

TABLE E.1.6-17 NUMBER OF STRUCTURES IRRIGATION (HARAZ WEST DISTRICT)

TERTIARY CANAL		TYPE OF DROP STRUCTURE				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
HW1	T1	6	2		3	11
	T2	7		1	1	9
	T3	8	1	4	5	18
	T4	8	2		3	13
	Total	29	5	5	12	51
HW2A	T1			1	1	2
	T2	2	1	1	2	6
	T3	3	3	1	3	10
	T4	7		2	4	13
	T4'		2	2		4
	T5	2	2	2	1	7
	Total	14	8	9	11	42
HW2B	T1	7	2	6	3	18
	T2	3	2	2	3	10
	T3	5	3	4	2	14
	T4	1	2	2	2	7
	T5	1		2	4	7
	Total	17	9	16	14	56
HW3	T1	7	3	2	2	14
	T2/UNIT					
	T3, T4	6	2	3	4	15
	T3, T4'	7	2	3	2	14
	T5/UNIT					
	T6	3	2	2	1	8
	T7/UNIT					
	T8	9	4	3	4	20
	T9	2	1	2	1	6
	T10	7	3	4		14
	T11/UNIT					
	T12	3		3	1	7
	T13				1	1
	Total	44	17	22	16	99
HW4	T1	2	1	1		4
	T2	2	1	1	1	5
	T3	8	4	1	3	16
	T4				1	1
	T5	1	2		1	4
	T5'	1				1
	Total	14	8	3	6	31
HW5	T1	1				1
	T2					
	T3	2	2	1	1	6
	T4		2	1	2	5
	Total	3	4	2	3	12

HARAZ WEST DISTRICT (2/2)

TERTIARY CANAL		TYPE OF DROP STRUCTURE				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
HW6	T1	3	3	2	3	11
	T2		2		1	3
	T2, T3	4	5	5	3	17
	Total	7	10	7	7	31
TOTAL		128	61	64	69	322

TABLE E.1.6-18 NUMBER OF STRUCTURES IRRIGATION (AMOL WEST DISTRICT)

TERTIARY CANAL		TYPE OF DROP STRUCTURE				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
AW1	T1					
	T2		2	3	1	6
	T3,T4	3		1	1	5
	T4				1	1
	Total	3	2	4	3	12
AW2	T1		2	3	3	8
	T2				2	2
	T3				1	1
	Total		2	3	6	11
AW3A	T1			1	1	2
	T2					
	T2'			1	1	2
	T3				2	2
	T4,T4'				3	3
	T4'				2	2
	Total			2	9	11
AW3B	T1		1	1	2	4
AW4	T1		2	1	2	5
	T2			3	2	5
	T3					
	T4/UNIT					
	T5			1		1
	T5'					
	T6					
	Total		2	5	4	11
AW5	T1/UNIT					
	T2					
	T3			1	2	3
	T4				1	1
	T4'				1	1
	T5		2		1	3
	T5'		1	1	2	4
	Total		3	2	7	12
AW6	T1/UNIT					
	T2		1		1	2
	T3		2	2	2	6
	T3'		2		3	5
	T4		2	1	3	6
	Total		7	3	9	19

AMOL WEST DISTRICT (2/2)

TERTIARY CANAL		TYPE OF DROP STRUCTURE				
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	TOTAL
AW7	T1	3	3	6	4	16
	T2/UNIT					
	T3				2	2
	T4			1		1
	T5					
	T6		1	1	1	3
	T7		1	1	1	3
	T8					
	T9		1		1	2
	T10		1	1	2	4
	T10'					
Total	3	7	10	11	31	
AW8	T1	3		2	2	7
	T2			1		1
	Total	3		3	2	8
AW9	T1			1		1
	T2	1	1			2
	T3	5		3	1	9
	Total	6	1	4	1	12
AW9A	T1/UNIT					
	T2/UNIT					
	T3					
	T4				1	1
	T4'	1	1			2
	T4''	1		1		2
	T4'''			2	1	3
	T5/UNIT					
	T6					
	T7				1	1
	T7'					
	T7''					
	T8				4	4
	Total	2	1	3	7	13
AW9B	T1			2	2	4
	T2/UNIT					
	T3				1	1
	T4/UNIT					
	T5			1		1
	T6			1		1
	T7			1	2	3
	T8					
	T9					
	T9'				1	1
	T10				1	1
	T11					
Total			5	7	12	
TOTAL		17	26	45	68	156

TABLE E.1.6-19 NUMBER OF STRUCTURES IRRIGATION (HARAZ EAST DISTRICT)

TERTIARY CANAL		TYPE OF DROP STRUCTURE				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
HE1	T1(L)	1	2	1	3	7
	T1(R)	10		5	1	16
	T2	3			1	4
	T3	2	2		1	5
	T4(L)	10	2	4	2	18
	T4(R)	5	1	4	3	13
	T5	5	3	8	2	18
	T6	4	3	2	3	12
	T6(R)	2		3	2	7
	Total	42	13	27	18	100
HE2	T1	13	1	4	2	20
	T2	11	4	6	3	24
	T3	9	4	2	5	20
	Total	33	9	12	10	64
HE3	T1	5	1		1	7
	T2	2		1		3
	T3	13	2	3	3	21
	T3'	9	2	2	4	17
	T3''	2	1	1	1	5
	T4	5	5	1	3	14
	T5	8	5	4	4	21
	T6		1		1	2
	T7			1		1
	Total	44	17	13	17	91
HE4	T1	4	3	3	1	11
	T2	8	2	2	2	14
	T3/UNIT					
	T4	1	1	2	1	5
	T5	2	2	3	5	12
	T5'				2	2
	Total	15	8	10	11	44
HE5	T1/UNIT					
	T2		1	2	3	6
	Total		1	2	3	6
HE5A	T1		2	2	1	5
	T2		2	1	2	5
	T3/UNIT					
	T4			1		1
	Total		4	4	3	11

HARAZ EAST DISTRICT (2/2)

TERTIARY CANAL		TYPE OF DROP STRUCTURE				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
HE5B	T1	1		1		2
	T1'	1	2	2		5
	T2	1		1	1	3
	T3					
	T4/UNIT					
	T5			1	4	5
	T6		1	1	1	3
	T7				2	2
	Total	3	3	6	8	20
TOTAL		137	55	74	70	336

TABLE E. 1.6-20 NUMBER OF STRUCTURES IRRIGATION (AMOLEAST DISTRICT)

TERTIARY CANAL		TYPE OF DROP STRUCTURE				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
AE1	T1	6		3	1	10
	T2	5	1	3		9
	Total	11	1	6	1	19
AE2	T1	1				1
	T2		1	1		2
	T3	1		2	1	4
	Total	2	1	3	1	7
AE3A	T1					
	T2/UNIT					
	T3/UNIT					
	T4				3	3
	T4'				1	1
	T5/UNIT					
	Total				4	4
AE3Aa	T7				1	1
	T8			1	3	4
	T9 #1				1	1
	T9'					
	Total			1	5	6
AE3B	T1/UNIT					
	T2(L)			1	2	3
	T2(R)				1	1
	Total			1	3	4
AE3Ab	T10/UNIT					
	T11/UNIT					
	T12/UNIT					
	T13				1	1
Total				1	1	
AE3C	T1			1		1
	T2	1				1
	Total	1		1		2
AE4A	T1	1	3	4	2	10
AE4B	T1			1		1
	T2				1	1
	T3/UNIT					
	T4			1	1	2
	T4'			1		1
	T5				2	2
	T5'					
	T6					
	T7					
Total			3	4	7	

AMOL EAST DISTRICT (2/3)

TERTIARY CANAL		TYPE OF DROP STRUCTURE				
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	TOTAL
AE5	T1			1	1	2
	T2				2	2
	T3		1			1
	T4					
	T5		1	1	1	3
	T6				1	1
	Total		2	2	5	9
AE6A	T1/UNIT					
	T2				1	1
	T3				1	1
	T4				1	1
	T5				1	1
	T6		1		1	2
	T6'		1			1
	Total		2		5	7
AE6B	T1				1	1
	T2					
	T3/UNIT					
	T4				1	1
	T5/UNIT					
	T6			1		1
	Total			1	2	3
AE7	T1/UNIT					
	T2					
	T3					
	T4					
	T5				1	1
	T6			1		1
	T6'					
	T7					
Total			1	1	2	
AE8	T1			1	1	2
	T2					
	T3					
	Total			1	1	2
AE9	T1					
	T2				1	1
	T2'					
	T3					
	T3'				1	1
	Total				1	1
AE10	T1					
	T1'					
	T2					
	T3				1	1
	T3'					
	Total				1	1

AMOL EAST DISTRICT (3/3)

TERTIARY CANAL		TYPE OF DROP STRUCTURE				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
AE11	T1/UNIT					
	T2					
	Total					
AE11A	T3					
	T3'				1	1
	T4					
	T4'					
	T5					
	Total				1	1
AE11B	T4					
	T5/UNIT					
	T6			1	2	3
	T9(R)#2		1			1
	T9(L)#3				2	2
	T10		1		1	2
	T11				2	2
	T12			1	1	2
	T13					
Total		2	2	8	12	
TOTAL		15	11	26	46	98

TABLE E. 1.6 - 21 NUMBER OF STRUCTURES IRRIGATION (KARI RUD LEFT AREA)

TERTIARY CANAL		TYPE OF DROP STRUCTURE				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
KL1	T1	16	2	1	1	20
KL2	T1	9	4	3	2	18
KL3	T1	4	2	2	3	11
	T2	1	2	3	3	9
	T3		1	2	1	4
	T4			1	1	2
	T5		1		1	2
	T6		1	1	5	7
	Total	5	7	9	14	35
	KL4	T1				1
T2						
T3					1	1
T4			1		2	3
T5			1		1	2
T6				1	1	2
T6'				2	2	4
Total			2	3	8	13
KL5	T1					
	T2					
	T3				3	3
	T4 #1					
	T5					
	T6					
	T6'					
	Total				3	3
KL6	T1					
KL6A	T1			1		1
	T2				2	2
	Total			1	2	3
KL6B	T1				1	1
	T2 #2				1	1
	T2 #3				3	3
	Total				5	5
TOTAL		30	15	17	35	97

TABLE E. 1. 6 - 22 NUMBER OF STRUCTURES IRRIGATION (KARI RUD RIGHT AREA)

TERTIARY CANAL		TYPE OF DROP STRUCTURE				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
KR1		6	1	4	2	13
KR2		9	1	1	1	12
KR3	T3			1		1
	T4	1				1
	T5	1	1			2
	T6	1		1	1	3
	T7			1	1	2
	Total	3	1	3	2	9
KR4	T1	1	1			2
	T2			1	1	2
	T3			1	2	3
	T4		1		1	2
	T5		1		2	3
	T6				1	1
	T7				1	1
	T8					
	T9			1		1
	Total	1	3	3	8	15
KR5				1	1	
TOTAL		19	6	11	14	50

TABLE E. 1. 6 - 23 SUMMARY OF NUMBER OF STRUCTURES (DRAINAGE)

DISTRICT	Type of drop structure				TOTAL
	A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
Haraz West	118	64	73	134	389
Amol West	4	28	46	108	186
Haraz East	50	30	37	79	196
Amol East	6	12	18	75	111
KARI RIGHT BANK AREA	38	6	10	18	72
TOTAL	216	140	184	414	954

TABLE E.1.6-24 NUMBER OF STRUCTURE DRAINAGE (HARAZ WEST DISTRICT)

TERTIARY CANAL		Type of drop structure				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
DHW1	J1					
	J2(L)	12	5	2	9	28
	J3(L)	13	3	5	8	29
	J4					
	J5(L)	14	3	3	7	27
	Total	39	11	10	24	84
DHW2						
DHW3						
DHW4						
DHW5						
DHW6						
DHW7	J1(R)				1	1
	J2		2		4	6
	J3		3		7	10
	Total		5		12	17
DHW8	J3(R)	2	2		1	5
	J4(R)		1		2	3
	J5(L)		1		3	4
	J6(L)					
	J7(R)	2		1		3
	J8(R)					
	J9(L)					
	J10	6	5	6	13	30
	J11	5	3	2	8	18
	Total	15	12	9	27	63
DHW9	J5(R)	2	4	6	2	14
	J6(R)	1	2			3
	J8(R)					
	J9(R)					
	J10(R)	15	3	6	13	37
	Total	18	9	12	15	54
DHW10	J3(L)	10	5	5	13	33
	J4(R)	4	2	4	6	16
	J5(L)	3	1	2	5	11
	J6(R)				1	1
	J9(R)	3		2	4	9
	Total	20	8	13	29	70
DHW11(L)		1	5	6	6	18

HARAZ WEST DISTRICT (2/2)

TERTIARY CANAL		Type of drop structure				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
DHW12	J2(L)	6	3	6	1	16
	J3(R)				4	4
	Total	6	3	6	5	20
DHW13(L)				2	2	4
DHW14	J2	3	2	1	4	10
DHW15(L)			3	5	6	14
DHW16						
DHW17(L)		1		2		3
DHW18(L)		1		1	1	3
DHW19	J1(R)	3	2	3		8
	J2	5	1	2	3	11
	J2'	6	3	1		10
	Total	14	6	6	3	29
TOTAL		118	64	73	134	389

TABLE E.1.6-25 NUMBER OF STRUCTURE DRAINAGE (AMOL WEST DISTRICT)

TERTIARY CANAL		Type of drop structure				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
DAW1						
DAW2	J3				4	4
	J4		4	1	4	9
	Total		4	1	8	13
DAW3	J6		2	1	3	6
	J7 J8			2	6	8
	J10		1	1	6	8
	J11		3	1	4	8
	J11'(L)			1	2	3
	Total		6	6	21	33
DAW4	J2(L)			3	4	7
	J3(L)				1	1
	J4(R)			2	3	5
	J6(R)				1	1
	J7					
	J7'					
	Total			5	9	14
DAW4A	J2			1	2	3
	J3			1		1
	J4(R)				2	2
	Total			2	4	6
DAW4B	J1		1	1		2
DAW4C	J2					
	J3				1	1
	Total				1	1
DAW5	J2(R)					
	J4(R)					
	J5					
	J6		1	1	4	6
	Total		1	1	4	6
DAW5A	J1(R)				1	1
	J4(R)		1		2	3
	J5(R)		1			1
	J7		1	2	4	7
	J8		3		3	6
	Total		6	2	10	18

AMOL WEST DISTRICT (2/2)

TERTIARY CANAL		Type of drop structure				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
DAW6	J5			1	2	3
	J5'			1	1	2
	J6				1	1
	Total			2	4	6
DAW6A	J3	1		4	3	8
	J3'		2	4	3	9
	J12		3	4	10	17
	Total	1	5	12	16	34
DAW6B	J3(R)		1	2	1	4
	J4, J5				2	2
	J4', J5'			2		2
	Total		1	4	3	8
DAW7				1	1	
DAW8	J3(L)			1	2	3
	J7	1		1	1	3
	J8		2	3	4	9
	Total	1	2	5	7	15
DAW9				2	2	
DAW10	J3(L)				2	2
	J6(R)				1	1
	J8(R)				1	1
	J9(L)		1		2	3
	J9'(R)			1		1
	J11			1	1	2
	J12		1		5	6
	Total		2	2	12	16
DAW11						
DAW12(L)				2	2	
DAW13						
DAW14(L)				1	1	
DAW15(L)			1		1	
DAW16(L)		2		2	3	7
TOTAL		4	28	46	108	186

TABLE E.1.6-26 NUMBER OF STRUCTURE DRAINAGE (HARAZ EAST DISTRICT)

TERTIARY CANAL		Type of drop structure				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
DKL1		3	1	2	2	8
DHE1						
DHW2	J1, J2	9	2	2	3	16
DHE3						
DHE4	J3, J4	7	3	4	5	19
DHE5		5	4	2	7	18
DHE6	J2(L)			1	1	2
	J5(L)			1		1
	J8(L)	3	2	1	4	10
	Total	3	2	3	5	13
DHE7	J1(L)		1		3	4
	J2(R)	2	1	1		4
	J3(L)	3	2	3		8
	J9	4			4	8
	Total	9	4	4	7	24
DHE8	J4(L)	2	1			3
	J5(L)	4	3	3	10	20
	Total	6	4	3	10	23
DHE9	J3(L)				1	1
	J10(L)	2	2	1	4	9
	Total	2	2	1	5	10
DHE10	J6(L)	6	2	5	6	19
DHE11	J3		1		4	5
	J4			2	2	4
	Total		1	2	6	9
DHE12	J14, J15		2	2	2	6
	J20, J21		2		1	3
	J20', J21' (R)		1	1		2
	Total		5	3	3	11
DHE13	J4(R)				4	4
	J7(R)					
	J12, J13			2		2
	Total			2	4	6
DHE14(R)			1	2	3	
DHE15(R)				1	1	
DHE16	J8				3	3
DHE17(R)				1	2	3
DHE18(R)				1		1
DHE19	J3, J4				1	1
DHE20						
DHE21	J2				1	1
	J2, J3				3	3
	J5, J6				3	3
	Total				7	7
DHE22				1	1	
DHE23						
TOTAL		50	30	37	79	196

TABLE E. 1. 6 - 27 NUMBER OF STRUCTURE DRAINAGE (AMOL EAST DISTRICT)

TERTIARY CANAL		Type of drop structure				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
DAE1(R)		3	1	1		5
DAE2(R)						
DAE3(R)						
DAE4(R)						
DAE5(R)						
DAE6(R)				1	2	3
DAE7(R)					1	1
DAE8(R)						
DAE9	J5			1	3	4
	J6				3	3
	Total			1	6	7
DAE10						
DAE11	J5(R)				1	1
	J5'				1	1
	J5''(L)					
	J7(L)					
	J10(R)			1	2	3
	J11(R)	1		1	3	5
	J12(L)		1		2	3
	J13(R)			2	2	4
	J15		1	1	2	4
	J15'			1	4	5
	J16		1	2	6	9
	J16'		2		2	4
	J17(R)	1			2	3
	Total	2	5	8	27	42
DAE12	J4(L)				1	1
	J5(R)					
	J11(R)				2	2
	J12(R)		1			1
	J12'(R)					
	J13(L)		1		2	3
	J14(L)		1	2	3	6
	J16, J17				2	2
	J16', J17'				1	1
	J21(R)				1	1
	J23				1	1
	J28(R)			1	1	2
	J28'(R)			2	1	3
Total		3	5	15	23	

AMOL EAST DISTRICT (2/2)

TERTIARY CANAL		Type of drop structure				TOTAL
		A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
DAE13	J7(R)				1	1
	J8		1		1	2
	J8'				2	2
	Total		1		4	5
DAE14	J3(R)					
	J6(L)					
	J9(R)				1	1
	J10(L)		1		1	2
	J12(L)			1	1	2
	J13(R)		1		1	2
	J13'(L)				1	1
	Total		2	1	5	8
DAE15	J6(L)					
	J11(L)				1	1
	J12	1		1	3	5
	Total	1		1	4	6
DAE16	J4(R)				2	2
	J6(L)					
	J7				1	1
	J7'				1	1
	Total				4	4
DAE17	J5				2	2
DAE18(L)						
DAE19	J3				1	1
	J3'					
	Total				1	1
DAE20				3	3	
DAE20'						
DAE21(L)						
DAE22(L)						
DAE23(L)						
DAE24(L)				1	1	
DAE25(L)						
TOTAL		6	12	18	75	111

TABLE E. 1. 6 - 28 NUMBER OF STRUCTURE DRAINAGE (KARI RIGHT BANK AREA)

TERTIARY CANAL	Type of drop structure				TOTAL
	A (2.0m)	B (1.0m)	C (0.5m)	D (0.25m)	
DKR3	15		1	1	17
DKR4	16	1	1	4	22
DKR9		1	1	2	4
DKR10	5	1		2	8
DKR11			1	2	3
DKR14'		1			1
DKR14	1	1	1		3
DKR16	1				1
DKR17				1	1
DKR20		1	1	1	3
DKR23			1	1	2
DKR24			1	1	2
DKR25				2	2
DKR26			1	1	2
DKR27			1		1
T O T A L	38	6	10	18	72

E. 1.7 Estimation of Work Quantities

The estimation of work quantities for each facility were made as below.

1. Earth Work of Canals

The estimation of work quantities related to canal earth work was carried out based on the preliminary design drawings (Profiles and/or Cross Section)

(1) Secondary Canals

For the estimation of whole work quantity of the canal, the following sample routes of the canal were selected by district-wise for irrigation and/or drainage canals in consideration of canal size, shape and functions.

District	Proposed Canal Name	Existing Canal Name
Haraz West	HW 2B	SELEPAT
	HW 3	TAJRUD
Haraz East	HE 3	NIAKI RUD
	HE 4	KATEL KASH
Amol West	AW 5	AHI RUD
	AW 7	ALI RUD
	AW 9A	MOLLA AHI
	DAW 6	TIFENGAH DRAIN
	DAW 10	BIR RUD DRAIN + ZANGY RUD
Amol East	AE 4B	KHOSHKE RUD
	AE 6A	KATEL KASH + MAHLABAN DRAIN

Finally, calculated earth work volumes per km for the canal of each district area was applied to the total work quantities of the same districts.

Earth work volumes of respective sample canals can be calculated from designed cross-sectional drawing with about 500 m interval.

(2) Tertiary Canals

Hydraulic computation to determine the canal section was made for whole proposed tertiary canal systems. In order to simplify the calculation of work volumes, the following typical cross-section was considered.

Type	Bottom Width B	Canal Height H
Type - a	50 cm	50 cm
“ - b	50	75
“ - c	50	100
“ - i	70 (60~80)	100
“ - j	70 (“)	125
“ - k	70 (“)	150
“ - l	70 (“)	200
“ - r	100 (90~100)	250

Proposed canals can be divided into two category such as newly construction of the canal and partially improvement of existing canal. For the purposed of preliminary calculation of earth work volumes, improvement of canal is further classified into two categories such as type A and type B.

The earth work volumes of type A and type B were assumed about 50% and 30% of the volume for newly construction canal.

2. Related Structures

Based on the profile drawings, the related structures, which differ in types and location to each other, are proposed. Volumes and quantities for each different type of structure were calculated based on the typical drawings. The results were shown in the Table of Canal Inventory

3. O/M Road

The construction of O/M roads were proposed based on the following criteria.

(1) Secondary Canals

District	Location	Application
HW, HE, KR	High Land	75% of length of Secondary Canal Length
AW, AE, KL	Middle/Low Land	100% of length of Secondary Canal Length

(2) Tertiary Canals

District	Location	Application
HW, HE, KR	High Land	75% of length of Irrigation Canal Length
AW, AE, KL	Middle/Low Land	100% of length of Irrigation Canal Length

4. Special Consideration

(1) Revetment

When the volumes and quantities of canals were estimated, the revetment related to canals had been taken into consideration.

The volumes of side slope protection for respective canals is considered as follows;

District	Length L (m)	Height H (m)
1) Secondary Canals		
HW, HE, KR	100 m × 2	2.50
AW, AE, KL	50 m × 2	2.50
2) Tertiary Canals		
-All-	50 m	1.50

L: per 1,000 m of Canal Length

APPENDIX E. 2. COST ESTIMATE

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E. 2. 1 Manner of Cost Estimate and Some Considerations

1. Construction Equipment for Earth Works

Earth works covering excavation of main, secondary and tertiary canals as well as land consolidation are implemented by heavy equipment taking limited working periods and quantities of works into consideration. The following are major equipment selected as construction machines regarding soil physical, items of earth works, etc.

<u>Item of Works</u>	<u>Earth Work Material</u>	<u>Construction Equipment</u>
<u>(1) Canal and Road Works</u>		
1) Excavation	soil, pebbles/rocks	bulldozer, backhoe shovel, ripperdozer
2) Loading	excavated soils	shoveldozer, backhoeshovel
3) Hauling	do	dump truck
4) Banking	do	bulldozer, motorgrader
5) Compaction	base course subgrade course	tyreroller, bulldozer vibrating, or roadroller
<u>(2) Land Consolidation Works</u>		
1) Excavation	soil, pebbles/rocks	swamp-bulldozer, backhoe-shovel, ripperdozer
2) Loading	excavated soils	shoveldozer, backhoeshovel
3) Hauling	do	dump truck
4) Banking	do	bulldozer, motorgrader
5) Compaction	base course subgrade course	tyreroller, bulldozer vibrating, or roadroller

Note: vibrating; vibrating roller

2. Working Plan

(1) Earth Work

Earth work was planned based on the following basic concept;

- 1) excavated soil is to be used for filling works at the closest site to the excavation field,
- 2) excavation and filling should be balanced within a working site as much as possible,
- 3) soil physical conditions such as soil stability should be fully regarded,

- 4) in the case filling materials are in short due to unsuitability of excavated soil materials, the gap is to be offset by carrying from a borrowing pit etc.
- 5) soil/mud excavated through the works of pond (abbandans) is to be used for filling in roads etc.
- 6) rock materials for road pavement and stone masonry are to be collected from the Haraz river.

