. Canal's name / Main canal name	Serry Canal		
5. Command Area (feddan)	15,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m3/s)	6.60 m3/s
7. Length of Canal downstream the structure (km)	15.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	Within 5 yrs		
10. Cost of the necessary works for improvement	500,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction		
12. Existing problems of the structure	The structure has been damaged by weathering and deterioration.		
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)	4.50		
2) Length of the Bridge (m)	9.20		
3) Hieight of the pier or abut of the Bridge from the canal bed (m)	2.50		
4) Width of the canal at Bridge point (m)	11.00		
5) Width of up stream of the canal (m)	11.00		
6) Width of down stream of the canal (m)	11.00		
7) Up stream water level EL(m)	Up Stream EL33.90		
8) Down stream water level EL(m)	Down Stream EL33.90		
9) How ofen the maintenance / every half year or 1 year ... nothing... etc.	1 yr (sourced by original data sheet)		
10) Please write remarks, if any	Out of criteria on this project (this bridge does not concern the effect of DGR directly)		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">Al Ma'atan Bridge Km 105.000</p>		

Data Sheet for the Minor Structure

For Regulator




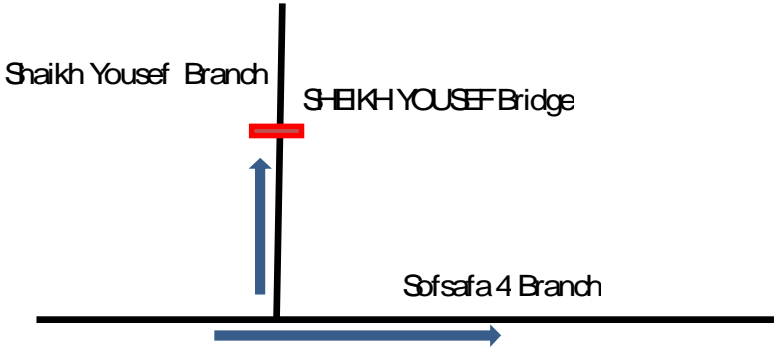
**M58**

1. Name	Morgan Regulator	2- Construction Year	1917
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Al Badraman canal	
5. Command Area (feddan)	6,935	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3.05 m3/s
7. Length of Canal downstream the structure (km)			16.365
8. Necessary works for improvement / Rehabilitation or Reconstruction			Within 5 Years
9. Commencement of the necessary works for improvement			Within 5 yrs
10. Cost of the necessary works for improvement			200,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction and install the gate	
12. Existing problems of the structure		The structure has been damaged by weathering and deterioration. The gate has been expired, there is not gate.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Bricks
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Vent Height (m)			3.00
2) Vent Width (m)			3.00
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			Up Stream EL44.50
5) Down stream water level EL(m)			Down Stream EL44.40
6) Bed level EL(m)			EL42.60
7) Gate type / Wood, Steal, Others, Nothing			nothing
8) Structure condition / Excellent, Good, Bad, Already Expire			already expire
9) Gate condition / Excellent, Good, Bad, Already Expire			already expire
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			----
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	Morgan Regulator Km 12.100		
			

Data Sheet for the Minor Structure

For Bridge




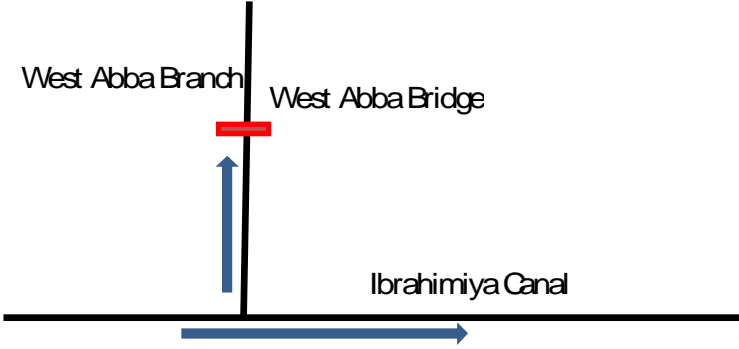
**M59**

1. Name	SHEIKH YOUSEF BRANCH	2. Construction Year	1950
3. Type			Bridge
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	350	6. Max discharge of canal (m <sup>3</sup> /day) or (m3/s)	0.15 m3/s
7. Length of Canal downstream the structure (km)	3.00 km		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	Within 5 yrs		
10. Cost of the necessary works for improvement	150,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction with wide vent		
12. Existing problems of the structure	The structure has been damaged by weathering and deterioration. The narrow vent prevent the fair water.		
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret	Conceret		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)	D= 0.80 m		
2) Length of the Bridge (m)	L= 5.00 m		
3) Hieight of the pier or abut of the Bridge from the canal bed (m)	----		
4) Width of the canal at Bridge point (m)	0.80		
5) Width of up stream of the canal (m)	5.00		
6) Width of down stream of the canal (m)	5.00		
7) Up stream water level EL(m)	Up Stream EL36.30		
8) Down stream water level EL(m)	Down Stream EL36.20		
9) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p>Shaikh Yousef Branch</p> <p>SHEIKH YOUSEF Bridge</p> <p>Sofsa 4 Branch</p>		

Data Sheet for the Minor Structure

For Bridge

M60

1. Name	WEST ABA CANAL	2. Construction Year	1989
3. Type			Bridge
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	1,500	6. Max discharge of canal (m <sup>3</sup> /day) or (m3/s)	0.66 m3/s
7. Length of Canal downstream the structure (km)			1.2 km
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	Within 5 yrs		
10. Cost of the necessary works for improvement	150,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction with wide vent		
12. Existing problems of the structure	The structure has been damaged by weathering and deterioration. The narrow vent prevent the fair water.		
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)			3.00 m
2) Length of the Bridge (m)			4.00 m
3) Hieight of the pier or abut of the Bridge from the canal bed (m)			1.5 m
4) Width of the canal at Bridge point (m)			3.00m
5) Width of up stream of the canal (m)			1.00m
6) Width of down stream of the canal (m)			1.00m
7) Up stream water level EL(m)			Up Stream EL33.25
8) Down stream water level EL(m)			Down Stream EL33.20
9) How ofen the maintenance / every half year or 1 year ... nothing... etc.			N
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

# Data Sheet by Consultant in Beni-Suef




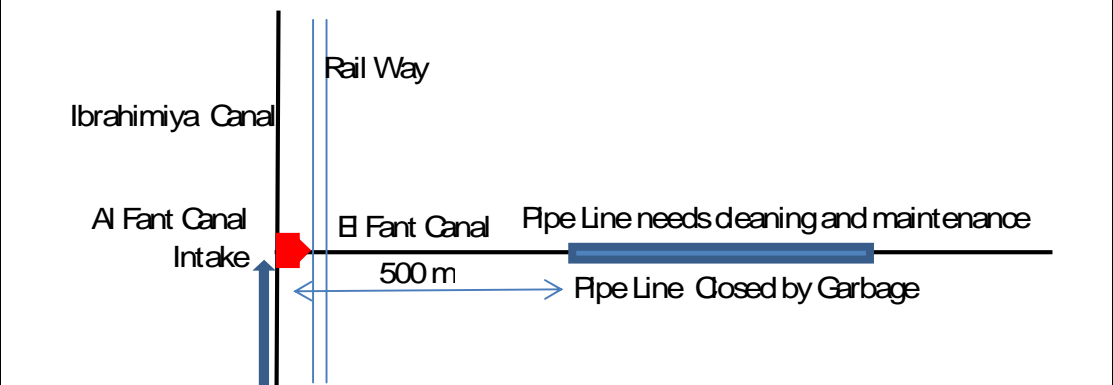
Item	Number of Structure	Remarks
Intake	11	
Regulator	1	
Tail escape	9	
Culvert	1	
Siphon	5	
Aqueduct	3	
Bridge	2	
Weir	1	
Pipe line	3	
Pump station	1	
<b>Total Structure</b>	<b>37</b>	



Data Sheet of the Minor Structure




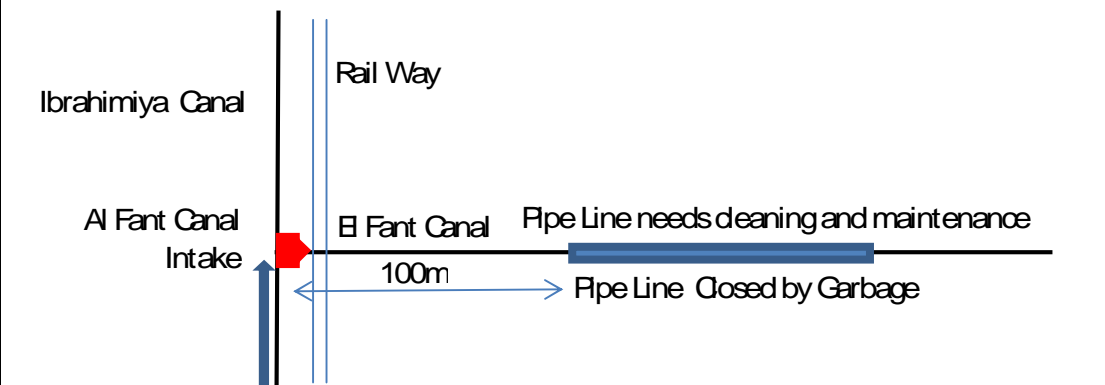
For Intake

**B1**

1. Name	ALFANT	2. Construction Year	1972
3. Type	Intake		
4. Canal's name	ALFANT canal		
5. Command Area (feddan)	7,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3.50 m3/s
7. Length of Canal downstream the structure (km)	12.680		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Maintenance		
9. Commencement of the necessary works for improvement	within 5 yrs		
10. Cost of the necessary works for improvement	30,000 LE		
11. Contents of the necessary works for improvement	Need to remove the garbage urgently.		
12. Existing problems of the structure	The structure is not so bad, but pipe line at down stream, 500m, from the intake is closed by garbage		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	3.00		
2) Gate Width (m)	3.00		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL32.90		
5) Down stream water level EL(m)	Down Stream EL 32.65		
6) Bed level EL(m)	EL31.70		
7) Gate type / Wood, steel, Others, Nothing	steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Not so bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Not so bad		
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p>Ibrahimiya Canal</p> <p>Al Fant Canal Intake</p> <p>Rail Way</p> <p>El Fant Canal</p> <p>500 m</p> <p>Pipe Line needs cleaning and maintenance</p> <p>Pipe Line Closed by Garbage</p>		

# Data Sheet of the Minor Structure For Intake




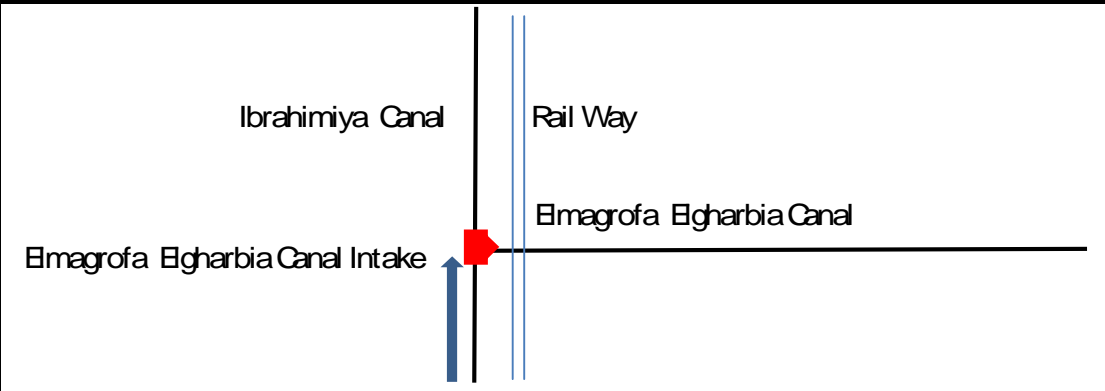
# B2

1. Name	ELSHARAHN AELKABLIA		2. Construction Year	1965
3. Type				Intake
4. Canal's name	ELSHARAHN AELKABLIA			
5. Command Area (feddan)	1,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.00 m3/s	
7. Length of Canal downstream the structure (km)				10.150
8. Necessary works for improvement / Rehabilitation or Reconstruction	Maintenance			
9. Commencement of the necessary works for improvement	within 5 years			
10. Cost of the necessary works for improvement	30,000 LE			
11. Contents of the necessary works for improvement	Need to remove the garbage urgently and maintenance of the gate.			
12. Existing problems of the structure	Pipe line at down stream of intake is closed by Sedimentation. The gate does not suitable work, however structure is not so bad.			
13. Material of the structure / Wood, Brick, Stone, steel, Concert				Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )				
1) Gate Height (m)				3.00
2) Gate Width (m)				0.95
3) Number of Vent				1
4) Up stream water level EL(m)				Up Stream EL31.50
5) Down stream water level EL(m)				Down Stream EL 31.20
6) Bed level EL(m)				EL30.70
7) Gate type / Wood, steel, Others, Nothing				Steel
8) Structure condition / Excellent, Good, Bad, Already Expire				Not so bad
9) Gate condition / Excellent, Good, Bad, Already Expire				Bad
10) Please write remarks, if any				
15. Picture	Front	Top	Side or Behind	
				
16. Location / Also show the Location other MAP				

Data Sheet of the Minor Structure




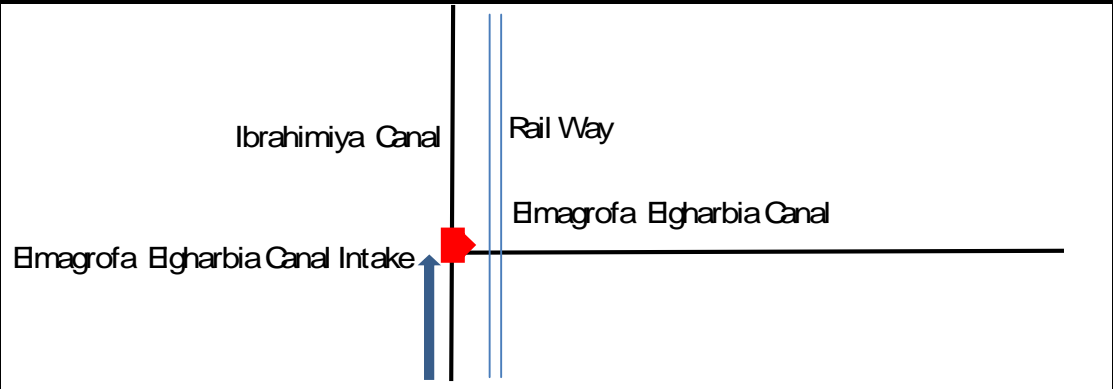
For Intake

**B3**

1. Name	Elmagrofa elgrbia		2. Construction Year	1960
3. Type				Intake
4. Canal's name	Elmagrofa elgrbia			
5. Command Area (feddan)	2,888	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.60 m3/s	
7. Length of Canal downstream the structure (km)				6.450
8. Necessary works for improvement / Rehabilitation or Reconstruction				Maintenance
9. Commencement of the necessary works for improvement				Within 20 years
10. Cost of the necessary works for improvement				30,000 LE
11. Contents of the necessary works for improvement	The structure has few damage. Need the maintenance of the gate			
12. Existing problems of the structure	District engineer report that canal bed is so high that prevent from fair intake, but distcharge is enough.			
13. Material of the structure / Wood, Brick, Stone, steel, Concert				Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )				
1) Gate Height (m)				3.00
2) Gate Width (m)				2.50
3) Number of Vent				1
4) Up stream water level EL(m)				Up Stream EL30.00
5) Down stream water level EL(m)				Down Stream EL 29.50
6) Bed level EL(m)				EL29.00
7) Gate type / Wood, steel, Others, Nothing				Steel
8) Structure condition / Excellent, Good, Bad, Already Expire				Not so bad
9) Gate condition / Excellent, Good, Bad, Already Expire				Not so bad
10) Please write remarks, if any				
15. Picture	Front	Top	Side or Behind	
				
16. Location / Also show the Location other MAP	 <p>Ibrahimiya Canal</p> <p>Rail Way</p> <p>Elmagrofa Elgharbia Canal</p> <p>Elmagrofa Elgharbia Canal Intake</p>			




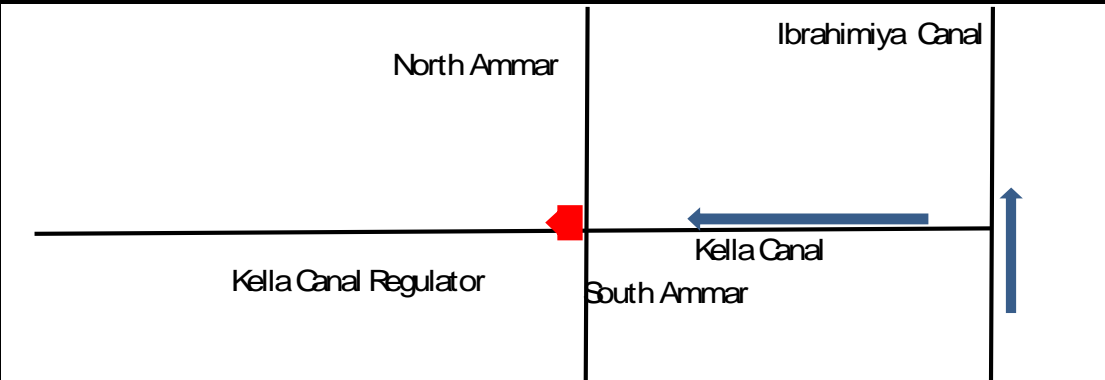
Data Sheet of the Minor Structure For Intake

**B4**

1. Name	ELSAHARA		2. Construction Year	1953
3. Type				Intake
4. Canal's name	ELSAHARA canal			
5. Command Area (feddan)	6,190	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3.50 m3/s	
7. Length of Canal downstream the structure (km)				14.100
8. Necessary works for improvement / Rehabilitation or Reconstruction				Reconstruction
9. Commencement of the necessary works for improvement				<u>Within 5 years</u>
10. Cost of the necessary works for improvement				<u>300,000 LE</u>
11. Contents of the necessary works for improvement	Need the reconstruction and recommend to support into the pipe.			
12. Existing problems of the structure	The structure has been damaged heavily by Weathering.			
13. Material of the structure / Wood, Brick, Stone, steel, Concert				Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )				
1) Gate Height (m)				3.00
2) Gate Width (m)				2.50
3) Number of Vent				1
4) Up stream water level EL(m)				Up Stream EL28.50
5) Down stream water level EL(m)				Down Stream EL 28.20
6) Bed level EL(m)				EL27.80
7) Gate type / Wood, steel, Others, Nothing				Steel
8) Structure condition / Excellent, Good, Bad, Already Expire				Bad
9) Gate condition / Excellent, Good, Bad, Already Expire				Bad
10) Please write remarks, if any	According to the original data sheet, maintenance is carried out every one year.			
15. Picture	Front	Top	Side or Behind	
				
16. Location / Also show the Location other MAP	 <p>Ibrahimiya Canal</p> <p>Rail Way</p> <p>Elmagrofa Elgharbia Canal</p> <p>Elmagrofa Elgharbia Canal Intake</p>			

Data Sheet of the Minor Structure For Intake




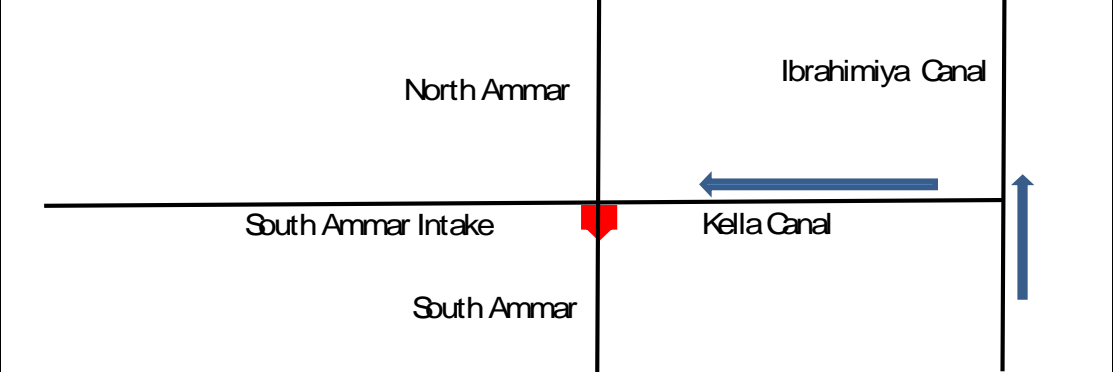
**B5**

1. Name	KELA	2. Construction Year	1935
3. Type	Intake		
4. Canal's name	KELA canal		
5. Command Area (feddan)	20,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	6.50 m3/s
7. Length of Canal downstream the structure (km)	20.300		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	<u>within 5 years</u>		
10. Cost of the necessary works for improvement	<u>700,000 LE</u>		
11. Contents of the necessary works for improvement	Need the reconstruction and replace the gates.		
12. Existing problems of the structure	The structure has been damaged and the gates can not work at all.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	3.00		
2) Gate Width (m)	3.00		
3) Number of Vent	2		
4) Up stream water level EL(m)	Up Stream EL28.20		
5) Down stream water level EL(m)	Down Stream EL 28.00		
6) Bed level EL(m)	EL26.45		
7) Gate type / Wood, steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad & not working		
10) Please write remarks, if any	Once it was rehabilitation but it is not working		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure

For Intake




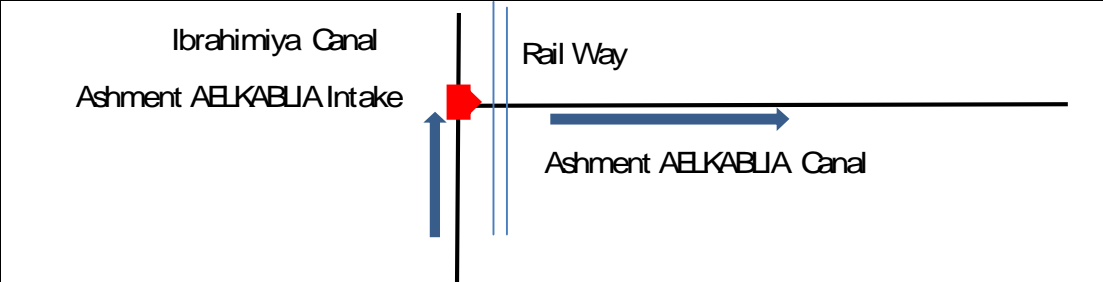
**B6**

1. Name	Amar AELKABLIA	2. Construction Year	-----
3. Type	Intake		
4. Canal's name	Amar AELKABLIA		
5. Command Area (feddan)	1,500	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.87 m3/s
7. Length of Canal downstream the structure (km)	3.000		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	<u>within 5 years</u>		
10. Cost of the necessary works for improvement	<u>300,000 LE</u>		
11. Contents of the necessary works for improvement	Need the reconstruction and replace the gate.		
12. Existing problems of the structure	The structure has been damaged and the gate can not work at all.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	3.00		
2) Gate Width (m)	2.50		
3) Number of Vent	2		
4) Up stream water level EL(m)	Up Stream EL28.20		
5) Down stream water level EL(m)	Down Stream EL 27.90		
6) Bed level EL(m)	EL26.50		
7) Gate type / Wood, steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad & not working		
10) Please write remarks, if any	Once it was rehabilitation but it is not working		
15. Picture	Right side	Left side	Top
			
16. Location / Also show the Location other MAP	 <p>North Ammar</p> <p>Ibrahimiya Canal</p> <p>South Ammar Intake</p> <p>South Ammar</p> <p>Kella Canal</p>		