(2) Concrete Works

Appurtenant structures of canals and roads are to be made of reinforced concrete. Concrete is to be mixed in site by portable mixers and placed and tamped manually or by suitable concrete vibrators. Fine and coarse aggregates are prepared from the materials collected from the river bed of the Haraz.

3. Working Days for Construction Works

The number of days interrupting field works due to rainfall or snowfall was estimated from the data on diurnal precipitation for past ten years from 1976 to 1985 in Babolsar, taking full account of soil physical conditions in the Project Area. Working days, or number of available days for construction works was calculated at 21 days per month by deducing it and further subtracting both calendar and national holidays. Average workable days in both annual and monthly basis indicate in the Table E.2.1-1 and E.2.1-2, respectively.

4. Preparatory Working Plan

It is necessary, prior to the initiation of the said works, to provide topographical maps, necessary surveys and detailed designs to plan facilities. The implementation of the project is to be based on the Iranian jurisdictional authorities by the ministries and agencies concerned, but in this project the provision is mainly shared by the MOE that is responsible for the construction of major facilities, and MOA that is engaged in the consolidation of terminal facilities.

As shown in Table E.2. 1 - 3, it is required to provide topographical maps encompassing the entire area overlapping the implementation of the land consolidation plan, and the detailed maps with a smaller scale for the terminal consolidation, land surveys needed for designing head works and canal facilities and various geological investigations.

In parallel with these, the consultations for implementation planning including the provision of the detailed survey for the facilities concerned and their tender documents, the implementation plans for replotting with the related beneficiary farmers with the terminal consolidation programs.

It is considered indispensable among Iranian government authorities to clear the necessary adjustment for materializing the project implementation, as well as consultations and the necessary arrangement of laws and regulations concerned.

TABLE E. 2. 1-1 ANNUAL WORKABLE DAYS

Total Rainy Day										
-----1975/1976-----						-----1976/1977-----				
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~
Nov.	25	1	2	2	-	Nov.	27	1	2	-
Dec.	24	5	2	-	-	Dec.	26	-	4	1
Jan.	29	1	1	-	-	Jan.	20	4	5	2
Feb.	20	4	5	-	-	Feb.	26	1	1	-
Mar.	27	3	1	-	-	Mar.	30	-	1	-
Total	125	14	11	2	0	Total	129	6	13	3
-----1977/1978-----						-----1978/1979-----				
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~
Nov.	28	-	-	2	-	Nov.	21	2	4	1
Dec.	23	6	1	1	-	Dec.	27	1	3	-
Jan.	28	1	2	-	-	Jan.	27	2	2	-
Feb.	23	2	3	-	-	Feb.	21	4	3	-
Mar.	28	-	3	-	-	Mar.	28	1	2	-
Total	130	9	9	3	0	Total	124	10	14	1
-----1979/1980-----						-----1980/1981-----				
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~
Nov.	27	1	1	1	-	Nov.	26	-	3	1
Dec.	25	2	2	1	1	Dec.	24	-	7	-
Jan.	25	1	5	-	-	Jan.	28	-	1	2
Feb.	21	3	4	-	-	Feb.	24	1	4	-
Mar.	28	2	1	-	-	Mar.	26	2	3	-
Total	126	9	13	2	1	Total	128	3	18	3
-----1981/1982-----						-----1982/1983-----				
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~
Nov.	27	-	2	1	-	Nov.	19	4	4	2
Dec.	31	-	-	-	-	Dec.	29	2	-	-
Jan.	29	1	1	-	-	Jan.	24	3	3	1
Feb.	20	3	5	-	-	Feb.	27	1	-	-
Mar.	25	5	1	-	-	Mar.	25	2	4	-
Total	132	9	9	1	0	Total	124	12	11	3
-----1983/1984-----						-----1984/1985-----				
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~
Nov.	26	1	3	-	-	Nov.	19	6	4	1
Dec.	26	1	3	-	1	Dec.	25	2	2	2
Jan.	27	1	3	-	-	Jan.	28	2	1	-
Feb.	22	6	1	-	-	Feb.	20	4	4	-
Mar.	30	-	1	-	-	Mar.	27	2	2	-
Total	131	9	11	0	1	Total	119	16	13	3
-----1975/76-----						-----1980/81-----				
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~
1975/76	125	14	11	2	0	1980/81	128	3	18	3
1976/77	129	6	13	3	0	1981/82	132	9	9	1
1977/78	130	9	9	3	0	1982/83	124	12	11	3
1978/79	124	10	14	1	2	1983/84	131	9	11	0
1979/80	126	9	13	2	1	1984/85	119	16	13	3
Total	1,268	97	122	21	5	Total	151.3 days			
Average	126.8	9.7	12.2	2.1	0.5					
		*0.5	*1.5	*2.5	*3.5					
No Workable Days	0	4.9	18.3	5.3	1.8	30.3 days				
Workable Days including Friday						121.0 days				

TABLE E.2.1-2 MONTHLY WORKABLE DAYS

Total Rainy Day on Friday											
-----1975/1976-----						-----1976/1977-----					
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~	
Nov.	3	-	1	-	-	Nov.	4	-	-	-	
Dec.	3	1	-	-	-	Dec.	3	-	1	1	-
Jan.	4	1	-	-	-	Jan.	1	1	2	-	-
Feb.	3	1	-	-	-	Feb.	3	-	1	-	-
Mar.	4	-	-	-	-	Mar.	4	-	-	-	-
Total	17	3	1	0	0	Total	15	1	4	1	0
-----1977/1978-----						-----1978/1979-----					
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~	
Nov.	4	-	-	-	-	Nov.	4	-	-	-	-
Dec.	4	1	-	-	-	Dec.	5	-	-	-	-
Jan.	4	-	-	-	-	Jan.	3	1	-	-	-
Feb.	4	-	-	-	-	Feb.	4	-	-	-	-
Mar.	4	-	-	-	-	Mar.	5	-	-	-	-
Total	20	1	0	0	0	Total	21	1	0	0	0
-----1979/1980-----						-----1980/1981-----					
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~	
Nov.	4	1	-	1	-	Nov.	4	-	-	-	-
Dec.	2	1	-	-	-	Dec.	1	-	3	-	-
Jan.	4	-	-	-	-	Jan.	5	-	-	-	-
Feb.	4	-	-	-	-	Feb.	3	-	1	-	-
Mar.	3	1	-	-	-	Mar.	4	-	-	-	-
Total	17	3	0	1	0	Total	17	0	4	0	0
-----1981/1982-----						-----1982/1983-----					
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~	
Nov.	4	-	-	-	-	Nov.	2	2	-	-	-
Dec.	4	-	-	-	-	Dec.	5	-	-	-	-
Jan.	4	-	1	-	-	Jan.	4	-	-	-	-
Feb.	3	-	1	-	-	Feb.	4	-	-	-	-
Mar.	2	2	-	-	-	Mar.	4	-	-	-	-
Total	17	2	2	0	0	Total	19	2	0	0	0
-----1983/1984-----						-----1984/1985-----					
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~	
Nov.	2	-	2	-	-	Nov.	4	-	1	-	-
Dec.	4	-	1	-	-	Dec.	2	-	2	-	-
Jan.	4	-	-	-	-	Jan.	4	-	-	-	-
Feb.	3	-	1	-	-	Feb.	3	-	1	-	-
Mar.	4	-	1	-	-	Mar.	4	-	1	-	-
Total	17	0	5	0	0	Total	17	0	5	0	0
Rainfall	0~5mm	~10mm	~30mm	~50mm	50mm~	Rainfall	0~5mm	~10mm	~30mm	~50mm 50mm~	
1975/76	17	3	1	0	0	1980/81	17	0	4	0	0
1976/77	15	1	4	1	0	1981/82	17	2	2	0	0
1977/78	20	1	0	0	0	1982/83	19	2	0	0	0
1978/79	21	1	0	0	0	1983/84	17	0	5	0	0
1979/80	17	3	0	1	0	1984/85	17	0	5	0	0
Total	177	13	21	2	0	Total	177	13	21	2	0
Average	17.7	1.3	2.1	0.2	0	Average	17.7	1.3	2.1	0.2	0
		*0.5	*1.5	*2.5	*3.5						
No Workable Days	0	0.7	3.2	0.5	0	No Workable Days	0	0.7	3.2	0.5	0
Workable Days including Friday	121.0 - (21.3 - 4.4) =					Workable Days including Friday	121.0 - (21.3 - 4.4) =				
Average workable days per month	104.1 / 5 =					Average workable days per month	104.1 / 5 =				
	20.8						20.8				
	----> 21 days						----> 21 days				

TABLE E. 2. 1-3 WORKING SCHEDULE OF DETAILED DESIGN OF THE PROJECT

Work Description/Item	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	Remark	
1. Survey/Investigation															
(1) Aero-photograph/mapping															
- Photograph taking															
- Ground control survey															
- Mapping for 1/10,000															
- Mapping for 1/2,000															
(2) Topographic-survey															
- Major facilities															
- Canal (main, 2nd and 3rd)															
- On-farm level															
(3) Cadastral survey															
- For facilities/canals															
- For land consolidation															
(4) Geologic investigation															
- For major facilities															
- For canal structures															
2. Detailed Design															
(1) Amol diversion dam															
(2) Main canal															
- Main irrigation canal															
- Main drainage canals															
(3) Secondary/tertiary															
- Haraz West District															
- Haraz East District															
- Amol West District															
- Amol East District															
(4) Land consolidation															
- Haraz West District															
- Haraz East District															
- Amol West District															
(5) River training															
- Babel river															
- Alesh river															
- Kari Rud related															
(6) O & M road															
- Haraz West District															
- Haraz East District															
- Amol West District															
- Amol East District															
(7) Miscellaneous															
- Building/motor pool															

E. 2. 2 Cost Estimate and Disbursement Schedule

1. Components of the Project Cost

Project costs consist of the following component such as,

(1) Construction Works

- Storage Dam : Mangol Dam
- Diversion Dam : Haraz D.D., Amol D.D.
- Main Irrigation Canal and Drain
- Secondary Canal
- Tertiary Canal
- Land Consolidation : Including pond improvement, sharrow well and under drainage
- River Training
- Operation and Maintenance Road

(2) Procurement of Construction Equipment for Land Consolidation

(3) Survey and Investigation

(4) Detail Design and Construction Supervision

(5) Office Building and Motor Pool

(6) Land Acquisition and Compensation

(7) Operation and Maintenance Equipment

(8) Administration Cost

(9) Physical Contingency

(10) Price Escalation

The manner of cost estimates for construction works shall be made by multiplying unit costs and work quantities based on preliminary design of the proposed facilities to be newly constructed and or improved. Estimation method for the cost other than the construction work is made based on the proposed working schedule, scale of activities and past experiences.

2. Summary of Respective Costs

The construction costs shall be divided into foreign currency and local currency component, and estimated by each districts and or sub-districts basis. The tentative project implementation plan indicates in the Table E.2.2-1.

Sub-district wise project costs are tabulated in the Table-E.2.2-2 to E.2.2-12.

Cost breakdown in accordance with disbursement schedule is output in the Table E.2.2-13.

3. Preliminary Cost Estimates Other than Construction Work

(1) Procurement of Equipment for Land Consolidation

Required number of equipments to be procured can be estimated as follows;

Equipment	Haraz West	Haraz East	Amol West	Amol East	Total
Sharing of peak year	15%	10%	15%	15%	
- 16 ton SW-Bulldozer					
Accumulated Units	563	1,243	504	600	
Peak Year Units	85	125	76	90	376
- 0.6 cu.m Backhoe					
Accumulated Units	167	354	147	177	
Peak Year Units	25	36	22	27	110
- 0.3 cu.m Backhoe					
Accumulated Units	90	211	143	168	
Peak Year Units	14	21	22	25	82
- 10 ton Roadroller					
Accumulated Units	309	606	302	369	
Peak Year Units	46	60	45	55	206
- 3.7 m Grader					
Accumulated Units	247	486	243	296	
Peak Year Units	37	49	37	45	168

Cost for 50% of the above, which consists of 50% rental basis and other 50% contract basis, are estimated as follows:

(Unit: Million Rials)

Equipment	No. of Unit	Foreign Currency		Local Currency		Total
		Unit Cost	Amount	Unit Cost	Amount	Amount
16 ton SW-Bull	188	80	15,040	8	1,504	16,544
0.6 cu.m Backhoe	55	73	4,015	7	385	4,400
0.3 cu.m Backhoe	41	42	1,722	4	164	1,886
10 ton Roadroller	103	43	4,429	4	412	4,841
3.7 m Grader	84	69	5,796	7	588	6,384
Spare Parts	L.S		3,098		247	3,345
Total			34,100		3,300	37,400

(2) Survey and Photo-mapping

1) Aerial Photo-mapping

- Condition of the estimate

* Covered area : approx. 1,200 sq.km

* Mapping scale : 1/2,000 for land consolidation works and canal designing etc.

- Required cost

120,000 ha × 80 \$/ha × 600 RI/\$ = 5,760 Million Rials (M.R.)

2) Canal Alignment Survey

- Main canal : 104 km × 1,200,000 RI/km = 125 M.R.

- Secondary canal : 584 km × 720,000 RI/km = 420 M.R.

- Tertiary canal : 1,200 km × 600,000 RI/km = 720 M.R.

- River and others : 100 km × 1,200,000 RI/km = 120 M.R.

Total

1,385 M.R.

3) Cadastral Survey

- Area to be surveyed : approx. 90,000 ha

- Cost : 90,000 ha × 6,000 RI/ha = 540 M.R.

4) Geological Survey

- Facility to be surveyed : Diversion dam, canals, dikes

- Cost : L.S. approx. 500 M.R.

5) Total Cost Required

(Unit: M.R. = Million Rial)

Item	Total	Foreign Currency	Local Currency
- Aerial photo-mapping	5,760	2,880	2,880
- Canal alignment survey	1,385	-	1,385
- Cadastral survey	540	-	540
- Geological survey	500	-	500
- Miscellaneous	815	-	815
Total	9,000	2,880	6,120

(3) Detailed Design and Construction Supervision

1) Manning Plan

Item	Quantity	Foreign Currency		Local Currency		Total (MM)
		(MM/km or ha)	(MM)	(MM/km or ha)	(MM)	
A. Detailed Design						
- Main canal	110 km	0.5	55	2.0	220	275
- River training	100 km	0.3	30	1.5	150	180
- Secondary canal	600 km	0.3	180	1.5	900	1,080
- Tertiary canal	1,200 km	0.1	120	0.5	600	720
- Diversion dam. other	1 pl		45		200	245
<u>Sub-total</u>			<u>430</u>		<u>2,070</u>	<u>2,500</u>
- Land consolidation						
Type-A	65,000 ha	0.010	650	0.120	7,800	8,450
Type-B	12,000 ha	0.008	96	0.080	960	1,056
<u>Sub-total</u>			<u>746</u>		<u>8,760</u>	<u>9,506</u>
- Tender document	1 LS		34		70	104
<u>Total</u>			<u>1,210</u>		<u>10,900</u>	<u>12,110</u>
B. Construction Supervision						
B. 1 MOE						
- Diversion dam	3 year		36		72	108
- Main Second canal	10 "		160		480	640
- Tertiary canal	10 "		240		1,080	1,320
- River training etc.	5 "		24		248	272
<u>Sub-total</u>			<u>460</u>		<u>1,880</u>	<u>2,340</u>
B. 2 MOA						
- Land consolidation	10 "		240		540	780
- Institutional support	10 "		60		480	540
- Finance/cost recovery	10 "		30		480	510
<u>Sub-total</u>			<u>330</u>		<u>1,500</u>	<u>1,830</u>
<u>Total</u>			<u>790</u>		<u>3,380</u>	<u>4,170</u>
Grand Total			2,000		14,280	16,280

2) Required Cost

Ministry	Foreign Consultant		Iranian Consultant		Total	
	(MM)	(Amount)	(MM)	(Amount)	(MM)	(Amount)
- Ministry of Energy						
Detailed Design	430	4,300	2,070	4,140	2,500	8,440
Construction S.V.	460	4,600	1,880	3,760	2,340	8,360
<u>Total</u>	<u>890</u>	<u>8,900</u>	<u>3,950</u>	<u>7,900</u>	<u>4,840</u>	<u>16,800</u>
- Ministry of Agriculture						
Detailed Design	780	7,800	8,830	17,660	9,610	25,460
Construction S.V.	790	7,900	3,380	6,760	4,170	14,660
<u>Total</u>	<u>1,570</u>	<u>15,700</u>	<u>12,210</u>	<u>24,420</u>	<u>13,780</u>	<u>40,120</u>
Grand Total	2,460	24,600	16,160	32,320	18,620	56,920

(4) Office Building and Motor Pool

1) Office

Ministry of Energy	500 sq.m
Ministry of Agriculture	500 sq.m
District office	800 sq.m = 200 sq.m × 4 units

2) Motor Pool

Land space	: 5 ha
Workshop	: 20 m × 100 m × 2 = 4,000 sq.m
Warehouse	: 20 m × 40 m × 2 = 1,600 sq.m
Dormitory	: 10 m × 40 m = 400 sq.m

3) Required Cost

- Office (A)	: 1,000 sq.m × 100,000 R/sq.m =	100 M.R.
- Office (B)	: 800 sq.m × 80,000 R/sq.m =	64 M.R.
- Workshop	: 4,000 sq.m × 60,000 R/sq.m =	240 M.R.
- Warehouse	: 1,600 sq.m × 60,000 R/sq.m =	96 M.R.
- Dormitory	: 400 sq.m × 80,000 R/sq.m =	32 M.R.
- Land space	: 6 ha × (5 ton/ha × 550,000 R/ton) =	165 M.R.
<u>Total</u>		<u>697 M.R.</u>
- Equipments/materials for Motor Pool		303 M.R.
<u>Grand Total</u>		<u>1,000 M.R.</u>

(5) Land Acquisition

1) Land Required

Land to be purchased for main, secondary and tertiary canals:

800 ha (20% of 4,000 ha)

Land to be compensated for construction works:

2,000 km(long) × 10 m (width) = 2,000 ha

2) Required Cost

- Purchased : 800 ha × 25 M.R./ha = 10,000 M.R.
 - Compensated : 2,000 ha × (5 ton/ha × 550,000 R/ton) = 5,500 M.R.
- Total cost 15,500 M.R.

6) Equipment for Operation and Maintenance

Equipment	Specification	Unit of 4 District	Unit Cost (M.R.)	Amount (M.R.)
Bulldozer	16 ton swampy type	4 × 2 = 8	80	640
Backhoe	0.35 cu.m	4 × 4 = 16	73	1,168
Grader	3.7 m width	4 × 2 = 8	69	552
Dumptruck	11 ton	4 × 4 = 16	44	704
Dumptruck	4 ton	4 × 8 = 32	16	512
Loader	1.5 cu.m	4 × 2 = 8	52	416
Motorcycle	200 cc	4 × 25 = 100	0.5	50
Spareparts		L. S		458
<u>Total</u>				<u>5,000</u>
			F.C.	4,500
			L.C.	500

- 3 - 7 Administration 5% of construction cost
- 3 - 8 Physical Contingency 10% of construction cost
- 3 - 9 Price Escalation Annual escalation rate:
 - 4.8% for foreign currency
 - 15.5% for local currency

TABLE E. 2.2-1 PROJECT IMPLEMENTATION SCHEDULE (1/3)

Work Description/Item	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
(A) Construction Works														
1. Pre-Construction Stage														
1.1. Survey & Investigation														
- Aero. Photo & Mapping														
- Ground Survey														
- Geological Investigation														
1.2. F/S & Detailed Design														
- D.D. of Amol Diversion D.														
- D.D. of Main Canals														
- D.D. of Secondary Canals														
- D.D. of Tertiary Canals														
- D.D. of River Trainings														
- D.D. of L. Consolidation														
1.3. Const. of Office/M. Pool														
- Main Office for MOE/MOA														
- Motor Pool of Equipment														
2. Construction of Facility														
2.1. Diversion Dam		Completed												
- Haraz Diversion Dam														
- Amol Diversion Dam														
2.2. Main Canal/Rivers		Completed												
- Haraz West Main Canal														
- Haraz East Main Canal														
- Amol West Main Canal														
- Amol East Main Canal														
- Kari Rud Main Canal														
- Amol West Main Drain														
- Amol East Main Drain														
- Ferdonkenal Main Drain														
3. Haraz West District														
- Secondary Canal														
- Tertiary Canal														
- Land Consolidation														
- Miscellaneous														

TABLE E.2.2-1 PROJECT IMPLEMENTATION SCHEDULE (2/3)

Work Description/Item	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<u>4. Haraz East District (I)</u> - Secondary Canal - Tertiary Canal - Land Consolidation - Miscellaneous														
<u>5. Haraz East District (II)</u> - Secondary Canal - Tertiary Canal - Land Consolidation - Miscellaneous														
<u>6. Haraz East District (III)</u> - Secondary Canal - Tertiary Canal - Land Consolidation - Miscellaneous														
<u>7. Amol West District (I)</u> - Secondary Canal - Tertiary Canal - Land Consolidation - Miscellaneous														
<u>8. Amol West District (II)</u> - Secondary Canal - Tertiary Canal - Land Consolidation - Miscellaneous														
<u>9. Amol East District (I)</u> - Secondary Canal - Tertiary Canal - Land Consolidation - Miscellaneous														
<u>10. Amol East District (II)</u> - Secondary Canal - Tertiary Canal - Land Consolidation - Miscellaneous														

TABLE E. 2.2-1 PROJECT IMPLEMENTATION SCHEDULE (3/3)

Work Description/Item	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<u>11. Amol East District (III)</u> - Secondary Canal - Tertiary Canal - Land Consolidation - Miscellaneous														
<u>(B) Institutional Development</u> 1. Preparation of Act for Land Consolidation Work 2. Campaign for: Land Consolidation Work Livestock Promotion 3. Establishment of: Livestock Breeding Station Milk Collecting System 4. Establishment of: Land Consolidation District Irrigator's Association Joint Farming District 5. Introduction of: Joint Paddy Nursery Paddy/Hay Drying System Farm Mechanizing System														

TABLE E. 2.2-2 PROJECT COST BY SUB - DISTRICT BASIS (WITH MANGOL DAM)

Work Description / Item	Overall	HW	HE-I	HE-II	HE-III	AW-I	AW-II	AE-I	AE-II	AE-III
1. Construction Cost										
1.1 Storage Dam	510,001	71,683	73,958	57,312	29,848	36,821	80,388	39,761	49,527	70,703
1.2 Diversion Dam	4,580	948	978	758	395	200	435	215	268	383
1.3 Main Canal / Drain	17,303	820	1,925	1,546	432	1,441	2,965	2,060	2,429	3,685
1.4 Secondary Canal	37,306	9,910	9,386	2,112	2,829	1,084	5,329	2,678	2,298	1,730
1.5 Tertiary Canal	25,747	5,810	4,403	2,588	1,513	1,781	3,734	909	1,014	3,995
1.6 Land Consolidation	207,878	32,479	36,012	23,712	13,363	16,578	17,447	15,299	17,956	35,032
1.7 River Training	3,769	793	387	300	156	407	889	208	259	370
1.8 O / M Road	3,036	367	400	351	148	221	548	270	344	387
- Sub-Total(1) -	809,620	122,810	127,399	88,679	48,684	58,533	111,735	61,400	74,095	116,285
2. Procurement of Equipment	37,400	5,236	5,610	4,114	2,244	2,618	5,984	2,992	3,740	4,862
3. Survey & Investigation	9,086	1,363	1,182	1,000	450	819	1,363	727	819	1,363
4. D. Design and Supervision	64,420	9,019	9,663	7,086	3,865	4,509	10,307	5,154	6,442	8,375
5. Building / Motor Pool	1,000	140	150	110	60	70	160	80	100	130
6. Land Acquisition and Compensation	21,250	3,130	2,877	2,337	1,120	1,798	3,245	1,700	1,970	3,073
7. O & M Equipment	5,000	750	650	550	250	450	750	400	450	750
8. Administration (5 % of 1.)	40,480	6,140	6,370	4,434	2,434	2,927	5,586	3,070	3,705	5,814
9. Physical Contingency (10 % of 1.)	80,964	12,282	12,740	8,868	4,868	5,854	11,174	6,140	7,409	11,629
- Total(1 ~ 9) -	1,069,220	160,870	166,641	117,178	63,975	77,578	150,304	81,663	98,730	152,281
10. Price Escalation	2,908,064	362,955	383,488	273,466	168,781	192,233	379,590	204,561	245,805	397,862
- Total(1 ~ 10) -	3,977,284	523,825	550,129	390,644	232,756	269,811	529,894	286,224	344,535	550,143

Note: HW: Haraz West, HE: Haraz East, AW: Amol West, AE: Amol East

TABLE E. 2. 2-3 PROJECT COST BY SUB - DISTRICT BASIS (WITHOUT MANGOL DAM)

Work Description / Item	Overall	HW	HE-I	HE-II	HE-III	AW-I	AW-II	AE-I	AE-II	AE-II
1. Construction Cost										
1.1 Storage Dam	0	0	0	0	0	0	0	0	0	0
1.2 Diversion Dam	4,580	948	978	758	395	200	435	215	268	383
1.3 Main Canal / Drain	17,303	820	1,925	1,546	432	1,441	2,965	2,060	2,429	3,685
1.4 Secondary Canal	37,306	9,910	9,336	2,112	2,829	1,084	5,329	2,678	2,298	1,730
1.5 Tertiary Canal	25,747	5,810	4,403	2,886	1,513	1,781	3,734	909	1,014	3,995
1.6 Land Consolidation	207,878	32,479	36,012	23,712	13,363	16,578	17,447	15,299	17,956	35,032
1.7 River Training	3,769	793	387	300	156	407	889	208	259	370
1.8 O / M Road	3,036	367	400	351	148	221	548	270	344	387
- HW Sub - Total (1) -	299,619	51,127	53,441	31,367	18,836	21,712	31,347	21,639	24,568	45,582
2. Procurement of Equipment	37,400	5,236	5,610	4,114	2,244	2,618	5,984	2,992	3,740	4,862
3. Survey & Investigation	9,000	1,350	1,170	990	450	810	1,350	720	810	1,350
4. D. Design and Supervision	56,920	7,969	8,538	6,261	3,415	3,984	9,107	4,554	5,692	7,400
5. Building / Motor Pool	1,000	140	150	110	60	70	160	80	100	130
6. Land Acquisition and Compensation	15,500	2,325	2,015	1,705	775	1,395	2,325	1,240	1,395	2,325
7. O & M Equipment	5,000	750	650	550	250	450	750	400	450	750
8. Administration (5% of 1.)	14,983	2,557	2,672	1,569	942	1,085	1,568	1,082	1,229	2,279
9. Physical Contingency (10% of 1.)	29,963	5,113	5,344	3,137	1,883	2,172	3,135	2,164	2,457	4,558
- Total (1 ~ 9) -	469,385	76,567	79,590	49,803	28,855	34,296	55,726	34,871	40,441	69,236
10. Price Escalation	1,063,898	146,407	159,924	100,329	78,023	80,610	135,534	83,924	95,514	183,583
- Total (1 ~ 10) -	1,533,283	222,974	239,514	150,132	106,878	114,906	191,310	118,795	135,955	252,819

Note: HW: Haraz West, HE: Haraz East, AW: Amol West, AE: Amol East

TABLE E. 2. 2-4 PROJECT COST OF HARAZ WEST DISTRICT (HW-I)

(Unit: Million Rial)

Description	Foreign Currency	Local Currency	Total Amount
1. Construction Work			
	(43,010)	(28,673)	(71,683)
1.1 Mangol Dam	0	0	0
1.2 Diversion Dam	379	569	948
1.3 Main Canal	567	253	820
1.4 Secondary Canal	3,913	5,997	9,910
1.5 Tertiary Canal	1,628	4,182	5,810
1.6 Land Consolidation	24,228	8,251	32,479
1.7 River Training	691	102	793
1.8 O & M Road	349	18	367
	(74,765)	(48,045)	(122,810)
Sub-Total	31,755	19,372	51,127
2. Procurement of C. E.	4,774	462	5,236
	(436)	(927)	(1,363)
3. Survey/Investigation	432	918	1,350
	(4,144)	(4,875)	(9,019)
4. Detailed D./Const. Sv.	3,444	4,525	7,969
	(56)	(84)	(140)
5. Building/Motor Pool	56	84	140
	(0)	(3,130)	(3,130)
6. Land Acquisition	0	2,325	2,325
	(675)	(75)	(750)
7. O & M Equipment	675	75	750
	(3,738)	(2,402)	(6,140)
8. Administration	1,588	969	2,557
	(7,477)	(4,805)	(12,282)
9. Physical Contingency	3,176	1,937	5,113
	(96,065)	(64,805)	(160,870)
Total (1 - 9)	45,900	30,667	76,567
	(143,283)	(219,672)	(362,955)
10. Price Escalation	64,731	81,676	146,407
	(239,348)	(284,477)	(523,825)
Total (1 - 10)	110,631	112,343	222,974

Note: Figure in parenthesis indicates the cost of "With Mangol Dam"

TABLE E. 2. 2-5 PROJECT COST OF HARAZ EAST DISTRICT (HE-1)

(Unit: Million Rial)

Description	Foreign Currency	Local Currency	Total Amount
1. Construction Work			
	(44,375)	(29,583)	(73,958)
1.1 Mangol Dam	0	0	0
1.2 Diversion Dam	391	587	978
1.3 Main Canal	906	557	1,463
1.4 Secondary Canal	4,161	5,175	9,336
1.5 Tertiary Canal	1,316	3,087	4,403
1.6 Land Consolidation	25,413	10,599	36,012
1.7 River Training	271	116	387
1.8 O & M Road	380	20	400
	(77,504)	(49,895)	(127,399)
Sub-Total	33,129	20,312	53,441
2. Procurement of C. E.	5,115	495	5,610
	(378)	(804)	(1,182)
3. Survey/Investigation	374	796	1,170
	(4,440)	(5,223)	(9,663)
4. Detailed D./Const. Sv.	3,690	4,848	8,538
	(60)	(90)	(150)
5. Building/Motor Pool	60	90	150
	(0)	(2,877)	(2,877)
6. Land Acquisition	0	2,015	2,015
	(585)	(65)	(650)
7. O & M Equipment	585	65	650
	(3,875)	(2,495)	(6,370)
8. Administration	1,656	1,016	2,672
	(7,750)	(4,990)	(12,740)
9. Physical Contingency	3,313	2,031	5,344
	(99,707)	(66,934)	(166,641)
Total (1 - 9)	47,922	31,668	79,590
	(149,574)	(233,914)	(383,488)
10. Price Escalation	68,486	91,438	159,924
	(249,281)	(300,848)	(550,129)
Total (1 - 10)	116,408	123,106	239,514

Note: Figure in parenthesis indicates the cost of "With Mangol Dam"

TABLE E. 2. 2-6 PROJECT COST OF HARAZ EAST DISTRICT (HE-II)

(Unit: Million Rial)

Description	Foreign Currency	Local Currency	Total Amount
1. Construction Work			
	(34,387)	(22,925)	(57,312)
1.1 Mangol Dam	0	0	0
1.2 Diversion Dam	303	455	758
1.3 Main Canal	744	443	1,187
1.4 Secondary Canal	1,076	1,036	2,112
1.5 Tertiary Canal	1,147	1,441	2,588
1.6 Land Consolidation	15,757	7,955	23,712
1.7 River Training	210	90	300
1.8 O & M Road	334	17	351
	(54,184)	(34,495)	(88,679)
Sub-Total	30,080	19,723	49,803
2. Procurement of C. E.	3,751	363	4,114
	(320)	(680)	(1,000)
3. Survey/Investigation	317	673	990
	(3,256)	(3,830)	(7,086)
4. Detailed D./Const. Sv.	2,706	3,555	6,261
	(44)	(66)	(110)
5. Building/Motor Pool	44	66	110
	(0)	(2,337)	(2,337)
6. Land Acquisition	0	1,705	1,705
	(495)	(55)	(550)
7. O & M Equipment	495	55	550
	(2,709)	(1,725)	(4,434)
8. Administration	990	579	1,569
	(5,418)	(3,450)	(8,868)
9. Physical Contingency	1,980	1,157	3,137
	(70,177)	(47,001)	(117,178)
Total (1 - 9)	30,080	19,723	49,803
	(105,691)	(167,775)	(273,466)
10. Price Escalation	42,898	57,431	100,329
	(175,868)	(214,776)	(390,644)
Total (1 - 10)	72,978	77,154	150,132

Note: Figure in parenthesis indicates the cost of "With Mangol Dam"

TABLE E. 2. 2-7 PROJECT COST OF HARAZ EAST DISTRICT (HE-III)

(Unit: Million Rial)

Description	Foreign Currency	Local Currency	Total Amount
1. Construction Work	(17,909)	(11,939)	(29,848)
1.1 Mangol Dam	0	0	0
1.2 Diversion Dam	158	237	395
1.3 Main Canal	92	153	245
1.4 Secondary Canal	1,451	1,378	2,829
1.5 Tertiary Canal	542	971	1,513
1.6 Land Consolidation	8,522	4,841	13,363
1.7 River Training	109	47	156
1.8 O & M Road	141	7	148
Sub-Total	(29,042)	(19,642)	(48,684)
	11,133	7,703	18,836
2. Procurement of C. E.	2,046	198	2,244
	(144)	(306)	(450)
3. Survey/Investigation	144	306	450
	(1,766)	(2,089)	(3,865)
4. Detailed D./Const. Sv.	1,476	1,939	3,415
	(24)	(36)	(60)
5. Building/Motor Pool	24	36	60
	(0)	(1,120)	(1,120)
6. Land Acquisition	0	775	775
	(225)	(25)	(250)
7. O & M Equipment	225	25	250
	(1,452)	(982)	(2,434)
8. Administration	557	385	942
	(2,904)	(1,964)	(4,868)
9. Physical Contingency	1,113	770	1,883
	(37,613)	(26,362)	(63,975)
Total (1 - 9)	16,718	12,137	28,855
	(59,564)	(109,127)	(168,781)
10. Price Escalation	26,787	51,236	78,023
	(97,177)	(135,579)	(232,756)
Total (1 - 10)	43,505	63,373	106,878

Note: Figure in parenthesis indicates the cost of "With Mangol Dam"

TABLE E. 2. 2-8 PROJECT COST OF AMOL WEST DISTRICT (AW-I)

(Unit: Million Rial)

Description	Foreign Currency	Local Currency	Total Amount
1. Construction Work			
	(22,093)	(14,728)	(36,821)
1.1 Mangol Dam	0	0	0
1.2 Diversion Dam	80	120	200
1.3 Main Canal	625	816	1,441
1.4 Secondary Canal	516	568	1,084
1.5 Tertiary Canal	785	996	1,781
1.6 Land Consolidation	11,714	4,864	16,578
1.7 River Training	355	52	407
1.8 O & M Road	210	11	221
	(36,378)	(22,155)	(58,533)
Sub-Total	14,285	7,427	21,712
2. Procurement of C. E.	2,387	231	2,618
	(262)	(557)	(819)
3. Survey/Investigation	259	551	810
	(2,072)	(2,437)	(4,509)
4. Detailed D./Const. Sv.	1,722	2,262	3,984
	(28)	(42)	(70)
5. Building/Motor Pool	28	42	70
	(0)	(1,798)	(1,798)
6. Land Acquisition	0	1,395	1,395
	(405)	(45)	(450)
7. O & M Equipment	405	45	450
	(1,819)	(1,108)	(2,927)
8. Administration	714	371	1,085
	(3,638)	(2,216)	(5,854)
9. Physical Contingency	1,429	743	2,172
	(46,989)	(30,589)	(77,578)
Total (1 - 9)	21,229	13,067	34,296
	(73,259)	(118,974)	(192,233)
10. Price Escalation	32,872	47,738	80,610
	(120,248)	(149,563)	(269,811)
Total (1 - 10)	54,101	60,805	114,906

Note: Figure in parenthesis indicates the cost of "With Mangol Dam"

TABLE E. 2. 2-9 PROJECT COST OF AMOL WEST DISTRICT (AW-II)

(Unit: Million Rial)

Description	Foreign Currency	Local Currency	Total Amount
1. Construction Work			
	(48,233)	(32,155)	(80,388)
1.1 Mangol Dam	0	0	0
1.2 Diversion Dam	174	261	435
1.3 Main Canal	1,226	1,739	2,965
1.4 Secondary Canal	2,081	3,248	5,329
1.5 Tertiary Canal	1,637	2,097	3,734
1.6 Land Consolidation	13,501	3,946	17,447
1.7 River Training	775	114	889
1.8 O & M Road	521	27	548
	(68,148)	(43,587)	(111,735)
Sub-Total	19,915	11,432	31,347
2. Procurement of C. E.	5,456	528	5,984
	(436)	(927)	(1,363)
3. Survey/Investigation	432	918	1,350
	(4,736)	(5,571)	(10,307)
4. Detailed D./Const. Sv.	3,936	5,171	9,107
	(64)	(96)	(160)
5. Building/Motor Pool	64	96	160
	(0)	(3,245)	(3,245)
6. Land Acquisition	0	2,325	2,325
	(675)	(75)	(750)
7. O & M Equipment	675	75	750
	(3,407)	(2,179)	(5,586)
8. Administration	996	572	1,568
	(6,815)	(4,359)	(11,174)
9. Physical Contingency	1,992	1,143	3,135
	(89,737)	(60,567)	(150,304)
Total (1 - 9)	33,466	22,260	55,726
	(140,522)	(239,068)	(379,590)
10. Price Escalation	52,279	83,305	135,584
	(230,259)	(299,635)	(529,894)
Total (1 - 10)	85,745	105,565	191,310

Note: Figure in parenthesis indicates the cost of "With Mangol Dam"

TABLE E.2.2-10 PROJECT COST OF AMOL EAST DISTRICT (AE-I)

(Unit: Million Rial)

Description	Foreign Currency	Local Currency	Total Amount
1. Construction Work			
	(23,857)	(15,904)	(39,761)
1.1 Mangol Dam	0	0	0
1.2 Diversion Dam	86	129	215
1.3 Main Canal	794	845	1,639
1.4 Secondary Canal	1,265	1,413	2,678
1.5 Tertiary Canal	331	578	909
1.6 Land Consolidation	10,365	4,934	15,299
1.7 River Training	146	62	208
1.8 O & M Road	257	13	270
	(37,400)	(24,000)	(61,400)
Sub-Total	13,543	8,096	21,639
2. Procurement of C. E.	2,728	264	2,992
	(232)	(495)	(727)
3. Survey/Investigation	230	490	720
	(2,368)	(2,786)	(5,154)
4. Detailed D./Const. Sv.	1,968	2,586	4,554
	(32)	(48)	(80)
5. Building/Motor Pool	32	48	80
	(0)	(1,700)	(1,700)
6. Land Acquisition	0	1,240	1,240
	(360)	(40)	(400)
7. O & M Equipment	360	40	400
	(1,870)	(1,200)	(3,070)
8. Administration	677	405	1,082
	(3,740)	(2,400)	(6,140)
9. Physical Contingency	1,354	810	2,164
	(48,730)	(32,933)	(81,633)
Total (1 - 9)	20,892	13,979	34,871
	(75,882)	(128,679)	(204,561)
10. Price Escalation	32,242	51,682	83,924
	(124,612)	(161,612)	(286,224)
Total (1 - 10)	53,134	65,661	118,795

Note: Figure in parenthesis indicates the cost of "With Mangol Dam"

TABLE E. 2. 2-11 PROJECT COST OF AMOL EAST DISTRICT (AE-II)

(Unit: Million Rial)

Description	Foreign Currency	Local Currency	Total Amount
1. Construction Work			
	(29,716)	(19,811)	(49,527)
1.1 Mangol Dam	0	0	0
1.2 Diversion Dam	107	161	268
1.3 Main Canal	928	1,037	1,965
1.4 Secondary Canal	1,544	754	2,298
1.5 Tertiary Canal	377	637	1,014
1.6 Land Consolidation	12,203	5,753	17,956
1.7 River Training	181	78	259
1.8 O & M Road	327	17	344
	(45,712)	(28,383)	(74,095)
Sub-Total	15,996	8,572	24,568
2. Procurement of C. E.	3,410	330	3,740
	(262)	(557)	(819)
3. Survey/Investigation	259	551	810
	(2,960)	(3,482)	(6,442)
4. Detailed D./Const. Sv.	2,460	3,232	5,692
	(40)	(60)	(100)
5. Building/Motor Pool	40	60	100
	(0)	(1,970)	(1,970)
6. Land Acquisition	0	1,395	1,395
	(405)	(45)	(450)
7. O & M Equipment	405	45	450
	(2,286)	(1,419)	(3,705)
8. Administration	800	429	1,229
	(4,571)	(2,838)	(7,409)
9. Physical Contingency	1,600	857	2,457
	(59,646)	(39,084)	(98,730)
Total (1 - 9)	24,970	15,471	40,441
	(92,828)	(152,977)	(245,805)
10. Price Escalation	38,466	57,048	95,514
	(152,474)	(192,061)	(344,535)
Total (1 - 10)	63,436	72,519	135,955

Note: Figure in parenthesis indicates the cost of "With Mangol Dam"

TABLE E. 2. 2-12 PROJECT COST OF AMOL EAST DISTRICT (AE-III)

(Unit: Million Rial)

Description	Foreign Currency	Local Currency	Total Amount
1. Construction Work			
	(42,422)	(28,281)	(70,703)
1.1 Mangol Dam	0	0	0
1.2 Diversion Dam	153	230	383
1.3 Main Canal	1,421	1,506	2,927
1.4 Secondary Canal	1,090	640	1,730
1.5 Tertiary Canal	2,098	1,897	3,995
1.6 Land Consolidation	21,211	13,821	35,032
1.7 River Training	259	111	370
1.8 O & M Road	368	19	387
	(69,560)	(46,725)	(116,285)
Sub-Total	27,138	18,444	45,582
2. Procurement of C. E.	4,433	429	4,862
	(436)	(927)	(1,363)
3. Survey/Investigation	432	918	1,350
	(3,848)	(4,527)	(8,375)
4. Detailed D./Const. Sv.	3,198	4,202	7,400
	(52)	(78)	(130)
5. Building/Motor Pool	52	78	130
	(0)	(3,073)	(3,073)
6. Land Acquisition	0	2,325	2,325
	(675)	(75)	(750)
7. O & M Equipment	675	75	750
	(3,478)	(2,336)	(5,814)
8. Administration	1,357	922	2,279
	(6,956)	(4,673)	(11,629)
9. Physical Contingency	2,714	1,844	4,558
	(89,438)	(62,843)	(152,281)
Total (1 - 9)	39,999	29,237	69,236
	(140,975)	(256,887)	(397,862)
10. Price Escalation	63,451	120,132	183,583
	(230,413)	(319,730)	(550,143)
Total (1 - 10)	103,450	149,369	252,819

Note: Figure in parenthesis indicates the cost of "With Mangol Dam"

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item		Annual Disbursement Schedule														
		1983			1984			1985			1986			1989		
Total		Fin.F.C.	Fin.L.C.	Eco.L.C.	Fin.F.C.	Fin.L.C.	Eco.L.C.	Fin.F.C.	Fin.L.C.	Eco.L.C.	Fin.F.C.	Fin.L.C.	Eco.L.C.	Fin.F.C.	Fin.L.C.	Eco.L.C.
x Million Rs		%			%			%			%			%		
Total (A~I)		638.102	431.118	1.069.220	0	0	0	4.937	5.332	10.459	2.245	8.263	10.508	2.245	8.263	10.508
		636.119	352.516	986.635	0	0	0	2.951	2.956	5.009	2.245	6.311	8.856	2.245	6.311	8.856
J. Price Contingency		1.029.692	1.879.372	2.903.064	0	0	0	5.683	8.524	14.207	2.708	14.705	17.413	2.708	14.705	17.413
F.C. 4.8 %		1.021.415	1.548.997	2.570.412	0	0	0	3.397	3.171	6.566	2.708	11.765	14.473	2.708	11.765	14.473
L.C. 15.5 %																
Grand Total		1.666.794	2.310.490	3.977.284	0	0	0	10.620	14.056	24.675	4.953	22.968	27.921	4.953	22.968	27.921
		1.657.534	1.901.513	3.559.047	0	0	0	6.348	5.229	11.577	4.953	13.376	23.329	4.953	13.376	23.329
Total (A~I)		11.389	11.833	23.202	20.925	18.113	39.036	53.553	47.091	110.554	77.801	47.512	125.313	77.801	47.512	125.313
		11.389	9.363	20.732	20.925	14.859	35.784	53.553	38.030	101.593	77.801	39.219	117.020	77.801	39.219	117.020
J. Price Contingency		14.372	24.322	36.694	27.723	43.001	70.724	88.354	129.125	217.379	113.208	150.473	233.581	113.208	150.473	233.581
F.C. 4.8 %		14.372	19.245	33.617	27.723	35.276	62.999	88.354	104.260	192.534	113.208	124.207	237.415	113.208	124.207	237.415
L.C. 15.5 %																
Grand Total		25.741	36.155	61.895	48.648	61.114	109.762	151.917	176.215	328.932	191.009	187.985	382.954	191.009	187.985	382.954
		25.741	28.608	54.349	48.648	50.135	58.763	151.917	142.310	294.127	191.009	163.425	354.435	191.009	163.425	354.435

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2000			2001			2002			2003		
	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %
Total (A~I)	87.525	58.304	145.829	87.312	57.487	144.799	85.785	54.934	140.719	83.623	52.824	136.447
	87.525	47.955	135.480	87.312	47.483	134.795	85.795	45.513	131.288	83.623	43.748	127.371
J. Price Contingency	133.470	213.273	346.743	139.536	242.879	382.415	143.876	286.087	411.743	146.778	297.725	444.503
	133.470	175.417	308.887	139.536	200.613	340.149	143.876	222.094	365.770	146.778	246.571	392.349
Grand Total	220.995	271.577	492.572	226.848	300.366	527.214	229.461	322.001	552.462	230.401	350.549	580.950
	220.995	223.372	444.367	226.848	248.095	474.944	229.461	267.507	497.068	230.401	290.319	520.720

	2000			2005			2005			2005		
Work Description/Item	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %
Total (A~I)	59.239	36.526	95.765	47.812	30.033	77.845	6.011	2.728	8.739	6.011	2.573	8.584
	59.239	30.470	89.709	47.812	24.693	72.505	6.011	2.573	8.584	6.011	2.573	8.584
J. Price Contingency	108.969	237.776	346.745	92.171	225.812	317.983	12.144	23.690	35.834	12.144	23.690	35.834
	103.978	196.393	302.331	92.171	185.661	277.832	12.144	22.344	34.488	12.144	22.344	34.488
Grand Total	158.208	274.302	442.510	139.983	255.845	395.828	18.155	25.418	44.573	18.155	25.418	44.573
	153.217	228.623	392.040	139.983	210.354	350.337	18.155	24.917	43.072	18.155	24.917	43.072

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	Total			1993			1994			1995		
	Fin.F.C. Eco.F.C.	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. Eco.F.C.	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. Eco.F.C.	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. Eco.F.C.	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total
A. Hazrat West District												
1. Construction Cost												
1.1. Storage Dam	43,010	28,573	71,583	0	0	0	100	379	569	948	948	0
1.2. Diversion Dam	43,010	22,938	65,948	0	0	0	100	567	223	820	790	0
1.3. Main Canal/Drain	567	253	820	567	253	820	100	567	223	820	790	0
1.4. Secondary Canal	3,913	5,997	9,910	3,913	5,997	9,910						
1.5. Tertiary Canal	1,628	4,182	5,810	1,628	4,182	5,810						
1.6. Land Consolidation	24,228	3,011	4,639	24,228	3,011	4,639						
1.7. River Training	24,228	7,891	32,119	24,228	7,891	32,119						
1.8. O/M Road	691	102	793	691	102	793						
1.9. Miscellaneous	891	144	835	891	144	835						
- HW Sub-Total (1) -	74,755	48,045	122,810	0	0	0	0	946	822	1,759	790	0
2. Procurement of Equipment	4,774	462	5,236	4,774	462	5,236						
3. Survey & Investigation	4,774	370	5,144	4,774	370	5,144						
4. D.D. and Supervision	436	527	1,863	436	527	1,863	50	218	464	582	50	682
5. Building/Motor Pool	436	742	1,178	436	742	1,178	5	218	371	589	5	594
6. Land Acquisition and Compensation	4,144	4,875	9,019	4,144	4,875	9,019						
7. O & M Equipment	4,144	3,500	8,044	4,144	3,500	8,044	20	11	17	26	50	70
8. Administration (% of 1.)	56	84	140	56	84	140		11	13	24	50	82
9. Physical Contingency (% of 1.)	56	56	112	56	56	112		11	13	24	50	82
- HW - Total (1-9) -	56,055	64,805	120,860	56,055	64,805	120,860		1,317	1,426	2,743	483	2,768
10. Price Contingency	95,529	52,424	147,953	95,529	52,424	147,953		881	660	1,521	453	2,305
F.C. 4.8 %	143,283	219,672	362,955	143,283	219,672	362,955		1,446	1,902	3,348	521	4,088
L.C. 15.5 %	142,805	179,131	321,936	142,805	179,131	321,936		988	854	1,822	521	3,375
Total	238,348	284,477	522,825	238,348	284,477	522,825		2,783	3,328	5,091	974	5,855
	238,434	231,555	469,989	238,434	231,555	469,989		1,849	1,494	3,343	974	4,706