Data Sheet of the Minor Structure




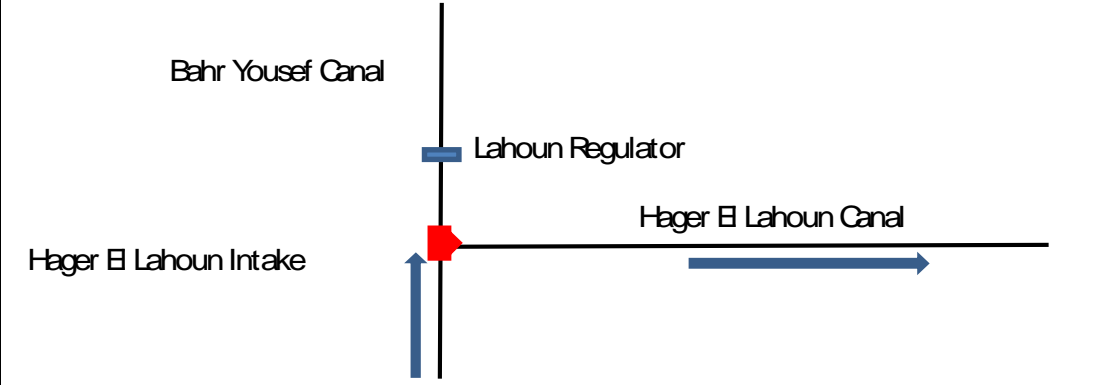
For Pipi line

**B7**

1. Name	Ashmant ALKABLIA	2. Construction Year	1950
3. Type	Pipi line		
4. Canal's name	Ashmant AELKABLIA		
5. Command Area (feddan)	4,720	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.73 m3/s
7. Length of Canal downstream the structure (km)	9.5		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	300,000 LE		
11. Contents of the necessary works for improvement	Need the replace the pipe and install the gate in front of the pipe.		
12. Existing problems of the structure	The structure has been damaged by Weathering.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	R.C. pipes		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)	N		
2) Vent width of the Culvert (m)	N		
3) Length of the Culvert, Siphon, Aqueduct (m)	N		
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)	1.00		
5) The difference of water head level of the siphon (m)	0.30 m		
6) Diameter of the pipe for Siphon or Aqueduct (mm)	4 x 1.20m		
7) Up stream water level EL(m)	Up Stream EL27.40		
8) Down stream water level EL(m)	Down Stream EL 27.10		
9) Length of pipe for Siphon or Aqueduct, if any (m)	EL25.60		
10) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
11) Pipe condition / Excellent, Good, Bad, Already Expire	Bad(by original data sheet)		
12) Please write remarks, if any	Under the railway & Its length is 23 m		
15. Picture	Front1	Front2	Behind or side
			
16. Location / Also show the Location other MAP	<p>Ibrahimiya Canal</p> <p>Ashmant AELKABLIA Intake</p>  <p>Rail Way</p> <p>Ashmant AELKABLIA Canal</p>		

# Data Sheet of the Minor Structure For Intake




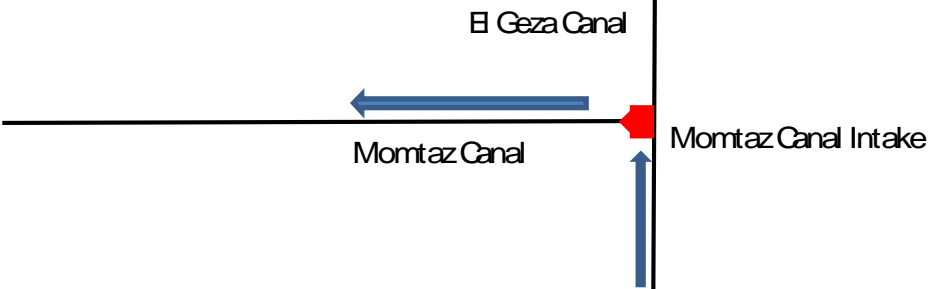
# B8

1. Name	HAGR ALAHON	2. Construction Year	1965
3. Type	Intake		
4. Canal's name	HAGR ALAHON		
5. Command Area (feddan)	4,720	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.1 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)	15.600		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	<u>within 5 years</u>		
10. Cost of the necessary works for improvement	<u>300,000 LE</u>		
11. Contents of the necessary works for improvement	Need the reconstruction and replace the gate.		
12. Existing problems of the structure	The structure has been damaged and the gates can not work suitable.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)	3.50		
2) Intake Width (m)	3.00		
3) Number of Vent	1		
4) Up stream water level EL(m)	<u>Up Stream EL25.77</u>		
5) Down stream water level EL(m)	<u>Down Stream EL 25.40</u>		
6) Bed level EL(m)	<u>EL24.13</u>		
7) Gate type / Wood, steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) Please write remarks, if any	According to the original data sheet, maintenance is carried out every one year		
15. Picture	Front	Behind	Top
			
16. Location / Also show the Location other MAP	 <p>The map shows the Hager El Lahoun Intake structure. To its north is the Bahr Yousef Canal, which flows through a blue gate labeled 'Lahoun Regulator'. To the east of the intake is the Hager El Lahoun Canal, indicated by a blue arrow pointing right.</p>		



# Data Sheet of the Minor Structure For Intake




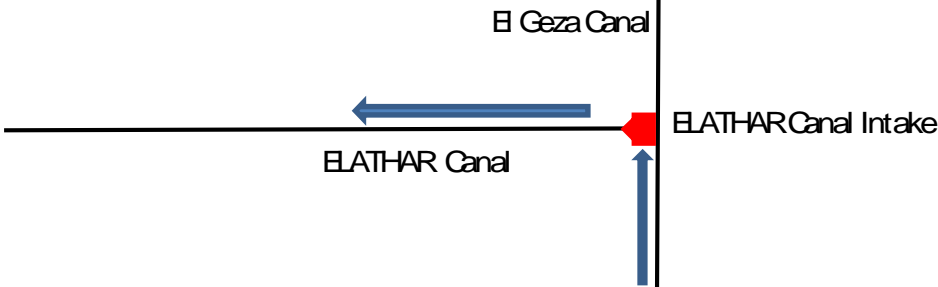
# B9

1. Name	MOMTEZ CANAL	2. Construction Year	1970
3. Type			Intake
4. Canal's name	MOMTEZ CANAL / Giza		
5. Command Area (feddan)	1,073	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.6 m3/s
7. Length of Canal downstream the structure (km)			2.700
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			<u>within 5 years</u>
10. Cost of the necessary works for improvement			<u>300,000 LE</u>
11. Contents of the necessary works for improvement	Need the reconstruction of the intake and replace the gate.		
12. Existing problems of the structure	The structure has been damaged and the gates can not work suitable.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)			<u>2.60</u>
2) Intake Width (m)			<u>1.20</u>
3) Number of Vent			1
4) Up stream water level EL(m)			Up Stream EL23.40
5) Down stream water level EL(m)			Down Stream EL 23.30
6) Bed level EL(m)			EL22.50
7) Gate type / Wood, steel, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) Please write remarks, if any	According to the original data sheet, maintenance is carried out every one year		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">El Geza Canal</p> <p style="text-align: center;">← Momtaz Canal →</p> <p style="text-align: right;">↑ Momtaz Canal Intake</p>		

Data Sheet of the Minor Structure

For Intake




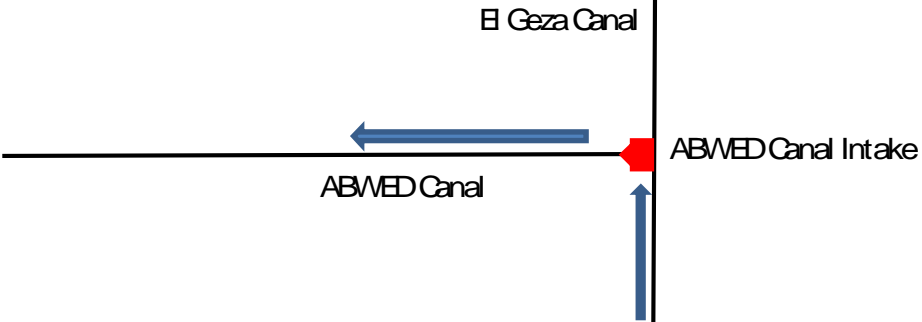
**B10**

1. Name	ELATHAR	2. Construction Year	1970
3. Type	Intake		
4. Canal's name	ELATHAR canal / Giza canal		
5. Command Area (feddan)	815	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.44 m3/s
7. Length of Canal downstream the structure (km)	4.000		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	50,000 LE		
11. Contents of the necessary works for improvement	The structure is not so bad. Need the maintenance of the structure and replace the gate.		
12. Existing problems of the structure	The gates can not work suitable by deterioration.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)	1.80		
2) Intake Width (m)	1.00		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL23.50		
5) Down stream water level EL(m)	Down Stream EL 23.40		
6) Bed level EL(m)	EL22.70		
7) Gate type / Wood, steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	not so bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) Please write remarks, if any	Maintenance is carried out every one year		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure

For Intake




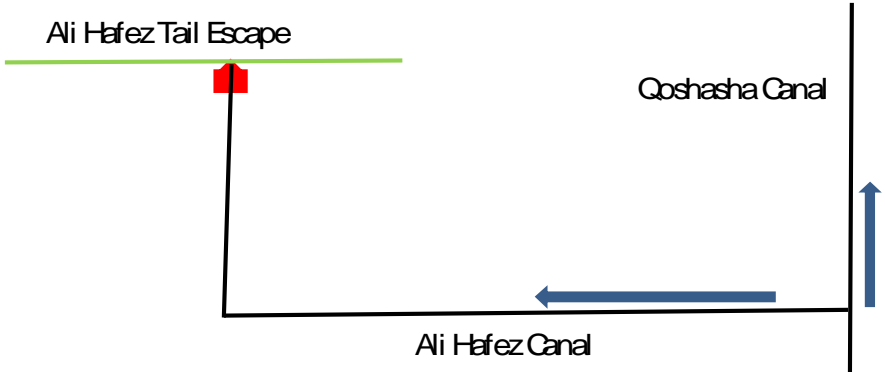
**B11**

1. Name	ABWED	2. Construction Year	----
3. Type	Intake		
4. Canal's name	ABWED		
5. Command Area (feddan)	1,400	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.81 m3/s
7. Length of Canal downstream the structure (km)	5.330		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	<u>within 5 years</u>		
10. Cost of the necessary works for improvement	110,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction of the intake to take into consideration of the loction.		
12. Existing problems of the structure	The structure has been damaged and the gates can not work suitable. This intake has severe problem to fair water.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)	2.80		
2) Intake Width (m)	1.45		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL25.50		
5) Down stream water level EL(m)	Down Stream EL 23.40		
6) Bed level EL(m)	N		
7) Gate type / Wood, steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) Please write remarks, if any	Maintenance is carried out every one year		
15. Picture	Front	Top	Surround
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">El Geza Canal</p> <p style="text-align: center;">← ABWED Canal</p> <p style="text-align: right;">↑ ABWED Canal Intake</p>		

Data Sheet of the Minor Structure

For Tail escape




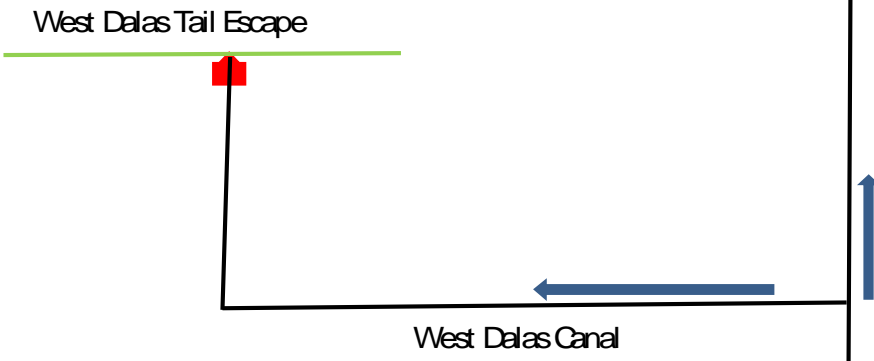
**B12**

1. Name	ALI HAFEZ	2. Construction Year	1965
3. Type	Tail escape		
4. Canal's name	ALI HAFEZ		
5. Command Area (feddan)	4,900	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.8 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)	9.830		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	<u>within 5 years</u>		
10. Cost of the necessary works for improvement	25,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction of the structure and replace the gate.		
12. Existing problems of the structure	<u>The structure has been damaged and the gates can not work suitable.</u>		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)	N		
2) Intake Width (m)	N		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL24.40		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	EL23.70		
7) Gate type / Wood, steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure

For Tail escape




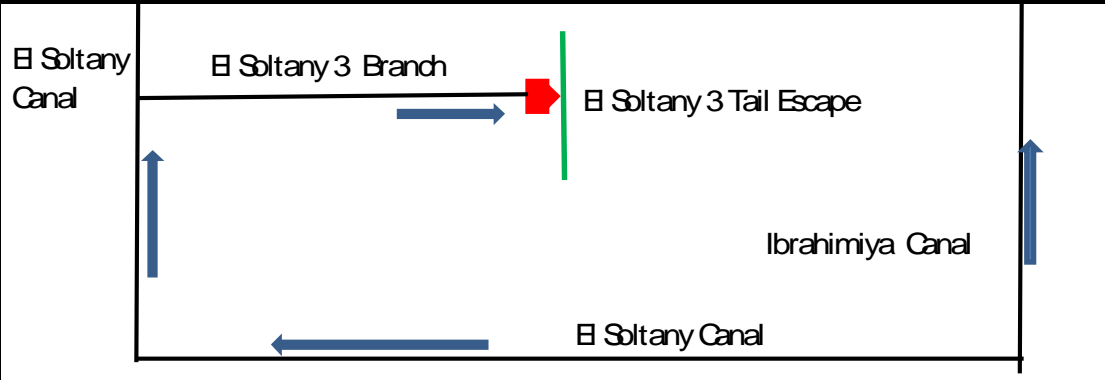
**B13**

1. Name	DALAS WEST	2. Construction Year	1965
3. Type	Tail escape		
4. Canal's name	DALAS WEST		
5. Command Area (feddan)	2,300	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.33 m3/s
7. Length of Canal downstream the structure (km)	8.080		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Rehabilitation</u>		
9. Commencement of the necessary works for improvement	<u>within 20 years</u>		
10. Cost of the necessary works for improvement	25,000 LE		
11. Contents of the necessary works for improvement	Need the some rehabilitation and maintenance of the gate.		
12. Existing problems of the structure	The gate is not so bad. The gates can not work suitable.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)	N		
2) Intake Width (m)	N		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL24.00		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	EL23.20		
7) Gate type / Wood, steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	good		
9) Gate condition / Excellent, Good, Bad, Already Expire	not so Bad		
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">West Dalas Tail Escape</p>  <p style="text-align: center;">West Dalas Canal</p>		

Data Sheet of the Minor Structure

For Tail escape




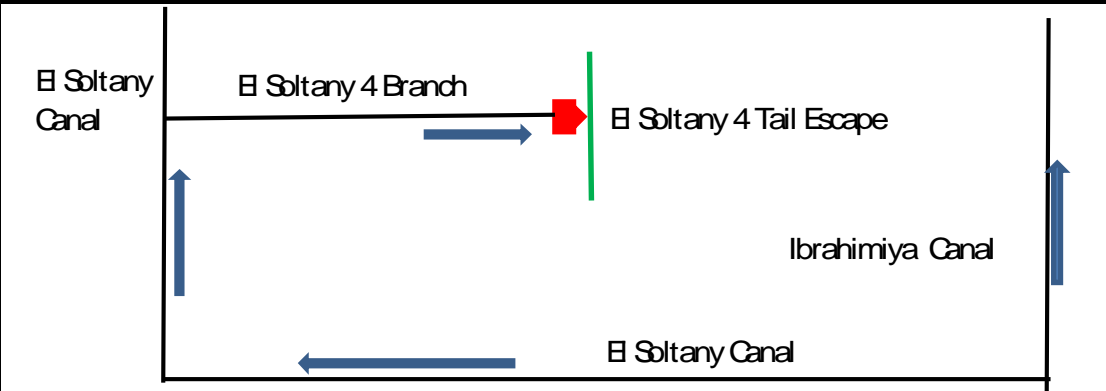
**B14**

1. Name	SOLTANE (3)	2. Construction Year	1965
3. Type	Tail escape		
4. Canal's name	SOLTANE (3)		
5. Command Area (feddan)	214	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.6 m3/s
7. Length of Canal (km)	1.360		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Maintenance		
9. Commencement of the necessary works for improvement	within 20 years		
10. Cost of the necessary works for improvement	5,000 LE		
11. Contents of the necessary works for improvement	Need the some rehabilitation and removal of the weeds at upstream.		
12. Existing problems of the structure	The structure is not so bad.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)	N		
2) Intake Width (m)	N		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL27.30		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	EL26.80		
7) Gate type / Wood, steel, Others, Nothing	N		
8) Structure condition / Excellent, Good, Bad, Already Expire	good		
9) Gate condition / Excellent, Good, Bad, Already Expire	N		
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure

For Tail escape




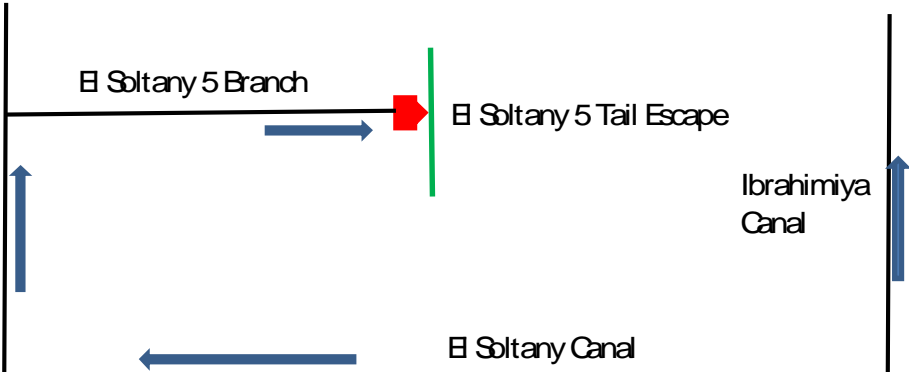
**B15**

1. Name	SOLTANE (4)	2. Construction Year	1975
3. Type	Tail escape		
4. Canal's name	SOLTANE (4)		
5. Command Area (feddan)	150	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.6 m3/s
7. Length of Canal (km)	1.480		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	25,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction of the structure and replace the gate.		
12. Existing problems of the structure	The structure has been damaged and the gates can not work suitable.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)	N		
2) Intake Width (m)	N		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL27.10		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	EL26.60		
7) Gate type / Wood, steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure

For Tail escape

**B16**




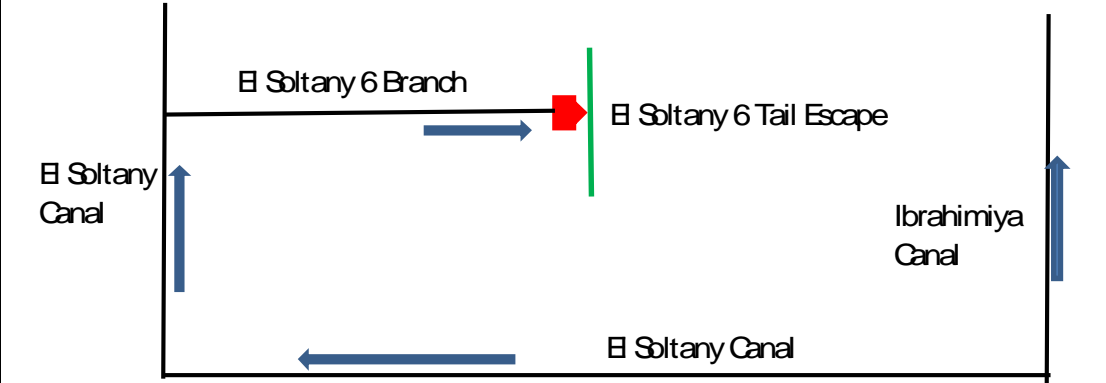
1. Name	SOLTANE (5)	2. Construction Year	1964
3. Type	Tail escape		
4. Canal's name	SOLTANE (5)		
5. Command Area (feddan)	147	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.6 m3/s
7. Length of Canal (km)	1.150		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Maintenance		
9. Commencement of the necessary works for improvement	Within 20 years		
10. Cost of the necessary works for improvement	5,000 LE		
11. Contents of the necessary works for improvement	Remove the garbage end of the pipe		
12. Existing problems of the structure	The structure has been expired almost. According to the hearing at site, there is no problem		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)	N		
2) Intake Width (m)	N		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL27.00		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	EL26.60		
7) Gate type / Wood, steel, Others, Nothing	N		
8) Structure condition / Excellent, Good, Bad, Already Expire	Already Expire		
9) Gate condition / Excellent, Good, Bad, Already Expire	N		
10) Please write remarks, if any			
15. Picture	Surround	End of pipe	End of pipe close up
			
16. Location / Also show the Location other MAP	 <p>The diagram shows a schematic of the canal system. On the left, the 'El Soltany Canal' flows upwards. A 'El Soltany 5 Branch' extends horizontally to the right from the main canal. At the end of this branch is the 'El Soltany 5 Tail Escape', marked with a red arrow pointing right. Below the branch, the 'El Soltany Canal' continues to the right. On the far right, the 'Ibrahimiya Canal' flows upwards. Blue arrows indicate the flow direction in the main canal and Ibrahimiya Canal. A red arrow points to the tail escape structure.</p>		



Data Sheet of the Minor Structure

For Tail escape




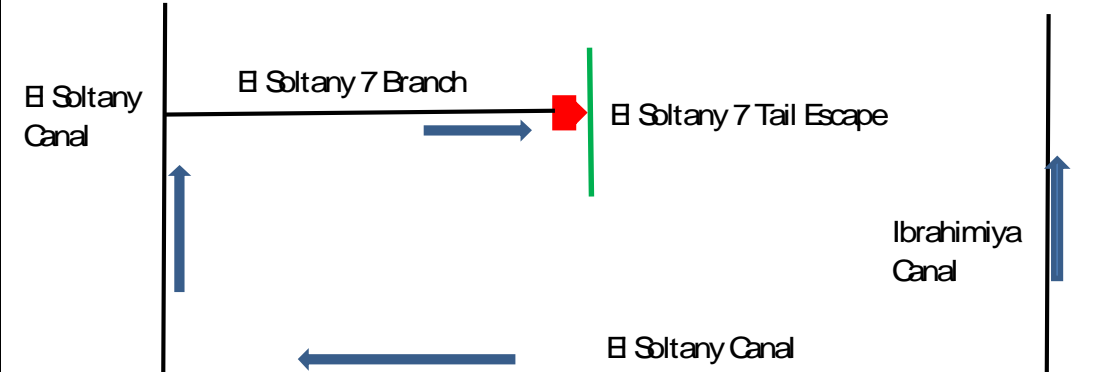
**B17**

1. Name	SOLTANE (6)	2. Construction Year	1970
3. Type	Tail escape		
4. Canal's name	SOLTANE (6)		
5. Command Area (feddan)	520	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.7 m3/s
7. Length of Canal (km)	2.300		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	within 10 years		
10. Cost of the necessary works for improvement	10,000 LE		
11. Contents of the necessary works for improvement	Need the some rehabilitation and replace the gate.		
12. Existing problems of the structure	The structure on surface has been damaged by weathering, however these damage dose not seem fatal.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)	N		
2) Intake Width (m)	N		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL27.00		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	EL26.60		
7) Gate type / Wood, steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	not so bad		
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure

For Tail escape




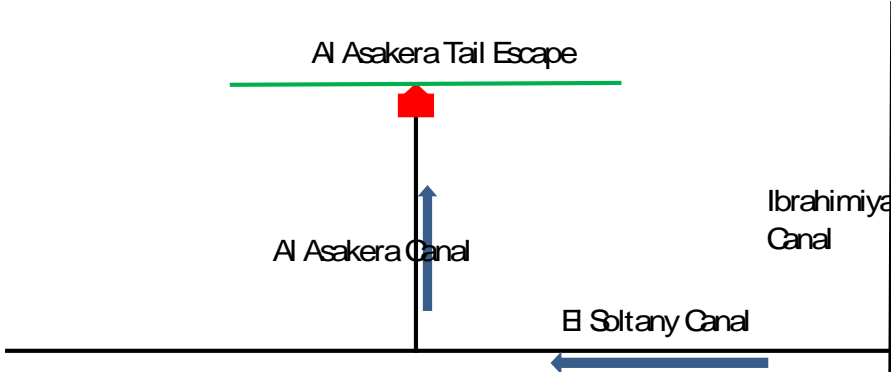
**B18**

1. Name	SOLTANE (7)		2. Construction Year	1970
3. Type				Tail escape
4. Canal's name	SOLTANE (7)			
5. Command Area (feddan)	230	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.7 m3/s	
7. Length of Canal (km)				2.300
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation			
9. Commencement of the necessary works for improvement	within 10 years			
10. Cost of the necessary works for improvement	10,000 LE			
11. Contents of the necessary works for improvement	Need the some rehabilitation and replace the gate.			
12. Existing problems of the structure	The structure on surface has been damaged by weathering, however these damage dose not seem fatal.			
13. Material of the structure / Wood, Brick, Stone, steel, Concert				Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )				
1) Intake Height (m)				N
2) Intake Width (m)				N
3) Number of Vent				1
4) Up stream water level EL(m)				Up Stream EL26.90
5) Down stream water level EL(m)				N
6) Bed level EL(m)				EL26.50
7) Gate type / Wood, steel, Others, Nothing				N
8) Structure condition / Excellent, Good, Bad, Already Expire				Bad
9) Gate condition / Excellent, Good, Bad, Already Expire				N
10) Please write remarks, if any				
15. Picture	Front	Top	Side or Behind	
				