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	1986				1987				1988				1989			
	x Million Rls				x Million Rls				x Million Rls				x Million Rls			
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%
A. Haraz West District																
1. Construction Cost																
1.1. Storage Dam																
1.2. Diversion Dam																
1.3. Main Canal/Drain																
1.4. Secondary Canal	20	783	1,199	1,982 20	783	1,199	1,982 20	783	1,199	1,982 20	783	1,199	1,982 20	783	1,199	1,982 20
1.5. Tertiary Canal	15	244	627	871 15	244	627	871 15	244	627	871 15	244	627	871 15	244	627	871 15
1.6. Land Consolidation																
1.7. River Training																
1.8. O/H Road																
1.9. Miscellaneous																
- HW Sub-Total (1) -		1,027	1,826	2,853	1,027	1,826	2,853	1,027	1,826	2,853	1,027	1,826	2,853	1,027	1,826	2,853
2. Procurement of Equipment	50	2,387	231	2,618 50	2,387	231	2,618 50	2,387	231	2,618 50	2,387	231	2,618 50	2,387	231	2,618 50
3. Survey & Investigation																
4. D.N. and Supervision	10	414	486	902 20	414	486	902 20	414	486	902 20	414	486	902 20	414	486	902 20
5. Building/Motor Pool	30	17	25	42	17	25	42	17	25	42	17	25	42	17	25	42
6. Land Acquisition and Compensation	50	0	1,565	1,565	0	1,565	1,565	0	1,565	1,565	0	1,565	1,565	0	1,565	1,565
7. O & M Equipment																
8. Administration (% of 1.)	5%	51	91	142	178	133	311	460	308	768	460	308	768	460	308	768
9. Physical Contingency (% of 1.)	10%	103	163	266	355	266	621	920	616	1,536	920	616	1,536	920	616	1,536
- HW Total (1-9) -		3,998	4,409	8,408	7,303	4,268	11,571	11,408	8,057	19,466	11,202	7,813	19,015	11,202	7,813	19,015
10. Price Contingency		3,999	3,449	7,448	7,303	3,494	10,797	11,409	6,586	17,984	11,202	6,390	17,592	11,202	6,390	17,592
F.C. 4.8%		4,824	7,848	12,670	9,232	8,773	18,005	15,115	19,128	34,243	15,553	21,424	36,977	15,553	21,424	36,977
L.C. 15.5%		4,824	6,138	10,962	9,232	7,182	16,414	15,115	15,633	30,748	15,553	17,522	33,075	15,553	17,522	33,075
Total		8,823	12,255	21,078	16,535	13,041	29,576	28,524	27,185	55,709	28,524	27,185	55,709	28,524	27,185	55,709
		8,823	9,587	18,410	16,535	10,676	27,211	26,524	22,218	48,742	26,524	22,218	48,742	26,524	22,218	48,742

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2000			2001			2002			2003		
	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total
A. Haraz West District												
1. Construction Cost												
1.1. Storage Dam	15	6,452	4,301	10,753	15	6,452	4,301	10,753	15	6,452	4,301	10,753
		6,452	3,441	9,893		6,452	3,441	9,893		6,452	3,441	9,893
1.2. Diversion Dam												
1.3. Main Canal/Drain												
1.4. Secondary Canal	20	783	1,199	1,982								
		783	941	1,724								
1.5. Tertiary Canal	15	244	627	871	15	244	627	871	15	244	627	871
		244	452	696		244	452	696		244	452	696
1.6. Land Consolidation	15	3,634	1,238	4,872	15	3,634	1,238	4,872	15	3,634	1,238	4,872
		3,634	1,184	4,818		3,634	1,184	4,818		3,634	1,184	4,818
1.7. River Training	15	104	15	119	15	104	15	119	15	104	15	119
		104	22	126		104	22	126		104	22	126
1.8. O/M Road	15	52	3	55	15	52	3	55	15	52	3	55
		52	5	57		52	5	57		52	5	57
1.9. Miscellaneous	15	0	0	0	15	0	0	0	15	0	0	0
		0	0	0		0	0	0		0	0	0
- HW Sub-Total (1) -		11,269	7,383	18,652		10,486	6,184	16,670		10,242	5,557	15,799
		11,269	6,045	17,314		10,486	5,104	15,590		10,242	4,652	14,894
2. Procurement of Equipment												
3. Survey & Investigation												
4. D.B. and Supervision	10	414	488	902	10	414	488	902	5	207	244	451
		414	390	804		414	390	804		207	195	402
5. Building/Motor Pool												
6. Land Acquisition and Compensation												
7. O & M Equipment									50	338	38	376
										338	30	368
8. Administration (% of 1.)	5 %	563	369	932		524	309	833		512	278	790
		563	302	865		524	255	779		512	233	745
9. Physical Contingency (% of 1.)	10 %	1,127	738	1,865		1,049	518	1,567		1,024	556	1,580
		1,127	605	1,732		1,049	510	1,559		1,024	465	1,489
- HW - Total (1~9) -		13,373	8,976	22,351		12,473	7,599	20,072		12,323	6,673	18,996
		13,373	7,342	20,715		12,473	6,259	18,732		12,323	5,575	17,898
10. Price Contingency	F.C. 4.8 %	19,459	28,434	47,893		19,021	27,797	46,818		19,694	29,193	47,887
	L.C. 15.5 %	19,459	23,253	42,712		19,021	22,895	41,916		19,694	23,554	43,248
Total		32,832	37,412	70,244		31,494	35,396	66,890		32,017	34,866	66,883
		32,832	30,595	63,427		31,494	29,154	60,648		32,017	29,129	61,146

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2004				2005				2006			
	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Million Rs %	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Million Rs %	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Million Rs %
A. Haraz West District												
1. Construction Cost												
1.1. Storage Dam	10	4,301	2,867	7,168	10	4,301	2,867	7,168				
1.2. Diversion Dam		4,301	2,294	6,595		4,301	2,294	6,595				
1.3. Main Canal/Drain												
1.4. Secondary Canal												
1.5. Tertiary Canal												
1.6. Land Consolidation												
1.7. River Training												
1.8. O/H Road												
1.9. Miscellaneous												
- HW Sub-Total (1) -		4,301	2,867	7,168		4,301	2,867	7,168				
		4,301	2,294	6,595		4,301	2,294	6,595				
2. Procurement of Equipment												
3. Survey & Investigation												
4. D.D. and Supervision												
5. Building/Motor Pool												
6. Land Acquisition and Compensation												
7. O & M Equipment												
8. Administration (% of 1.)	5%	215	143	358		215	143	358				
9. Physical Contingency (% of 1.)	10%	215	115	330		215	115	330				
		430	287	717		430	287	717				
		430	229	659		430	229	659				
- HW - Total (1-9) -		4,946	3,257	8,243		4,946	3,257	8,243				
		4,946	2,638	7,584		4,946	2,638	7,584				
10. Price Contingency	F.C. 4.8%	8,681	18,582	27,263		9,098	21,463	30,561				
	L.C. 15.5%	8,681	14,588	23,549		9,098	17,173	26,271				
Total		13,627	21,879	35,506		14,044	24,760	38,804				
		13,627	17,506	31,133		14,044	19,811	33,855				

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	Total				1993				1994				1995			
	Fin. F.C.		Eco. F.C.		Fin. F.C.		Eco. F.C.		Fin. F.C.		Eco. F.C.		Fin. F.C.		Eco. F.C.	
	Fin. L.C.	Fin. Total	Eco. L.C.	Eco. Total	Fin. L.C.	Fin. Total	Eco. L.C.	Eco. Total	Fin. L.C.	Fin. Total	Eco. L.C.	Eco. Total	Fin. L.C.	Fin. Total	Eco. L.C.	Eco. Total
E. Haraz East District (I)																
I. Construction Cost																
1.1. Storage Dam	44,375	29,583	73,958		391	23,567	68,042		100	391	567	978		391	567	978
1.2. Diversion Dam	0	0	0		0	0	0		100	0	0	0		0	0	0
1.3. Main Canal/Brain	906	557	1,463		679	175	854		100	906	557	1,463		906	557	1,463
Kari Rod M.C.	291	171	462		291	171	462			679	175	854		679	175	854
1.4. Secondary Canal	4,161	5,175	9,336		4,161	4,067	8,228									
1.5. Tertiary Canal	1,315	3,087	4,403		1,315	2,224	3,540									
1.6. Land Consolidation	25,413	10,589	36,012		25,413	9,985	35,398									
1.7. River Training	271	116	387		271	97	368									
1.8. O/W Road	380	20	400		380	32	412									
1.9. Miscellaneous	0	0	0		0	0	0									
- HE-I Sub-Total (I) -	77,504	49,855	127,359		77,504	49,855	127,359		0	1,297	1,444	2,441		1,297	1,444	2,441
	76,886	40,387	117,273		76,886	40,387	117,273		0	679	175	854		679	175	854
2. Procurement of Equipment	5,115	495	5,610		5,115	396	5,511									
3. Survey & Investigation	378	804	1,182		378	643	1,021		50	189	402	591		189	402	591
4. D.D. and Supervision	4,440	5,223	9,663		4,440	4,178	8,618									
5. Building/Motor Pool	60	90	150		60	72	132		20	12	18	30		12	18	30
6. Land Acquisition and Compensation	0	2,677	2,677		0	2,302	2,302									
7. G & M Equipment	585	65	650		585	52	637									
8. Administration (% of I.)	3,875	2,495	6,370		3,875	2,019	5,894			65	57	122		65	57	122
9. Physical Contingency (% of I.)	7,750	4,990	12,740		7,750	4,039	11,789			34	9	43		34	9	43
- HE-I Total (I~9) -	99,707	66,934	166,641		99,707	66,934	166,641		0	1,693	1,735	3,428		1,693	1,735	3,428
	98,997	54,088	153,085		98,997	54,088	153,085		0	962	538	1,520		962	538	1,520
10. Price Contingency	149,574	233,914	383,488		149,574	191,251	340,825		0	1,859	2,315	4,174		1,859	2,315	4,174
F.C. 4.8 %	148,794	233,914	382,708		148,794	191,251	339,045		0	1,079	718	1,797		1,079	718	1,797
L.C. 15.5 %	0	0	0		0	0	0		0	780	1,597	2,377		780	1,597	2,377
Total	249,281	300,848	550,129		249,281	300,848	550,129		0	3,552	4,050	7,802		3,552	4,050	7,802
	247,791	245,349	493,140		247,791	245,349	493,140		0	2,061	1,266	3,317		2,061	1,266	3,317

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	1997				1998				1999			
	x Million Rls				x Million Rls				x Million Rls			
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%
B. Haraz East District(I)												
1. Construction Cost												
1.1. Storage Dam												
1.2. Diversion Dam												
1.3. Main Canal/Drain												
Kari Rud M.C.												
1.4. Secondary Canal	15	624	775	1,400	73	73	43	116	73	73	43	116
1.5. Tertiary Canal	10	624	610	1,234	832	624	35	1,08	832	73	35	108
1.6. Land Consolidation		132	308	441	197	483	610	1,035	832	832	1,035	1,867
1.7. River Training		132	222	354	197	334	483	680	197	832	813	1,645
1.8. O/N Road					10	2,541	1,060	3,601	2,541	3,601	1,97	463
1.9. Miscellaneous					10	2,541	999	3,540	2,541	3,540	334	660
- HE-I Sub-Total (1) -		756	1,085	1,841	0	27	12	39	27	41	17	58
2. Procurement of Equipment	50	2,558	198	2,756	27	27	10	37	27	41	15	56
3. Survey & Investigation					10	38	2	40	38	57	3	60
4. D.J. and Supervision	10	444	522	966	666	783	1,449	2,045	666	836	57	60
5. Building/Motor Pool	30	444	418	862	666	627	1,293	1,724	666	827	57	60
6. Land Acquisition and Compensation	50	18	22	40	0	0	0	0	0	0	0	0
7. O & M Equipment		0	1,439	1,439	0	0	0	0	0	0	0	0
8. Administration (% of 1.)	5%	38	54	92	175	118	293	407	473	305	778	
9. Physical Contingency (% of 1.)	10%	38	42	80	175	100	275	407	473	253	726	
- HE-I - Total (1-9) -		3,890	3,484	7,374	7,249	3,741	10,990	10,256	11,534	7,808	19,342	
10. Price Contingency		3,890	2,746	6,636	7,249	3,115	10,364	10,256	11,534	6,454	17,988	
F.C. 4.8%		4,692	6,200	10,892	9,164	7,689	16,853	13,588	17,686	16,014	37,424	
L.C. 15.5%		4,692	4,887	9,579	9,164	6,403	15,567	13,588	14,437	16,014	33,711	
Total		8,582	9,684	18,266	16,413	11,430	27,843	23,844	25,150	27,548	58,766	
		8,582	7,633	16,215	16,413	9,518	25,931	23,844	20,515	27,548	51,699	

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2000				2001				2002				2003			
	x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls			
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	
B. Haraz East District(I)	15	6,656	4,437	11,093	15	6,656	4,437	11,093	15	6,656	4,437	11,093	15	6,656	4,437	11,093
1. Construction Cost		6,656	3,550	10,206		6,656	3,550	10,206		6,656	3,550	10,206		6,656	3,550	10,206
1.1. Storage Dam																
1.2. Diversion Dam																
1.3. Main Canal/Drain																
Kari Rud M.C.	25	73	43	116												
1.4. Secondary Canal	15	624	776	1,400	15	624	776	1,400	15	624	776	1,400	15	624	776	1,400
1.5. Tertiary Canal	15	197	463	660	15	197	463	660	15	197	463	660	15	197	463	660
1.6. Land Consolidation	15	3,812	1,590	5,402	15	3,812	1,590	5,402	15	3,812	1,590	5,402	15	3,812	1,590	5,402
1.7. River Training	15	41	17	58	15	41	17	58	15	41	17	58	15	41	17	58
1.8. O/M Road	15	57	3	60	15	57	3	60	15	57	3	60	15	57	3	60
1.9. Miscellaneous	15	0	0	0	15	0	0	0	15	0	0	0	15	0	0	0
- HE-I Sub-Total (1) -		11,460	7,329	18,789		11,387	7,286	18,673		11,387	7,286	18,673		11,387	7,286	18,673
		11,460	6,047	17,507		11,387	6,012	17,399		11,387	6,012	17,399		11,387	6,012	17,399
2. Procurement of Equipment																
3. Survey & Investigation																
4. D.D. and Supervision	15	666	783	1,449	10	444	522	966	5	222	261	483	5	222	261	483
5. Building/Motor Pool		666	627	1,293		444	418	862		222	209	431		222	209	431
6. Land Acquisition and Compensation																
7. O & M Equipment																
8. Administration (% of 1.)	5 %	573	366	939		569	364	933		536	326	864		483	276	759
9. Physical Contingency (% of 1.)	10 %	1,146	733	1,879		1,139	729	1,868		1,076	651	1,727		926	551	1,477
		1,146	605	1,751		1,139	601	1,740		1,076	540	1,616		926	456	1,382
- HE-I - Total (1-9) -		13,845	9,211	23,056		13,539	8,901	22,440		12,599	7,748	20,347		11,166	6,832	17,998
		13,845	7,581	21,426		13,539	7,332	20,871		12,599	6,421	19,020		11,166	5,481	16,647
10. Price Contingency	F.C. 4.8 %	20,146	29,172	49,318		20,646	32,559	53,205		20,135	32,735	52,870		18,701	32,363	51,064
	L.C. 15.5 %	20,146	24,009	44,155		20,646	26,820	47,466		20,135	27,128	47,263		18,701	25,746	44,447
Total		33,991	38,383	72,374		34,185	41,460	75,645		32,734	40,483	73,217		29,867	38,995	68,862
		33,991	31,590	65,581		34,185	34,152	68,337		32,734	33,549	66,283		29,867	32,227	62,094

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2004			2005			2006			Total		
	x Million Rs			x Million Rs			x Million Rs			x Million Rs		
	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total
B. Harez East District(I)												
1. Construction Cost												
1.1. Storage Dam	10	4,438	2,958	7,396	10	4,438	2,958	7,396	44,376	23,580	73,956	
1.2. Diversion Dam		4,438	2,367	6,805		4,438	2,367	6,805	44,376	23,588	88,044	
1.3. Main Canal/Drain									391	587	978	
1.3. Main Canal/Drain									0	0	0	
Mari Rud M.C.									908	557	1,463	
1.4. Secondary Canal									879	176	1,054	
1.5. Tertiary Canal									292	172	464	
1.6. Land Consolidation	10	2,541	1,060	3,601					292	140	432	
1.7. River Training	10	2,541	999	3,540					4,160	5,174	9,334	
1.8. O/M Road	10	27	12	39					4,160	4,066	8,226	
1.9. Miscellaneous	10	27	10	37					1,314	3,087	4,401	
- HE-I Sub-Total (1) -		7,044	4,032	11,076		4,438	2,958	7,396	77,503	49,893	127,396	
2. Procurement of Equipment		7,044	3,379	10,423		4,438	2,367	6,805	76,885	40,395	117,280	
3. Survey & Investigation									5,116	498	5,612	
4. D.D. and Supervision									5,116	396	5,512	
5. Building/Motor Pool									378	804	1,182	
6. Land Acquisition and Compensation									378	644	1,022	
7. O & M Equipment	50	293	33	326					4,440	5,221	9,661	
8. Administration (% of 1.)	5%	352	202	554					4,440	4,180	8,620	
9. Physical Contingency (% of 1.)	10%	352	168	520					60	80	140	
- HE-I Total (1-9) -		704	403	1,107					50	72	122	
10. Price Contingency		704	338	1,042					0	2,878	2,878	
F.C. 4.8%		8,393	4,670	13,063		5,104	3,402	8,506	0	2,302	2,302	
L.C. 15.5%		8,393	3,912	12,305		5,104	2,722	7,826	0	0	0	
Total		14,732	26,321	41,053		9,389	22,146	31,535	98,709	56,933	155,642	
		14,732	22,049	36,781		9,389	17,720	27,109	98,709	54,101	152,810	
		23,125	30,991	54,116		14,483	25,548	40,041	0	0	0	
		23,125	25,361	48,486		14,483	20,442	34,925	0	0	0	
									249,208	300,611	549,820	
									247,752	245,325	493,077	

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	Total			1993			1994			1995		
	x Million Rls			x Million Rls			x Million Rls			x Million Rls		
	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total
	Eco.F.C.	Eco.L.C.	Eco.Total	%	Eco.F.C.	Eco.L.C.	Eco.Total	%	Eco.F.C.	Eco.L.C.	Eco.Total	
C. Haraz East District(II)												
1. Construction Cost												
1.1. Storage Dam	34,387	22,825	57,312									
	34,387	18,340	52,727									
	303	455	758	100	303	455	758					
1.2. Diversion Dam	0	0	0									
1.3. Main Canal/Drain	744	443	1,187	100	744	443	1,187					
	568	146	714									
	226	133	359									
Kari Rud M.C.	226	108	334									
1.4. Secondary Canal	1,076	1,036	2,112									
	1,076	807	1,883									
1.5. Tertiary Canal	1,147	1,441	2,588									
	1,147	1,061	2,208									
1.6. Land Consolidation	15,757	7,955	23,712									
	15,757	7,597	23,354									
1.7. River Training	210	300	510									
	210	75	285									
1.8. O/M Road	334	17	351									
	334	25	359									
1.9. Miscellaneous	0	0	0									
- HE-II Sub-Total (1) -	54,184	34,485	88,679	0	0	0	1,945	0	0	0	0	0
	53,705	28,099	81,804				568	714				
2. Procurement of Equipment	3,751	383	4,134									
	3,751	290	4,041									
3. Survey & Investigation	320	680	1,000	50	160	340	500	50	160	340	500	
	320	544	864		160	272	432		160	272	432	
4. D.D. and Supervision	3,256	3,830	7,086									
	3,256	3,064	6,320									
5. Building/Motor Pool	44	66	110	20	9	13	22	50	22	33	55	
	44	53	97		9	11	20		22	27	49	
6. Land Acquisition and Compensation	0	2,337	2,337									
	0	1,870	1,870									
7. O & M Equipment	495	55	550									
	495	44	539									
8. Administration (% of 1.)	2,709	1,725	4,434									
	2,685	1,405	4,090									
9. Physical Contingency (% of 1.)	5,418	3,450	8,868									
	5,371	2,810	8,181									
- HE-II Total (1-9) -	70,177	47,801	117,978	0	0	0	1,373	1,386	345	1,734	2,079	
	69,627	38,179	107,806				822	451	345	1,387	1,732	
10. Price Contingency	105,891	167,775	273,666									
	105,086	137,829	242,915				903	602	397	2,137	2,534	
F.C. 4.8 %												
L.C. 15.5 %												
Total	175,868	214,776	390,644	0	0	0	2,881	3,236	742	4,406	5,148	
	174,713	178,908	350,721				1,725	1,953	742	3,524	4,266	

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	1997			1998			1999				
	Fin.F.C. Eco.F.C. %	Fin.L.C. Eco.L.C. %	Fin.Total Eco.Total %	Fin.F.C. Eco.F.C. %	Fin.L.C. Eco.L.C. %	Fin.Total Eco.Total %	Fin.F.C. Eco.F.C. %	Fin.L.C. Eco.L.C. %	Fin.Total Eco.Total %		
C. Haraz East District(H)											
1. Construction Cost											
1.1. Storage Dam				10	3,438	2,293	5,732	10	3,438	2,293	5,732
1.2. Diversion Dam					3,438	1,834	5,273		3,438	1,834	5,273
1.3. Main Canal/Drain											
Kari Rud M.C.				25	57	33	90	25	57	33	90
1.4. Secondary Canal	15	161	155	318	15	155	318	20	215	207	422
1.5. Tertiary Canal	10	115	144	259	15	172	216	15	172	172	344
1.6. Land Consolidation		115	106	221	10	1,576	798	10	1,576	798	2,374
1.7. River Training				10	21	9	30	10	21	9	30
1.8. O/R Road				10	21	8	29	10	21	8	29
1.9. Miscellaneous				10	33	2	35	10	33	2	35
- HE-II Sub-Total (1) -		276	299	575		2,020	1,211		5,513	3,558	9,071
2. Procurement of Equipment	50	1,876	182	2,058	50	1,876	182	50	1,876	182	2,058
3. Survey & Investigation		1,876	145	2,021		1,876	145		1,876	145	2,021
4. D.D.and Supervision	10	326	386	709	15	468	575	15	468	575	1,043
5. Building/Motor Pool	30	13	20	33		488	460		488	460	948
6. Land Acquisition and Compensation	50	13	16	29							
7. O & M Equipment		0	1,169	1,169							
8. Administration (% of 1.)	5%	14	15	29		101	61		276	176	452
9. Physical Contingency (% of 1.)	10%	14	11	25		101	54		276	147	423
- HE-II-Total (1-9) -		2,533	2,098	4,631		4,687	2,150		6,991	4,856	11,847
10. Price Contingency	F.C. 4.8%	3,055	3,734	6,789		5,925	4,419		8,262	11,528	20,790
L.C. 15.5%		3,055	2,960	6,015		5,925	3,778		9,262	9,499	18,761
Total		5,586	5,832	11,420		10,612	6,569		18,253	16,384	34,637
		5,586	4,623	10,211		10,612	5,616		16,228	13,500	29,728