16. Location / Also show the Location other MAP				

Data Sheet of the Minor Structure

For Tail escape



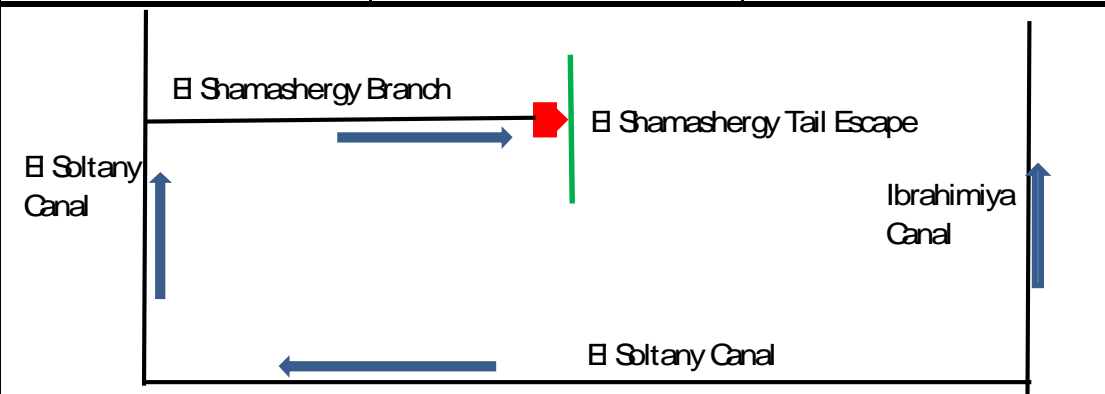
**B19**

1. Name	AL-ASKRA	2. Construction Year	1980
3. Type	Tail escape		
4. Canal's name	AL-ASKRA		
5. Command Area (feddan)	3,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.74 m <sup>3</sup> /s
7. Length of Canal (km)	7.200		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	Within 10 years		
10. Cost of the necessary works for improvement	10,000 LE		
11. Contents of the necessary works for improvement	Need the some rehabilitation for the structure.		
12. Existing problems of the structure	The structure has been damaged. According to the hearing to farmer, the water has not been reached up tail escape, therefore, there is no problem.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)	N		
2) Intake Width (m)	N		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL28.00		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	EL27.35		
7) Gate type / Wood, steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) Please write remarks, if any			
15. Picture	Side1	Side2	Behind
			
16. Location / Also show the Location other MAP	 <p>Al Asakera Tail Escape</p> <p>Al Asakera Canal</p> <p>Ibrahimiya Canal</p> <p>El Soltany Canal</p>		

Data Sheet of the Minor Structure

For Tail escape




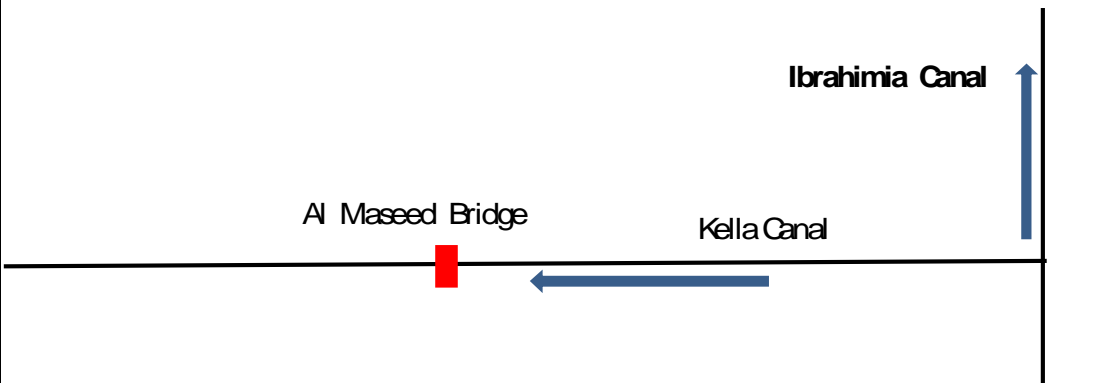
**B20**

1. Name	ALSHAMSERGE	2. Construction Year	1970
3. Type	Tail escape		
4. Canal's name	ALSHAMSERGE		
5. Command Area (feddan)	2,760	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.7 m3/s
7. Length of Canal (km)	9.700		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	Within 10 years		
10. Cost of the necessary works for improvement	10,000 LE		
11. Contents of the necessary works for improvement	Need the some rehabilitation and remove the weeds.		
12. Existing problems of the structure	The structure has been damaged. According to the hearing to farmer, the water has not been reached up tail escape, therefore, there is no problem.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)	N		
2) Intake Width (m)	N		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL27.70		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	EL26.50		
7) Gate type / Wood, steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) Please write remarks, if any			
15. Picture	Surround	Front	
			
16. Location / Also show the Location other MAP	 <p>The diagram shows a network of canals. On the left, the El Soltany Canal flows upwards. A branch, the El Shamashergy Branch, extends to the right from the El Soltany Canal. At the end of this branch is the El Shamashergy Tail Escape, marked with a red square. To the right of the tail escape is the Ibrahimiyah Canal, which flows upwards. The El Soltany Canal continues downwards from the tail escape area.</p>		

Data Sheet of the Minor Structure

For Bridge




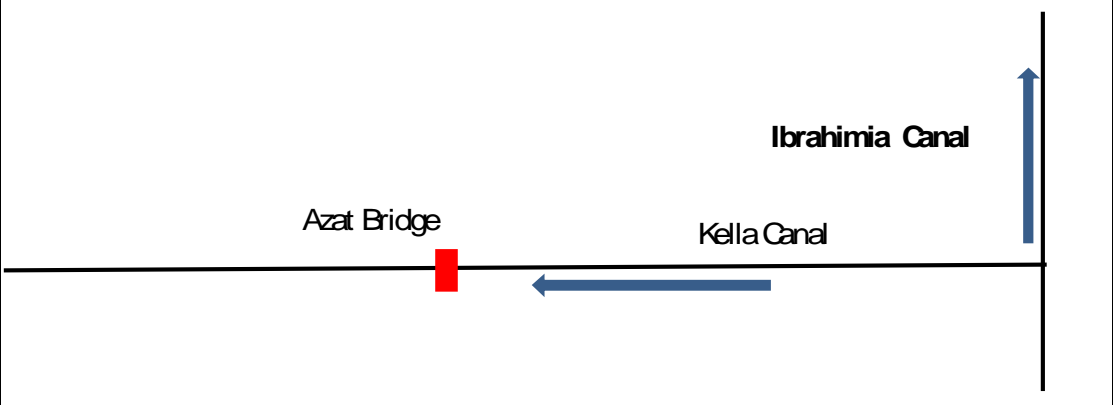
**B21**

1. Name	Qela canal	2. Construction Year	1965
3. Type	Bridge		
4. Canal's name	Qela canal		
5. Command Area (feddan)	12,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	7.0 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)	14.000		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction (need sytudy)		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	500,000 LE		
11. Contents of the necessary works for improvement	The surface of the structure has been damaged by Weathering. However, these damage does not seem fatal damage. Need more some test to check the current strength of the brick		
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Stone		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)		8.00	
2) Length of the Bridge (m)		11.50	
3) Height of the pier or abut of the Bridge from the canal bed (m)		3.00	
4) Width of the canal at Bridge point (m)		5.00	
5) Width of up stream of the canal (m)		5.00	
6) Width of down stream of the canal (m)		5.00	
7) Up stream water level EL(m)		Up Stream EL27.50	
8) Down stream water level EL(m)		Down Stream EL 27.50	
9) Please write remarks, if any		3 vents*2.50 m & water depth 1.30 m	
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">Ibrahimia Canal</p> <p style="text-align: center;">Al Maseed Bridge</p> <p style="text-align: center;">Kella Canal</p>		

Data Sheet of the Minor Structure

For Bridge




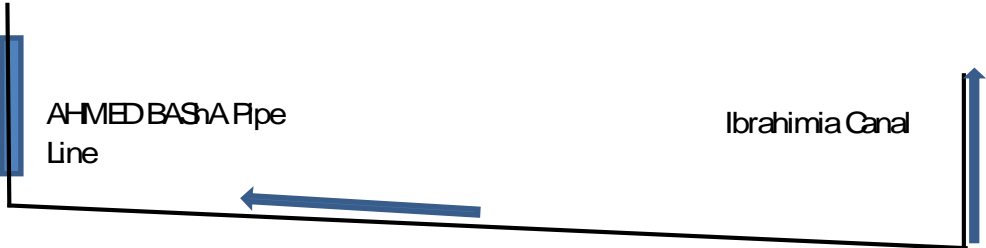
**B22**

1. Name	AZIT bridge	2. Construction Year	1950
3. Type	Bridge		
4. Canal's name	Qela canal		
5. Command Area (feddan)	11,500	6. Max discharge of canal (m <sup>3</sup> /day) or (m3/s)	6.5 m3/s
7. Length of Canal downstream the structure (km)	12.000		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	<u>within 5 years</u>		
10. Cost of the necessary works for improvement	<u>500,000 LE</u>		
11. Contents of the necessary works for improvement	Need the reconstruction.		
12. Existing problems of the structure	The structure has been damaged by Weathering. Especially there are cracks to be cared on the abut pier.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)		8.00	
2) Length of the Bridge (m)		12.00	
3) Height of the pier or abut of the Bridge from the canal bed (m)		5.00	
4) Width of the canal at Bridge point (m)		5.00	
5) Width of up stream of the canal (m)		5.00	
6) Width of down stream of the canal (m)		5.00	
7) Up stream water level EL(m)		Up Stream EL27.25	
8) Down stream water level EL(m)		Down Stream EL 27.25	
9) Please write remarks, if any			
15. Picture	Front1	Side1	Side2
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure

For Pipe line




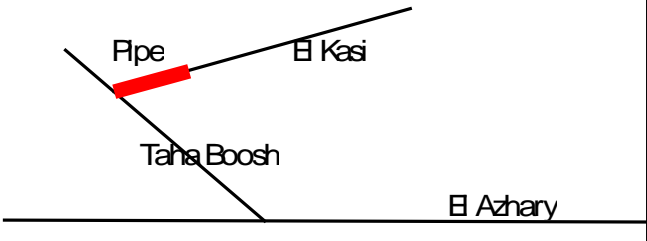
**B23**

1. Name	AHMED BASA	2. Construction Year	1995
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			Pipe line
4. Canal's name	Beni Kasem / K 5.000		
5. Command Area (feddan)	5,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3.5 m3/s
7. Length of Canal downstream the structure (km)			9.000
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement (At least after 5yr)			within 5 years
10. Cost of the necessary works for improvement			300,000 LE
11. Contents of the necessary works for improvement		Need to replace the pipe to more wide and remove the garbage.	
12. Existing problems of the structure		The structure has been damaged by Weathering. Especially there are much garbage to prevent the fairs water.	
13. Material of the structure / Wood, Brick, Stone, steel, Other			Other / R.C
14. Material of the pipe / Wood, Brick, Stone, steel, Other			Other / R.C
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)			N
2) Vent width of the Culvert (m)			N
3) Length of the Culvert, Siphon, Aqueduct (m)			N
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)			1.00
5) The difference of water head level of the siphon (m)			0.30 m
6) Diameter of the pipe for Siphon or Aqueduct (mm)			1.50 m
7) Up stream water level EL(m)			Up Stream EL29.30
8) Down stream water level EL(m)			Down Stream EL 29.00
9) Length of pipe for Siphon or Aqueduct, if any (m)			100.00
10) Structure condition / Excellent, Good, Bad, Already Expire			Bad
11) Pipe condition / Excellent, Good, Bad, Already Expire			Bad(by original data sheet)
12) Please write remarks, if any		Length of pipe line 100 m	
15. Picture	Front1	Front2	Behind or side
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure

For Pipe line




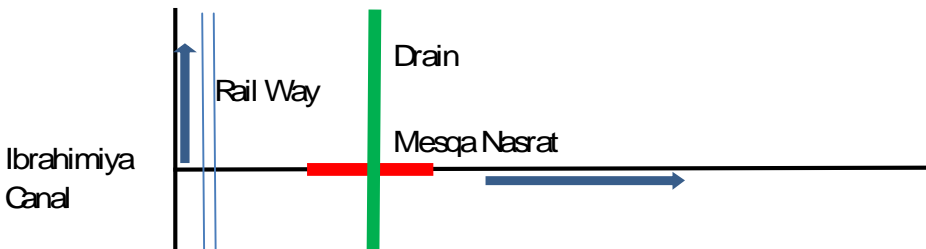
**B24**

1. Name	Fare alkasi	2. Construction Year	1998
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)	Pipe line		
4. Canal's name	Fr ee alkasi		
5. Command Area (feddan)	800	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.6 m3/s
7. Length of Canal downstream the structure (km)	2.700		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement (At least after 5yr)	within 5 years		
10. Cost of the necessary works for improvement	300,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction and replace the gate.		
12. Existing problems of the structure	The structure has been damaged and the gates can not work suitable.		
13. Material of the structure / Wood, Brick, Stone, steel, Other	Other / R.C		
14. Material of the pipe / Wood, Brick, Stone, steel, Other	Other / R.C		
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)	N		
2) Vent width of the Culvert (m)	N		
3) Length of the Culvert, Siphon, Aqueduct (m)	N		
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)	1.50		
5) The difference of water head level of the siphon (m)	0.30		
6) Diameter of the pipe for Siphon or Aqueduct (mm)	1.00 m		
7) Up stream water level EL(m)	Up Stream EL27.00		
8) Down stream water level EL(m)	Down Stream EL 26.80		
9) Length of pipe for Siphon or Aqueduct, if any (m)	400.00		
10) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
11) Pipe condition / Excellent, Good, Bad, Already Expire	Bad(by original data sheet)		
12) Please write remarks, if any	Open cannel is 450m + 70m		
15. Picture	Front	Downstream	Behind or side
			
16. Location / Also show the Location other MAP			Ibrahimia Canal



# Data Sheet of the Minor Structure For Aqueduct




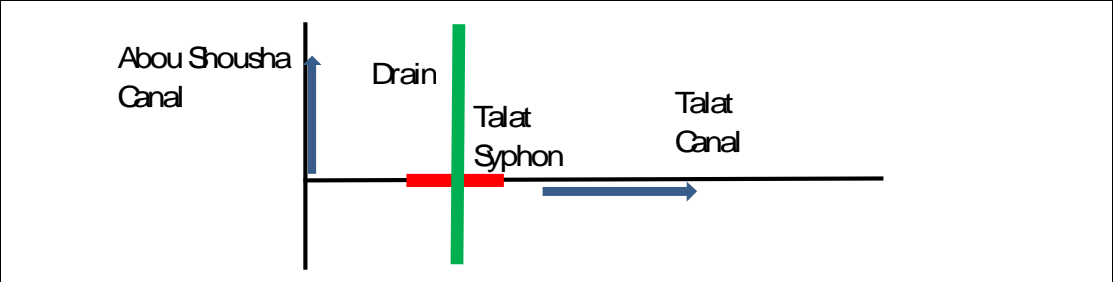
## B25

1. Name	NASRT	2. Construction Year	1960
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			Aqueduct
4. Canal's name	NASRT canal		
5. Command Area (feddan)	350	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.5 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)			1.690
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement (At least after 5yr)			within 5 years
10. Cost of the necessary works for improvement			250,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction of the intake and remove the weed and sedimentation in front of the intake.	
12. Existing problems of the structure		Canal bed is so high that prevent from fair intake . And it has been damaged by the weathering	
13. Material of the structure / Wood, Brick, Stone, steel, Other			Other / R.C
14. Material of the pipe / Wood, Brick, Stone, steel, Other			
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)			N
2) Vent width of the Culvert (m)			N
3) Length of the Culvert, Siphon, Aqueduct (m)			N
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)			1.00 m
5) The difference of water head level of the siphon (m)			0.20
6) Diameter of the pipe for Siphon or Aqueduct (mm)			0.80
7) Up stream water level EL(m)			Up Stream EL28.50
8) Down stream water level EL(m)			Down Stream EL 28.30
9) Length of pipe for Siphon or Aqueduct, if any (m)			60.00 m
10) Structure condition / Excellent, Good, Bad, Already Expire			Bad
11) Pipe condition / Excellent, Good, Bad, Already Expire			Bad(by original data sheet)
12) Please write remarks, if any			
15. Picture	Front	Top	Behind or side
			
16. Location / Also show the Location other MAP	 <p>The map shows a horizontal line representing the Ibrahimiya Canal. To the left of the canal is the label 'Ibrahimiya Canal'. Above the canal, there are two vertical blue lines representing the 'Rail Way'. To the right of the canal, there is a vertical green line representing the 'Drain'. Below the canal, there is a red horizontal line representing the 'Mesqa Nasrat'. A blue arrow points to the right along the canal line, indicating the flow direction.</p>		

Data Sheet of the Minor Structure




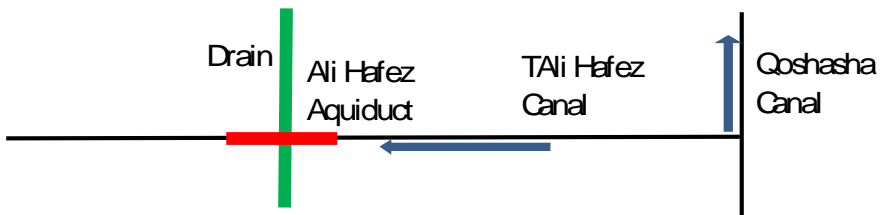
For Culvert

**B26**

1. Name	TLAT canal	2. Construction Year	1960
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			Culvert
4. Canal's name	TLAT canal		
5. Command Area (feddan)	4,580	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.65 m3/s
7. Length of Canal downstream the structure (km)			8.600
8. Necessary works for improvement / Rehabilitation or Reconstruction	Construction		
9. Commencement of the necessary works for improvement (At least after 5yr)	Within 5 years		
10. Cost of the necessary works for improvement	500,000 LE		
11. Contents of the necessary works for improvement	Need the construction as the aqueduct		
12. Existing problems of the structure	They want to change to the Aqueduct for the difficulty of the supply water.		
13. Material of the structure / Wood, Brick, Stone, steel, Other	Other / R.C		
14. Material of the pipe / Wood, Brick, Stone, steel, Other			
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)			N
2) Vent width of the Culvert (m)			N
3) Length of the Culvert, Siphon, Aqueduct (m)			N
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)			1.00
5) The difference of water head level of the siphon (m)			0.50
6) Diameter of the pipe for Siphon or Aqueduct (mm)			1.00
7) Up stream water level EL(m)			Up Stream EL29.50
8) Down stream water level EL(m)			Down Stream EL 29.00
9) Length of pipe for Siphon or Aqueduct, if any (m)			100.00
10) Structure condition / Excellent, Good, Bad, Already Expire			not so bad
11) Pipe condition / Excellent, Good, Bad, Already Expire			not so bad
12) Please write remarks, if any			
15. Picture	Front	Behind	Other
			
16. Location / Also show the Location other MAP	 <p>The diagram shows a horizontal line representing a canal. On the left, a vertical line labeled 'Abou Shousha Canal' intersects it. Further right, a vertical green line labeled 'Drain' intersects it. To the right of the drain, a red horizontal bar labeled 'Talat Syphon' is shown. Further right, a blue arrow points to the right, labeled 'Talat Canal'.</p>		

# Data Sheet of the Minor Structure For Aqueduct




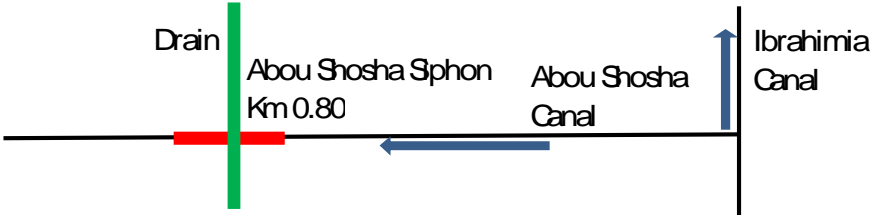
## B27

1. Name	ALI HAFZ	2. Construction Year	1960
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)	Aqueduct		
4. Canal's name	ALI HAFZ		
5. Command Area (feddan)	5,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.89 m3/s
7. Length of Canal downstream the structure (km)	8.900		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement (At least after 5yr)	within 5 years		
10. Cost of the necessary works for improvement	1,000,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction of the structure and replace the steel pipe at same time.		
12. Existing problems of the structure	The structure has been damaged by Weathering. And steel pipe preferable replace with structure body at same time.		
13. Material of the structure / Wood, Brick, Stone, steel, Other	Brick and steel pipe		
14. Material of the pipe / Wood, Brick, Stone, steel, Other	Steel		
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)	N		
2) Vent width of the Culvert (m)	N		
3) Length of the Culvert, Siphon, Aqueduct (m)	28.00 m		
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)	1.50		
5) The difference of water head level of the siphon (m)	0.20		
6) Diameter of the pipe for Siphon or Aqueduct (mm)	2000.00		
7) Up stream water level EL(m)	Up Stream EL25.70		
8) Down stream water level EL(m)	Down Stream EL 25.50		
9) Length of pipe for Siphon or Aqueduct, if any (m)	70.00 m		
10) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
11) Pipe condition / Excellent, Good, Bad, Already Expire	Bad(by original data sheet)		
12) Please write remarks, if any			
15. Picture	Front	Top	Behind or side
			
16. Location / Also show the Location other MAP	 <p>The map shows a horizontal line representing the canal system. From left to right: a green vertical line labeled 'Drain', a red horizontal line labeled 'Ali Hafez Aqueduct', a blue horizontal line labeled 'TAli Hafez Canal', and a blue vertical line labeled 'Qoshasha Canal'. A blue arrow points from the TAli Hafez Canal towards the Ali Hafez Aqueduct.</p>		

Data Sheet of the Minor Structure

For Siphon





**B28**

1. Name	ABO SHOSHE K0.8	2. Construction Year	1960
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			Siphon
4. Canal's name	ABO SHOSHE		
5. Command Area (feddan)	5,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.89 m3/s
7. Length of Canal downstream the structure (km)			8.900
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement (At least after 5yr)			within 5 years
10. Cost of the necessary works for improvement			500,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction of the structure, replace the steel pipe and the protection works on the pipe at across the canal.	
12. Existing problems of the structure		The structure has been damaged by Weathering. The pipes at across the canal are appeared on the canal.	
13. Material of the structure / Wood, Brick, Stone, steel, Other			Brick and steel pipe
14. Material of the pipe / Wood, Brick, Stone, steel, Other			Steel
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)			N
2) Vent width of the Culvert (m)			N
3) Length of the Culvert, Siphon, Aqueduct (m)			N
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)			2.50
5) The difference of water head level of the siphon (m)			1.00
6) Diameter of the pipe for Siphon or Aqueduct (mm)			2000.00
7) Up stream water level EL(m)			Up Stream EL29.50
8) Down stream water level EL(m)			Down Stream EL 28.50
9) Length of pipe for Siphon or Aqueduct, if any (m)			40.00
10) Structure condition / Excellent, Good, Bad, Already Expire			Bad
11) Pipe condition / Excellent, Good, Bad, Already Expire			Bad(by original data sheet)
12) Please write remarks, if any		This siphon is made from three pipe	
15. Picture	Front1	Front2	Cross point
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure