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2000				2001				2002				2003			
	Fin.F.C. %	Fin.L.C. %	Fin.Total %	x Million Rs	Fin.F.C. %	Fin.L.C. %	Fin.Total %	x Million Rs	Fin.F.C. %	Fin.L.C. %	Fin.Total %	x Million Rs	Fin.F.C. %	Fin.L.C. %	Fin.Total %	x Million Rs
C. Haraz East District(II)																
1. Construction Cost																
1.1. Storage Dam	15	5,158	3,439	8,597	15	5,158	3,439	8,597	15	5,158	3,439	8,597	15	5,158	3,439	8,597
		5,158	2,751	7,909		5,158	2,751	7,909		5,158	2,751	7,909		5,158	2,751	7,909
1.2. Diversion Dam																
1.3. Main Canal/Drain																
Kari Rud M.C.	25	57	33	90												
		57	27	84												
1.4. Secondary Canal	15	161	155	316	15	161	155	316								
		161	121	282		161	121	282								
1.5. Tertiary Canal	15	172	216	388	15	172	216	388	15	172	216	388				
		172	159	331		172	159	331		172	159	331				
1.6. Land Consolidation	15	2,364	1,193	3,557	15	2,364	1,193	3,557	15	2,364	1,193	3,557	10	1,576	796	2,372
		2,364	1,131	3,495		2,364	1,131	3,495		2,364	1,131	3,495		1,576	754	2,330
1.7. River Training	15	32	14	46	15	32	14	46	15	32	14	46	10	14	9	30
		32	11	43		32	11	43		32	11	43		21	8	29
1.8. O/M Road	15	50	3	53	15	50	3	53	15	50	3	53	10	33	2	35
		50	4	54		50	4	54		50	4	54		33	3	36
1.9. Miscellaneous	15	0	0	0	15	0	0	0	15	0	0	0	10	0	0	0
		0	0	0		0	0	0		0	0	0		0	0	0
- HE-II Sub-Total (1) -		7,994	5,053	13,047		7,937	5,020	12,957		7,776	4,865	12,641		6,786	4,246	11,034
		7,994	4,204	12,198		7,937	4,177	12,114		7,776	4,056	11,832		6,788	3,516	10,304
2. Procurement of Equipment																
3. Survey & Investigation																
4. D.D. and Supervision	15	488	575	1,063	10	325	383	709	5	163	192	355	5	163	192	355
		488	460	948		325	306	632		163	153	316		163	153	316
5. Building/Motor Pool																
6. Land Acquisition and Compensation																
7. O & M Equipment																
8. Administration (% of 1.)	5 %	400	253	653		397	251	648		389	243	632		248	28	276
		400	210	610		397	208	606		369	203	592		248	22	270
9. Physical Contingency (% of 1.)	10 %	799	505	1,304		794	502	1,296		778	487	1,265		339	212	551
		799	420	1,219		794	418	1,212		778	406	1,184		339	179	515
														679	425	1,104
														679	352	1,031
- HE-II Total (1-9) -		9,681	6,388	16,067		9,454	6,156	15,610		9,106	5,787	14,893		8,217	5,103	13,320
		9,681	5,294	14,975		9,454	5,110	14,564		9,106	4,818	13,924		8,217	4,219	12,436
10. Price Contingency	F.C. 4.8 %	14,087	20,225	34,312		14,417	22,518	36,935		14,553	24,450	39,003		13,762	24,902	38,664
	L.C. 15.5 %	14,087	16,768	30,855		14,417	18,692	33,109		14,553	20,356	34,909		13,762	20,588	34,350
Total		23,768	26,611	50,379		23,871	28,674	52,545		23,659	30,237	53,896		21,979	30,005	51,984
		23,768	22,060	45,828		23,871	23,802	47,673		23,659	25,174	48,833		21,979	24,807	46,786

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2004				2006				
	Fin. F. C. Eco. F. C.	Fin. L. C. Eco. L. C.	Fin. Total %	X Million Rls	Fin. F. C. Eco. F. C.	Fin. L. C. Eco. L. C.	Fin. Total %	X Million Rls	
C. Haraz East District (II)									
1. Construction Cost									
1.1. Storage Dam	10	3,439	2,293	5,732.10	3,439	2,293	5,732	5,732	5,732
1.2. Diversion Dam		3,439	1,834	5,273	3,439	1,834	5,273	5,273	5,273
1.3. Main Canal/Drain									
Kari Rud M. C.									
1.4. Secondary Canal									
1.5. Tertiary Canal									
1.6. Land Consolidation	10	1,576	796	2,372					
1.7. River Training	10	1,576	754	2,330					
1.8. O/M Road	10	21	9	30					
1.9. Miscellaneous	10	33	8	29					
-	10	33	2	35					
-	10	33	3	36					
-	10	0	0	0					
-	10	0	0	0					
- HE-II Sub-Total (1) -		5,069	3,100	8,169	3,439	2,293	5,732	5,732	5,732
		5,069	2,999	7,668	3,439	1,834	5,273	5,273	5,273
2. Procurement of Equipment									
3. Survey & Investigation									
4. D.D. and Supervision									
5. Building/Motor Pool									
6. Land Acquisition and Compensation									
7. O & N Equipment	50	248	28	276					
8. Administration (% of 1.)	5%	248	22	270					
9. Physical Contingency (% of 1.)	10%	253	155	408	172	115	287	287	287
-		253	130	383	172	92	264	264	264
-		507	310	817	344	229	573	573	573
-		507	260	767	344	183	527	527	527
- HE-II Total (1~9) -		6,077	3,593	9,670	3,955	2,537	6,492	6,492	6,492
		6,077	3,011	9,088	3,955	2,109	6,064	6,064	6,064
10. Price Contingency		10,667	20,251	30,918	7,275	17,166	24,441	24,441	24,441
F.C. 4.8%		10,667	16,970	27,637	7,275	13,729	21,004	21,004	21,004
L.C. 15.5%									
Total		16,744	23,944	40,588	11,230	19,803	31,033	31,033	31,033
		16,744	19,981	36,725	11,230	15,838	27,068	27,068	27,068

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	Total				1993				1994				1995			
	Fin. F.C.		x Million Rls		Fin. F.C.		x Million Rls		Fin. F.C.		x Million Rls		Fin. F.C.		x Million Rls	
	Fin. F.C.	Fin. Total	Fin. L.C.	Fin. Total	Fin. F.C.	Fin. Total	Fin. L.C.	Fin. Total	Fin. F.C.	Fin. Total	Fin. L.C.	Fin. Total	Fin. F.C.	Fin. Total	Fin. L.C.	Fin. Total
D. Haraz East District(III)																
I. Construction Cost																
1.1. Storage Dam	17,909	11,339	29,848		17,909	9,551	27,460		17,909	9,551	27,460		17,909	9,551	27,460	
1.2. Diversion Dam	158	237	395		158	237	395		158	237	395		158	237	395	
1.3. Main Canal/Drain	0	0	0		0	0	0		0	0	0		0	0	0	
Kari Rud H.C.	0	0	0		0	0	0		0	0	0		0	0	0	
1.4. Secondary Canal	118	69	187		118	69	187		118	69	187		118	69	187	
1.5. Tertiary Canal	1,451	1,378	2,829		1,451	1,378	2,829		1,451	1,378	2,829		1,451	1,378	2,829	
1.6. Land Consolidation	542	705	1,247		542	705	1,247		542	705	1,247		542	705	1,247	
1.7. River Training	8,522	4,841	13,363		8,522	4,841	13,363		8,522	4,841	13,363		8,522	4,841	13,363	
1.8. O/M Road	109	47	156		109	47	156		109	47	156		109	47	156	
1.9. Miscellaneous	141	39	148		141	39	148		141	39	148		141	39	148	
- HE-III Sub-Total (1) -	29,042	19,642	48,684		29,042	19,642	48,684		29,042	19,642	48,684		29,042	19,642	48,684	
2. Procurement of Equipment	2,046	198	2,244		2,046	198	2,244		2,046	198	2,244		2,046	198	2,244	
3. Survey & Investigation	144	306	450		144	306	450		144	306	450		144	306	450	
4. D.D. and Supervision	1,776	2,089	3,865		1,776	2,089	3,865		1,776	2,089	3,865		1,776	2,089	3,865	
5. Building/Motor Pool	24	36	60		24	36	60		24	36	60		24	36	60	
6. Land Acquisition and Compensation	0	1,120	1,120		0	1,120	1,120		0	1,120	1,120		0	1,120	1,120	
7. O & M Equipment	225	25	250		225	25	250		225	25	250		225	25	250	
8. Administration (% of 1.)	1,452	982	2,434		1,452	982	2,434		1,452	982	2,434		1,452	982	2,434	
9. Physical Contingency (% of 1.)	1,440	792	2,232		1,440	792	2,232		1,440	792	2,232		1,440	792	2,232	
- HE-III-Total (1-9) -	37,613	26,362	63,975		37,613	26,362	63,975		37,613	26,362	63,975		37,613	26,362	63,975	
10. Price Contingency	59,564	109,217	168,781		59,564	109,217	168,781		59,564	109,217	168,781		59,564	109,217	168,781	
F.C. 4.8 %	59,247	89,541	148,788		59,247	89,541	148,788		59,247	89,541	148,788		59,247	89,541	148,788	
L.C. 15.5 %																
Total	97,177	135,579	232,756		97,177	135,579	232,756		97,177	135,579	232,756		97,177	135,579	232,756	
	96,579	110,786	207,369		96,579	110,786	207,369		96,579	110,786	207,369		96,579	110,786	207,369	

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	1996			1997			1998			1999		
	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %
D. Haraz East District(III)												
1. Construction Cost												
1.1. Storage Dam												
1.2. Diversion Dam												
1.3. Main Canal/Drain												
Kari Rud H.C.												
1.4. Secondary Canal												
1.5. Tertiary Canal												
1.6. Land Consolidation												
1.7. River Training												
1.8. O/M Road												
1.9. Miscellaneous												
- HE-III Sub-Total (1) -	0	0	0	0	0	0	1,821	1,211	3,032	2,093	1,515	3,608
2. Procurement of Equipment												
3. Survey & Investigation	72	153	225	30	17	47	1,821	1,211	3,032	2,093	1,515	3,608
4. D.D. and Supervision	72	123	195	30	14	44	1,821	968	2,790	2,093	1,196	3,291
5. Building/Motor Pool	7	11	18									
6. Land Acquisition and Compensation	7	9	16									
7. O & M Equipment												
8. Administration (% of 1.)	0	0	0	2	1	3						
9. Physical Contingency (% of 1.)	0	0	0	2	1	3						
- HS-III-Total (1-9) -	79	164	243	35	20	55	2,183	2,057	4,240	3,696	2,715	6,411
10. Price Contingency	95	292	387	44	41	85	2,892	4,883	7,775	5,132	7,445	12,577
F.C. 4.8%	95	295	330	44	33	77	2,892	3,908	6,800	5,132	5,910	11,042
L.C. 15.5%												
Total	174	455	630	79	61	140	5,075	5,940	12,015	8,828	10,160	18,988
	174	387	541	79	49	128	5,075	5,554	10,629	8,828	8,086	16,914

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2000				2001				2002				2003						
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%			
D. Haraz East District(III)																			
1. Construction Cost	2,686	1,791	4,477	15	2,686	1,791	4,477	15	2,686	1,791	4,477	15	2,686	1,791	4,477	15	2,686	1,791	4,477
1.1. Storage Dam	2,686	1,433	4,119		2,686	1,433	4,119		2,686	1,433	4,119		2,686	1,433	4,119		2,686	1,433	4,119
1.2. Diversion Dam																			
1.3. Main Canal/Drain																			
Kari Rud M.C.																			
1.4. Secondary Canal	30	17	47		276	566	842	20	290	566	856	15	276	566	842	20	276	566	842
1.5. Tertiary Canal	219	207	425	15	210	210	420	15	290	210	500	15	290	210	500	15	290	210	500
1.6. Land Consolidation	81	146	227	15	81	146	227	15	81	146	227	15	81	146	227	15	81	146	227
1.7. River Training	1,278	1,943	3,221	15	1,278	1,943	3,221	15	1,278	1,943	3,221	15	1,278	1,943	3,221	15	1,278	1,943	3,221
1.8. O/H Road	21	1	22	15	21	1	22	15	21	1	22	15	21	1	22	15	21	1	22
1.9. Miscellaneous	0	0	0	15	0	0	0	15	0	0	0	15	0	0	0	15	0	0	0
- HE-III Sub-Total (1) -	4,330	2,895	7,225		4,372	2,947	7,319		4,372	2,947	7,319		4,372	2,947	7,319		4,372	2,947	7,319
2. Procurement of Equipment	1,023	99	1,122	50	1,023	99	1,122	50	1,023	99	1,122	50	1,023	99	1,122	50	1,023	99	1,122
3. Survey & Investigation	266	313	579	15	355	418	773	15	355	418	773	15	355	418	773	15	355	418	773
4. D.D. and Supervision	256	251	507		256	251	507		256	251	507		256	251	507		256	251	507
5. Building/Motor Pool																			
6. Land Acquisition and Compensation																			
7. O & M Equipment																			
8. Administration (% of 1.)	217	145	362	5%	219	147	366	5%	219	147	366	5%	219	147	366	5%	219	147	366
9. Physical Contingency (% of 1.)	433	290	723	10%	437	295	732	10%	437	295	732	10%	437	295	732	10%	437	295	732
- HE-III Total (1-9) -	6,269	3,742	10,011		6,269	3,742	10,011		6,269	3,742	10,011		6,269	3,742	10,011		6,269	3,742	10,011
10. Price Contingency	9,122	11,851	20,973		8,209	13,826	22,035		8,209	13,826	22,035		8,209	13,826	22,035		8,209	13,826	22,035
F.C. 4.8%																			
L.C. 15.5%																			
Total	15,391	15,593	30,984		13,592	17,733	31,325		13,592	17,733	31,325		13,592	17,733	31,325		13,592	17,733	31,325

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2004				2005				2006			
	Fin. P.C. %	Fin. L.C. Eco. L.C.	Fin. Total Eco. Total	x Million Ris	Fin. P.C. %	Fin. L.C. Eco. L.C.	Fin. Total Eco. Total	x Million Ris	Fin. P.C. %	Fin. L.C. Eco. L.C.	Fin. Total Eco. Total	x Million Ris
D. Haraz East District(III)												
1. Construction Cost												
1.1. Storage Dam	10	1,791	1,194	2,985	10	1,791	1,194	2,985				
		1,791	955	2,746		1,791	955	2,746				
1.2. Diversion Dam												
1.3. Main Canal/Drain												
Kari Rud M.C.												
1.4. Secondary Canal	15	218	207	425								
		218	158	376								
1.5. Tertiary Canal	15	81	146	227	15	81	146	227				
		81	106	187		81	106	187				
1.6. Land Consolidation	15	1,278	725	2,004	15	1,278	725	2,004				
		1,278	685	1,943		1,278	685	1,943				
1.7. River Training	15	16	7	23	15	16	7	23				
		16	6	22		16	6	22				
1.8. O/M Road	15	21	1	22	15	21	1	22				
		21	2	23		21	2	23				
1.9. Miscellaneous	15	0	0	0	15	0	0	0				
		0	0	0		0	0	0				
- HE-III Sub-Total (1) -		3,405	2,281	5,686		3,487	2,074	5,261				
		3,405	1,892	5,297		3,487	1,734	4,921				
2. Procurement of Equipment												
3. Survey & Investigation												
4. D.D. and Supervision	10	178	209	387	5	89	104	193				
		178	167	345		89	84	173				
5. Building/Motor Pool												
6. Land Acquisition and Compensation												
7. O & M Equipment				50								
				113		113	13	126				13
				113		113	10	123				10
8. Administration (% of 1.)	5 %	170	114	284		159	104	263				25
		170	95	265		159	87	246				22
9. Physical Contingency (% of 1.)	10 %	341	228	569		319	207	526				49
		341	189	530		319	173	492				45
- HE-III-Total (1-9) -		4,094	2,832	6,926		3,867	2,502	6,369				577
		4,094	2,343	6,437		3,867	2,088	5,955				525
10. Price Contingency												
F.C. 4.8 %		7,186	15,982	23,148		7,113	16,287	23,400				6,501
L.C. 15.5 %		7,186	13,206	20,392		7,113	13,692	20,705				6,110
Total		11,280	18,794	30,074		10,980	18,789	29,769				8,200
		11,280	15,549	26,829		10,980	15,880	26,660				7,757

TABLE E. 2-2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	Total			1993			1994			1995					
	x Million Ris			x Million Ris			x Million Ris			x Million Ris					
	Fin.L.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total			
	Eco.L.C.	Eco.Total	%	Eco.F.C.	Eco.L.C.	Eco.Total	%	Eco.F.C.	Eco.L.C.	Eco.Total	%	Eco.F.C.	Eco.L.C.	Eco.Total	
E. And West District (I)															
1. Construction Cost															
1.1. Storage Dam	22,093	14,728	36,821												
	22,093	11,783	33,876												
	80	120	200												
1.2. Diversion Dam	80	108	188												
1.3. Main Canal/Drain	825	816	1,641												
	823	860	1,683												
1.4. Secondary Canal	516	568	1,084												
	516	434	950												
1.5. Tertiary Canal	785	988	1,773												
	785	730	1,515												
1.6. Land Consolidation	11,714	4,864	16,578												
	11,714	4,756	16,470												
1.7. River Training	355	52	407												
	355	74	429												
1.8. O/M Road	210	11	221												
	210	18	228												
1.9. Miscellaneous	0	0	0												
- AW-I Sub-Total (1) -	36,378	22,155	58,533	0	0	0	0	0	0	0	0	0	0	0	0
	36,378	18,553	54,941												
2. Procurement of Equipment	2,387	231	2,618												
	2,387	185	2,572												
3. Survey & Investigation	282	557	839				50					131	279	410	
	252	446	708									131	223	354	
4. D.E. and Supervision	2,072	2,437	4,509												
	2,072	1,950	4,022												
5. Building/Motor Pool	28	42	70				20								
	28	34	62												
6. Land Acquisition and Compensation	0	1,798	1,798												
	0	1,438	1,438												
7. O & M Equipment	405	45	450												
	405	36	441												
8. Administration (% of I.) 5 %	1,819	1,108	2,927												
	1,819	928	2,747												
9. Physical Contingency 10 % (% of I.)	3,638	2,216	5,854												
	3,638	1,855	5,494												
- AW-I Total (1-9) -	46,989	30,589	77,578												
	46,989	25,436	72,425												
10. Price Contingency	73,259	116,974	192,233												
	73,259	99,311	172,570												
F.C. 4.8 %															
L.C. 15.5 %															
Total	120,246	149,563	269,811	0	0	0		13	19	32		13	19	32	762
	120,246	124,747	244,995	0	0	0		13	16	29		13	16	29	610
															922

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	1996				1997				1998				1999			
	x Million Ris		x Million Ris		x Million Ris		x Million Ris		x Million Ris		x Million Ris		x Million Ris			
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	
E. Amol West District(I)																
1. Construction Cost																
1.1. Storage Dam																
1.2. Diversion Dam	24	36	60	40	32	48	80	30	2,209	1,473	3,682	10	2,209	1,473	3,682	
1.3. Main Canal/Drain	24	32	56	10	32	43	75	24	24	36	60	30	24	36	60	
1.4. Secondary Canal					63	82	145	15	94	99	193	10	94	99	193	
1.5. Tertiary Canal					63	66	129	10	52	57	109	15	77	85	162	
1.6. Land Consolidation									52	43	95	10	77	65	142	
1.7. River Training									79	73	152	10	118	149	267	
1.8. O/H Road													118	110	228	
1.9. Miscellaneous													1,757	730	2,487	
- AW-I Sub-Total (1) -	24	36	60		95	130	225		2,458	1,788	4,246		4,340	2,569	6,909	
2. Procurement of Equipment	24	32	56		95	109	204		2,458	1,425	3,883		4,340	2,179	6,519	
3. Survey & Investigation	131	279	410		104	122	226	50	1,194	116	1,310	50	1,194	116	1,310	
4. D.D. and Supervision	131	223	354	5	104	98	202		1,194	93	1,287		1,194	93	1,287	
5. Building/Motor Pool	8	13	21		0	899	899		0	899	899		0	899	899	
6. Land Acquisition and Compensation	8	10	18	50	0	719	719		0	719	719		0	719	719	
7. O & M Equipment																
8. Administration (% of 1.)	1	2	3		5	7	12		123	89	212		217	128	345	
9. Physical Contingency (% of 1.)	1	2	3		5	5	10		123	71	194		217	109	326	
- AW-I Total (1-9) -	2	4	6		10	13	23		246	179	425		434	257	691	
10. Price Contingency F.C. 4.8 %	166	334	500		214	1,171	1,385		4,332	3,437	7,769		6,496	3,436	9,932	
L.C. 15.5 %	166	270	436		214	942	1,156		4,332	2,744	7,076		6,496	2,892	9,388	
Total	366	928	1,294		485	3,576	4,063		10,071	11,597	21,668		15,515	12,558	28,373	
	366	750	1,116		485	2,878	3,363		10,071	9,258	19,329		15,515	10,822	26,337	

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/item	2000				2002				2003				
	Fin.F.C. %	Fin.L.C. %	Fin.Total %	x Million Ris Eco.L.C. Eco.Total	Fin.F.C. %	Fin.L.C. %	Fin.Total %	x Million Ris Eco.L.C. Eco.Total	Fin.F.C. %	Fin.L.C. %	Fin.Total %	x Million Ris Eco.L.C. Eco.Total	
1. Construction Cost													
1.1. Storage Dam	15	3,314	2,209	5,523 15	3,314	2,209	5,523 15	3,314	2,209	5,523 15	3,314	2,209	5,523
		3,314	1,767	5,081	3,314	1,767	5,081	3,314	1,767	5,081	3,314	1,767	5,081
1.2. Diversion Dam													
1.3. Main Canal/Drain	15	94	122	216 15	94	122	216 15	94	122	216 15	94	122	216
		94	99	193	94	99	193	94	99	193	94	99	193
1.4. Secondary Canal	15	77	85	162 15	77	85	162 15	77	85	162 15	77	85	162
		77	65	142	77	65	142	77	65	142	77	65	142
1.5. Tertiary Canal	15	118	149	267 15	118	149	267 15	118	149	267 15	118	149	267
		118	110	228	118	110	228	118	110	228	118	110	228
1.6. Land Consolidation	15	1,757	730	2,487 15	1,757	730	2,487 15	1,757	730	2,487 15	1,757	730	2,487
		1,757	713	2,470	1,757	713	2,470	1,757	713	2,470	1,757	713	2,470
1.7. River Training	15	53	8	61 15	53	8	61 15	53	8	61 15	53	8	61
		53	11	64	53	11	64	53	11	64	53	11	64
1.8. O/H Road	15	32	2	34 15	32	2	34 15	32	2	34 15	32	2	34
		32	3	35	32	3	35	32	3	35	32	3	35
1.9. Miscellaneous	15	0	0	0 15	0	0	0 15	0	0	0 15	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
- AW-I Sub-Total (1) -		5,445	3,305	8,750	5,445	3,305	8,750	5,445	3,305	8,750	5,445	3,305	8,750
		5,445	2,768	8,213	5,445	2,768	8,213	5,445	2,768	8,213	5,445	2,768	8,213
2. Procurement of Equipment													
3. Survey & Investigation													
4. D.D. and Supervision	15	311	366	677 15	311	366	677 15	311	366	677 15	311	366	677
		311	293	604	311	293	604	311	293	604	311	293	604
5. Building/Motor Pool													
6. Land Acquisition and Compensation													
7. O & M Equipment													
8. Administration (% of 1.) 5 %		272	165	437	272	165	437	272	165	437	272	165	437
		272	138	410	272	138	410	272	138	410	272	138	410
9. Physical Contingency (% of 1.) 10 %		545	331	876	545	331	876	545	331	876	545	331	876
		545	277	822	545	277	822	545	277	822	545	277	822
- AW-I-Total (1~9) -		6,573	4,167	10,740	6,573	4,167	10,740	6,573	4,167	10,740	6,573	4,167	10,740
		6,573	3,476	10,049	6,573	3,476	10,049	6,573	3,476	10,049	6,573	3,476	10,049
10. Price Contingency F.C. 4.8 %		9,564	13,197	22,761	10,023	15,243	25,266	10,505	17,605	28,110	11,005	20,334	31,343
		9,564	11,009	20,573	10,023	12,715	22,738	10,505	14,686	25,191	11,009	16,862	27,871
L.C. 15.5 %													
Total		16,137	17,364	33,501	16,596	19,410	36,006	17,078	21,772	38,850	17,582	24,501	42,083
		16,137	14,485	30,622	16,596	16,191	32,787	17,078	18,162	35,240	17,582	20,438	38,020

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2004			2005			2006		
	Fin. F.C. %	Fin. L.C. Eco. L.C.	Fin. Total Eco. Total	Fin. F.C. %	Fin. L.C. Eco. L.C.	Fin. Total Eco. Total	Fin. F.C. %	Fin. L.C. Eco. L.C.	Fin. Total Eco. Total
E. Amol West District(I)									
1. Construction Cost									
1.1. Storage Dam	10	2,209	1,473	3,682	10	2,209	1,473	3,682	
1.2. Diversion Dam		2,209	1,178	3,387		2,209	1,178	3,387	
1.3. Main Canal/Drain									
1.4. Secondary Canal	15	77	85	162					
1.5. Tertiary Canal	15	77	85	142					
1.6. Land Consolidation	15	116	149	267					
1.7. River Training	15	118	110	228					
1.8. O/H Road	15	1,757	730	2,487	10	1,171	486	1,657	
1.9. Miscellaneous	15	1,757	713	2,470		1,171	476	1,647	
53		53	11	64		36	5	41	
32		32	2	34		35	7	43	
32		32	3	35		21	1	22	
0		0	0	0		0	0	0	
0		0	0	0		0	0	0	
4,246		4,246	2,447	6,693		3,437	1,965	5,402	
4,246		4,246	2,080	6,326		3,437	1,653	5,100	
- AH- I Sub-Total (1) -									
2. Procurement of Equipment									
3. Survey & Investigation									
4. D.D. and Supervision	5	104	122	226					
5. Building/Motor Pool		104	98	202					
6. Land Acquisition and Compensation									
7. O & M Equipment	50	203	23	226	50	203	23	226	
8. Administration (% of 1.)	5%	212	122	334		172	98	270	
9. Physical Contingency (% of 1.)	10%	425	245	670		344	197	541	
425		425	208	633		344	166	510	
- AH- I Total (1-9) -		5,190	2,959	8,149		4,156	2,283	6,439	
5,190		5,190	2,508	7,698		4,156	1,930	6,086	
10. Price Contingency		9,110	16,677	25,787		7,645	14,562	22,507	
F.C. 4.8%		9,110	14,195	23,246		7,645	12,584	20,209	
L.C. 15.5%									
Total		14,300	19,836	33,936		11,801	17,145	28,946	
		14,300	16,844	30,944		11,801	14,494	26,295	

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	Total				1994				1995			
	X Million Rls		X Million Rls		X Million Rls		X Million Rls		X Million Rls		X Million Rls	
	Fin.F.C.	Fin.L.C.	Fin.Total	Eco.L.C.	Eco.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	Eco.L.C.	Eco.Total	%
E. Amol West District (H)	48,233	32,155	80,388	174	261	435	0	0	0	0	0	0
J. Construction Cost	48,233	25,724	73,957	174	261	435	0	0	0	0	0	0
1.1. Storage Dam	174	235	409	174	235	409	0	0	0	0	0	0
1.2. Diversion Dam	1,226	1,739	2,965	1,226	1,739	2,965	0	0	0	0	0	0
1.3. Main Canal/Drain	1,225	1,400	2,625	1,225	1,400	2,625	0	0	0	0	0	0
1.4. Secondary Canal	2,081	3,248	5,329	2,081	3,248	5,329	0	0	0	0	0	0
1.5. Tertiary Canal	2,081	2,573	4,654	2,081	2,573	4,654	0	0	0	0	0	0
1.6. Land Consolidation	1,637	1,542	3,179	1,637	1,542	3,179	0	0	0	0	0	0
1.7. River Training	13,501	3,945	17,447	13,501	3,945	17,447	0	0	0	0	0	0
1.8. D/H Road	13,501	3,965	17,466	13,501	3,965	17,466	0	0	0	0	0	0
1.9. Miscellaneous	775	114	889	775	114	889	0	0	0	0	0	0
1.10. D/H Road	521	161	682	521	161	682	0	0	0	0	0	0
1.11. Miscellaneous	521	27	548	521	27	548	0	0	0	0	0	0
1.12. Miscellaneous	0	44	44	0	44	44	0	0	0	0	0	0
1.13. Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0
- AM-II Sub-Total (I) -	68,148	43,587	111,735	68,148	43,587	111,735	0	0	0	0	0	0
	68,148	35,644	103,792	68,148	35,644	103,792	0	0	0	0	0	0
2. Procurement of Equipment	5,455	528	5,984	5,455	528	5,984	0	0	0	0	0	0
3. Survey & Investigation	3,456	422	3,878	3,456	422	3,878	0	0	0	0	0	0
4. D.D. and Supervision	436	927	1,363	436	927	1,363	0	0	0	0	0	0
5. Building/Motor Pool	4,736	742	5,478	4,736	742	5,478	0	0	0	0	0	0
6. Land Acquisition and Compensation	4,736	5,571	10,307	4,736	5,571	10,307	0	0	0	0	0	0
7. O & M Equipment	54	96	150	54	96	150	0	0	0	0	0	0
8. Administration (% of I.)	64	77	141	64	77	141	0	0	0	0	0	0
9. Physical Contingency (% of I.)	0	3,245	3,245	0	3,245	3,245	0	0	0	0	0	0
- AM-II Total (1-9) -	675	2,596	3,271	675	2,596	3,271	0	0	0	0	0	0
	675	75	750	675	75	750	0	0	0	0	0	0
10. Price Contingency	3,407	2,179	5,586	3,407	2,179	5,586	0	0	0	0	0	0
	3,407	1,782	5,189	3,407	1,782	5,189	0	0	0	0	0	0
	6,815	4,359	11,174	6,815	4,359	11,174	0	0	0	0	0	0
	6,815	3,564	10,379	6,815	3,564	10,379	0	0	0	0	0	0
- AM-II Total (1-10) -	89,737	60,567	150,304	89,737	60,567	150,304	0	0	0	0	0	0
	89,737	49,344	139,081	89,737	49,344	139,081	0	0	0	0	0	0
10. Price Contingency	140,522	239,068	379,590	140,522	239,068	379,590	0	0	0	0	0	0
	140,522	195,487	336,009	140,522	195,487	336,009	0	0	0	0	0	0
	230,259	299,635	529,894	230,259	299,635	529,894	0	0	0	0	0	0
	230,259	244,831	475,090	230,259	244,831	475,090	0	0	0	0	0	0
Total	538	1,301	1,839	538	1,301	1,839	538	1,301	1,839	538	1,301	1,839
	538	1,042	1,580	538	1,042	1,580	538	1,042	1,580	538	1,042	1,580

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	1986				1987				1988			
	x Million Rls				x Million Rls				x Million Rls			
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%
F. Amol West District(II)												
1. Construction Cost												
1.1. Storage Dam	52	78	130	40	70	104	174	30	4,823	3,216	8,039	10
1.2. Diversion Dam	52	71	123	10	70	94	164	30	4,823	2,572	7,395	10
1.3. Main Canal/Drain					123	174	297	15	184	261	445	15
1.4. Secondary Canal					123	140	263	10	208	325	533	10
1.5. Tertiary Canal									208	257	465	
1.6. Land Consolidation					10	164	210	10	164	210	374	10
1.7. River Training									164	154	318	
1.8. O/H Road									1,350	395	1,745	
1.9. Miscellaneous									1,350	397	1,747	
- AW-II Sub-Total (1) -	52	78	130	193	193	278	471	50	5,431	4,030	9,521	50
	52	71	123	193	193	234	427		5,431	3,264	8,695	
2. Procurement of Equipment									2,728	264	2,992	
3. Survey & Investigation	218	464	682						2,728	211	2,939	
4. D.D. and Supervision	218	371	589	5	237	279	516	10	474	557	1,031	15
5. Building/Motor Pool	19	29	48		237	223	460		474	446	920	
6. Land Acquisition and Compensation					0	1,623	1,623	50	0	1,623	1,623	
7. O & M Equipment					0	1,296	1,296		0	1,296	1,296	
8. Administration (% of 1.)	3	4	7	10	10	14	24		272	205	477	
9. Physical Contingency (% of 1.)	3	4	7	10	10	12	22		272	163	435	
	5	8	13	19	28	47	87		543	409	952	
	5	7	12	19	19	23	42		543	326	869	
- AW-II-Total (1-9) -	297	583	890	459	459	2,222	2,681		9,448	7,148	16,596	
	297	476	773	459	459	1,790	2,249		9,448	5,708	15,156	
10. Price Contingency	358	1,038	1,396	580	580	4,567	5,147		12,517	16,970	29,487	
F.C. 4.8 %	358	847	1,205	580	580	3,678	4,259		12,517	13,551	26,068	
L.C. 15.5 %												
Total	655	1,621	2,276	1,039	1,039	6,769	7,828		21,965	24,118	46,083	
	655	1,323	1,978	1,039	1,039	5,469	6,508		21,965	19,259	41,224	
									27,052	23,141	50,193	
									27,052	18,830	45,882	

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2000			2001			2002			2003		
	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total
F. Amol West District(II)												
1. Construction Cost												
1.1. Storage Dam	7.235	4.823	12,058 15	7.235	4.823	12,058 15	7.235	4.823	12,058 15	7.235	4.823	12,058
	7.235	3,859	11,094	7.235	3,859	11,094	7.235	3,859	11,094	7.235	3,859	11,094
1.2. Diversion Dam												
1.3. Main Canal/Drain	184	261	445 15	184	261	445 15	184	261	445 15	184	261	445
	184	210	394	184	210	394	184	210	394	184	210	394
1.4. Secondary Canal	312	487	799 15	312	487	799 15	312	487	799 15	312	487	799
	312	368	680	312	368	680	312	368	680	312	368	680
1.5. Tertiary Canal	246	315	561 15	246	315	561 15	246	315	561 15	246	315	561
	246	231	477	246	231	477	246	231	477	246	231	477
1.6. Land Consolidation	1,350	395	1,745 15	2,025	592	2,617 15	2,025	592	2,617 15	2,025	592	2,617
	1,350	397	1,747	2,025	595	2,620	2,025	595	2,620	2,025	595	2,620
1.7. River Training	78	11	89 15	116	17	133 15	116	17	133 15	116	17	133
	78	13	94	116	24	140	116	24	140	116	24	140
1.8. O/M Road	52	3	55 15	78	4	82 15	78	4	82 15	78	4	82
	52	4	56	78	7	85	78	7	85	78	7	85
1.9. Miscellaneous	0	0	0 15	0	0	0 15	0	0	0 15	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
- AW-II Sub-Total (1) -	9,457	6,295	15,752	10,196	6,499	16,695	10,196	6,499	16,695	10,196	6,499	16,695
	9,457	5,103	14,560	10,196	5,312	15,508	10,196	5,312	15,508	10,196	5,312	15,508
2. Procurement of Equipment												
3. Survey & Investigation												
4. D.D. and Supervision	710	836	1,546 15	710	836	1,546 15	710	836	1,546 15	710	836	1,546
	710	669	1,379	710	669	1,379	710	669	1,379	710	669	1,379
5. Building/Motor Pool												
6. Land Acquisition and Compensation												
7. O & H Equipment												
8. Administration (% of 1.) 5 %	473	315	788	510	325	835	510	325	835	510	325	835
	473	255	728	510	266	776	510	266	776	510	266	776
9. Physical Contingency (% of 1.) 10 %	946	630	1,576	1,020	650	1,670	1,020	650	1,670	1,020	650	1,670
	946	510	1,456	1,020	531	1,551	1,020	531	1,551	1,020	531	1,551
- AW-II-Total (1~9) -	11,585	8,075	19,662	12,435	8,310	20,745	12,435	8,310	20,745	12,200	8,031	20,231
	11,585	6,537	18,123	12,435	6,778	19,214	12,435	6,778	19,214	12,200	6,555	18,755
10. Price Contingency F.C. 4.8 %	16,859	25,577	42,436	18,964	30,398	49,362	19,874	35,109	54,983	20,433	39,190	59,623
	16,859	20,703	37,562	18,954	24,794	43,748	19,874	28,637	48,511	20,433	31,987	52,420
Total	28,445	33,853	62,298	31,400	38,708	70,108	32,310	43,419	75,729	32,833	47,221	79,854
	28,445	27,240	55,685	31,400	31,572	62,972	32,310	35,415	67,725	32,833	38,542	71,375

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2004			2005			2006			Total		
	Fin.F.C. Eco.F.C.	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. Eco.F.C.	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. Eco.F.C.	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. Eco.F.C.	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total
F. Amol West District(II)												
1. Construction Cost												
1.1. Storage Dam	4,823	3,216	8,039	4,823	3,216	8,039	48,232	32,156	80,388	48,232	32,156	80,388
1.2. Diversion Dam	4,823	2,572	7,395	4,823	2,572	7,395	48,232	25,724	73,956	48,232	25,724	73,956
1.3. Main Canal/Drain												
1.4. Secondary Canal	208	325	533	208	325	533	1,227	1,740	2,967	1,227	1,740	2,967
1.5. Tertiary Canal	164	210	374	164	210	374	2,080	3,248	5,328	2,080	3,248	5,328
1.6. Land Consolidation	2,025	592	2,617	1,350	395	1,745	1,840	2,100	3,940	1,840	2,100	3,940
1.7. River Training	116	17	133	78	11	89	13,500	3,948	17,448	13,500	3,948	17,448
1.8. O/M Road	78	4	82	52	3	55	13,500	3,948	17,448	13,500	3,948	17,448
1.9. Miscellaneous	0	0	0	0	0	0	13,500	3,968	17,468	13,500	3,968	17,468
- AW-II Sub-Total (1) -	7,414	4,354	11,768	6,675	4,160	10,835	63,149	43,592	111,741	63,149	43,592	111,741
2. Procurement of Equipment							58,149	35,644	103,793	58,149	35,644	103,793
3. Survey & Investigation							5,455	528	5,983	5,455	528	5,983
4. D.D. and Supervision	474	557	1,031	237	279	516	436	928	1,364	436	928	1,364
5. Building/Motor Pool	474	446	920	237	223	460	4,736	5,573	10,309	4,736	5,573	10,309
6. Land Acquisition							64	96	160	64	96	160
7. O & M Equipment							0	77	141	0	77	141
8. Administration (% of 1.)							0	3,246	3,246	0	3,246	3,246
9. Physical Contingency (% of 1.)							0	2,596	2,596	0	2,596	2,596
- AW-II-Total (1~9) -	9,000	5,575	14,575	8,252	5,101	13,353	89,743	60,579	150,322	89,743	60,579	150,322
10. Price Contingency	9,000	4,596	13,596	8,252	4,163	12,415	89,743	49,346	139,089	89,743	49,346	139,089
F.C. 4.6 %	15,797	31,422	47,219	15,179	33,206	48,385	140,522	239,088	379,590	140,522	239,088	379,590
L.C. 15.5 %	15,797	25,904	41,701	15,179	27,100	42,279	140,522	195,487	335,009	140,522	195,487	335,009
Total	24,797	36,987	61,784	23,431	38,307	61,738	230,265	299,647	529,912	230,265	299,647	529,912
	24,797	30,500	55,297	23,431	31,263	54,694	230,265	244,835	475,100	230,265	244,835	475,100

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	Total				1993				1994				1995							
	X Million Rs		X Million Rs		X Million Rs		X Million Rs		X Million Rs		X Million Rs		X Million Rs		X Million Rs					
	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total			
	Eco.F.C.	Eco.L.C.	Eco.Total	%	Eco.F.C.	Eco.L.C.	Eco.Total	%	Eco.F.C.	Eco.L.C.	Eco.Total	%	Eco.F.C.	Eco.L.C.	Eco.Total	%	Eco.F.C.	Eco.L.C.	Eco.Total	
5. Arul East District(1)																				
1. Construction Cost	23,857	15,904	39,761																	
1.1. Storage Dam	23,857	12,724	36,581																	
1.2. Diversion Dam	86	129	215																	
1.3. Main Canal/Drain	86	116	202																	
Fereydon Kenal Drain	794	845	1,639																	
1.4. Secondary Canal	299	122	421																	
1.5. Tertiary Canal	1,265	1,413	2,678																	
1.6. Lane Consolidation	331	1,034	2,299																	
1.7. River Training	331	578	909																	
1.8. O/M Road	10,365	4,934	15,299																	
1.9. Miscellaneous	10,365	4,638	15,003																	
- AE-I Sub-Total (1) -	146	52	208																	
	146	52	195																	
	257	13	270																	
	257	22	279																	
	0	0	0																	
	0	0	0																	
	37,400	24,000	61,400																	
	37,400	19,805	57,205																	
2. Procurement of Equipment	2,728	254	2,982																	
3. Survey & Investigation	2,728	211	2,939																	
4. D.D. and Supervision	232	495	727																	
5. Building/Motor Pool	232	386	628																	
6. Land Acquisition	2,358	2,786	5,154																	
7. O & M Equipment	2,358	2,229	4,587																	
8. Administration (% of 1.)	32	48	80						20											
9. Physical Contingency (% of 1.)	32	38	70						6											
- AE-I Total (1-9) -	0	1,700	1,700						5											
	0	1,360	1,360						6											
	360	40	400						8											
	360	32	392						10											
	1,870	1,200	3,070						16											
	1,870	950	2,860						14											
	3,740	2,400	6,140						16											
	3,740	1,981	5,721						14											
10. Price Contingency	48,730	32,933	81,663						16											
	48,730	27,042	75,772						14											
F.C. 4.8 %	75,882	128,679	204,561						7											
L.C. 15.5 %	75,882	105,958	181,840						7											
Total	124,612	161,612	286,224						13											
	124,612	133,000	257,612						13											
									284											
									284											
									36											
									32											
									691											
									551											
									975											
									635											

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	1997			1998			1999		
	Fin.F.C. Eco.F.C. %	Fin.L.C. Eco.L.C. %	Fin.Total Eco.Total %	Fin.F.C. Eco.F.C. %	Fin.L.C. Eco.L.C. %	Fin.Total Eco.Total %	Fin.F.C. Eco.F.C. %	Fin.L.C. Eco.L.C. %	Fin.Total Eco.Total %
6. Amol East District(I)									
1. Construction Cost									
1.1. Storage Dam	30	26	39	34	52	86	30	34	52
1.2. Diversion Dam		26	35		34	46		35	61
1.3. Main Canal/Drain			10	79	85	164	15	127	246
Fereydon Kenal Drain				79	70	149		104	223
1.4. Secondary Canal							10	127	190
1.5. Tertiary Canal							10	127	190
1.6. Land Consolidation							10	33	50
1.7. River Training							10	33	50
1.8. O/M Road							10	33	50
1.9. Miscellaneous							10	33	50
- AE-I Sub-Total (1) -		26	39	113	137	250		2,886	4,361
		26	35	113	116	229		2,386	3,658
2. Procurement of Equipment									
3. Survey & Investigation	50	116	246	384					
4. D.D. and Supervision		116	198	314					
5. Building/Motor Pool	30	10	14	24					
6. Land Acquisition		10	11	21					
7. O & M Equipment									
8. Administration (% of 1.)	5%	1	2	3	6	7	13	135	233
9. Physical Contingency (% of 1.)	10%	1	2	3	6	6	12	135	233
		3	4	7	11	14	25	269	465
		3	4	7	11	12	23	269	465
- AE-I-Total (1-9) -		156	307	463	248	1,147	1,395	4,814	8,453
		156	250	406	248	925	1,173	4,814	7,724
10. Price Contingency		188	546	734	314	2,358	2,672	6,378	15,041
F.C. 4.8%		188	445	633	314	1,901	2,215	6,378	15,041
L.C. 15.5%								6,909	13,267
Total		344	853	1,197	562	3,505	4,067	11,192	23,504
		344	695	1,039	562	2,826	3,368	11,192	23,504
								16,084	30,048
								16,084	30,048
								11,548	27,632

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2000				2001				2002				2003			
	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	x Million Rls	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	x Million Rls	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	x Million Rls	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	x Million Rls
3. Amol East District(I)																
1. Construction Cost																
1.1. Storage Dam	15	3,579	2,386	5,965 15	3,579	2,386	5,965 15	3,579	2,386	5,965 15	3,579	2,386	5,965 15	3,579	2,386	5,965
		3,579	1,909	5,488		3,579	1,909	5,488		3,579	1,909	5,488		3,579	1,909	5,488
1.2. Diversion Dam																
1.3. Main Canal/Drain	15	119	127	246 15	119	127	246 15	119	127	246 15	119	127	246 15	119	127	246
		119	104	223		119	104	223		119	104	223		119	104	223
Pereydon Kenal Drain																
1.4. Secondary Canal	15	190	212	402 15	190	212	402 15	190	212	402 15	190	212	402 15	190	212	402
		190	155	345		190	155	345		190	155	345		190	155	345
1.5. Tertiary Canal	15	50	87	137 15	50	87	137 15	50	87	137 15	50	87	137 15	50	87	137
		50	63	113		50	63	113		50	63	113		50	63	113
1.6. Land Consolidation	15	1,555	740	2,295 15	1,555	740	2,295 15	1,555	740	2,295 15	1,555	740	2,295 15	1,555	740	2,295
		1,555	696	2,251		1,555	696	2,251		1,555	696	2,251		1,555	696	2,251
1.7. River Training	15	22	8	31 15	22	8	31 15	22	8	31 15	22	8	31 15	22	8	31
		22	8	30		22	8	30		22	8	30		22	8	30
1.8. O/H Road	15	39	2	41 15	39	2	41 15	39	2	41 15	39	2	41 15	39	2	41
		39	3	42		39	3	42		39	3	42		39	3	42
1.9. Miscellaneous	15	0	0	0 15	0	0	0 15	0	0	0 15	0	0	0 15	0	0	0
		0	0	0		0	0	0		0	0	0		0	0	0
- AE-I Sub-Total (1) -		5,554	3,563	9,117	5,554	3,563	9,117	5,554	3,563	9,117	5,554	3,563	9,117	5,554	3,563	9,328
		5,554	2,938	8,492		5,554	2,938	8,492		5,554	2,938	8,492		5,554	2,938	8,695
2. Procurement of Equipment																
3. Survey & Investigation																
4. D.D. and Supervision	15	355	418	773 15	355	418	773 15	355	418	773 15	355	418	773 15	355	418	773
		355	334	689		355	334	689		355	334	689		355	334	689
5. Building/Motor Pool																
6. Land Acquisition																
7. O & H Equipment																
8. Administration (% of 1.)	5 %	278	178	456	278	178	456	278	178	456	278	178	456	278	178	466
		278	147	425		278	147	425		278	147	425		278	147	435
9. Physical Contingency (% of 1.)	10 %	555	356	911	555	356	911	555	356	911	555	356	911	555	356	932
		555	294	849		555	294	849		555	294	849		555	294	869
- AE-I Total (1~9) -		6,742	4,515	11,257	6,742	4,515	11,257	6,742	4,515	11,257	6,742	4,515	11,257	6,742	4,515	11,499
		6,742	3,713	10,455		6,742	3,713	10,455		6,742	3,713	10,455		6,742	3,713	10,688
10. Price Contingency		9,810	14,299	24,109	10,281	16,516	26,797	10,775	19,076	29,851	11,660	22,374	33,954	11,660	22,374	33,954
		9,810	11,759	21,569	10,281	13,582	23,863	10,775	15,587	26,462	11,660	18,416	29,996	11,660	18,416	29,996
F.C. 4.8 %																
L.C. 15.5 %																
Total		16,552	18,814	35,366	17,023	21,031	38,054	17,517	23,591	41,108	18,494	26,959	45,453	18,494	26,959	45,453
		16,552	15,472	32,024	17,023	17,295	34,318	17,517	19,400	36,917	18,494	22,190	40,684	18,494	22,190	40,684