For Siphon




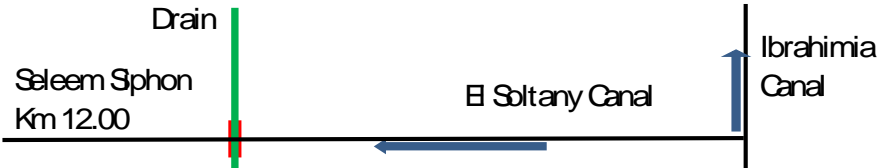
**B29**

1. Name	ABO SHOSHE K1.5	2. Construction Year	1960
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			Siphon
4. Canal's name	ABO SHOSHE		
5. Command Area (feddan)	5,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.89 m3/s
7. Length of Canal downstream the structure (km)			8.900
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement (At least after 5yr)			within 5 years
10. Cost of the necessary works for improvement			500,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction of the structure and the protection works on the pipe at across the canal.	
12. Existing problems of the structure		The structure has been damaged by Weathering. The pipes at across the canal are appeared on the canal.	
13. Material of the structure / Wood, Brick, Stone, steel, Other			Brick and steel pipe
14. Material of the pipe / Wood, Brick, Stone, steel, Other			Steel
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)			N
2) Vent width of the Culvert (m)			N
3) Length of the Culvert, Siphon, Aqueduct (m)			N
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)			2.50
5) The difference of water head level of the siphon (m)			1.00
6) Diameter of the pipe for Siphon or Aqueduct (mm)			2000.00
7) Up stream water level EL(m)			Up Stream EL28.80
8) Down stream water level EL(m)			Down Stream EL 27.80
9) Length of pipe for Siphon or Aqueduct, if any (m)			50.00
10) Structure condition / Excellent, Good, Bad, Already Expire			Bad
11) Pipe condition / Excellent, Good, Bad, Already Expire			Bad(by original data sheet)
12) Please write remarks, if any		This siphon is made from three pipe	
15. Picture	Front	Top	Behind or side
			
16. Location / Also show the Location other MAP	 <p>The map shows a horizontal line representing a canal. A red vertical bar labeled 'Drain' crosses it from the top. A blue arrow points left from the intersection. A green vertical bar labeled 'Abou Shosha Siphon Km 1.50' crosses the canal. To the right, a blue vertical bar labeled 'Abou Shosha Canal' is shown. Further right, a blue vertical bar labeled 'Ibrahimia Canal' is shown with an upward-pointing arrow.</p>		

Data Sheet of the Minor Structure

For Siphon




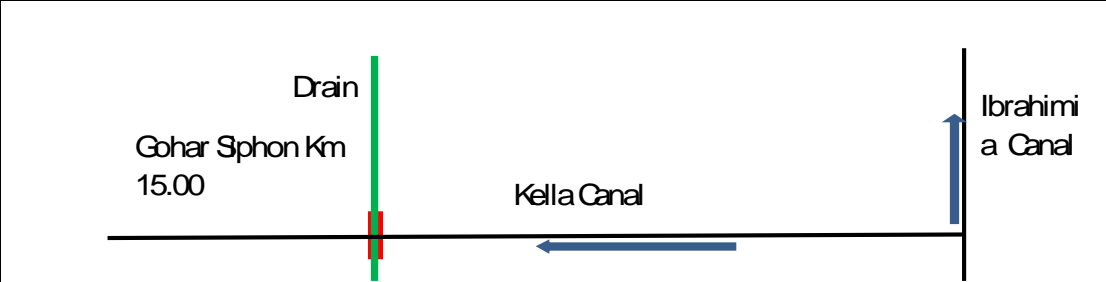
**B30**

1. Name	Sleem Siphon	2. Construction Year	1960
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			Siphon
4. Canal's name	Soltane / K 12		
5. Command Area (feddan)	3,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.50 m3/s
7. Length of Canal downstream the structure (km)			2.300
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement (At least after 5yr)			within 5 years
10. Cost of the necessary works for improvement			250,000 LE
11. Contents of the necessary works for improvement	Need the reconstruction of the structure and the protection works on the pipe at across the canal.		
12. Existing problems of the structure	The structure has been damaged by Weathering. The pipes at across the canal are appeared on the canal.		
13. Material of the structure / Wood, Brick, Stone, steel, Other			Brick
14. Material of the pipe / Wood, Brick, Stone, steel, Other			Steel
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)			2.00
2) Vent width of the Culvert (m)			2.00
3) Length of the Culvert, Siphon, Aqueduct (m)			60.00
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)			2.50
5) The difference of water head level of the siphon (m)			0.90
6) Diameter of the pipe for Siphon or Aqueduct (mm)			2000.00
7) Up stream water level EL(m)			Up Stream EL27.50
8) Down stream water level EL(m)			Down Stream EL 26.60
9) Length of pipe for Siphon or Aqueduct, if any (m)			60.00
10) Structure condition / Excellent, Good, Bad, Already Expire			Bad
11) Pipe condition / Excellent, Good, Bad, Already Expire			Bad(by original data sheet)
12) Please write remarks, if any	This siphon is made from one pipe		
15. Picture	Front1	Front2	Surround
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure

For Siphon




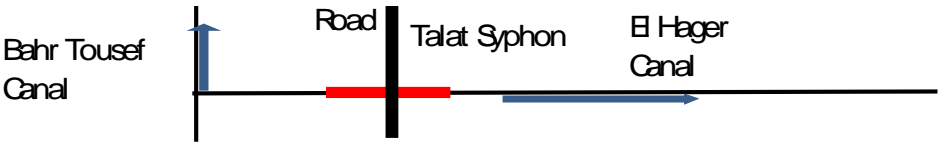
**B31**

1. Name	GOHR K15	2. Construction Year	1969
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			Siphon
4. Canal's name	Qela		
5. Command Area (feddan)	11,500	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	6.50 m3/s
7. Length of Canal downstream the structure (km)	14.300		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement (At least after 5yr)	within 5 years		
10. Cost of the necessary works for improvement	250,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction of the structure and the protection works on the pipe at across the canal.		
12. Existing problems of the structure	The structure has been damaged by Weathering. The pipes at across the canal are appeared on the canal.		
13. Material of the structure / Wood, Brick, Stone, steel, Other	Brick		
14. Material of the pipe / Wood, Brick, Stone, steel, Other	Steel		
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)	N		
2) Vent width of the Culvert (m)	N		
3) Length of the Culvert, Siphon, Aqueduct (m)	N		
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)	2.50		
5) The difference of water head level of the siphon (m)	0.60		
6) Diameter of the pipe for Siphon or Aqueduct (mm)	2000.00		
7) Up stream water level EL(m)	Up Stream EL26.60		
8) Down stream water level EL(m)	Down Stream EL 26.00		
9) Length of pipe for Siphon or Aqueduct, if any (m)	50.00		
10) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
11) Pipe condition / Excellent, Good, Bad, Already Expire	Bad(by original data sheet)		
12) Please write remarks, if any			
15. Picture	Front	Top	Behind or side
			
16. Location / Also show the Location other MAP	 <p>Drain</p> <p>Gohar Sphon Km 15.00</p> <p>Kella Canal</p> <p>Ibrahimi a Canal</p>		

Data Sheet of the Minor Structure

For Siphon

**B32**

1. Name	ALBEN K3	2. Construction Year	1962
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			Siphon
4. Canal's name	ALLAHON / Bahr Yousef		
5. Command Area (feddan)	800	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.6 m3/s
7. Length of Canal downstream the structure (km)	2.700		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Rehabilitation</u>		
9. Commencement of the necessary works for improvement (At least after 5yr)	<u>within 10 years</u>		
10. Cost of the necessary works for improvement	<u>100,000 LE</u>		
11. Contents of the necessary works for improvement	<u>Need the rehabilitation of the structure and the protection works on the pipe at across the canal.</u>		
12. Existing problems of the structure	<u>The structure has been damaged by Weathering. The pipes at across the canal are appeared on the canal.</u>		
13. Material of the structure / Wood, Brick, Stone, steel, Other	Brick		
14. Material of the pipe / Wood, Brick, Stone, steel, Other	Other / R.C		
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)	N		
2) Vent width of the Culvert (m)	N		
3) Length of the Culvert, Siphon, Aqueduct (m)	N		
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)	1.00		
5) The difference of water head level of the siphon (m)	0.50		
6) Diameter of the pipe for Siphon or Aqueduct (mm)	2000.00		
7) Up stream water level EL(m)	Up Stream EL24.50		
8) Down stream water level EL(m)	Down Stream EL 24.00		
9) Length of pipe for Siphon or Aqueduct, if any (m)	50.00		
10) Structure condition / Excellent, Good, Bad, Already Expire	Not so bad		
11) Pipe condition / Excellent, Good, Bad, Already Expire	Bad(by original data sheet)		
12) Please write remarks, if any	This siphon is made from one pipe		
15. Picture	Front1	Front2	Cross point
			
16. Location / Also show the Location other MAP			



Data Sheet of the Minor Structure

For Siphon

**B33**

1. Name	BANI SALIH K3	2. Construction Year	1968
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			Siphon
4. Canal's name	ABOSHOSHA		
5. Command Area (feddan)	800	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	4.6 m3/s
7. Length of Canal downstream the structure (km)	7.000		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction (need sytudy)		
9. Commencement of the necessary works for improvement (At least after 5yr)	within 5 years		
10. Cost of the necessary works for improvement	500,000 LE		
11. Contents of the necessary works for improvement	The surface of the structure has been damaged by Weathering. However, these damage does not seem fatal damage. Need more some test to check the current strength of the brick		
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, steel, Other	Brick		
14. Material of the pipe / Wood, Brick, Stone, steel, Other	steel		
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)	N		
2) Vent width of the Culvert (m)	2.50		
3) Length of the Culvert, Siphon, Aqueduct (m)	15.00		
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)	1.00		
5) The difference of water head level of the siphon (m)	0.50		
6) Diameter of the pipe for Siphon or Aqueduct (mm)	2000.00		
7) Up stream water level EL(m)	Up Stream EL29.50		
8) Down stream water level EL(m)	Down Stream EL 29.00		
9) Length of pipe for Siphon or Aqueduct, if any (m)	60.00		
10) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
11) Pipe condition / Excellent, Good, Bad, Already Expire	Bad(by original data sheet)		
12) Please write remarks, if any	This siphon is made from two pipes		
15. Picture	Front	Behind	
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure





For Pipe line

**B34**

1. Name	ALSHIKH YAHIA	2. Construction Year	1958
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)			Pipe line
4. Canal's name	ABOSHOSHA K2.8		
5. Command Area (feddan)	800	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	4.6 m3/s
7. Length of Canal downstream the structure (km)			2.700
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement (At least after 5yr)			within 5 years
10. Cost of the necessary works for improvement			300,000 LE
11. Contents of the necessary works for improvement		Need the reconstruction of the intake and preferable install the gate in front of the intake.	
12. Existing problems of the structure		The structure of the intake has been damaged by Weathering.	
13. Material of the structure / Wood, Brick, Stone, steel, Other			Brick
14. Material of the pipe / Wood, Brick, Stone, steel, Other			steel
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)			N
2) Vent width of the Culvert (m)			1.50
3) Length of the Culvert, Siphon, Aqueduct (m)			N
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)			2.50
5) The difference of water head level of the siphon (m)			1.00
6) Diameter of the pipe for Siphon or Aqueduct (mm)			2000.00
7) Up stream water level EL(m)			Up Stream EL29.00
8) Down stream water level EL(m)			Down Stream EL 28.00
9) Length of pipe for Siphon or Aqueduct, if any (m)			50.00
10) Structure condition / Excellent, Good, Bad, Already Expire			Bad
11) Pipe condition / Excellent, Good, Bad, Already Expire			Bad(by original data sheet)
12) Please write remarks, if any			
15. Picture	Front	Top	
16. Location / Also show the Location other MAP			




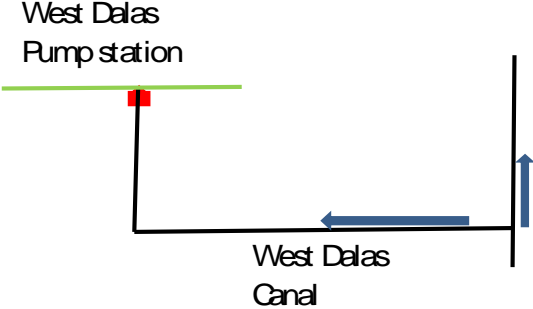
Data Sheet of the Minor Structure For Weir

**B35**

1. Name	Hdar bin hinder	2. Construction Year	1940
3. Type			Weir
4. Canal's name	Ibrahimia canal		
5. Command Area (feddan)	11,520	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	4.0m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)			5.0
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation (need sytudy)		
9. Commencement of the necessary works for improvement	within 20 years		
10. Cost of the necessary works for improvement	300,000 LE		
11. Contents of the necessary works for improvement	The structure is not so bad. The district engineer requested to be low crest level of the weir for <b>the water shortage in the future</b> . Need more study concerning the water management at this structure and the effect forward the upstream by bellowing the crest level.		
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)		8.00	
2) Height of the Weir from the canal bed (m)		N	
3) Crest level of the Weir EL (m)		EL 26.90	
4) Width of up stream of the canal (m)		2.00	
5) Width of down stream of the canal (m)		EL 16.00	
6) Up stream water level EL(m)		Up Stream EL 27.20	
7) Down stream water level EL(m)		Down Stream EL 26.20	
8) Structure condition / Excellent, Good, Bad, Already Expire		not so bad	
9) Please write remarks, if any		The body of structure is not so weathered. But the both side of gates has been damaged.	
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">Hdar bin hinder</p>  <p style="text-align: center;">Ibrahimia Canal</p>		

Data Sheet for the Minor Structure For Pump station




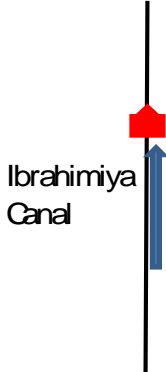
**AB1**

<b>1. Name</b>	DALAS West Pump station	<b>2. Construction Year</b>	1998
<b>3. Type</b>			Pump station
<b>4. Canal's name / Main canal name</b>	DALAS West Canal		
<b>5. Command Area (feddan)</b>	2,300	<b>6. Max discharge of canal (m<sup>3</sup>/day) or (m3/s)</b>	9.000 m3/s
<b>7. Length of Canal downstream the structure (km)</b>	---		
<b>8. Necessary works for improvement / Rehabilitation or Reconstruction</b>	Rehabilitation		
<b>9. Commencement of the necessary works for improvement</b>	Within 5 Years		
<b>10. Cost of the necessary works for improvement</b>	500,000 LE		
<b>11. Contents of the necessary works for improvement</b>	Need to install the new pump and rehabilitation of pipe at saction side and steel stage. Need the study of the actual status.		
<b>12. Existing problems of the structure</b>	One of three pumps is expired. The performance of this pump are lower than necessary performance, due to the low level water.		
<b>13. Material of the structure / Wood, Brick, Stone, steel, Conceret</b>	3 pumps		
<b>14. Question and Dimension of the structure ( If nothing of information, please write "N" )</b>			
1) Max discharge of the Pump (m <sup>3</sup> /s)	0.5 m3/sec		
2) Number of pump (How many?)	3 Units		
3) Diameter of the Pump (mm)	400		
4) Where from country is the pump machine installed site?	Netherland		
5) Power source / Electricity, Diesel, others	Electricity		
6) How ofen the maintenance / every half year or 1 year ... nothing... etc.	1 year		
7) Inatke side water level EL(m)	N		
8) Discharge side water level EL(m)	N		
9) Pump head = " 8) - 7) " (m)	N		
10) Please write remarks, if any			
<b>15. Picture</b>	<b>Front</b>	<b>In the room</b>	<b>Side or Behind</b>
			
<b>16. Location / Also show the Location other MAP</b>			

Data Sheet of the Minor Structure

For Regulator

AB2

1. Name	Waseta Regulator	2. Construction Year	1989
3. Type			Regulator
4. Canal's name	Ibrahimiya canal		
5. Command Area (feddan)	38,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.17 m3/s
7. Length of Canal (km)	-----		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	Within 5 years		
10. Cost of the necessary works for improvement	300,000 LE		
11. Contents of the necessary works for improvement	Need to replace the gate.		
12. Existing problems of the structure	The surface of the gate has been damaged. There are the hole and rust on the surface of the gate.		
13. Material of the structure / Wood, Brick, Stone, steel, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Intake Height (m)		3.45	
2) Intake Width (m)		3.00	
3) Number of Vent		1	
4) Up stream water level EL(m)		N	
5) Down stream water level EL(m)		N	
6) Bed level EL(m)		N	
7) Gate type / Wood, steel, Others, Nothing		Steel	
8) Structure condition / Excellent, Good, Bad, Already Expire		Not so bad	
9) Gate condition / Excellent, Good, Bad, Already Expire		bad	
10) Please write remarks, if any		Maintenance is carried out every one year	
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			




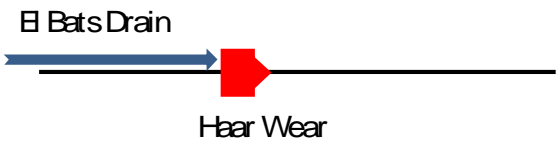
# Data Sheet by Consultant in Fayoum

Item	Number of Structure	Remarks
Intake	2	
Regulator	2	
Tail escape	0	
Culvert	1	
Siphon	0	
Aqueduct	0	
Bridge	1	
Weir	19	
Pipe line	0	
Pump station	0	
<b>Total Structure</b>	<b>25</b>	

Data Sheet of the Minor Structure




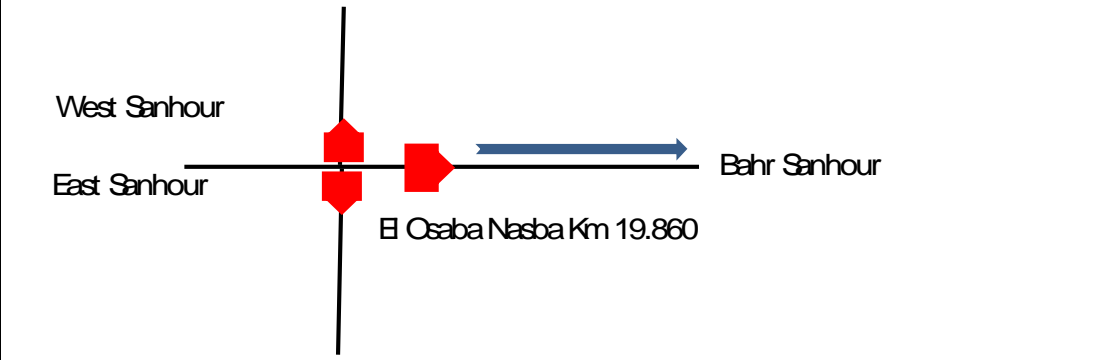
For Weir

F1

1. Name	Hear weir	2. Construction Year	Before 1943
3. Type			Weir
4. Canal's name	Bats Drain		
5. Command Area (feddan)	86,000 + 118,688 m3/d	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	16.4 m3/s
7. Length of Canal downstream the structure (km)			22.6
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 years
10. Cost of the necessary works for improvement			10,000,000 LE
11. Contents of the necessary works for improvement	Need the reconstruction and replace all the gates		
12. Existing problems of the structure	The structure has been damaged by scouring and erosion. The structure is very dangerous condition by the much discharge.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)			9.00
2) Height of the Weir from the canal bed (m)			28.04
3) Crest level of the Weir EL (m)			----
4) Width of up stream of the canal (m)			Appr. 15m
5) Width of down stream of the canal (m)			more than 15m
6) Up stream water level EL(m)			Up Stream EL 3.54
7) Down stream water level EL(m)			Down Stream EL -24.50
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Please write remarks, if any	The two pump stations are near here.		
15. Picture	Front	Down stream	Side or Behind
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure For Weir







**F2**

1. Name	El asaba nasba	2. Construction Year	1927
3. Type			3 Weirs
4. Canal's name	Sanhour		
5. Command Area (feddan)	15,869	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	5.51 m3/s
7. Length of Canal downstream the structure (km)			19.1
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	within 5yers		
10. Cost of the necessary works for improvement	<u>500,000 LE</u>		
11. Contents of the necessary works for improvement	<u>Need the reconstruction of the structure.</u>		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution. It is afraid of the scouring at downstream.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)	4.45, 2.498, 2.054		
2) Height of the Weir from the canal bed (m)	2.17		
3) Crest level of the Weir EL (m)	-EL12.70		
4) Width of up stream of the canal (m)	5.00		
5) Width of down stream of the canal (m)	---		
6) Up stream water level EL(m)	Up Stream EL -12.33		
7) Down stream water level EL(m)	Down Stream EL -14.50		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			






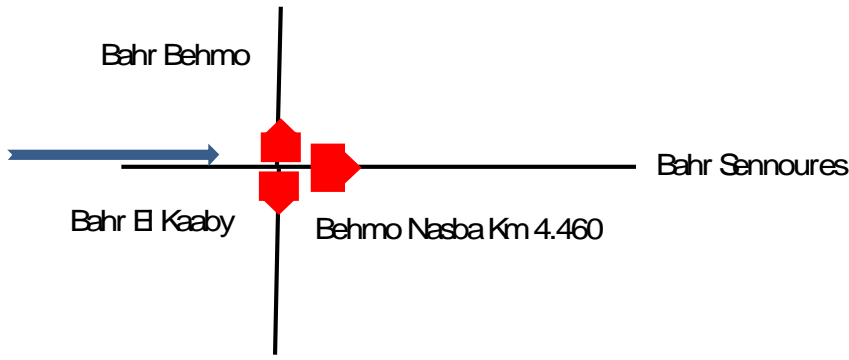
## Data Sheet for the Minor Structure For Regulator

# F3

1. Name	El Elaam	2. Construction Year	1927 - 1930
3. Type			Regulator
4. Canal's name	El Elaam		
5. Command Area (feddan)	10,772	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3.74 m3/s
7. Length of Canal downstream the structure (km)			6.2
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 years
10. Cost of the necessary works for improvement			<u>1,000,000 LE</u>
11. Contents of the necessary works for improvement	Need the reconstruction of the structure, one of the two structures		
12. Existing problems of the structure	The structure has been damaged by weathering and the wide of vent is so narrow. (Refer to the picture below side)		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.00
2) Gate Width (m)			1.00
3) Number of Vent			2 intake and each 1 vent
4) Up stream water level EL(m)			Up Stream EL23.50
5) Down stream water level EL(m)			---
6) Bed level EL(m)			EL20.80
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Good
10) Please write remarks, if any	One intake out of two intakes is expire and use it as main intake.		
15. Picture	Front	Top	Side or Behind
			
			
16. Location / Also show the Location other	Please see other location Map		




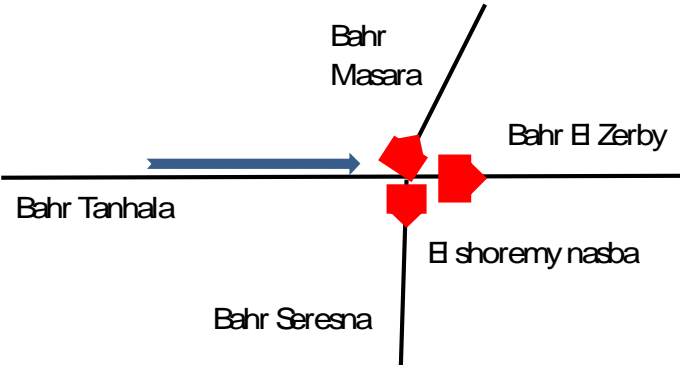
# Data Sheet of the Minor Structure For Weir

# F4

1. Name	Behmo Nasba	2. Construction Year	1926
3. Type			3 Weir
4. Canal's name	Sennors		
5. Command Area (feddan)	20,590	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	7.15
7. Length of Canal downstream the structure (km)			10.5
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	Within 5 years		
10. Cost of the necessary works for improvement	<u>1,000,000 LE</u>		
11. Contents of the necessary works for improvement	Need the reconstruction and protection work at downstream of the structure.		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution. It is afraid of the scouring at downstream.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)	10.3, 1.315, 0.828		
2) Height of the Weir from the canal bed (m)	-0.33		
3) Crest level of the Weir EL (m)	-EL12.70		
4) Width of up stream of the canal (m)	5.50		
5) Width of down stream of the canal (m)	5.00		
6) Up stream water level EL(m)	Up Stream EL -12.33		
7) Down stream water level EL(m)	Down Stream EL -12.00		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Please write remarks, if any			
15. Picture	Up stream	Up stream	Down stream
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure For Weir




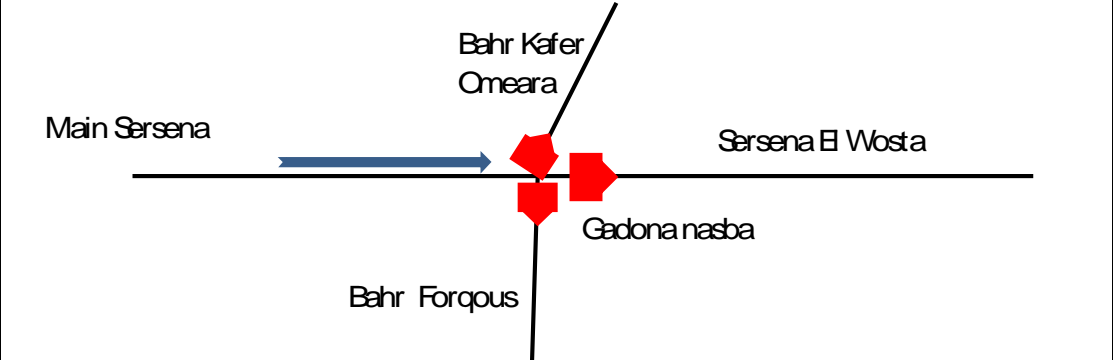
**F5**

1. Name	El shoremy nasba	2. Construction Year	1927-1930
3. Type	3 Weir as intake		
4. Canal's name	Sennors		
5. Command Area (feddan)	21,544	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	7.481 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)	30.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	<u>1,000,000 LE</u>		
11. Contents of the necessary works for improvement	Need the reconstruction of the structure widening the vent		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)	7.203, 5.18 ,0.87		
2) Height of the Weir from the canal bed (m)	1.03		
3) Crest level of the Weir EL (m)	EL11.29		
4) Width of up stream of the canal (m)	6.00		
5) Width of down stream of the canal (m)	---		
6) Up stream water level EL(m)	Up Stream EL 11.83		
7) Down stream water level EL(m)	Down Stream EL 10.80		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Please write remarks, if any			
15. Picture	Up stream 1	Up stream 2	Weir (one of three)
			
16. Location / Also show the Location other MAP			

Data Sheet of the Minor Structure




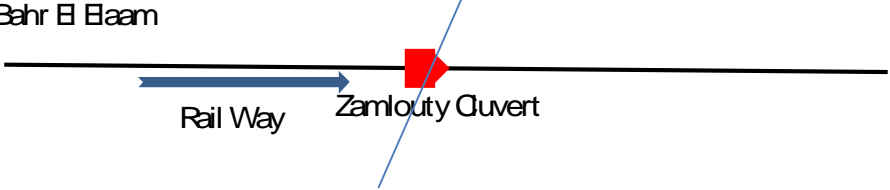
For Weir

F6

1. Name	Gadona	2. Construction Year	1927
3. Type			3 Weir
4. Canal's name	Sersena Elemomey		
5. Command Area (feddan)	4,216	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.464 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)	13.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	within 10 years		
10. Cost of the necessary works for improvement	<u>500,000 LE</u>		
11. Contents of the necessary works for improvement	Need the reconstruction of the structure widening the vent		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)	2.472, 1.315, 1.029		
2) Height of the Weir from the canal bed (m)	1.11		
3) Crest level of the Weir EL (m)	EL3.75		
4) Width of up stream of the canal (m)	2.50		
5) Width of down stream of the canal (m)	---		
6) Up stream water level EL(m)	Up Stream EL 4.11		
7) Down stream water level EL(m)	Down Stream EL 3.00		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Please write remarks, if any			
15. Picture	Up stream	Down stream	Weir (one of three)
			
16. Location / Also show the Location other MAP			



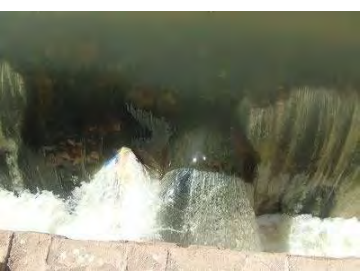
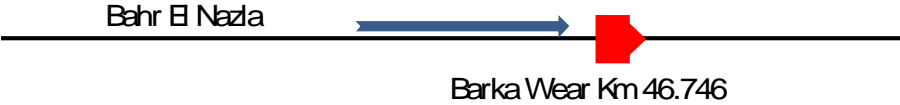
# Data Sheet of the Minor Structure For Culvert

# F7

1. Name	Zmloty Culvert	2. Construction Year	1927
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)	Culvert		
4. Canal's name	El Elaam		
5. Command Area (feddan)	3,763	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.30 m3/s
7. Length of Canal downstream the structure (km)	7.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement (At least after 5yr)	within 5 years		
10. Cost of the necessary works for improvement	<u>1,000,000 LE</u>		
11. Contents of the necessary works for improvement	<u>Need the reconstruction of the structure and the removal of the garbage.</u>		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution. The much garbage prevent the fair water.		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Material of the pipe / Wood, Brick, Stone, Steal, Other	Brick		
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)	1.80		
2) Vent width of the Culvert (m)	3.50		
3) Length of the Culvert, Siphon, Aqueduct (m)	7.50		
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)	1.00		
5) The difference of water head level of the siphon (m)	0.30		
6) Diameter of the pipe for Siphon or Aqueduct (mm)	1.00		
7) Up stream water level EL(m)	-----		
8) Down stream water level EL(m)	-----		
9) Length of pipe for Siphon or Aqueduct, if any (m)	7.50		
10) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
11) Pipe condition / Excellent, Good, Bad, Already Expire	Bad		
12) Please write remarks, if any			
15. Picture	Front	Surround the structure	Surround the structure
			
16. Location / Also show the Location other MAP	<p>Bahr El Elaam</p> 		




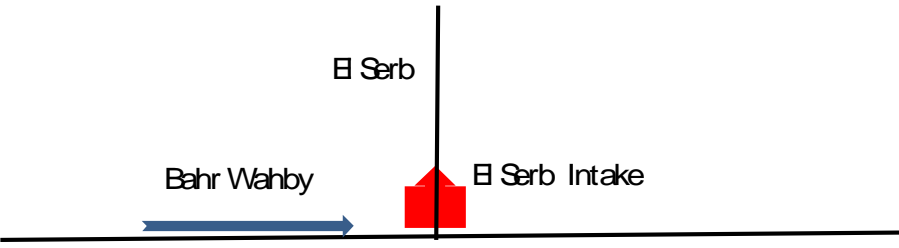
Data Sheet of the Minor Structure For Weir

**F8**

1. Name	Brka weir	2. Construction Year	1927
3. Type			Weir
4. Canal's name	El nazla		
5. Command Area (feddan)	16,740	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	5.813 m3/s
7. Length of Canal downstream the structure (km)			12.944
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 years
10. Cost of the necessary works for improvement			<u>500,000 LE</u>
11. Contents of the necessary works for improvement	Need the reconstruction and protection work at downstream of the structure.		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution. It is afraid of the scouring at downstream.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)			5.89
2) Height of the Weir from the canal bed (m)			3.25
3) Crest level of the Weir EL (m)			EL1.48
4) Width of up stream of the canal (m)			7.00
5) Width of down stream of the canal (m)			---
6) Up stream water level EL(m)			Up Stream EL 2.17
7) Down stream water level EL(m)			Down Stream EL -1.08
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Please write remarks, if any			
15. Picture	Up stream	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">  </p>		

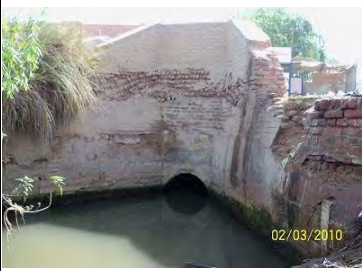


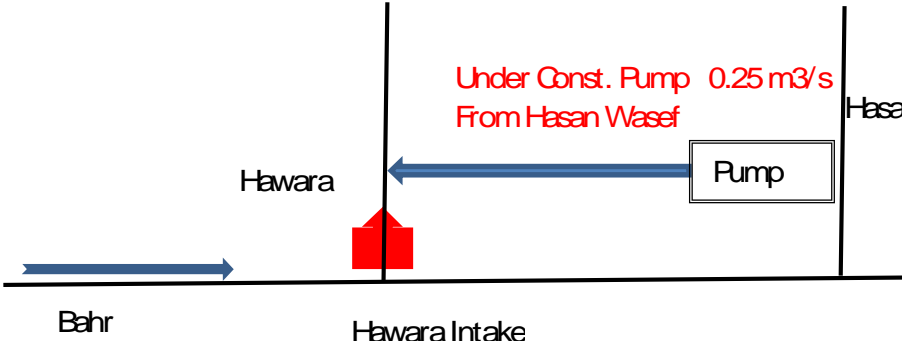
# Data Sheet of the Minor Structure For Intake

# F9

1. Name	El serb intake	2. Construction Year	1927 - 1930
3. Type	Intake		
4. Canal's name	Bahr Wahby		
5. Command Area (feddan)	6,811	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.36 m3/s
7. Length of Canal downstream the structure (km)	13.4		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	300,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction of the structure, replace the gate and protection work at downstream of the structure.		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution. It is afraid of the scouring at downstream.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	3.00		
2) Gate Width (m)	1.03		
3) Number of Vent	2		
4) Up stream water level EL(m)	Up Stream EL13.30		
5) Down stream water level EL(m)	Down Stream EL13.20		
6) Bed level EL(m)	EL11.54		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			

# Data Sheet of the Minor Structure For Intake




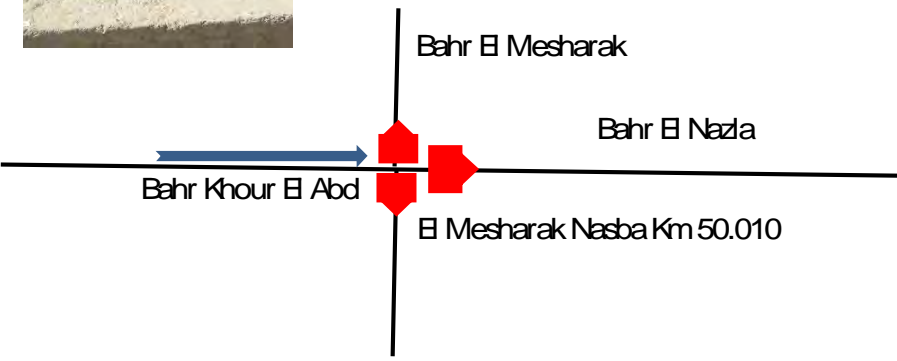
# F10

1. Name	Hawara Intake	2. Construction Year	1927 - 1930
3. Type	Intake		
4. Canal's name	Bahr Yousef		
5. Command Area (feddan)	1,448	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	7.646 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)	4.2		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Rehabilitation</u>		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	<u>200,000 LE</u>		
11. Contents of the necessary works for improvement	Need the rehabilitation of the structure. (The new pump station near site. This pump will be worked instead of this intake)		
12. Existing problems of the structure	The structure has been damaged on surface. Those damage will be dealt by rehabilitation.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.00		
2) Gate Width (m)	1.00		
3) Number of Vent	1		
4) Up stream water level EL(m)	Up Stream EL25.60		
5) Down stream water level EL(m)	Down Stream EL25.00		
6) Bed level EL(m)	EL25.00		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) Please write remarks, if any	The new pump station is under construction at down stream of this structure.		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			






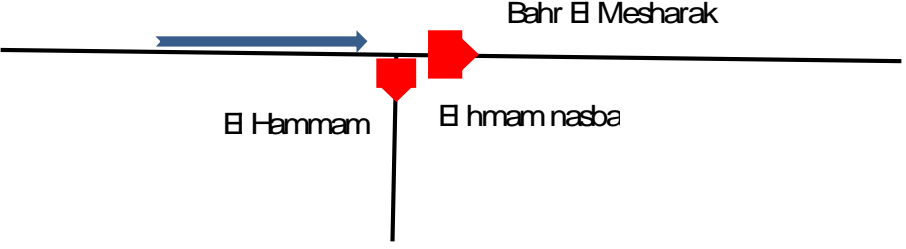
# Data Sheet of the Minor Structure For Weir

# F11

1. Name	El meshrak nasba	2. Construction Year	1927
3. Type	3 Weir as intake		
4. Canal's name	El nazla		
5. Command Area (feddan)	15,154	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	5.262 m3/s
7. Length of Canal downstream the structure (km)	22.000		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	500,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction and protection work at downstream of the structure.		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution. It is afraid of the scouring at downstream.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)	2.59, 2.42, 1.02		
2) Height of the Weir from the canal bed (m)	4.21		
3) Crest level of the Weir EL (m)	EL -1.20		
4) Width of up stream of the canal (m)	5.89		
5) Width of down stream of the canal (m)	---		
6) Up stream water level EL(m)	Up Stream EL -0.51		
7) Down stream water level EL(m)	Down Stream EL -4.72		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			


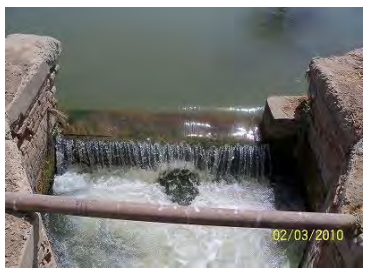

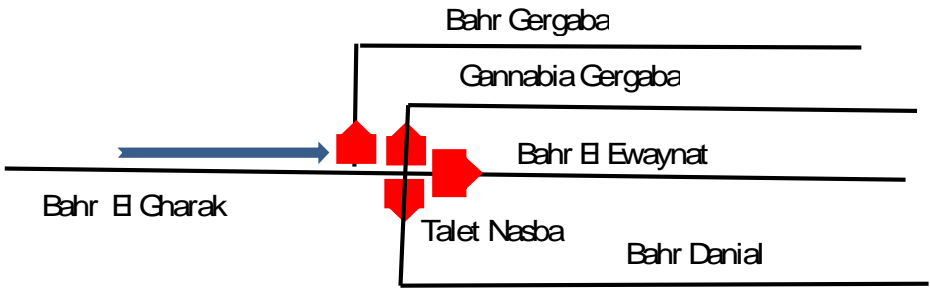
Data Sheet of the Minor Structure For Weir

F12

1. Name	El hmam nasba	2. Construction Year	1927
3. Type	3 Weir as intake		
4. Canal's name	El meshark		
5. Command Area (feddan)	6,225	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.161 m3/s
7. Length of Canal downstream the structure (km)	2.8		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	500,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction and protection work at downstream of the structure.		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution. It is afraid of the scouring at downstream.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)	0.90 , 2.80		
2) Height of the Weir from the canal bed (m)	4.16		
3) Crest level of the Weir EL (m)	EL -4.90		
4) Width of up stream of the canal (m)	4.00		
5) Width of down stream of the canal (m)	----		
6) Up stream water level EL(m)	Up Stream EL -4.34		
7) Down stream water level EL(m)	Down Stream EL -8.50		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">Bahr El Mesharak</p> <p style="text-align: center;">El Hammam      El hмам nasba</p>		

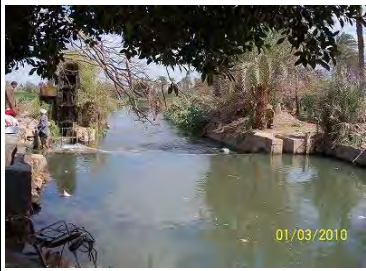


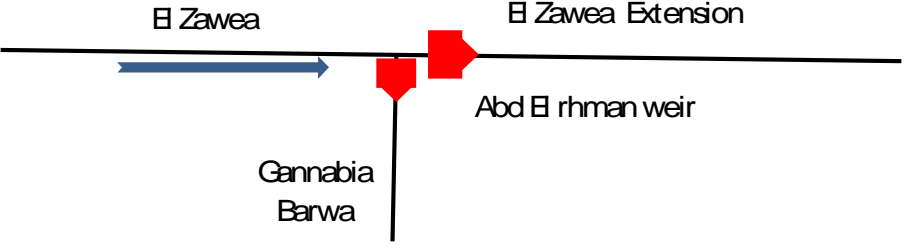
Data Sheet of the Minor Structure For Weir

F13

1. Name	TALET nasba	2. Construction Year	-----
3. Type			4 Weir as intake
4. Canal's name	El Ghark		
5. Command Area (feddan)	14,808	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	5.142 m3/s
7. Length of Canal downstream the structure (km)	-----		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	500,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction with changing of the width of the vent		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution, due to the narrow vents		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)	3.90, 2.54, 0.52, 0.31		
2) Height of the Weir from the canal bed (m)	-----		
3) Crest level of the Weir EL (m)	EL 16.36		
4) Width of up stream of the canal (m)	6.00		
5) Width of down stream of the canal (m)	----		
6) Up stream water level EL(m)	Up Stream EL 16.90		
7) Down stream water level EL(m)	-----		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			



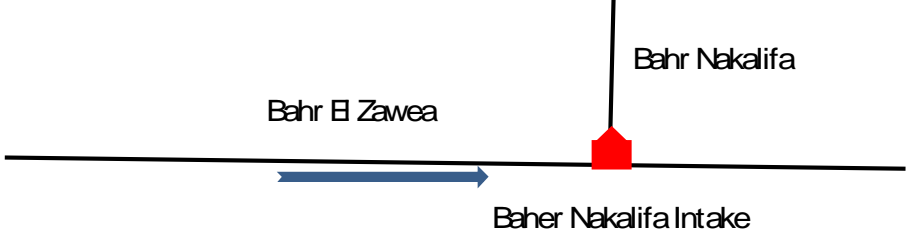
Data Sheet of the Minor Structure For Weir

F14

1. Name	Abd El rhman weir	2. Construction Year	1927
3. Type			Weir
4. Canal's name	ZAWEA		
5. Command Area (feddan)	14,393	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	4.998 m3/s
7. Length of Canal downstream the structure (km)	16.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	within 10 years		
10. Cost of the necessary works for improvement	500,000 LE		
11. Contents of the necessary works for improvement	Need the rehabilitation and protection work at downstream of the structure.		
12. Existing problems of the structure	Accordig to the hearing to the district engineer, it is afraid of the scouring at downstream.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)	8.078 , 8		
2) Height of the Weir from the canal bed (m)	2.43		
3) Crest level of the Weir EL (m)	EL 21.54		
4) Width of up stream of the canal (m)	5.00		
5) Width of down stream of the canal (m)	---		
6) Up stream water level EL(m)	Up Stream EL 22.08		
7) Down stream water level EL(m)	Down Stream EL 19.65		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			




Data Sheet of the Minor Structure For Weir

F15

1. Name	naklefa intake	2. Construction Year	1927
3. Type			Weir
4. Canal's name	ZAWEA		
5. Command Area (feddan)	10,844	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3.765 m3/s
7. Length of Canal downstream the structure (km)			9.0
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 years
10. Cost of the necessary works for improvement			500,000 LE
11. Contents of the necessary works for improvement	Need the reconstruction with changing to the suitable width of the vent		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution, due to the narrow vents		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)			6.67
2) Height of the Weir from the canal bed (m)			1.20
3) Crest level of the Weir EL (m)			EL 20.66
4) Width of up stream of the canal (m)			5.00
5) Width of down stream of the canal (m)			4.00
6) Up stream water level EL(m)			Up Stream EL 21.20
7) Down stream water level EL(m)			Down Stream EL 20.00
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Please write remarks, if any			
15. Picture	Front	Top	
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">Bahr El Zaweia      Bahr Nakalifa Bahr Nakalifa Intake</p>		




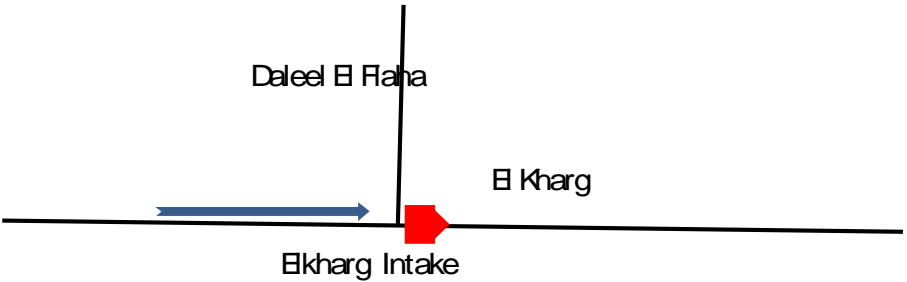
Data Sheet of the Minor Structure For Weir

F16

1. Name	Farsh weir	2. Construction Year	1927-1930
3. Type			Weir
4. Canal's name	ZAWEA		
5. Command Area (feddan)	1,924	6. Max discharge of canal (m <sup>3</sup> /day) or (m3/s)	0.668 m3/s
7. Length of Canal downstream the structure (km)			3.0
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			within 5 years
10. Cost of the necessary works for improvement			500,000 LE
11. Contents of the necessary works for improvement	Need the reconstruction with changing to the suitable width of the vent		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution, due to the narrow vents		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)			1.20
2) Height of the Weir from the canal bed (m)			0.69
3) Crest level of the Weir EL (m)			EL20.65
4) Width of up stream of the canal (m)			1.50
5) Width of down stream of the canal (m)			1.00
6) Up stream water level EL(m)			Up Stream EL 21.19
7) Down stream water level EL(m)			Down Stream EL 20.50
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">Daleel El Flaha</p> <p style="text-align: center;">↓</p> <p style="text-align: center;">Bahr El Nazla</p> <p style="text-align: center;">→</p> <p style="text-align: center;">El Farsh weir Km 50.010</p>		




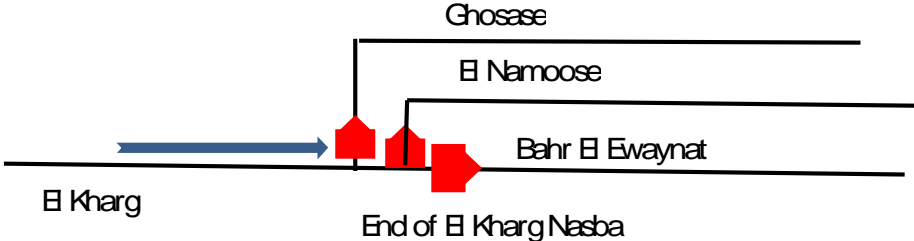
Data Sheet of the Minor Structure For Weir

F17

1. Name	elkharg intake	2. Construction Year	1927-1930
3. Type			Weir
4. Canal's name	El masra		
5. Command Area (feddan)	4,452	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.546 m3/s
7. Length of Canal downstream the structure (km)			11.5
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Rehabilitation</u>		
9. Commencement of the necessary works for improvement	Within 10 years		
10. Cost of the necessary works for improvement	<u>100,000 LE</u>		
11. Contents of the necessary works for improvement	<u>Need the rehabilitation of the structure</u>		
12. Existing problems of the structure	The structure has been damaged on surface. Those damage does not seem fatal damage.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)			2.95
2) Height of the Weir from the canal bed (m)			0.75
3) Crest level of the Weir EL (m)			EL -3.21
4) Width of up stream of the canal (m)			3.00
5) Width of down stream of the canal (m)			2.00
6) Up stream water level EL(m)			Up Stream EL -2.85
7) Down stream water level EL(m)			Down Stream EL -3.60
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Please write remarks, if any			
15. Picture	Up stream	Down stream	Side or Behind
			