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2004				2005			
	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	%	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	%
G. Amol East District(I)								
1. Construction Cost								
1.1. Storage Dam	10	2,386	1,590	3,976	10	2,386	1,590	3,976
1.2. Diversion Dam		2,386	1,272	3,658		2,386	1,272	3,658
1.3. Main Canal/Drain								
Fereydon Kemal Drain	50	150	61	211				
		150	53	203				
1.4. Secondary Canal	15	190	212	402				
		190	155	345				
1.5. Tertiary Canal	15	50	87	137				
		50	63	113				
1.6. Land Consolidation	15	1,555	740	2,295	10	1,037	493	1,530
		1,555	696	2,251		1,037	464	1,501
1.7. River Training	15	22	9	31	10	15	6	21
		22	8	30		15	5	20
1.8. O/H Road	15	39	2	41	10	26	1	27
		39	3	42		26	2	28
1.9. Miscellaneous	15	0	0	0	10	0	0	0
		0	0	0		0	0	0
- AE-I Sub-Total (1) -		4,382	2,701	7,083		3,464	2,090	5,554
		4,382	2,250	6,642		3,464	1,743	5,207
2. Procurement of Equipment								
3. Survey & Investigation								
4. D.D. and Supervision	5	118	139	257				
		118	111	229				
5. Building/Motor Pool								
6. Land Acquisition and Compensation								
7. O & M Equipment	50	180	20	200	50	180	20	200
		180	16	196		180	16	196
8. Administration (% of 1.)	5%	220	135	355		173	105	278
		220	113	333		173	87	260
9. Physical Contingency (% of 1.)	10%	433	270	709		346	209	555
		433	225	658		346	174	520
- AE-I Total (1-9) -		5,349	3,265	8,614		4,163	2,424	6,587
		5,349	2,715	8,064		4,163	2,020	6,183
10. Price Contingency		9,389	18,402	27,791		7,658	15,780	23,438
F.C. 4.8%		9,389	15,302	24,691		7,658	13,150	20,808
L.C. 15.5%								
Total		14,738	21,667	36,405		11,821	18,204	30,025
		14,738	18,017	32,755		11,821	15,170	26,991

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	Total			1994			1995		
	x Million Rs			x Million Rs			x Million Rs		
	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total
H. Amol East District (II)									
I. Construction Cost:									
1.1. Storage Dam	29.716	19.811	49.527						
1.2. Diversion Dam	29.716	15.849	45.565						
1.3. Main Canal/Drain	107	161	268						
1.3. Main Canal/Drain	107	145	252						
1.3. Main Canal/Drain	928	1,037	1,965						
1.3. Main Canal/Drain	851	1,779	2,630						
1.3. Main Canal/Drain	328	135	464						
1.3. Main Canal/Drain	329	116	445						
1.4. Secondary Canal	1,544	754	2,298						
1.4. Secondary Canal	1,544	612	2,156						
1.5. Tertiary Canal	377	637	1,014						
1.5. Tertiary Canal	377	461	838						
1.6. Land Consolidation	12,203	5,753	17,956						
1.6. Land Consolidation	12,203	5,449	17,652						
1.7. River Training	181	78	259						
1.7. River Training	181	55	236						
1.7. River Training	327	17	344						
1.6. O/M Road	327	28	355						
1.9. Miscellaneous	0	0	0						
- AE-II Sub-Total (I) -	45,712	28,393	74,095	0	0	0	0	0	0
	45,712	29,576	69,288	0	0	0	0	0	0
2. Procurement of Equipment	3,410	330	3,740						
2. Procurement of Equipment	3,410	264	3,674						
3. Survey & Investigation	262	557	819				50	131	279
3. Survey & Investigation	252	446	708					131	223
4. D.D. and Supervision	2,960	3,482	6,442						
4. D.D. and Supervision	2,960	2,786	5,746						
5. Building/Motor Pool	40	60	100	20	8	28	12	20	30
5. Building/Motor Pool	40	48	88				8	18	24
6. Land Acquisition and Compensation	0	1,970	1,970						
6. Land Acquisition and Compensation	0	1,576	1,576						
7. O & M Equipment	405	45	450						
7. O & M Equipment	405	36	441						
8. Administration (% of I.)	2,256	1,419	3,705	0	0	0	0	0	0
8. Administration (% of I.)	2,256	1,179	3,465	0	0	0	0	0	0
9. Physical Contingency (% of I.)	4,571	2,608	7,409	0	0	0	0	0	0
9. Physical Contingency (% of I.)	4,571	2,358	6,929	0	0	0	0	0	0
- AE-II-Total (I-9) -	59,646	39,084	98,730	0	0	0	8	20	309
- AE-II-Total (I-9) -	59,646	32,259	91,915	0	0	0	8	18	247
10. Price Contingency	92,828	152,977	245,805	0	0	0	9	16	25
10. Price Contingency	92,828	126,612	219,440	0	0	0	9	13	22
Total	152,474	152,061	344,535	0	0	0	17	28	45
Total	152,474	158,681	311,355	0	0	0	17	23	40
F.C. 4.8 %									325
L.C. 15.5 %									628
									795
									1,110

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	1986				1987				1988				1989						
	x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls				
	Fin.L.C.	Fin.Total	Fin.L.C.	Fin.Total	Fin.L.C.	Fin.Total	Fin.L.C.	Fin.Total	Fin.L.C.	Fin.Total	Fin.L.C.	Fin.Total	Fin.L.C.	Fin.Total	Fin.L.C.	Fin.Total			
H. Amol East District(II)																			
1. Construction Cost																			
1.1. Storage Dam	32	48	60	40	43	64	107	30	32	48	80	2,972	1,981	4,953	10	2,972	1,981	4,953	
1.2. Diversion Dam	32	44	76	10	93	104	197	15	139	156	285	139	128	285	15	139	128	285	
1.3. Main Canal/Drain					93	85	178		139	128	287								
Fereydon Kenal Drain																			
1.4. Secondary Canal								10	154	75	229	15	232	113	232	15	232	113	345
1.5. Tertiary Canal								10	154	61	215	15	232	92	324	15	232	92	324
1.6. Land Consolidation									36	64	102	15	57	98	153	15	57	98	153
1.7. River Training									38	46	84	15	1,830	883	2,683	15	1,830	883	2,683
1.8. O/M Road												15	27	12	39	15	27	12	39
1.9. Miscellaneous												15	49	3	52	15	49	3	52
- AE-II Sub-Total (1) -	32	48	80	40	136	188	304	50	3,335	2,324	5,659	50	1,705	165	1,870	50	1,705	165	1,870
2. Procurement of Equipment	32	44	76	10	136	143	279		1,705	132	1,837								
3. Survey & Investigation	131	279	410		0	788	788		444	522	966								
4. D.D. and Supervision	131	223	354	5	148	174	322	15	444	418	862								
5. Building/Motor Pool	12	18	30		0	985	985		444	418	862								
6. Land Acquisition and Compensation	12	14	26	50	0	788	788		0	985	985								
7. O & M Equipment					0	788	788		0	788	788								
8. Administration (% of 1.)	2	2	4	4	7	8	15		167	116	283								
9. Physical Contingency (% of 1.)	2	2	4	4	7	7	14		167	93	260								
- AE-II-Total (1-9) -	3	5	8	8	14	17	31		334	232	566								
10. Price Contingency	3	4	7		14	14	28		334	186	520								
F.C. 4.8 %	180	352	532		305	1,352	1,657		5,985	4,344	10,329								
L.C. 15.5 %	180	287	467		305	1,091	1,396		5,985	3,481	9,466								
Total	397	978	1,375		891	4,131	4,822		13,914	14,657	28,571								
	397	798	1,195		691	3,334	4,025		13,914	11,745	25,659								

TABLE E.2.2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2000				2001				2002				2003			
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%
H. Amol East District(II)																
1. Construction Cost																
1.1. Storage Dam	15	4,457	2,972	7,429 15	4,457	2,972	7,429 15	4,457	2,972	7,429 15	4,457	2,972	7,429 15	4,457	2,972	7,429 15
1.2. Diversion Dam																
1.3. Main Canal/Drain	15	139	128	267	139	128	267	139	128	267	139	128	267	139	128	267
Fereydon Kenal Drain																
1.4. Secondary Canal	15	232	113	345 15	232	113	345 15	232	113	345 15	232	113	345 15	232	113	345 15
1.5. Tertiary Canal	15	57	96	153 15	57	96	153 15	57	96	153 15	57	96	153 15	57	96	153 15
1.6. Land Consolidation	15	1,830	863	2,693 15	1,830	863	2,693 15	1,830	863	2,693 15	1,830	863	2,693 15	1,830	863	2,693 15
1.7. River Training	15	27	12	39 15	27	12	39 15	27	12	39 15	27	12	39 15	27	12	39 15
1.8. O/H Road	15	49	3	52 15	49	3	52 15	49	3	52 15	49	3	52 15	49	3	52 15
1.9. Miscellaneous	15	49	4	53	49	4	53	49	4	53	49	4	53	49	4	53
- AE-II Sub-Total (1) -		6,791	4,215	11,006	6,791	4,215	11,006	6,791	4,215	11,006	6,791	4,215	11,006	6,791	4,215	11,006
2. Procurement of Equipment		6,791	3,497	10,288	6,791	3,497	10,288	6,791	3,497	10,288	6,791	3,497	10,288	6,791	3,497	10,288
3. Survey & Investigation																
4. D.D. and Supervision	15	444	522	966 15	444	522	966 15	444	522	966 15	444	522	966 15	444	522	966 15
5. Building/Motor Pool		444	418	862	444	418	862	444	418	862	444	418	862	444	418	862
6. Land Acquisition and Compensation																
7. O & M Equipment																
8. Administration (% of 1.)	5 %	340	211	551	340	211	551	340	211	551	340	211	551	340	211	551
9. Physical Contingency (% of 1.)	10 %	340	175	515	340	175	515	340	175	515	340	175	515	340	175	515
		679	422	1,101	679	422	1,101	679	422	1,101	679	422	1,101	679	422	1,101
		679	350	1,029	679	350	1,029	679	350	1,029	679	350	1,029	679	350	1,029
- AE-II-Total (1-9) -		8,254	5,370	13,624	8,254	5,370	13,624	8,254	5,370	13,624	8,254	5,370	13,624	8,254	5,370	13,624
		8,254	4,440	12,694	8,254	4,440	12,694	8,254	4,440	12,694	8,254	4,440	12,694	8,254	4,440	12,694
10. Price Contingency	F.C. 4.8 %	12,010	17,007	29,017	12,587	19,643	32,230	13,191	22,688	35,879	14,142	26,580	40,722	14,142	26,580	40,722
	L.C. 15.5 %	12,010	14,062	26,072	12,587	16,241	28,828	13,191	18,759	31,950	14,142	21,993	36,135	14,142	21,993	36,135
Total		20,264	22,377	42,641	20,841	25,013	45,854	21,445	28,058	49,503	22,586	32,027	54,613	22,586	32,027	54,613
		20,264	18,502	38,766	20,841	20,661	41,502	21,445	23,199	44,644	22,586	26,500	49,086	22,586	26,500	49,086

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item		2004				2006				2008			
		Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%
H. Amol East District(II)													
1. Construction Cost													
1.1. Storage Dam	10	2,972	1,981	4,953	10	2,972	1,981	4,953					
		2,972	1,985	4,957		2,972	1,985	4,957					
1.2. Diversion Dam													
1.3. Main Canal/Drain													
Fereydon Kenal Drain	50	165	68	233									
		165	58	223									
1.4. Secondary Canal	15	232	113	345									
		232	92	324									
1.5. Tertiary Canal	15	57	96	153									
		57	69	126									
1.6. Land Consolidation	15	1,830	863	2,693	10	1,220	575	1,795					
		1,830	817	2,647		1,220	545	1,765					
1.7. River Training	15	27	12	39	10	18	8	25					
		27	10	37		18	7	25					
1.8. O/H Road	15	49	3	52	10	33	2	35					
		49	4	53		33	3	36					
1.9. Miscellaneous	15	0	0	0	10	0	0	0					
		0	0	0		0	0	0					
- AE-II Sub-Total (1) -		5,332	3,136	8,468		4,243	2,566	6,809	0	0	0	0	
		5,332	2,635	7,967		4,243	2,140	6,383					
2. Procurement of Equipment													
3. Survey & Investigation													
4. D.D.and Supervision	5	148	174	322									
		148	139	287									
5. Building/Motor Pool													
6. Land Acquisition													
7. O & M Equipment	50	203	23	226	50	203	23	226					
		203	18	221		203	18	221					
8. Administration (% of 1.)	5 %	287	157	424		212	128	340	0	0	0	0	
		287	132	399		212	107	319	0	0	0	0	
9. Physical Contingency (% of 1.)	10 %	533	314	847		424	257	681	0	0	0	0	
		533	264	797		424	214	638	0	0	0	0	
- AE-II Total (1~9) -		6,463	3,804	10,267		5,082	2,974	8,056	0	0	0	0	
		6,463	3,198	9,671		5,082	2,479	7,561	0	0	0	0	
10. Price Contingency													
F.C. 4.8 %		11,379	21,440	32,819		9,348	19,360	28,708	0	0	0	0	
L.C. 15.5 %		11,379	17,968	29,347		9,348	16,138	25,486	0	0	0	0	
Total		17,862	25,244	43,106		14,430	22,334	36,764	0	0	0	0	
		17,862	21,156	39,018		14,430	16,617	33,047	0	0	0	0	

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	Total				1993				1994				1995				
	X Million Rls		%		X Million Rls		%		X Million Rls		%		X Million Rls		%		
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	
I. Ancl East District(III)																	
1. Construction Cost																	
1.1. Storage Dam	42,422	26,261	70,703														
	42,422	22,625	65,047														
	183	230	383														
1.2. Diversion Dam	1,421	1,506	2,927														
1.3. Main Canal/Drain	1,421	1,239	2,660														
	538	220	758														
Fereydon Kenal Drain	538	190	728														
1.4. Secondary Canal	1,090	640	1,730														
1.5. Tertiary Canal	1,090	508	1,598														
	2,098	1,897	3,995														
1.6. land Consolidation	21,211	13,621	35,032														
	21,211	12,986	34,197														
1.7. River Training	259	111	370														
	259	92	351														
1.8. O/M Road	388	19	387														
	388	32	400														
1.9. Miscellaneous	0	0	0														
- AE-III Sub-Total (1) -	69,560	45,725	116,285		0	0	0		0	0	0		0	0	0		0
	69,560	39,306	108,866		0	0	0		0	0	0		0	0	0		0
2. Procurement of Equipment	4,433	429	4,862														
	4,433	343	4,776														
3. Survey & Investigation	436	927	1,363		50	218	268		218	464	682		218	464	682		682
	436	742	1,178						218	371	589		218	371	589		589
4. D.L. and Supervision	3,848	4,327	8,175														
	3,848	3,622	7,470		20	10	26		10	16	26		10	16	26		26
5. Building/Motor Pool	52	62	114														
	52	62	114														
6. Land Acquisition and Compensation	0	3,073	3,073														
	0	2,458	2,458														
7. O & M Equipment	675	75	750														
	675	50	735														
8. Administration (% of 1.)	3,478	2,336	5,814		0	0	0		0	0	0		0	0	0		0
	3,478	1,855	5,443		0	0	0		0	0	0		0	0	0		0
9. Physical Contingency (% of 1.)	8,955	4,673	13,628		0	0	0		0	0	0		0	0	0		0
	8,955	3,931	10,887		0	0	0		0	0	0		0	0	0		0
- AE-III-Total (1~9) -	89,438	62,843	152,281		0	225	244		225	450	708		225	450	708		747
	89,438	52,489	141,927		0	228	244		228	383	611		228	244	402		646
10. Price Contingency	140,975	256,637	397,612		0	250	281		250	511	751		250	281	775		1,056
	140,975	215,995	356,970		0	0	0		0	0	0		0	0	0		0
Total	230,413	319,730	550,143		0	478	525		478	1,120	1,598		478	525	1,278		1,803
	230,413	268,484	498,897		0	478	525		478	884	1,372		478	525	1,021		1,546

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	1986				1987				1988				1989					
	x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls					
	Fin. F.C.	Fin. L.C.	Fin. F.C.	Fin. L.C.	Fin. F.C.	Fin. L.C.	Fin. F.C.	Fin. L.C.	Fin. F.C.	Fin. L.C.	Fin. F.C.	Fin. L.C.	Fin. F.C.	Fin. L.C.				
* Eco. F.C.	* Eco. L.C.	* Eco. F.C.	* Eco. L.C.	* Eco. F.C.	* Eco. L.C.	* Eco. F.C.	* Eco. L.C.	* Eco. F.C.	* Eco. L.C.	* Eco. F.C.	* Eco. L.C.	* Eco. F.C.	* Eco. L.C.	* Eco. F.C.	* Eco. L.C.			
1. Amol East District(III)																		
1. Construction Cost																		
1.1. Storage Dam																		
1.2. Diversion Dam	30	46	89	115	40	61	92	153	30	42	42	2,828	7,070	10	4,242	2,828	2,828	7,070
1.3. Main Canal/Drain		46	62	108		61	83	144		45	62	108	115		4,242	2,263	2,263	6,505
Fereydon Kenal Drain					10	142	151	293	15	213	226	439	15		213	226	439	439
1.4. Secondary Canal						142	124	256		213	186	389			213	186	389	389
1.5. Tertiary Canal					10	109	109	54		109	109	173	10		109	109	173	173
1.6. Land Consolidation					10	109	51	160		109	51	160			109	51	160	160
1.7. River Training					10	210	190	400		210	190	400			210	190	400	400
1.8. O/H Road						210	143			210	143				210	143		353
1.9. Miscellaneous																		3,503
- AE-III Sub-Total (1) -	46	69	115	203	445	203	243	445		4,820	3,377	8,197			6,958	4,703	11,661	
2. Procurement of Equipment	46	62	103	203	410	203	207	410		4,820	2,705	7,525			6,958	3,954	10,912	
3. Survey & Investigation					50	2,217	215	2,432		2,217	172	2,389			2,217	172	2,389	
4. D.P. and Supervision					5	192	226	418		385	453	838			577	678	1,256	
5. Building/Motor Pool	30	16	23	39		192	181	373		385	362	747			577	543	1,120	
6. Land Acquisition and Compensation		16	19	35		0	1,537	1,537	50	0	1,537	1,537			0	0	0	
7. O & M Equipment					50	0	1,229	1,229		0	1,229	1,229			0	0	0	
8. Administration (% of 1.)	5 %	2	3	5		10	12	22		241	189	410			348	235	583	
9. Physical Contingency (% of 1.)	10 %	2	3	5		10	10	20		241	135	376			348	198	546	
- AE-III-Total (1-9) -		5	7	12		20	24	44		482	338	820			696	470	1,166	
10. Price Contingency		5	6	11		20	21	41		482	271	753			696	395	1,091	
F.C. 4.8 %	69	102	171	265		425	2,042	2,467		8,145	6,089	14,234			10,786	6,302	17,088	
L.C. 15.5 %	69	90	159	243		425	1,648	2,073		8,145	4,874	13,019			10,796	5,262	16,058	
Total	152	284	436	720		962	6,239	7,201		18,936	20,545	39,481			25,786	23,582	49,368	
	152	280	402	697		962	5,036	5,997		18,936	16,445	35,381			25,786	19,691	45,477	

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2000				2001				2002				2003			
	x Million Rls				x Million Rls				x Million Rls				x Million Rls			
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%
I. Anol East District(III)																
1. Construction Cost	6,363	4,242	10,605	15	6,363	4,242	10,605	15	6,363	4,242	10,605	15	6,363	4,242	10,605	15
1.1. Storage Dam	6,363	3,394	9,757		6,363	3,394	9,757		6,363	3,394	9,757		6,363	3,394	9,757	
1.2. Diversion Dam																
1.3. Main Canal/Drain	213	226	439	15	213	226	439	15	213	226	439	15	213	226	439	15
Fereydon Kenal Drain	213	186	399		213	186	399		213	186	399		213	186	399	
1.4. Secondary Canal	164	96	260	15	164	96	260	15	164	96	260	15	164	96	260	15
1.5. Tertiary Canal	315	76	391		315	76	391		315	76	391		315	76	391	
1.6. Land Consolidation	2,121	1,382	3,503	15	2,121	1,382	3,503	15	2,121	1,382	3,503	15	2,121	1,382	3,503	15
1.7. River Training	26	11	37	15	26	11	37	15	26	11	37	15	26	11	37	15
1.8. O/H Road	37	2	39	15	37	2	39	15	37	2	39	15	37	2	39	15
1.9. Miscellaneous	0	0	0	15	0	0	0	15	0	0	0	15	0	0	0	15
- AE-III Sub-Total (1) -	9,239	6,244	15,483		9,239	6,244	15,483		9,239	6,244	15,483		9,239	6,244	15,483	
	9,239	5,181	14,420		9,239	5,181	14,420		9,239	5,181	14,420		9,239	5,181	14,420	
2. Procurement of Equipment																
3. Survey & Investigation																
4. D.D. and Supervision	577	679	1,256	15	577	679	1,256	15	577	679	1,256	15	577	679	1,256	15
5. Building/Motor Pool	577	543	1,120		577	543	1,120		577	543	1,120		577	543	1,120	
6. Land Acquisition																
and Compensation																
7. O & M Equipment																
8. Administration (% of 1.)	462	312	774	5 %	462	312	774	5 %	462	312	774	5 %	462	312	774	5 %
9. Physical Contingency (% of 1.)	924	624	1,548	10 %	924	624	1,548	10 %	924	624	1,548	10 %	924	624	1,548	10 %
- AE-III-Total (1~9) -	11,202	7,659	18,861		11,202	7,659	18,861		11,202	7,659	18,861		11,202	7,659	18,861	
	11,202	6,501	17,703		11,202	6,501	17,703		11,202	6,501	17,703		11,202	6,501	17,703	
10. Price Contingency	16,300	24,890	41,190	F.C. 4.8 %	16,300	24,890	41,190	F.C. 4.8 %	16,300	24,890	41,190	F.C. 4.8 %	16,300	24,890	41,190	F.C. 4.8 %
				L.C. 15.5 %				L.C. 15.5 %				L.C. 15.5 %				L.C. 15.5 %
Total	27,502	32,749	60,251		27,502	32,749	60,251		27,502	32,749	60,251		27,502	32,749	60,251	
	27,502	27,090	54,592		27,502	27,090	54,592		27,502	27,090	54,592		27,502	27,090	54,592	

TABLE E. 2. 2-13 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITH MANGOL DAM CASE)

Work Description/Item	2005				2006				x Million Rls			
	Fin.F.C. %	Fin.L.C. %	Fin.Total	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total	Fin.Total %	Eco.F.C. %	Eco.L.C. %	Eco.Total	Eco.Total %
I. Amol East District(III)												
1. Construction Cost												
1.1. Storage Dam	10	4,242	2,828	7,070	10	4,242	2,828	7,070				
1.2. Diversion Dam		4,242	2,263	6,505		4,242	2,263	6,505				
1.3. Main Canal/Drain												
Fereydon Kenal Drain	50	268	110	379								
1.4. Secondary Canal	10	269	95	364								
1.5. Tertiary Canal	10	109	64	173	10	109	64	173				
1.6. Land Consolidation	15	210	180	400	10	210	180	400				
1.7. River Training	15	3,182	2,073	5,255	10	2,121	1,382	3,503				
1.8. O/H Road	15	39	17	56	10	26	11	37				
1.9. Miscellaneous	15	55	14	69	10	55	9	64				
- AE-III Sub-Total (1) -		8,106	5,285	13,391		6,745	4,477	11,222				
2. Procurement of Equipment		8,106	4,519	12,625		6,745	3,768	10,513				
3. Survey & Investigation												
4. D.D. and Supervision	10	385	453	838	5	192	226	418				
5. Building/Motor Pool		385	382	747		192	181	373				
6. Land Acquisition and Compensation												
7. O & M Equipment				50								
8. Administration (% of 1.)	5 %	495	254	669		336	38	376				
9. Physical Contingency (% of 1.)	10 %	495	226	631		337	224	561				
- AE-III-Total (1~9) -		8,111	5,299	13,410		6,745	4,477	11,222				
10. Price Contingency	F.C. 4.8 %	9,707	6,531	16,238		8,287	5,413	13,700				
L.C. 15.5 %		9,707	5,559	15,266		8,287	4,544	12,831				
Total		26,745	43,341	70,086		23,531	40,850	64,381				
		26,745	36,890	63,635		23,531	34,124	57,655				
						8,341	13,936	22,337				
						8,341	13,102	21,443				
						5,492	12,353	17,845				
						5,492	11,564	17,056				

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	Annual Disbursement Schedule											
	Total			1993			1994			1995		
	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total
	281,176	188,209	469,385	0	0	0	4,920	5,515	10,445	2,133	7,032	9,165
	279,191	188,185	467,376	0	0	0	2,944	2,044	4,988	2,133	5,627	7,760
	422,213	641,685	1,063,898	0	0	0	5,415	7,357	12,772	2,455	10,835	13,290
J. Price Contingency	420,031	552,716	972,747	0	0	0	3,233	2,727	5,960	2,455	8,670	11,125
	703,389	829,894	1,533,283	0	0	0	10,345	12,872	23,217	4,588	17,867	22,455
Grand Total	699,222	710,901	1,410,123	0	0	0	8,177	4,771	10,948	4,588	14,297	18,885
	11,164	10,571	21,735	20,456	16,325	35,782	27,622	21,532	49,154	41,863	23,508	65,371
	11,164	8,953	19,517	20,456	13,429	33,885	27,622	17,563	45,205	41,863	20,012	51,875
	13,467	18,812	32,279	25,860	33,558	59,419	36,595	51,118	87,713	58,123	64,450	122,585
J. Price Contingency	13,467	14,865	28,332	25,860	27,603	53,463	36,595	41,743	78,338	58,123	54,872	112,997
	24,631	25,383	54,014	46,316	49,884	96,200	64,217	72,650	136,367	99,988	87,968	187,956
Grand Total	24,631	23,216	47,849	46,316	41,032	87,348	64,217	59,326	123,543	99,988	74,884	174,872