16. Location / Also show the Location other MAP	 <p>Daleel El Faha</p> <p>El Kharg</p> <p>Elkharg Intake</p>		

# Data Sheet of the Minor Structure For Weir




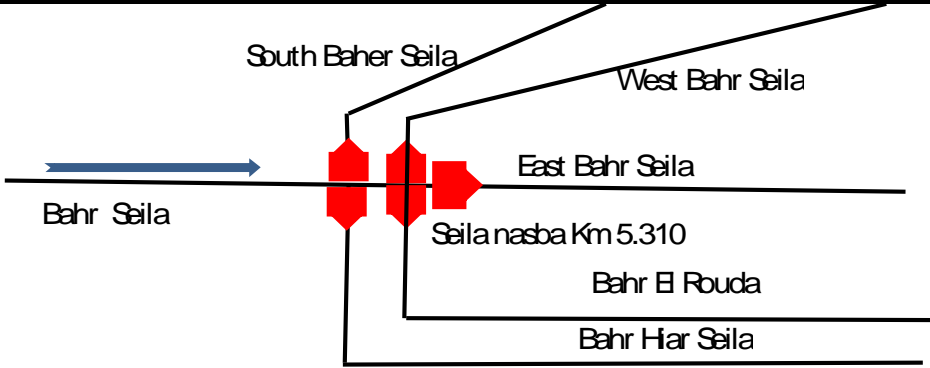
# F18

1. Name	End of elkharg nasba	2. Construction Year	1927-1930
3. Type			3 Weir as intake
4. Canal's name	Elkharg		
5. Command Area (feddan)	4,436	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.54 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)			5.0
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 years
10. Cost of the necessary works for improvement			<u>300,000 LE</u>
11. Contents of the necessary works for improvement	Need the reconstruction with changing to the suitable width of the vent		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution, due to the narrow vents		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)			1.79, 0.512, 0.512
2) Height of the Weir from the canal bed (m)			1.52
3) Crest level of the Weir EL (m)			EL -8.20
4) Width of up stream of the canal (m)			2.00
5) Width of down stream of the canal (m)			1.00
6) Up stream water level EL(m)			Up Stream EL -7.66
7) Down stream water level EL(m)			Down Stream EL -9.18
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p>The map shows a horizontal line representing a canal or road. From left to right, it is labeled 'El Kharg'. A blue arrow points to the right along this line. At the end of the line, there are three red arrows pointing to the right, representing the weir structure. Above the line, there are three horizontal lines representing other locations: 'Ghosase' (top), 'El Namoose' (middle), and 'Bahr El Ewaynat' (bottom). The weir structure is located between 'El Kharg' and 'Bahr El Ewaynat'.</p>		






Data Sheet of the Minor Structure For Weir

F19

1. Name	Seila nasba	2. Construction Year	1927-1930
3. Type	5 Weir as intake		
4. Canal's name	Seila elomomy		
5. Command Area (feddan)	8,659	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3.007 m3/s
7. Length of Canal downstream the structure (km)	18.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	750,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction with changing to the suitable width of the vent		
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)	2.793, 0.603, 0.352, 0.302, 0.276		
2) Height of the Weir from the canal bed (m)	----		
3) Crest level of the Weir EL (m)	EL 16.30		
4) Width of up stream of the canal (m)	6.50		
5) Width of down stream of the canal (m)	----		
6) Up stream water level EL(m)	Up Stream EL 16.84		
7) Down stream water level EL(m)	----		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP			




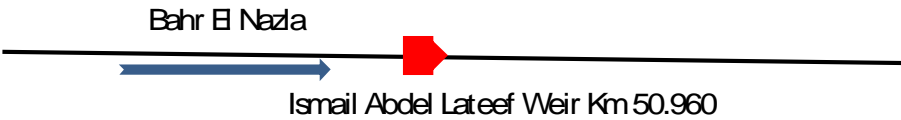
# Data Sheet of the Minor Structure For Intake

## F20

1. Name	Tanhala Intake	2. Construction Year	1927-1930
3. Type	Intake		
4. Canal's name / Main canal name	Bahr Yousef		
5. Command Area (feddan)	22,020	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	7.646 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)	32.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Rehabilitation</u>		
9. Commencement of the necessary works for improvement	within 20 years		
10. Cost of the necessary works for improvement	<u>200,000 LE</u>		
11. Contents of the necessary works for improvement	<u>Need to install the mechanical Trash rack or other way</u>		
12. Existing problems of the structure	It si difficult to do daily cleaning works		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick-Mason		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	3.00		
2) Gate Width (m)	1.00		
3) Number of Vent (How many ?)	4.00		
4) Up stream water level EL(m)	Up Stream EL23.40		
5) Down stream water level EL(m)	Down Stream EL39.80		
6) Bed level EL(m)	EL20.00		
7) Gate type / Wood, Steal, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	<u>not so bad</u>		
9) Gate condition / Excellent, Good, Bad, Already Expire	<u>not so bad</u>		
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">Bahr Yousef</p> <p style="text-align: center;">→</p> <p style="text-align: center;">↓</p> <p style="text-align: center;">Tanhala Intake</p> <p style="text-align: center;">Gannabia Barwa</p>		





# Data Sheet of the Minor Structure For Weir

## F21

1. Name	Esmail abd el lateef weir	2. Construction Year	1927-1930
3. Type			Weir
4. Canal's name	nazla		
5. Command Area (feddan)	5,947	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.065 m3/s
7. Length of Canal downstream the structure (km)			8.7
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	250,000 LE		
11. Contents of the necessary works for improvement	<u>Need the reconstruction with changing to the suitable width of the vent</u>		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution, due to the narrow vents		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick & concrete		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)		1.99	
2) Height of the Weir from the canal bed (m)		1.50	
3) Crest level of the Weir EL (m)		EL -4.40	
4) Width of up stream of the canal (m)		2.50	
5) Width of down stream of the canal (m)		2.00	
6) Up stream water level EL(m)		Up Stream EL -3.71	
7) Down stream water level EL(m)		Down Stream EL -4.50	
8) Structure condition / Excellent, Good, Bad, Already Expire		Bad	
9) Please write remarks, if any		This bridge has not been used.	
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">  </p>		





Data Sheet of the Minor Structure For Weir

F22

1. Name	Hassan afndy weir	2. Construction Year	1927-1930
3. Type			Weir
4. Canal's name	nazla		
5. Command Area (feddan)	5,344	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.856 m3/s
7. Length of Canal downstream the structure (km)			8.4
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	250,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction with changing to the suitable width of the vent		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution, due to the narrow vents		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)		1.78	
2) Height of the Weir from the canal bed (m)		2.50	
3) Crest level of the Weir EL (m)		EL -5.89	
4) Width of up stream of the canal (m)		2.50	
5) Width of down stream of the canal (m)		2.00	
6) Up stream water level EL(m)		Up Stream EL -5.20	
7) Down stream water level EL(m)		Down Stream EL -8.56	
8) Structure condition / Excellent, Good, Bad, Already Expire		Bad	
9) Please write remarks, if any		This bridge has not almost been used.	
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">  </p>		




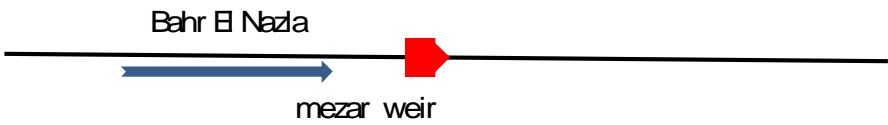
Data Sheet of the Minor Structure For Weir

F23

1. Name	rawashdia weir	2. Construction Year	1927-1930
3. Type			Weir
4. Canal's name	nazla		
5. Command Area (feddan)	3,300	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.146 m3/s
7. Length of Canal downstream the structure (km)			5.0
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Reconstruction</u>		
9. Commencement of the necessary works for improvement	within 5 years		
10. Cost of the necessary works for improvement	250,000 LE		
11. Contents of the necessary works for improvement	Need the reconstruction with changing to the suitable width of the vent		
12. Existing problems of the structure	The structure has been damaged by weathering and difficulty of the fair water distribution, due to the narrow vents		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)			2.00
2) Height of the Weir from the canal bed (m)			1.00
3) Crest level of the Weir EL (m)			EL -16.47
4) Width of up stream of the canal (m)			2.00
5) Width of down stream of the canal (m)			----
6) Up stream water level EL(m)			Up Stream EL -15.93
7) Down stream water level EL(m)			Down Stream EL -17.60
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">Behr El Nazla</p>  <p style="text-align: center;">rawashdia weir Km 54.060</p>		





Data Sheet of the Minor Structure For Weir

F24

1. Name	mezar	2. Construction Year	1927-1930
3. Type			Weir
4. Canal's name	nazla		
5. Command Area (feddan)	2,762	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.959 m3/s
7. Length of Canal downstream the structure (km)			4.5
8. Necessary works for improvement / Rehabilitation or Reconstruction			<u>No need</u>
9. Commencement of the necessary works for improvement			<u>No need</u>
10. Cost of the necessary works for improvement			---
11. Contents of the necessary works for improvement	<u>Nothing</u>		
12. Existing problems of the structure	<u>No problem. Because this structure had already reconstructed</u>		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)			1.38
2) Height of the Weir from the canal bed (m)			1.50
3) Crest level of the Weir EL (m)			EL -5.89
4) Width of up stream of the canal (m)			
5) Width of down stream of the canal (m)			---
6) Up stream water level EL(m)			Up Stream EL -5.20
7) Down stream water level EL(m)			Down Stream EL -19.62
8) Structure condition / Excellent, Good, Bad, Already Expire			good
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">  </p>		

Data Sheet of the Minor Structure For Weir

F25

1. Name	Soleman	2. Construction Year	1927-1930
3. Type			Weir
4. Canal's name	nazla		
5. Command Area (feddan)	20,637	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	7.166 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)			19.5
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Rehabilitation</u>		
9. Commencement of the necessary works for improvement	within 10 years		
10. Cost of the necessary works for improvement	<u>300,000 LE</u>		
11. Contents of the necessary works for improvement	<u>Need the rehabilitation and protection work at downstream of the structure.</u>		
12. Existing problems of the structure	Accordig to the hearing to the district engineer, it is afraid of the scouring at downstream.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Weir (m)			6.854
2) Height of the Weir from the canal bed (m)			1.840
3) Crest level of the Weir EL (m)			EL 3.00
4) Width of up stream of the canal (m)			9.00
5) Width of down stream of the canal (m)			8.00
6) Up stream water level EL(m)			Up Stream EL 3.69
7) Down stream water level EL(m)			Down Stream EL 2.50
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">Behr El Nazla</p>  <p style="text-align: center;">Seem weir</p>		





# Data Sheet by Consultant in Giza

Item	Number of Structure	Remarks
Intake	2	
Regulator	4	
Tail escape	0	
Culvert	0	
Siphon	0	
Aqueduct	0	
Bridge	0	
Weir	0	
Pipe line	0	
Pump station	0	
<b>Total Structure</b>	<b>6</b>	







# Data Sheet for the Minor Structure For Regulator

# G1

1. Name	El ayat	2. Construction Year	1935
3. Type			Regulator
4. Canal's name	Giza canal		
5. Command Area (feddan)	1,200,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.2 m <sup>3</sup> /s
7. Length of Canal downstream the structure (km)			40.8
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5yrs
10. Cost of the necessary works for improvement			<u>10,000,000 LE</u>
11. Contents of the necessary works for improvement	Need the reconstruction of the structure and replace the gate		
12. Existing problems of the structure	The structure has been damaged by weathering and the roughly rehabilitation in the past .		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			5.00
2) Gate Width (m)			3.00
3) Number of Vent			5
4) Up stream water level EL(m)			Up Stream EL23.00
5) Down stream water level EL(m)			----
6) Bed level EL(m)			EL19.75
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) Please write remarks, if any	Bridge width 5m, length 21.5m		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">El Aiyat Regulator Km 63.200</p>  <p style="text-align: center;">El Giza Canal</p>		





# Data Sheet of the Minor Structure For Regulator

# G2

1. Name	Abu Rag wan	2. Construction Year	1935
3. Type			Regulator
4. Canal's name	Giza canal		
5. Command Area (feddan)	100,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2.00 m3/s
7. Length of Canal downstream the structure (km)			23.6
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Rehabilitation</u>		
9. Commencement of the necessary works for improvement	<u>Within 10 years</u>		
10. Cost of the necessary works for improvement	<u>100,000 LE</u>		
11. Contents of the necessary works for improvement	<u>Need the removal of the garbage and rehabilitation of the sturcture on surface.</u>		
12. Existing problems of the structure	<u>The structure and gate are not so bad. However, much garbage prevent fair distribution.</u>		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			4.00
2) Gate Width (m)			3.00
3) Number of Vent			4
4) Up stream water level EL(m)			Up Stream EL21.90
5) Down stream water level EL(m)			----
6) Bed level EL(m)			EL18.83
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			not so bad
9) Gate condition / Excellent, Good, Bad, Already Expire			not so bad
10) Please write remarks, if any	Bridge width 5m, length 17.5m		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">Abou Ragwan Reg. Km 80.200</p>  <p style="text-align: center;">El Gza Canal</p>		




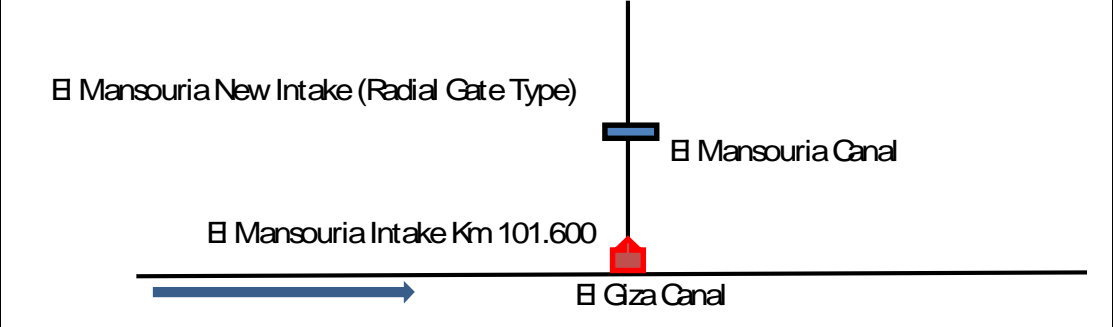
# Data Sheet of the Minor Structure For Regulator

## G3

1. Name	El Hawamdia	2. Construction Year	1935
3. Type			Regulator
4. Canal's name	Giza canal		
5. Command Area (feddan)	9,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1.70 m3/s
7. Length of Canal downstream the structure (km)			103.8
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Rehabilitation</u>		
9. Commencement of the necessary works for improvement	<u>within 10 years</u>		
10. Cost of the necessary works for improvement	<u>1,000,000 LE</u>		
11. Contents of the necessary works for improvement	<u>Need the replace all the gates and rehabilitation. Need the removal of the garbage.</u>		
12. Existing problems of the structure	<u>The structure is not so bad. However gates can not work almost. Only one gate at right side is working now</u>		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			4.00
2) Gate Width (m)			2.60
3) Number of Vent			4
4) Up stream water level EL(m)			Up Stream EL21.00
5) Down stream water level EL(m)			----
6) Bed level EL(m)			EL18.00
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			good
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) Please write remarks, if any	Bridge width 4m, length 15m		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p style="text-align: center;">El Hawamdeia Reg. Km 94.800</p>  <p style="text-align: center;">El Giza Canal</p>		




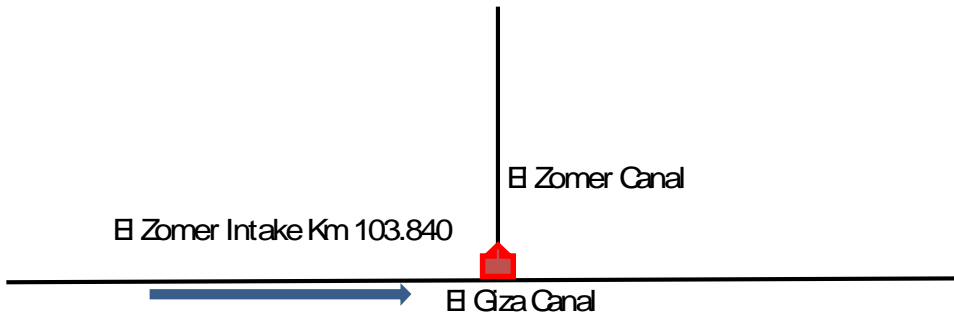
# Data Sheet of the Minor Structure For Intake

# G4

1. Name	El Mansoria intake	2. Construction Year	1935
3. Type			Intake
4. Canal's name	El Mansoria canal		
5. Command Area (feddan)	24,745	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.6 m3/s
7. Length of Canal downstream the structure (km)			26.0
8. Necessary works for improvement / Rehabilitation or Reconstruction	<u>Rehabilitation</u>		
9. Commencement of the necessary works for improvement	<u>within 20 years</u>		
10. Cost of the necessary works for improvement	<u>50,000 LE</u>		
11. Contents of the necessary works for improvement	<u>Need the removal of the garbage and rehabilitation of the structure on surface.</u>		
12. Existing problems of the structure	<u>The much garbage prevent the suitable distribution</u>		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.00
2) Gate Width (m)			3.00
3) Number of Vent			2
4) Up stream water level EL(m)			Up Stream EL20.00
5) Down stream water level EL(m)			----
6) Bed level EL(m)			EL17.00
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Good
9) Gate condition / Excellent, Good, Bad, Already Expire			Good
10) Please write remarks, if any	<u>The new regulator already had been construction at downstream. But it does not work the gate. Consultant recommend the rehabilitation of the that structure.</u>		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	<p>El Mansouria New Intake (Radial Gate Type)</p>  <p>El Mansouria Canal</p> <p>El Mansouria Intake Km 101.600</p> <p>El Gza Canal</p>		

# Data Sheet of the Minor Structure For Intake




# G5

1. Name	EL zomor Intake	2. Construction Year	1935
3. Type			Intake
4. Canal's name	El zomor canal		
5. Command Area (feddan)	9,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.50 m3/s
7. Length of Canal downstream the structure (km)			26.0
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			Within 5 years
10. Cost of the necessary works for improvement			2,000,000 LE
11. Contents of the necessary works for improvement	Need the reconstruction and replace the gates.		
12. Existing problems of the structure	The much garbage prevent the suitable distribution. The structure body has damage by the weathering.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			4.00
2) Gate Width (m)			2.60
3) Number of Vent			2
4) Up stream water level EL(m)			Up Stream EL19.50
5) Down stream water level EL(m)			----
6) Bed level EL(m)			EL17.00
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) Please write remarks, if any	Bridge width 8m, length 9.5m		
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	 <p style="text-align: center;">El Zomer Intake Km 103.840</p> <p style="text-align: center;">El Zomer Canal</p> <p style="text-align: center;">El Gza Canal</p>		

Data Sheet of the Minor Structure

For Regulator

AG1

1. Name	El Mansoria regulator	2. Construction Year	after 1999
3. Type			Regulator
4. Canal's name	El Mansoria canal		
5. Command Area (feddan)	9,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.6 m3/s
7. Length of Canal downstream the structure (km)			26.0
8. Necessary works for improvement / Rehabilitation or Reconstruction			Rehabilitation
9. Commencement of the necessary works for improvement			Within 5 years
10. Cost of the necessary works for improvement			200,000 LE
11. Contents of the necessary works for improvement	Need the rehabilitation of the structure and replace the gates		
12. Existing problems of the structure	The gates can not work and can not regulate the water.		
13. Material of the structure / Wood, Brick, Stone, Steal, Concert			Concrete
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.00
2) Gate Width (m)			4.9, 2.9
3) Number of Vent			2
4) Up stream water level EL(m)			----
5) Down stream water level EL(m)			----
6) Bed level EL(m)			----
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
			
16. Location / Also show the Location other MAP	El Mansouria New Intake (Radial Gate Type)		El Mansouria Canal
	El Mansouria Intake Km 101.600		El Gza Canal

Original Data Sheet by  
RGSB  
in Minya

## محافظة المنيا

القيـد: { }

التاريخ: ٩ / ٩ / ٢٠١٠ م.

رقم الملف: / /

عدد المرفقات: { لا غير.

### ب: بيانات المنشآت الصغيرة

## السيدة المهندسة / رئيس الإدارة المركزية للدراسات و المواصفات و التصميمات بقطاع الخزانات - رئيس اللجنة الفنية

تحية طيبة ... و بعد

نتشرف بأن نرفق طيه إستثمارات البيانات الخاصة بمقترحات المنشآت المائية الصغيرة اللازم إنشاؤها أو تدعيمها أو إحلالها و تجديدها بدائرة الإدارتين العامتين لري شرق و غرب المنيا ؛ و كذا سينوبتك لكل إدارة موقع عليه مواقع تلك المقترحات.

برجاء التفضل بالإحاطة و التبيه باللازم.

و تفضلوا سيادتكم بقبول وافر الإحترام.

تحريراً في: ٩ / ٩ / ٢٠١٠ م.

مدير المكتب الفني للإدارة المركزية  
للموارد المائية و الري محافظة المنيا



٩١٠٤١٩

مهندس /

"أحمد صالح محمد عبد الله"

١٢٠  
٩١٠  
٩١٠

السيد المهندس / مدير المكتب الفني  
لقطاع الري و الري و الري

المكتب الفني لقطاع الري و الري

رغم مراعاة البيانات و الصور و توضيح

البيانات و توضيح البيانات و توضيح

و ذلك عن طريق البيانات الواردة من

٩١٠ / ٩١٠

القطاع الزراعي



Minya .

**Data Sheet for the Minor Struc Form 1 / For Intake, Regulator, Tail escape**

1. Name	Al Ashmonin canal	2- Construction Year	1920
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Intake		
4. Canal's name / Main canal name	Al Dairotiya canal		
5. Command Area (feddan)	9,225	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	645,750
7. Length of Canal downstream the structure (km)	19,500.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	5 year		
10. Cost of the necessary works for improvement	350,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction		
12. Existing problems of the structure	failer in some parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick & concret		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.10		
2) Gate Width (m)	2.90		
3) Number of Vent (How many ?)	2.00		
4) Up stream water level EL(m)	Up Stream EL43.90		
5) Down stream water level EL(m)	Down Stream EL43.55		
6) Bed level EL(m)	EL42.75		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

### Data Sheet for the Minor Struc Form 1 / For Intake, Regulator, Tail escape

1. Name	Al Desha canal	2- Construction Year	1918
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Intake		
4. Canal's name / Main canal name	Al Sahliya canal		
5. Command Area (feddan)	2,575	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	180,250
7. Length of Canal downstream the structure (km)	5,680.0		
8. Necessary works for improvement / Rehabilittation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	5 year		
10. Cost of the necessary works for improvement	200,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction		
12. Existing problems of the structure	Failer in som parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	4.40		
2) Gate Width (m)	2.55		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL44.30		
5) Down stream water level EL(m)	#####		
6) Bed level EL(m)	EL42.20		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

Down stream  
EL43.10

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name		1 Serry Branch	2. Construction Year		1970
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)					Intake
4. Canal's name / Main canal name			Ibrahimiya (Ebraheemeyya Canal) Serry Canal		
5. Command Area (feddan)		300	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)		22,500
7. Length of Canal downstream the structure (km)					1.3
8. Necessary works for improvement / Rehabilitation or Reconstruction					Rehabilitation
9. Commencement of the necessary works for improvement					Within 5 Years
10. Cost of the necessary works for improvement					150 000 L.E.
11. Contents of the necessary works for improvement			Gate Replacement		
12. Existing problems of the structure			The difficulty of operating the existing gate.		
13. Material of the structure / Wood, Brick, Stone, Steal, Other					Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )					
1) Gate Height (m)					3.40
2) Gate Width (m)					1.00
3) Number of Vent (How many ?)					1.00
4) Up stream water level EL(m)					Up Stream EL39.60
5) Down stream water level EL(m)					Down Stream EL39.50
6) Bed level EL(m)					EL38.30
7) Gate type / Wood, Steal, Others, Nothing					Steel
8) Structure condition / Excellent, Good, Bad, Already Expire					Bad
9) Gate condition / Excellent, Good, Bad, Already Expire					Bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.					
11) Please write remarks, if any					
15. Picture	Front		Top		Side or Behind
16. Location / Also show the Location other MAP					

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	2 Seery Branch	2. Construction Year	1970
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Ebraheemeyya Canal/Serry Canal	
5. Command Area (feddan)	500	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	37,500
7. Length of Canal downstream the structure (km)			2.5
8. Necessary works for improvement / Rehabilitation or Reconstruction			Rehabilitation
9. Commencement of the necessary works for improvement			Within 3 YeARS
10. Cost of the necessary works for improvement			150 000 L.E.
11. Contents of the necessary works for improvement		Gate Replacement	
12. Existing problems of the structure		Difficulty of operating the gate.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.40
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL39.50
5) Down stream water level EL(m)			Down Stream EL39.40
6) Bed level EL(m)			EL37.80
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure**

Form 1 / For Intake, Regulator, Tail escape

1. Name		5th Gannabeyah Branch	2. Construction Year		1920
					Intake
4. Canal's name / Main canal name			Bahar - Yusef Canal		Menshat Al-Dahab
5. Command Area (feddan)		1,850	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)		222,000
7. Length of Canal downstream the structure (km)					4,300.0
8. Necessary works for improvement / Rehabilitation or Reconstruction					Reconstruction
9. Commencement of the necessary works for improvement					Within 5 Years
10. Cost of the necessary works for improvement					300 000 L.E.
11. Contents of the necessary works for improvement			Complete Reconstruction		
12. Existing problems of the structure			Don't work properly.		
13. Material of the structure / Wood, Brick, Stone, Steal, Other					Concrete
14. Question and Dimension of the structure ( If nothing of information, please write "N" )					
1) Gate Height (m)					3.00
2) Gate Width (m)					2.00
3) Number of Vent (How many ?)					1.00
4) Up stream water level EL(m)					Up Stream EL37.00
5) Down stream water level EL(m)					Down Stream EL36.37
6) Bed level EL(m)					EL35.82
7) Gate type / Wood, Steal, Others, Nothing					Steel
8) Structure condition / Excellent, Good, Bad, Already Expire					Already Expired
9) Gate condition / Excellent, Good, Bad, Already Expire					Bad
10) How often the maintenance / every half year or 1 year ... nothing... etc.					Anually
11) Please write remarks, if any					
15. Picture	Front		Top		Side or Behind
16. Location / Also show the Location other MAP					

Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	Al sharka canal	2- Construction Year	1920
3. Type --Select from as follow item-- (Intake, Regulator, Tail)			Intak
4. Canal's name / Main canal name	Al sahiya canal		
5. Command Area (feddan)	1,020	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	71,400
7. Length of Canal downstream the structure (km)	1,758.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	5 YEAR		
10. Cost of the necessary works for improvement	170,000 LE		
11. Contents of the necessary works for improvement	Replace the gate		
12. Existing problems of the structure	Can not operate the gate for the deterioration		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	4.00		
2) Gate Width (m)	2.00		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL45.35		
5) Down stream water level EL(m)	##### ← Down Stream EL 44.90m		
6) Bed level EL(m)	EL43.00		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Asmant Intake	2. Construction Year	1901
			Intake
4. Canal's name / Main canal name	Bahr yosef canal km (63.450)		
5. Command Area (feddan)	450	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	5,340
7. Length of Canal downstream the structure (km)			2,450.0
8. Necessary works for improvement / Rehabilitation or Reconstruction			Rehabilitation
9. Commencement of the necessary works for improvement			Within 5 Years
10. Cost of the necessary works for improvemen			300 000 L.E.
11. Contents of the necessary works for improvement	change gates		
12. Existing problems of the structure	structure not work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick-Mason
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.70
2) Gate Width (m)			3.00
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL39.90
5) Down stream water level EL(m)			N
6) Bed level EL(m)			EL39.10
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			B ad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Balansora Intake	2. Construction Year	1910
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Intake		
4. Canal's name / Main canal name	Bahr yosef km(67.370)		
5. Command Area (feddan)	250	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3,000
7. Length of Canal downstream the structure (km)	2.8		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	Within 4 Years		
10. Cost of the necessary works for improvement	300 000 L.E.		
11. Contents of the necessary works for improvement	Change gates		
12. Existing problems of the structure	structure not work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Mason "Brick"		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.70		
2) Gate Width (m)	3.00		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL39.60		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	EL39.10		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			



Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	Deroua canal	2- Construction Year	1919
3. Type --Select from as follow item-- (Intake, Regulator, Tail)	Intake		
4. Canal's name / Main canal name	Al Badraman canal		
5. Command Area (feddan)	820	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	57,400
7. Length of Canal downstream the structure (km)	2,850.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	5 YEAR		
10. Cost of the necessary works for improvement	200,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction		
12. Existing problems of the structure	Failer in som parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	1.10		
2) Gate Width (m)			
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL44.10		
5) Down stream water level EL(m)	Down Stream EL43.75		
6) Bed level EL(m)	EL42.64		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	AL-Hagat Intake	2. Construction Year	1970
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name	(Ibrahimia) Serry Canal		
5. Command Area (feddan)	430	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	32,250
7. Length of Canal downstream the structure (km)	3.2		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	Within 3 Years		
10. Cost of the necessary works for improvement	100 000 L.E.		
11. Contents of the necessary works for improvement	Replace the gate		
12. Existing problems of the structure	can not operate the gate for the deterioration		
13. Material of the structure / Wood, Brick, Stone, Steal, Other			
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.50		
2) Gate Width (m)	1.00		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL33.50		
5) Down stream water level EL(m)	Down Stream EL33.45		
6) Bed level EL(m)	EL32.20		
7) Gate type / Wood, Steal, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

# Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	Al-Sheikh Telada	2. Construction Year	1970
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Intake		
4. Canal's name / Main canal name	Serry Canal		
5. Command Area (feddan)	350	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	26,250
7. Length of Canal downstream the structure (km)	0.7		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	Within 3 Years		
10. Cost of the necessary works for improvement	100 000 L.E.		
11. Contents of the necessary works for improvement	no gate in the intake		
12. Existing problems of the structure	can not control in water		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	N		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.50		
2) Gate Width (m)	1.00		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL36.10		
5) Down stream water level EL(m)	Down Stream EL36.00		
6) Bed level EL(m)	EL35.00		
7) Gate type / Wood, Steal, Others, Nothing	No		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	N		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Al_Sheikh Yousef	2. Construction Year	1980
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Intake		
4. Canal's name / Main canal name	Serry Canal		
5. Command Area (feddan)	540	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	13,500
7. Length of Canal downstream the structure (km)	3,20		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	Within 3 Years		
10. Cost of the necessary works for improvement	100 000 L.E.		
11. Contents of the necessary works for improvement	Replace the gate		
12. Existing problems of the structure	can not operate the gate for the deterioration		
13. Material of the structure / Wood, Brick, Stone, Steal, Other			
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.50		
2) Gate Width (m)	1.00		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL35.90		
5) Down stream water level EL(m)	Down Stream EL35.80		
6) Bed level EL(m)	EL34.80		
7) Gate type / Wood, Steal, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

## Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	Al-Sultan Hassan	2. Construction Year	1910
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name	Bahr yosef km (69.240)		
5. Command Area (feddan)	300	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3,600
7. Length of Canal downstream the structure (km)	2.4		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabitation		
9. Commencement of the necessary works for improvement	5-years		
10. Cost of the necessary works for improvement	300,000 LE		
11. Contents of the necessary works for improvement	Change gates		
12. Existing problems of the structure	structure not work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other			
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.70
2) Gate Width (m)			3.00
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL39.80
5) Down stream water level EL(m)			N
6) Bed level EL(m)			EL39.00
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

Ganabyia Al Ashmonin Canal

Data Sheet for the Minor Struc Form 1 / For Intake, Regulator, Tail escape

1. Name	Ganabyia Al Ashmonin ca	2- Construction Year	1920
3. Type --Select from as follow item--	(Intake, Regulator, Tail		Intake
4. Canal's name / Main canal name	Al Dairotiya canal		
5. Command Area	1,300	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	91,000
7. Length of Canal downstream the structure (km)	4,560.0		
8. Necessary works for improvement / Rehabilitation or Reconstructio	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	5 year		
10. Cost of the necessary works for improvement	200,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction		
12. Existing problems of the structure	failer in some parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	3.00		
2) Gate Width (m)	3.00		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL43.90		
5) Down stream water level EL(m)	#####		
6) Bed level EL(m)	EL43.15		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

Down stream EL43.60

Ganabiya Al Maniekly canal

Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	Ganabiya Al Maniekly can	2- Construction Year	
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al Badraman canal	
5. Command Area (feddan)	1,020	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	71,400
7. Length of Canal downstream the structure (km)			6,245.0
8. Necessary works for improvement / Rehabilitation or Reconstruction			RECONSTRUCTION
9. Commencement of the necessary works for improvement			5 YEAR
10. Cost of the necessary works for improvement			200,000 LE
11. Contents of the necessary works for improvement		Replace parts of construction	
12. Existing problems of the structure		Failer in som parts of construction	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.15
2) Gate Width (m)			1.00
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL44.10
5) Down stream water level EL(m)			Down Stream EL43.50
6) Bed level EL(m)			EL42.45
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			bad
9) Gate condition / Excellent, Good, Bad, Already Expire			bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any		No	
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

Ganabyia Al Sahliya Canal

Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	anabyia Al Sahliya can	2- Construction Year	1920
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name	Al Sahliya canal		
5. Command Area (feddan)	444	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	31,080
7. Length of Canal downstream the structure (km)	3,670.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	5 year		
10. Cost of the necessary works for improvement	200,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction		
12. Existing problems of the structure	Failer in som parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.50		
2) Gate Width (m)	1.00		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL44.30		
5) Down stream water level EL(m)	Down Stream EL43.55		
6) Bed level EL(m)	EL42.00		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		



**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Mabrouk Intake	2. Construction Year	1902
			Intake
4. Canal's name / Main canal name	Bahr yosef canal km (75.380)		
5. Command Area (feddan)	350	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	4,200
7. Length of Canal downstream the structure (km)			3.4
8. Necessary works for improvement / Rehabilitation or Reconstruction			Rahabilitation
9. Commencement of the necessary works for improvement			Within 5 Years
10. Cost of the necessary works for improvemen			300 000 L.E.
11. Contents of the necessary works for improvement	change gates		
12. Existing problems of the structure	structure not work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.70
2) Gate Width (m)			3.00
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL39.75
5) Down stream water level EL(m)			N
6) Bed level EL(m)			EL38.40
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			B ad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			Anually
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

### Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	Mahmoud canal	2- Construction Year	1917
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Intake		
4. Canal's name / Main canal name	Al Badraman canal		
5. Command Area (feddan)	880	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	61,600
7. Length of Canal downstream the structure (km)	7,303.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	3 year		
10. Cost of the necessary works for improvement	200,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction		
12. Existing problems of the structure	Failer in som parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	1.60		
2) Gate Width (m)	1.10		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL44.50		
5) Down stream water level EL(m)	Down Stream EL44.35		
6) Bed level EL(m)	EL42.60		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	already expire		
9) Gate condition / Excellent, Good, Bad, Already Expire	bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Moussa	2. Construction Year	1901
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Bahr yosef	
5. Command Area (feddan)	450	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	5,400
7. Length of Canal downstream the structure (km)			2.5
8. Necessary works for improvement / Rehabilitation or Reconstruction			Rehabilitation
9. Commencement of the necessary works for improvement			Within 5 Years
10. Cost of the necessary works for improvement			300 000 L.E.
11. Contents of the necessary works for improvement		Change intake	
12. Existing problems of the structure		completely reconstruction	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.00
2) Gate Width (m)			2.00
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL39.70
5) Down stream water level EL(m)			Down Stream EL29.80
6) Bed level EL(m)			EL39.10
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			Anually
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Nasser Feeder	2. Construction Year	1936
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name	Dahab canal		
5. Command Area (feddan)	250	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3,000
7. Length of Canal downstream the structure (km)	1.7		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	Within 5 Years		
10. Cost of the necessary works for improvemen	250 000 L.E.		
11. Contents of the necessary works for improvement	Complete Reconstruction		
12. Existing problems of the structure	Do not work properly.		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Concrete		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.50		
2) Gate Width (m)	1.20		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL31.90		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	EL30.40		
7) Gate type / Wood, Steal, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Already Expired		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	North Bahnasa canal	2. Construction Year	1908
			Intake
4. Canal's name / Main canal name	Bahr yosef - sabaa canal		
5. Command Area (feddan)	2,100	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	25,200
7. Length of Canal downstream the structure (km)			4.8
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			5-years
10. Cost of the necessary works for improvemen			450 000 L.E.
11. Contents of the necessary works for improvement		change gates and mechanical system	
12. Existing problems of the structure		structure not work properly	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			concrete
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.00
2) Gate Width (m)			1.60
3) Number of Vent (How many ?)			2.00
4) Up stream water level EL(m)			Up Stream EL32.40
5) Down stream water level EL(m)			Down Stream EL31.60
6) Bed level EL(m)			EL31.20
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Already Expire
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

### Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	Om El Kousour canal	2- Construction Year	1919
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Al Badraman canal	
5. Command Area (feddan)	1,395	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	97,650
7. Length of Canal downstream the structure (km)			5,560.0
8. Necessary works for improvement / Rehabilitation or Reconstruction			RECONSTRUCTION
9. Commencement of the necessary works for improvement			5 YEAR
10. Cost of the necessary works for improvement			200,000 LE
11. Contents of the necessary works for improvement		Replace parts of construction	
12. Existing problems of the structure		Failer in som parts of construction	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.60
2) Gate Width (m)			1.20
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL44.10
5) Down stream water level EL(m)			Down Stream EL43.60
6) Bed level EL(m)			EL42.45
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			bad
9) Gate condition / Excellent, Good, Bad, Already Expire			bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any		No	
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Raheil intake	2. Construction Year	1902
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name	Dahab canal km (0.4)		
5. Command Area (feddan)	1,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	12,000
7. Length of Canal downstream the structure (km)			2.5
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	5-years		
10. Cost of the necessary works for improvement	300,000 LE		
11. Contents of the necessary works for improvement	Change gates		
12. Existing problems of the structure	gates not work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Mason Bricks		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.70
2) Gate Width (m)			3.00
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL39.00
5) Down stream water level EL(m)			Down Stream EL38.00
6) Bed level EL(m)			EL37.00
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Sakiet Dakouf	2. Construction Year	1910
			Intake
4. Canal's name / Main canal name	Dahab canal km (49.74)		
5. Command Area (feddan)	350	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	4,200
7. Length of Canal downstream the structure (km)			3.8
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			5-years
10. Cost of the necessary works for improvemen			190 000 L.E.
11. Contents of the necessary works for improvement		change gates	
12. Existing problems of the structure		structure not work properly	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			concrete
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.70
2) Gate Width (m)			1.60
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL35.20
5) Down stream water level EL(m)			Down Stream EL34.10
6) Bed level EL(m)			EL34.55
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			B ad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			



**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	taheir intake	2. Construction Year	1908
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Intake		
4. Canal's name / Main canal name	Bahab canal -Dawood main canal		
5. Command Area (feddan)	200	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2,420
7. Length of Canal downstream the structure (km)	0.9		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Recontruction		
9. Commencement of the necessary works for improvement	5-years		
10. Cost of the necessary works for improvement	300,000 LE		
11. Contents of the necessary works for improvement	Change gates		
12. Existing problems of the structure	gates not work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Bricks		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.40		
2) Gate Width (m)	1.00		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL37.20		
5) Down stream water level EL(m)	36.80		
6) Bed level EL(m)	EL36.30		
7) Gate type / Wood, Steal, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Tambo intake	2. Construction Year	1970
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			intake
4. Canal's name / Main canal name	Ebrahemia canale / serry canal		
5. Command Area (feddan)	400	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	30,000
7. Length of Canal downstream the structure (km)	2.4		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	after 3 year (2013)		
10. Cost of the necessary works for improvement	100000LE		
11. Contents of the necessary works for improvement	Replace the gate		
12. Existing problems of the structure	can not operate the gate for the deterioration		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.50		
2) Gate Width (m)	1.00		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL33.30		
5) Down stream water level EL(m)	Down Stream EL33.25		
6) Bed level EL(m)	EL32.20		
7) Gate type / Wood, Steal, Others, Nothing	steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	selection Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	selection Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

The left Dairotyia Canal

## Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	The Left Dairotyia canal	2- Construction Year	1922
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Intake		
4. Canal's name / Main canal name	The west hafeze canal		
5. Command Area (feddan)	2,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	140,000
7. Length of Canal downstream the structure (km)	6,100.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	3 year		
10. Cost of the necessary works for improvement	250,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction and gates		
12. Existing problems of the structure	Can not operate the gate for the deterioration and failer in some parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steel, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.70		
2) Gate Width (m)	2.00		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL41.10		
5) Down stream water level EL(m)	Down Stream EL40.90		
6) Bed level EL(m)	EL39.30		
7) Gate type / Wood, Steel, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Already expire		
9) Gate condition / Excellent, Good, Bad, Already Expire	Already expire		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

## The Right Dairotyia Canal

## Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	The Right Dairotyia canal	2- Construction Year	
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name	The west hafeze canal		
5. Command Area (feddan)	750	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	52,500
7. Length of Canal downstream the structure (km)			4,480.0
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	3 year		
10. Cost of the necessary works for improvement	250,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction		
12. Existing problems of the structure	failer in some parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steel, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.30
2) Gate Width (m)			2.00
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL41.10
5) Down stream water level EL(m)			Down Stream EL40.65
6) Bed level EL(m)			EL39.85
7) Gate type / Wood, Steel, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Already expire
9) Gate condition / Excellent, Good, Bad, Already Expire			Already expire
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

1. Name	ie West Rayramon car	2- Construction Year	1918
3. Type --Select from as follow item-- (Intake, Regulator, Tail			<i>Intake</i>
4. Canal's name / Main canal name	Al Sahliya canal		
5. Command Area (feddan)	1,750	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	122,500
7. Length of Canal downstream the structure (km)			0.9
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	5 year		
10. Cost of the necessary works for improvement	200,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction		
12. Existing problems of the structure	Failer in som parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	<i>Brick</i>		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	3.10		
2) Gate Width (m)	2.10		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL44.65		
5) Down stream water level EL(m)	Down Stream EL44.30		
6) Bed level EL(m)	EL42.35		
7) Gate type / Wood, Steal, Others, Nothing	<i>Steal</i>		
8) Structure condition / Excellent, Good, Bad, Already Expire	<i>Bad</i>		
9) Gate condition / Excellent, Good, Bad, Already Expire	<i>Bad</i>		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	East Desout	2. Construction Year	
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Intake		
4. Canal's name / Main canal name	Ebraheemeyya		
5. Command Area (feddan)	1200 feddum	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	138 m <sup>3</sup> / sec
7. Length of Canal downstream the structure (km)	3.870 Km		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstrution		
9. Commencement of the necessary works for improvement	Within 5 Years		
10. Cost of the necessary works for improvement	.L.E 2,000,000		
11. Contents of the necessary works for improvement	Completer Reconstruction		
12. Existing problems of the structure	Do not work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other			

14. Question and Dimension of the structure ( If nothing of information, please write "N" )	
1) Gate Height (m)	N
2) Gate Width (m)	N
3) Number of Vent (How many ?)	N
4) Up stream water level EL(m)	N
5) Down stream water level EL(m)	N
6) Bed level EL(m)	N
7) Gate type / Wood, Steal, Others, Nothing	N
8) Structure condition / Excellent, Good, Bad, Already Expire	N
9) Gate condition / Excellent, Good, Bad, Already Expire	N
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.	Anually
11) Please write remarks, if any	

15. Picture	Front	Top	Side or Behind
	[Blank area for drawing]		

16. Location / Also show the Location other MAP	[Blank area for map]
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**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Barbakh Bani Mazar	2. Construction Year	1970
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Intake
4. Canal's name / Main canal name		Ebraheemeyya	
5. Command Area (feddan)	1400 Feddan	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	4500 m <sup>3</sup> / day
7. Length of Canal downstream the structure (km)			4.170 Km
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			3 years
10. Cost of the necessary works for improvement			150 000 L.E.
11. Contents of the necessary works for improvement		Complete Reconstruction	
12. Existing problems of the structure		Do not work properly	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.00 m
2) Gate Width (m)			2.00 m
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			35.40 m
5) Down stream water level EL(m)			35.35 m
6) Bed level EL(m)			33.95 m
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Good
9) Gate condition / Excellent, Good, Bad, Already Expire			Good
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 Year
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure**      Form 1 / For Intake, Regulator, Tail escape

1. Name	Abu Hashima	2. Construction Year	1904
			Regulator
4. Canal's name / Main canal name	Menshat Al-Dahab		
5. Command Area (feddan)	3,700	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	44,400
7. Length of Canal downstream the structure (km)			9.1
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			5-years
10. Cost of the necessary works for improvement			400 LE
11. Contents of the necessary works for improvement		Complete Reconstruction	
12. Existing problems of the structure		Don't work properly	
13. Material of the structure / Wood, Brick, Stone, Steel, Other			
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			3.00
2) Gate Width (m)			1.70
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL35.40
5) Down stream water level EL(m)			Down Stream EL35.20
6) Bed level EL(m)			EL34.10
7) Gate type / Wood, Steel, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Good
10) How often the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			



Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	Al Maniekly regulator	2- Construction Year	1919
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	<i>Regulator</i>		
4. Canal's name / Main canal name	Al Badraman canal		
5. Command Area (feddan)	1,930	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	135,100
7. Length of Canal downstream the structure (km)	12,290.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	5 YEAR		
10. Cost of the necessary works for improvement	200,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction		
12. Existing problems of the structure	Failer in som parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	<i>Brick</i>		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	1.80		
2) Gate Width (m)	1.20		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL44.10		
5) Down stream water level EL(m)	#####		
6) Bed level EL(m)	EL42.25		
7) Gate type / Wood, Steal, Others, Nothing	<i>Steal</i>		
8) Structure condition / Excellent, Good, Bad, Already Expire	<i>bad</i>		
9) Gate condition / Excellent, Good, Bad, Already Expire	<i>bad</i>		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

## Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	Al Sahala Regulator	2- Construction Year	2012
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	<i>Regulator</i>		
4. Canal's name / Main canal name	The East hafeze canal		
5. Command Area (feddan)	2,200	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	154,000
7. Length of Canal downstream the structure (km)	3,300.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	New Regulator		
9. Commencement of the necessary works for improvement	2 year		
10. Cost of the necessary works for improvement	250,000 LE		
11. Contents of the necessary works for improvement	First disghine		
12. Existing problems of the structure	Redistrpution discharge		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	<i>Other</i>		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	N		
2) Gate Width (m)	N		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL40.90		
5) Down stream water level EL(m)	Down Stream EL40.70		
6) Bed level EL(m)	EL39.00		
7) Gate type / Wood, Steal, Others, Nothing	<i>Steal</i>		
8) Structure condition / Excellent, Good, Bad, Already Expire			
9) Gate condition / Excellent, Good, Bad, Already Expire			
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	Al Sahliya canal	2- Construction Year	1918
3. Type --Select from as follow item--	(Intake, Regulator, Tail		Regulator
4. Canal's name / Main canal name	Al Sahliya canal		
5. Command Area	3,224	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	225,680
7. Length of Canal downstream the structure (km)			7,030.0
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	5 year		
10. Cost of the necessary works for improvement	250,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction and gates		
12. Existing problems of the structure	Can not operate the gate for the deterioration and failer in construction		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			4.40
2) Gate Width (m)			2.55
3) Number of Vent (How many ?)			1.00
4) Up stream water level EL(m)			Up Stream EL44.60
5) Down stream water level EL(m)			#####
6) Bed level EL(m)			EL41.00
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Already expier
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

Data Sheet for the Minor SI Form 1 / For Intake, Regulator, Tail escape

1. Name	Al Tahfeef Drain	2- Construction Year	1918
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Regulator -( Tail escape )		
4. Canal's name / Main canal name	Al Sahliya canal		
5. Command Area		6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	
7. Length of Canal downstream the structure (km)	1,200.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	5 years		
10. Cost of the necessary works for improvement	300,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction		
12. Existing problems of the structure	failer in some parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	4.50		
2) Gate Width (m)	3.00		
3) Number of Vent (How many ?)	2.00		
4) Up stream water level EL(m)	Up Stream EL44.30		
5) Down stream water level EL(m)	Down Stream EL44.15		
6) Bed level EL(m)	EL41.10		
7) Gate type / Wood, Steal, Others, Nothing	Wood		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		

**Data Sheet for the Minor Structure**      Form 1 / For Intake, Regulator, Tail escape

1. Name	Ban Al-Alam Branch	2. Construction Year	1950
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Ebraheemeyya	
5. Command Area (feddan)	1000 Feddan	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	900 m <sup>3</sup> / day
7. Length of Canal downstream the structure (km)			4.560 Km
8. Necessary works for improvement / Rehabilitation or Reconstruction			Rehabilitation
9. Commencement of the necessary works for improvement			3 years
10. Cost of the necessary works for improvement			150 000 L.E.
11. Contents of the necessary works for improvement		Gate Replacement	
12. Existing problems of the structure		Gate do not work properly	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Steal
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.00 m
2) Gate Width (m)			1.00 m
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			32.20 m
5) Down stream water level EL(m)			32.10 m
6) Bed level EL(m)			30.60 m
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 Year
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape**

1. Name	East Aba Canal	2. Construction Year	1975
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name	Ebraheemeyya		
5. Command Area (feddan)	2500 Feddan	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1000 m <sup>3</sup> / day
7. Length of Canal downstream the structure (km)	5.64 Km		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	3 years		
10. Cost of the necessary works for improvement	200 000 L.E.		
11. Contents of the necessary works for improvement	Gate Replacement		
12. Existing problems of the structure	Gate don't work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Steal		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	1.5 m		
2) Gate Width (m)	1.00 m		
3) Number of Vent (How many ?)	1		
4) Up stream water level EL(m)	33.60 m		
5) Down stream water level EL(m)	33.50 m		
6) Bed level EL(m)	32.80 m		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.	1 Year		
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Abu Hassiba Canal	2. Construction Year	1950
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			
4. Canal's name / Main canal name		Ebraheemeyya	
5. Command Area (feddan)	600 Feddan	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	
7. Length of Canal downstream the structure (km)			12.2 Km
8. Necessary works for improvement / Rehabilitation or Reconstruction			Recontruction
9. Commencement of the necessary works for improvement			5 years
10. Cost of the necessary works for improvement			500 000 L.E.
11. Contents of the necessary works for improvement		Complete Recontruction	
12. Existing problems of the structure		Bed level is higher than usual water level in feeding canal.	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.5 m
2) Gate Width (m)			2.6 m
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			36.50 m
5) Down stream water level EL(m)			36.40 m
6) Bed level EL(m)			34.80
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Good
9) Gate condition / Excellent, Good, Bad, Already Expire			Good
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 Year
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Al-Gendeyya Canal	2. Construction Year	1950
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name		Ebraheemeyya Canal	
5. Command Area (feddan)	1000 Feddan	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1000 m <sup>3</sup> / day
7. Length of Canal downstream the structure (km)			4.120 Km
8. Necessary works for improvement / Rehabilitation or Reconstruction			Rehabilitation
9. Commencement of the necessary works for improvement			3 years
10. Cost of the necessary works for improvement			150 000 L.E.
11. Contents of the necessary works for improvement		Gate Replacement	
12. Existing problems of the structure		Gate do not work properly	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Steal
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.00 m
2) Gate Width (m)			1.5 m
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			33.00 m
5) Down stream water level EL(m)			32.90 m
6) Bed level EL(m)			30.30 m
7) Gate type / Wood, Steal, Others, Nothing			Steal
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 Year
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			



**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	South Darweesh Canal	2. Construction Year	
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulator
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	500 Feddan	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1000 m <sup>3</sup> / day
7. Length of Canal downstream the structure (km)	5.32 Km		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	5 years		
10. Cost of the necessary works for improvement	200 000 L.E.		
11. Contents of the necessary works for improvement	Complete Recnstruction		
12. Existing problems of the structure	Do not work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Steal		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	1.00 m		
2) Gate Width (m)	1.5 m		
3) Number of Vent (How many ?)	1		
4) Up stream water level EL(m)	34.00 m		
5) Down stream water level EL(m)	33.50 m		
6) Bed level EL(m)	33.00 m		
7) Gate type / Wood, Steal, Others, Nothing	Steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.	1 Year		
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Sawada Canal	2. Construction Year	1990
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulation
4. Canal's name / Main canal name		Ebraheemeyya Canal	
5. Command Area (feddan)	10000 FED	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	2700 m <sup>3</sup> / day
7. Length of Canal downstream the structure (km)			16.62 Km
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			3 YEARS
10. Cost of the necessary works for improvement			250 000 L.E.
11. Contents of the necessary works for improvement		Complete Reconctruction	
12. Existing problems of the structure		Do not work properly	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Other
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			2.50 m
2) Gate Width (m)			2.80 m
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			39.20
5) Down stream water level EL(m)			39.10
6) Bed level EL(m)			37.00
7) Gate type / Wood, Steal, Others, Nothing			steal
8) Structure condition / Excellent, Good, Bad, Already Expire			good
9) Gate condition / Excellent, Good, Bad, Already Expire			good
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 Year
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	West Desout	2. Construction Year	
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulation
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	1,000	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3000 m <sup>3</sup> / day
7. Length of Canal downstream the structure (km)			2.640 Km
8. Necessary works for improvement / Rehabilitation or Reconstruction			New Construction
9. Commencement of the necessary works for improvement			3 YEARS
10. Cost of the necessary works for improvement			150 000 L.E.
11. Contents of the necessary works for improvement	New Construction		
12. Existing problems of the structure	Difficulty of water control		
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			N
2) Gate Width (m)			N
3) Number of Vent (How many ?)			N
4) Up stream water level EL(m)			N
5) Down stream water level EL(m)			N
6) Bed level EL(m)			N
7) Gate type / Wood, Steal, Others, Nothing			N
8) Structure condition / Excellent, Good, Bad, Already Expire			N
9) Gate condition / Excellent, Good, Bad, Already Expire			N
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 Year
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	1 Safsafa Branch	2. Construction Year	
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Regulation
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	900 FED	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1100 m <sup>3</sup> / day
7. Length of Canal downstream the structure (km)			6.060
8. Necessary works for improvement / Rehabilitation or Reconstruction			Construction
9. Commencement of the necessary works for improvement			5 YEARS
10. Cost of the necessary works for improvement			200 000 L.E.
11. Contents of the necessary works for improvement	New Construction		
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			N
2) Gate Width (m)			N
3) Number of Vent (How many ?)			N
4) Up stream water level EL(m)			N
5) Down stream water level EL(m)			N
6) Bed level EL(m)			N
7) Gate type / Wood, Steal, Others, Nothing			
8) Structure condition / Excellent, Good, Bad, Already Expire			
9) Gate condition / Excellent, Good, Bad, Already Expire			
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 Year
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	Bany wallems Escape	2. Construction Year	1950
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Tail escape		
4. Canal's name / Main canal name	Serry Canal		
5. Command Area (feddan)	2,700	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	4000m <sup>3</sup> /day 0,625 m <sup>3</sup> /sec
7. Length of Canal downstream the structure (km)	0.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	after 3 year (2013)		
10. Cost of the necessary works for improvement	50 000 L.E.		
11. Contents of the necessary works for improvement	for priction the end of canal by mintan of high water level in the end		
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Other	N		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	2.00		
2) Gate Width (m)	0.80		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL32.00		
5) Down stream water level EL(m)			
6) Bed level EL(m)	EL31.00		
7) Gate type / Wood, Steal, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	NO		
9) Gate condition / Excellent, Good, Bad, Already Expire	NO		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	N		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	1 Al-Safsafa Branch	2. Construction Year	1945
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Tail escape		
4. Canal's name / Main canal name	Ebraheemeyya Branch		
5. Command Area (feddan)	1,200	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	800m <sup>3</sup> /day
7. Length of Canal downstream the structure (km)	0.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	Within 3 Years		
10. Cost of the necessary works for improvement	150 000 L.E.		
11. Contents of the necessary works for improvement	Complete Reconstruction		
12. Existing problems of the structure	Don't work properly.		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	1.25		
2) Gate Width (m)	1.00		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL37.50		
5) Down stream water level EL(m)			
6) Bed level EL(m)	EL3700.00		
7) Gate type / Wood, Steal, Others, Nothing	Steel		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 1 / For Intake, Regulator, Tail escape

1. Name	2 Safsafa Branch	2. Construction Year	
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Tail escape
4. Canal's name / Main canal name		Ebraheemeyya Canal	
5. Command Area (feddan)		6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	
7. Length of Canal downstream the structure (km)			
8. Necessary works for improvement / Rehabilitation or Reconstruction			Reconstruction
9. Commencement of the necessary works for improvement			3 YEARS
10. Cost of the necessary works for improvement			150 000 L.E.
11. Contents of the necessary works for improvement		Complete Reconstruction	
12. Existing problems of the structure		Do not work properly	
13. Material of the structure / Wood, Brick, Stone, Steal, Other			Brick
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)			1.00 m
2) Gate Width (m)			1.00 m
3) Number of Vent (How many ?)			1
4) Up stream water level EL(m)			4.815 Km
5) Down stream water level EL(m)			N
6) Bed level EL(m)			37.26
7) Gate type / Wood, Steal, Others, Nothing			Steel
8) Structure condition / Excellent, Good, Bad, Already Expire			Bad
9) Gate condition / Excellent, Good, Bad, Already Expire			Bad
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 Year
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	Al-Sheikh Yousef Branch	2. Construction Year	
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Tail escape
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)		6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	
7. Length of Canal downstream the structure (km)			
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	3 YEARS		
10. Cost of the necessary works for improvement			
11. Contents of the necessary works for improvement	Complete Reconstruction		
12. Existing problems of the structure	Do not work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	1.5 m		
2) Gate Width (m)	0.8 m		
3) Number of Vent (How many ?)	1.00 m		
4) Up stream water level EL(m)	N		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	34.62		
7) Gate type / Wood, Steal, Others, Nothing	steal		
8) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
9) Gate condition / Excellent, Good, Bad, Already Expire	Bad		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.	1 Year		
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			



Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape

1. Name	West Tahnasha Branch	2. Construction Year	
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)			Tail escape
4. Canal's name / Main canal name			
5. Command Area (feddan)		6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	
7. Length of Canal downstream the structure (km)			
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	3 YEARS		
10. Cost of the necessary works for improvement	150 000 L.E.		
11. Contents of the necessary works for improvement	Complete Reconstruction		
12. Existing problems of the structure	Do not work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	1.00 m		
2) Gate Width (m)	0.8 m		
3) Number of Vent (How many ?)	1		
4) Up stream water level EL(m)	N		
5) Down stream water level EL(m)	N		
6) Bed level EL(m)	N		
7) Gate type / Wood, Steal, Others, Nothing	N		
8) Structure condition / Excellent, Good, Bad, Already Expire	N		
9) Gate condition / Excellent, Good, Bad, Already Expire	N		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.	1 Year		
11) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure**      Form 3 / For Pump station (less than 0.5m<sup>3</sup>/s)

1. Name	Abu Habeba Branch	2. Construction Year	
3. Type	Pump station		
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	1,000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3000 m <sup>3</sup> /day
7. Length of Canal downstream the structure (km)	5.00 km		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Construction		
9. Commencement of the necessary works for improvement	Within 3 Years		
10. Cost of the necessary works for improvement	200 000 L.E.		
11. Contents of the necessary works for improvement	improvement with two unit its discharge 0.5 m <sup>3</sup> /sec		
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret			
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Max discharge of the Pump (m <sup>3</sup> /s)	0.5 m <sup>3</sup> /sec		
2) Number of pump (How many?)	2 Units		
3) Diameter of the Pump (mm)			
4) Where from country is the pump machine installed site?			
5) Power source / Electricity, Diesel, others	Electricity		
6) How ofen the maintenance / every half year or 1 year ... nothing... etc.	1 year		
7) Inatke side water level EL(m)			
8) Discharge side water level EL(m)	Down Stream EL35.00		
9) Pump head = " 8) - 7) " (m)	35.00		
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure Form 3 / For Pump station (less than 0.5m<sup>3</sup>/s)**

1. Name	pump station	2. Construction Year	
3. Type	Pump station		
4. Canal's name / Main canal name	Hassen Basha Drain /Serry canal		
5. Command Area (feddan)	60000 Fed	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	3.0 m <sup>3</sup> /day
7. Length of Canal downstream the structure (km)	58.00 km		
8. Necessary works for improvement / Rehabilitation or Reconstruction	new stucture		
9. Commencement of the necessary works for improvement	after 4 years(2014)		
10. Cost of the necessary works for improvement	500 000 L.E.		
11. Contents of the necessary works for improvement	Newly Construction		
12. Existing problems of the structure	Lack of water at canal end		
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret	no		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Max discharge of the Pump (m <sup>3</sup> /s)	0.5 m <sup>3</sup> /sec		
2) Number of pump (How many?)	6.00		
3) Diameter of the Pump (mm)			
4) Where from country is the pump machine installed site?			
5) Power source / Electricity, Diesel, others	Electricity		
6) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
7) Inatke side water level EL(m)			
8) Discharge side water level EL(m)	Down Stream EL34.00		
9) Pump head = " 8) - 7) " (m)			
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure Form 3 / For Pump station (less than 0.5m<sup>3</sup>/s)**

1. Name	Samalout Canal	2. Construction Year	
3. Type			Pump station
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	1000 Feddan	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	0.5 m <sup>3</sup> / sec
7. Length of Canal downstream the structure (km)			1.140 Km
8. Necessary works for improvement / Rehabilitation or Reconstruction			Construction
9. Commencement of the necessary works for improvement			Within 3 Years
10. Cost of the necessary works for improvement			250 000 L.E.
11. Contents of the necessary works for improvement	New Construction		
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret			
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Max discharge of the Pump (m <sup>3</sup> /s)			0.5 m <sup>3</sup> / sec
2) Number of pump (How many?)			3 unit
3) Diameter of the Pump (mm)			
4) Where from country is the pump machine installed site?			
5) Power source / Electricity, Diesel, others			Electricity
6) How ofen the maintenance / every half year or 1 year ... nothing... etc.			1 Year
7) Inatke side water level EL(m)			
8) Discharge side water level EL(m)			Down Stream EL36.50
9) Pump head = " 8) - 7) " (m)			36.50
10) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 2 / For Culvert and Siphon, Aqueduct

1. Name	Sawada Intake	2. Construction Year	
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)	siphon		
4. Canal's name / Main canal name	Sawada Intake River Nile		
5. Command Area (feddan)	1500 Fed	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	5000 m3 /day
7. Length of Canal downstream the structure (km)	12.500 km		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabit		
9. Commencement of the necessary works for improvement (At least after 5yr)	5 - years		
10. Cost of the necessary works for improvement	300 (T.P)		
11. Contents of the necessary works for improvement	Rehabilitation		
12. Existing problems of the structure	Rehabilitation		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Brick		
14. Material of the pipe / Wood, Brick, Stone, Steal, Other	steel		
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)			
2) Vent width of the Culvert (m)			
3) Length of the Culvert, Siphon, Aqueduct (m)	25. 00m		
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)	5. 00m		
5) The difference of water head level of the siphon (m)	15 m		
6) Diameter of the pipe for Siphon or Aqueaduct (mm)	1000 mm		
7) Up stream water level EL(m)	Up Stream EL38.25		
8) Down stream water level EL(m)	Down Stream EL38.10		
9) Length of pipe for Siphon or Aqueaduct,if any (m)	25. 00m		
10) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
11) Pipe condition / Excellent, Good, Bad, Already Expire	Bad		
12) How ofen the maintenance / every half year or 1 year ... nothing... etc.	1 year		
13) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure** Form 2 / For Culvert and Siphon, Aqueduct

1. Name	Waslet Al-Shere'l	2. Construction Year	1970
3. Type --Select from as follow item-- (Culvert, Siphon, Aqueduct)	Aqueduct		
4. Canal's name / Main canal name	Serry Canal		
5. Command Area (feddan)	400	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	30 000
7. Length of Canal downstream the structure (km)	3.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement (At least after 5yr)	Within 3 Years		
10. Cost of the necessary works for improvement	80 000 L.E.		
11. Contents of the necessary works for improvement	Reconstruction		
12. Existing problems of the structure	Do not work properly		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Steel		
14. Material of the pipe / Wood, Brick, Stone, Steal, Other			
15. Question and Dimension the structure ( If nothing of information, please write "N" )			
1) Vent height of the Culvert (m)			
2) Vent width of the Culvert (m)			
3) Length of the Culvert, Siphon, Aqueduct (m)	16. 00		
4) Depth of the Siphon pipe. The depth is from the canal bank to the pipe(m)			
5) The difference of water head level of the siphon (m)			
6) Diameter of the pipe for Siphon or Aqueaduct (mm)	1. 00		
7) Up stream water level EL(m)	Up Stream EL36.10		
8) Down stream water level EL(m)	Down Stream EL36.00		
9) Length of pipe for Siphon or Aqueaduct,if any (m)	16. 00		
10) Structure condition / Excellent, Good, Bad, Already Expire	Bad		
11) Pipe condition / Excellent, Good, Bad, Already Expire	Bad		
12) How ofen the maintenance / every half year or 1 year ... nothing... etc.	Anually		
13) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure**      Form 4 / For Bridge

1. Name	Al-Fashneyya Canal 2	2. Construction Year	1955
3. Type	Bridge 2		
4. Canal's name / Main canal name	ELFASHEN CANAL / EBRAHEMIA CANAL		
5. Command Area (feddan)	1,300	6. Max discharge of canal (m <sup>3</sup> /day) or (m3/s)	4200M3/DAY
7. Length of Canal downstream the structure (km)	6.5 KM		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	Within 3 Years		
10. Cost of the necessary works for improvement	200,000 LE		
11. Contents of the necessary works for improvement			
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)	3.00 m		
2) Length of the Bridge (m)	4.00 m		
3) Hieight of the pier or abut of the Bridge from the canal bed (m)	2.00 m		
4) Width of the canal at Bridge point (m)	3.00m		
5) Width of up stream of the canal (m)	2.5m		
6) Width of down stream of the canal (m)	2.5m		
7) Up stream water level EL(m)	-Up Stream EL33.10		
8) Down stream water level EL(m)	-Down Stream EL33.00		
9) How ofen the maintenance, if any / every half year or 1 year ... nothing... etc.			
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

Data Sheet for the Minor Structure Form 4 / For Bridge

1. Name	Al-Fashneyya Canal 1	2. Construction Year	1955
3. Type	Bridge		
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	1,500	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	6000M3/DAY
7. Length of Canal downstream the structure (km)	7.66 KM		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	Within 3 Years		
10. Cost of the necessary works for improvement	200 000 L.E.		
11. Contents of the necessary works for improvement			
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)	2.00 m		
2) Length of the Bridge (m)	3.00 m		
3) Hieight of the pier or abut of the Bridge from the canal bed (m)	2.00 m		
4) Width of the canal at Bridge point (m)	2.00m		
5) Width of up stream of the canal (m)	3.00m		
6) Width of down stream of the canal (m)	3.00m		
7) Up stream water level EL(m)	-Up Stream EL33.25		
8) Down stream water level EL(m)	-Down Stream EL33.15		
9) How ofen the maintenance, if any / every half year or 1 year ... nothing... etc.			
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			



**Data Sheet for the Minor Structure**      Form 4 / For Bridge

1. Name	Ma'atan Bridge	2. Construction Year	1950
3. Type	Bridge		
4. Canal's name / Main canal name	Serry Canal		
5. Command Area (feddan)	150 000	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	750000M3/DAY
7. Length of Canal downstream the structure (km)	15.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Reconstruction		
9. Commencement of the necessary works for improvement	Within 3 Years		
10. Cost of the necessary works for improvement	500 000 L.E.		
11. Contents of the necessary works for improvement	new . Struction		
12. Existing problems of the structure	its old and case the meter level		
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)	6.00		
2) Length of the Bridge (m)	11.00		
3) Hieight of the pier or abut of the Bridge from the canal bed (m)	3.00		
4) Width of the canal at Bridge point (m)	11.00		
5) Width of up stream of the canal (m)	11.00		
6) Width of down stream of the canal (m)	11.00		
7) Up stream water level EL(m)	Up Stream EL33.90		
8) Down stream water level EL(m)	Down Stream EL33.90		
9) How ofen the maintenance, if any / every half year or 1 year ... nothing... etc	Anually		
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure Form 1 / For Intake, Regulator, Tail escape**

1. Name	Morgan Regulator	2- Construction Year	1917
3. Type --Select from as follow item-- (Intake, Regulator, Tail escape)	Regulator		
4. Canal's name / Main canal name	Al Badraman canal		
5. Command Area (feddan)	6,935	6. Max discharge (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	
7. Length of Canal downstream the structure (km)	16.960.0		
8. Necessary works for improvement / Rehabilitation or Reconstruction	RECONSTRUCTION		
9. Commencement of the necessary works for improvement	3 year		
10. Cost of the necessary works for improvement	200,000 LE		
11. Contents of the necessary works for improvement	Replace parts of construction		
12. Existing problems of the structure	Failer in som parts of construction		
13. Material of the structure / Wood, Brick, Stone, Steal, Other	Wood		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Gate Height (m)	3.00		
2) Gate Width (m)	3.50		
3) Number of Vent (How many ?)	1.00		
4) Up stream water level EL(m)	Up Stream EL44.50		
5) Down stream water level EL(m)	Down Stream EL44.40		
6) Bed level EL(m)	EL42.60		
7) Gate type / Wood, Steal, Others, Nothing	wood		
8) Structure condition / Excellent, Good, Bad, Already Expire	already expire		
9) Gate condition / Excellent, Good, Bad, Already Expire	already expire		
10) How ofen the maintenance / every half year or 1 year ... nothing... etc.			
11) Please write remarks, if any	No		
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP	Dahab canal on baher - Yosef canal		
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**Data Sheet for the Minor Structure Form 4 / For Bridge**

1. Name	SHEIKH YOUSEF BRANCH	2. Construction Year	1950
3. Type	Bridge		
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	350 Feddan	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	1200 m <sup>3</sup> /day
7. Length of Canal downstream the structure (km)	3.00 km		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	3-years		
10. Cost of the necessary works for improvement	150,000 LE		
11. Contents of the necessary works for improvement			
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steal, Conceret	Conceret		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)	D= 1.00 m		
2) Length of the Bridge (m)	L= 6.00 m		
3) Hieight of the pier or abut of the Bridge from the canal bed (m)			
4) Width of the canal at Bridge point (m)	w. b. =1.00		
5) Width of up stream of the canal (m)	1.00		
6) Width of down stream of the canal (m)	1.00		
7) Up stream water level EL(m)	Up Stream EL36.30		
8) Down stream water level EL(m)	Down Stream EL36.20		
9) How ofen the maintenance, if any / every half year or 1 year ... nothing... etc.			
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			

**Data Sheet for the Minor Structure Form 4 / For Bridge**

1. Name	WEST ABA CANAL	2. Construction Year	1989
3. Type	Bridge		
4. Canal's name / Main canal name	Ebraheemeyya Canal		
5. Command Area (feddan)	1500 Feddan	6. Max discharge of canal (m <sup>3</sup> /day) or (m <sup>3</sup> /s)	5000M3/DAY
7. Length of Canal downstream the structure (km)	1.2 km		
8. Necessary works for improvement / Rehabilitation or Reconstruction	Rehabilitation		
9. Commencement of the necessary works for improvement	3-years		
10. Cost of the necessary works for improvement	150 000 L.E.		
11. Contents of the necessary works for improvement			
12. Existing problems of the structure			
13. Material of the structure / Wood, Brick, Stone, Steel, Conceret	Brick		
14. Question and Dimension of the structure ( If nothing of information, please write "N" )			
1) Width of the Bridge (m)	3.00 m		
2) Length of the Bridge (m)	4.00 m		
3) Hieight of the pier or abut of the Bridge from the canal bed (m)	1.5 m		
4) Width of the canal at Bridge point (m)	3.00m		
5) Width of up stream of the canal (m)	1.00m		
6) Width of down stream of the canal (m)	1.00m		
7) Up stream water level EL(m)	-Up Stream EL33.25		
8) Down stream water level EL(m)	-Down Stream EL33.20		
9) How ofen the maintenance, if any / every half year or 1 year ... nothing... etc	N		
9) Please write remarks, if any			
15. Picture	Front	Top	Side or Behind
16. Location / Also show the Location other MAP			