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	2000				2001				2002				2003				2006			
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%
Total (A-I)	34,026	22,755	56,781		33,861	21,866	55,827		32,450	19,489	51,919		30,362	17,396	47,758		281,223	188,274	469,497	
	34,026	19,516	53,542		33,861	19,061	52,922		32,450	17,138	49,588		30,362	15,403	45,765		279,237	158,240	437,477	
J. Price Contingency	49,511	72,066	121,577		51,636	80,351	131,987		51,859	82,255	134,114		50,852	84,889	135,741		422,213	841,685	1,063,898	
	49,511	61,808	111,319		51,636	69,724	121,360		51,859	72,407	124,265		50,852	75,164	126,016		429,031	552,716	972,747	
Grand Total	83,537	94,821	178,358		85,497	102,217	187,714		84,309	101,724	186,033		81,214	102,285	183,499		703,436	829,959	1,533,395	
	83,537	81,324	164,861		85,497	88,785	174,282		84,309	89,545	173,854		81,214	90,567	171,781		699,268	710,956	1,410,224	
				F.C. 4.8 % L.C. 15.5 %																

Work Description/Item	2004				2005				2006				Total							
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%				
Total (A-I)	23,811	12,948	36,759		12,534	6,528	19,062		6,011	2,728	8,739		281,223	188,274	469,497					
	23,811	11,808	35,419		12,534	5,893	18,427		6,011	2,573	8,584		279,237	158,240	437,477					
J. Price Contingency	41,794	72,977	114,771		23,056	42,496	65,552		11,588	20,511	32,099		422,213	841,685	1,063,898					
	41,794	65,425	107,219		23,056	38,362	61,418		11,588	19,345	30,934		429,031	552,716	972,747					
Grand Total	65,605	85,925	151,530		35,590	49,024	84,614		17,599	23,239	40,838		703,436	829,959	1,533,395					
	65,605	77,033	142,638		35,590	44,255	79,845		17,599	21,919	39,518		699,268	710,956	1,410,224					
				F.C. 4.8 % L.C. 15.5 %																

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	Total				1993				1994				1995				
	x Million Rs				x Million Rs				x Million Rs				x Million Rs				
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	
A. Harek West District																	
1. Construction Cost																	
1.1. Storage Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.2. Diversion Dam	379	569	948	100	379	569	948	100	379	569	948	100	379	569	948	100	
1.3. Main Canal/Drain	567	253	820		0	0	0		0	0	0		0	0	0		
1.4. Secondary Canal	567	223	790		0	0	0		0	0	0		0	0	0		
1.5. Tertiary Canal	3,913	5,997	9,910		567	223	790		567	223	790		567	223	790		
1.6. Land Consolidation	2,813	4,703	7,516		3,913	5,997	9,910		3,913	5,997	9,910		3,913	5,997	9,910		
1.7. River Training	1,628	4,182	5,810		1,628	4,182	5,810		1,628	4,182	5,810		1,628	4,182	5,810		
1.8. O/M Road	1,628	3,011	4,639		1,628	3,011	4,639		1,628	3,011	4,639		1,628	3,011	4,639		
1.9. Miscellaneous	24,228	8,251	32,479		24,228	8,251	32,479		24,228	8,251	32,479		24,228	8,251	32,479		
	24,228	7,891	32,119		24,228	7,891	32,119		24,228	7,891	32,119		24,228	7,891	32,119		
	891	102	993		891	102	993		891	102	993		891	102	993		
	691	144	835		691	144	835		691	144	835		691	144	835		
	349	18	367		349	18	367		349	18	367		349	18	367		
	349	30	379		349	30	379		349	30	379		349	30	379		
	0	0	0		0	0	0		0	0	0		0	0	0		
	0	0	0		0	0	0		0	0	0		0	0	0		
- HW Sub-Total (1) -	31,755	19,372	51,127	0	0	0	0	0	946	822	1,768	0	0	0	0	0	
	31,376	16,002	47,378		31,376	16,002	47,378		31,376	16,002	47,378		31,376	16,002	47,378		
2. Procurement of Equipment	4,774	462	5,236		4,774	462	5,236		4,774	462	5,236		4,774	462	5,236		
3. Survey & Investigation	4,774	370	5,144		4,774	370	5,144		4,774	370	5,144		4,774	370	5,144		
4. D.B. and Supervision	432	918	1,350		432	918	1,350		432	918	1,350		432	918	1,350		
5. Building/Motor Pool	3,444	734	4,178		3,444	734	4,178		3,444	734	4,178		3,444	734	4,178		
6. Land Acquisition and Compensation	3,444	4,525	7,969		3,444	4,525	7,969		3,444	4,525	7,969		3,444	4,525	7,969		
7. O & M Equipment	3,444	3,620	7,064		3,444	3,620	7,064		3,444	3,620	7,064		3,444	3,620	7,064		
8. Administration (% of 1.)	56	84	140		56	84	140		56	84	140		56	84	140		
9. Physical Contingency (% of 1.)	56	67	123		56	67	123		56	67	123		56	67	123		
	0	2,025	2,025		0	2,025	2,025		0	2,025	2,025		0	2,025	2,025		
	0	1,860	1,860		0	1,860	1,860		0	1,860	1,860		0	1,860	1,860		
	575	75	650		575	75	650		575	75	650		575	75	650		
	575	60	635		575	60	635		575	60	635		575	60	635		
	1,568	969	2,537		1,568	969	2,537		1,568	969	2,537		1,568	969	2,537		
	1,568	809	2,377		1,568	809	2,377		1,568	809	2,377		1,568	809	2,377		
	3,176	1,937	5,113		3,176	1,937	5,113		3,176	1,937	5,113		3,176	1,937	5,113		
	3,136	1,600	4,736		3,136	1,600	4,736		3,136	1,600	4,736		3,136	1,600	4,736		
- HW - Total (1-9) -	45,900	30,667	76,567	0	0	0	0	0	1,315	1,421	2,736	0	415	1,890	2,305	0	
	45,464	25,113	70,577		45,464	25,113	70,577		45,464	25,113	70,577		45,464	25,113	70,577		
10. Price Contingency	54,731	81,676	136,407		54,731	81,676	136,407		54,731	81,676	136,407		54,731	81,676	136,407		
	54,252	68,721	122,973		54,252	68,721	122,973		54,252	68,721	122,973		54,252	68,721	122,973		
F.C. 4.8 %																	
L.C. 15.5 %																	
Total	110,631	112,343	222,974	0	0	0	0	0	2,759	3,317	6,076	0	895	4,802	5,697	0	
	109,716	93,834	203,550		109,716	93,834	203,550		109,716	93,834	203,550		109,716	93,834	203,550		

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	1998			1997			1996			1995		
	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total
A. Haraz West District												
1. Construction Cost												
1.1. Storage Dam												
1.2. Diversion Dam												
1.3. Main Canal/Drain												
1.4. Secondary Canal												
1.5. Tertiary Canal												
1.6. Land Consolidation												
1.7. River Training												
1.8. O/M Road												
1.9. Miscellaneous												
- HA Sub-Total (1) -												
2. Procurement of Equipment												
3. Survey & Investigation												
4. E.E. and Supervision												
5. Building/Motor Pool												
6. Land Acquisition and Compensation												
7. O & M Equipment												
8. Administration (% of 1.)												
9. Physical Contingency (% of 1.)												
- HW - Total (1-9) -												
10. Price Contingency												
F.C. 4.8 %												
L.C. 15.5 %												
Total												

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	2000			2001			2002			2003		
	Fin.F.C. Eco.F.C. %	Fin.L.C. Eco.L.C. %	Fin.Total Eco.Total %	Fin.F.C. Eco.F.C. %	Fin.L.C. Eco.L.C. %	Fin.Total Eco.Total %	Fin.F.C. Eco.F.C. %	Fin.L.C. Eco.L.C. %	Fin.Total Eco.Total %	Fin.F.C. Eco.F.C. %	Fin.L.C. Eco.L.C. %	Fin.Total Eco.Total %
A. Haraz West District												
i. Construction Cost												
1.1. Storage Dam	0	0	0	0	0	0	0	0	0	0	0	0
1.2. Diversion Dam	0	0	0	0	0	0	0	0	0	0	0	0
1.3. Main Canal/Drain												
1.4. Secondary Canal	783	1,199	1,982									
1.5. Tertiary Canal	783	941	1,724									
1.6. Land Consolidation	244	452	696	244	452	696	244	452	696	244	452	696
1.7. River Training	3,634	1,236	4,872	3,634	1,236	4,872	3,634	1,236	4,872	3,634	1,236	4,872
1.8. O/M Road	104	15	119	104	15	119	104	15	119	104	15	119
1.9. Miscellaneous	104	22	126	104	22	126	104	22	126	104	22	126
- HW Sub-Total (i) -	52	5	57	52	5	57	52	5	57	52	5	57
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	4,817	3,082	7,899	4,034	1,983	6,017	3,790	1,256	5,046	3,790	1,256	5,046
	4,817	2,604	7,421	4,034	1,663	5,697	3,790	1,211	5,001	3,790	1,211	5,001
2. Procurement of Equipment												
3. Survey & Investigation												
4. D.D. and Supervision	344	453	797	344	453	797	344	453	797	344	453	797
5. Building/Motor Pool	344	362	706	344	362	706	344	362	706	344	362	706
6. Land Acquisition and Compensation												
7. O & M Equipment												
8. Administration (% of 1.)	241	154	395	202	94	296	190	83	273	190	83	273
9. Physical Contingency (% of 1.)	482	308	790	403	188	591	379	186	565	379	186	565
- HW - Total (1-9) -	5,884	3,997	9,881	4,983	2,618	7,601	4,669	1,709	6,378	4,669	1,709	6,378
	5,884	3,356	9,240	4,983	2,274	7,257	4,669	1,694	6,363	4,669	1,694	6,363
10. Price Contingency	8,562	12,659	21,221	7,599	9,877	17,476	7,761	7,220	14,981	7,761	7,220	14,981
	8,562	10,629	19,191	7,599	8,318	15,917	7,761	6,777	14,538	7,761	6,777	14,538
Total												
	14,446	16,656	31,102	12,582	12,195	24,777	12,650	8,929	21,579	13,024	10,649	23,673
	14,446	13,985	28,431	12,582	10,592	23,174	12,650	8,361	21,011	13,024	9,431	22,455

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	2004			2005			2006			Total		
	Fin.F.C.	Fin.L.C.	Eco.L.C.	Fin.F.C.	Fin.L.C.	Eco.L.C.	Fin.F.C.	Fin.L.C.	Eco.L.C.	Fin.F.C.	Fin.L.C.	Eco.L.C.
A. Haraz West District												
1. Construction Cost												
1.1. Storage Dam	10	0	0	0	10	0	0	0	0	379	569	948
1.2. Diversion Dam												
1.3. Main Canal/Drain										567	253	820
1.4. Secondary Canal										567	223	790
1.5. Tertiary Canal										3,915	5,995	9,910
1.6. Land Consolidation										1,628	4,705	6,333
1.7. River Training										1,628	4,180	5,808
1.8. O/N Road										1,628	3,012	4,640
1.9. Miscellaneous										24,227	8,253	32,480
- HW Sub-Total (1) -	0	0	0	0	0	0	0	0	0	347	33	380
2. Procurement of Equipment												
3. Survey & Investigation										4,774	462	5,236
4. D.B. and Supervision										4,774	370	5,144
5. Building/Water Pool										432	918	1,350
6. Land Acquisition and Compensation										432	734	1,166
7. O & M Equipment										2,443	4,526	6,969
8. Administration (% of 1.)										56	84	140
9. Physical Contingency (% of 1.)										56	67	123
- HW - Total (1-9) -	0	0	0	0	0	0	0	0	0	2,325	2,326	4,651
10. Price Contingency										0	1,860	1,860
F.C. 4.8%										676	76	752
L.C. 15.5%										676	60	736
Total										110,833	112,344	223,177
										109,718	93,845	203,563

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	Total			1993			1994			1995		
	x Million Rls			x Million Rls			x Million Rls			x Million Rls		
	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total
E. Hazrat East District(I)												
1. Construction Cost												
1.1. Storage Dam	0	0	0	0	0	0	0	0	0	0	0	0
1.2. Diversion Dam	391	587	978	100	391	587	978	391	587	978	391	587
1.3. Main Canal/Drain	906	557	1,463	100	906	557	1,463	906	557	1,463	906	557
Kari Rud K.C.	879	175	1,054		879	175	1,054	879	175	1,054	879	175
1.4. Secondary Canal	291	140	431		291	140	431	291	140	431	291	140
1.5. Tertiary Canal	4,161	4,067	8,228		4,161	4,067	8,228	4,161	4,067	8,228	4,161	4,067
1.6. Land Consolidation	1,316	2,224	3,540		1,316	2,224	3,540	1,316	2,224	3,540	1,316	2,224
1.7. River Training	25,413	10,599	36,012		25,413	10,599	36,012	25,413	10,599	36,012	25,413	10,599
1.8. O/M Road	271	116	387		271	116	387	271	116	387	271	116
1.9. Miscellaneous	271	97	368		271	97	368	271	97	368	271	97
- HE-I Sub-total (1) -	32,129	20,312	52,441	0	0	0	0	1,297	1,444	2,741	0	0
2. Procurement of Equipment	32,511	16,720	49,231	0	0	0	0	679	1,175	1,854	0	0
3. Survey & Investigation	5,115	495	5,610		5,115	495	5,610	5,115	495	5,610	5,115	495
4. D.D. and Supervision	5,115	396	5,511		5,115	396	5,511	5,115	396	5,511	5,115	396
5. Building/Motor Pool	374	796	1,170		374	796	1,170	374	796	1,170	374	796
6. Land Acquisition and Compensation	3,800	637	4,437		3,800	637	4,437	3,800	637	4,437	3,800	637
7. O & M Equipment	3,690	4,848	8,538		3,690	4,848	8,538	3,690	4,848	8,538	3,690	4,848
8. Administration (% of 1.)	60	90	150		60	90	150	12	18	30	12	18
9. Physical Contingency (% of 1.)	50	72	122		50	72	122	12	14	26	12	14
- HE-I - Total (1-9) -	0	2,015	2,015	0	0	0	0	0	0	0	0	0
10. Price Contingency	0	1,612	1,612	0	0	0	0	0	0	0	0	0
F.C. 4.6 %	585	65	650		585	65	650	585	65	650	585	65
L.C. 15.5 %	585	52	637		585	52	637	585	52	637	585	52
Total	47,922	31,668	79,590	0	0	0	0	1,691	1,721	3,412	402	1,693
	47,212	25,875	73,087	0	0	0	0	980	535	1,515	462	1,355
	68,466	91,438	159,904	0	0	0	0	1,657	2,309	4,166	483	2,509
	67,705	77,267	144,972	0	0	0	0	1,076	714	1,790	463	2,068
Total	116,408	123,106	239,514	0	0	0	0	3,548	4,040	7,588	865	4,302
	114,917	103,142	218,059	0	0	0	0	2,056	1,249	3,305	865	3,443

TABLE E. 2. 2 - 14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	1996			1997			1989			1989		
	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total
E. Haraz East District(I)												
1. Construction Cost												
1.1. Storage Dam												
1.2. Diversion Dam												
1.3. Main Canal/Drain												
Kari Rud M.C.												
1.4. Secondary Canal	15	624	776	1,400	15	73	73	115	25	43	43	116
1.5. Tertiary Canal	10	332	368	441	15	197	197	234	15	197	197	35
1.6. Land Consolidation		132	222	354	10	2,541	2,541	3,601	10	2,541	2,541	108
1.7. River Training					10	27	27	39	10	12	12	35
1.8. O/M Road					10	38	38	40	10	38	38	108
1.9. Miscellaneous					10	38	38	41	10	38	38	35
- HE-I Sub-Total (I) -		756	1,065	1,841		3,500	3,500	5,856		3,708	3,708	1,867
2. Procurement of Equipment	50	2,558	198	2,756	50	2,558	2,558	2,806	50	2,558	2,558	1,867
3. Survey & Investigation												
4. D.D. and Supervision	10	365	485	854	15	554	554	727	15	738	738	1,231
5. Building/Actor Pool	30	389	388	757	45	554	554	738	45	738	738	1,136
6. Land Acquisition and Compensation	50	18	22	40								
7. O & M Equipment		0	1,008	1,008		806	806					
8. Administration (% of I.)	5%	38	54	92		175	175	293		185	185	409
9. Physical Contingency (% of I.)	10%	76	108	185		350	350	582		371	371	866
- HE-I Total (I-9) -		4,602	3,016	6,831		7,137	7,137	10,622		6,002	6,002	2,771
10. Price Contingency	F.C. 4.8%	4,602	5,357	9,959		9,022	9,022	16,586		8,527	8,527	20,703
	L.C. 15.5%		4,219	8,821		9,022	9,022	15,352		8,527	8,527	18,662
Total		8,417	8,383	16,800		16,159	16,159	27,418		11,629	11,629	31,372
		8,417	6,590	15,007		15,159	15,159	25,559		11,629	11,629	28,857

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	2000				2001				2002				2003			
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%
B. Haraz East District:(1)																
1. Construction Cost	0	0	0	0.15	0	0	0	0.15	0	0	0	0.15	0	0	0	0
1.1. Storage Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.2. Diversion Dam																
1.3. Main Canal/Drain																
Kari Rud M.C.	73	43	116													
1.4. Secondary Canal	73	35	108													
1.5. Tertiary Canal	824	776	1,400	15	824	776	1,400	15	824	776	1,400	15	824	776	1,400	15
1.6. Land Consolidation	197	463	660	15	197	463	660	15	197	463	660	15	197	463	660	15
1.7. River Training	3,812	1,590	5,402	15	3,812	1,590	5,402	15	3,812	1,590	5,402	15	3,812	1,590	5,402	15
1.8. O/M Road	41	17	58	15	41	17	58	15	41	17	58	15	41	17	58	15
1.9. Miscellaneous	57	3	60	15	57	3	60	15	57	3	60	15	57	3	60	15
- HE- I Sub-Total (1)	4,804	2,892	7,696		4,731	2,849	7,580		4,731	2,849	7,580		4,731	2,849	7,580	
2. Procurement of Equipment	554	727	1,281	10	369	485	854	5	185	242	427	5	185	242	427	5
3. Survey & Investigation	554	562	1,116		369	388	757		185	194	379		185	194	379	
4. D.D. and Supervision																
5. Building/Motor Pool																
6. Land Acquisition and Compensation																
7. O & M Equipment																
8. Administration (% of 1.)	240	145	385	5 %	237	142	379		205	104	309		205	104	309	
9. Physical Contingency (% of 1.)	480	289	769	10 %	473	285	758		411	207	618		411	207	618	
- HE- I Total (1-9)	8,078	4,053	12,131		8,860	4,731	13,591		7,844	4,111	11,955		7,844	4,111	11,955	
10. Price Contingency	8,844	12,836	21,680	4.8 %	8,844	12,836	21,680	4.8 %	8,844	12,836	21,680	4.8 %	8,844	12,836	21,680	4.8 %
F.C. 4.8 %																
L.C. 15.5 %																
Total	14,922	16,889	31,811		14,870	17,519	32,389		12,762	13,721	26,473		9,295	8,878	18,173	
	14,922	14,393	29,315		14,870	14,994	29,864		12,762	12,143	24,905		9,295	8,138	17,433	

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	2004				2005				2006				Total			
	x Million Rls				x Million Rls				x Million Rls				x Million Rls			
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Eco.F.C.	Eco.L.C.	Eco.Total	%
E. Haraz East District(1)																
1. Construction Cost																
i.1. Storage Dam	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
i.2. Diversion Dam																
i.3. Main Canal/Brain																
Kari Rud M.C.																
i.4. Secondary Canal																
i.5. Tertiary Canal																
i.6. Land Consolidation	10	2,541	1,060	3,601												
i.7. River Training	10	2,541	999	3,540												
i.8. O/M Road	10	27	12	39												
i.9. Miscellaneous	10	38	2	40												
- HE-I Sub-Total (1) -		2,806	1,074	3,880												
2. Procurement of Equipment		2,806	1,012	3,818												
3. Survey & Investigation																
4. D.D.and Supervision																
5. Building/Motor Pool																
6. Land Acquisition and Compensation																
7. O & M Equipment	50	293	33	326												
8. Administration (% of 1.)	5%	293	26	319												
9. Physical Contingency (% of 1.)	10%	130	54	184												
- HE-I - Total (1-9) -		3,290	1,368	4,658												
10. Price Contingency		3,290	1,190	4,480												
F.C. 4.8%		5,775	7,147	12,922												
L.C. 15.5%		5,775	8,707	14,482												
Total		9,065	8,415	17,480												
		9,065	7,897	16,962												

TABLE E. 2. 2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	1993				1994				1995			
	Total		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls	
	Fin.F.C.	Fin.L.C.	Fin.F.C.	Fin.L.C.	Fin.F.C.	Fin.L.C.	Fin.F.C.	Fin.L.C.	Fin.F.C.	Fin.L.C.	Fin.F.C.	Fin.L.C.
C. Haraz East District(II)												
1. Construction Cost												
1.1. Storage Dam	0	0	0	0	0	0	0	0	0	0	0	0
1.2. Diversion Dam	303	455	758	0	100	303	455	758	0	0	0	0
1.3. Main Canal/Drain	744	443	1,187	0	100	744	443	1,187	0	0	0	0
Kari Rud M.C.	568	146	714	0	0	568	146	714	0	0	0	0
	226	133	359	0	0	226	133	359	0	0	0	0
	226	108	334	0	0	226	108	334	0	0	0	0
1.4. Secondary Canal	1,076	1,036	2,112	0	0	1,076	1,036	2,112	0	0	0	0
	1,076	807	1,883	0	0	1,076	807	1,883	0	0	0	0
1.5. Tertiary Canal	1,147	1,441	2,588	0	0	1,147	1,441	2,588	0	0	0	0
	1,147	1,061	2,208	0	0	1,147	1,061	2,208	0	0	0	0
1.6. Land Consolidation	15,757	7,955	23,712	0	0	15,757	7,955	23,712	0	0	0	0
	15,757	7,537	23,294	0	0	15,757	7,537	23,294	0	0	0	0
1.7. River Training	210	90	300	0	0	210	90	300	0	0	0	0
	210	75	285	0	0	210	75	285	0	0	0	0
1.8. O/M Road	334	17	351	0	0	334	17	351	0	0	0	0
	334	25	359	0	0	334	25	359	0	0	0	0
1.9. Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0
- HE-II Sub-Total (1) -	19,797	11,570	31,367	0	0	19,797	11,570	31,367	0	0	0	0
	19,318	9,759	29,077	0	0	19,318	9,759	29,077	0	0	0	0
2. Procurement of Equipment	3,751	363	4,114	0	0	3,751	363	4,114	0	0	0	0
	3,751	280	4,041	0	0	3,751	280	4,041	0	0	0	0
3. Survey & Investigation	317	573	900	0	0	317	573	900	0	0	0	0
	317	538	855	0	0	317	538	855	0	0	0	0
4. D.D. and Supervision	2,706	3,655	6,361	0	0	2,706	3,655	6,361	0	0	0	0
	2,706	2,844	5,550	0	0	2,706	2,844	5,550	0	0	0	0
5. Building/Motor Pool	44	66	110	0	0	44	66	110	0	0	0	0
	44	53	97	0	0	44	53	97	0	0	0	0
6. Land Acquisition and Compensation	0	1,705	1,705	0	0	0	1,705	1,705	0	0	0	0
	0	1,364	1,364	0	0	0	1,364	1,364	0	0	0	0
7. O & M Equipment	495	55	550	0	0	495	55	550	0	0	0	0
	495	44	539	0	0	495	44	539	0	0	0	0
8. Administration (% of I.) 5 %	990	579	1,569	0	0	990	579	1,569	0	0	0	0
	966	488	1,454	0	0	966	488	1,454	0	0	0	0
9. Physical Contingency 10 % (% of I.)	1,960	1,137	3,127	0	0	1,960	1,137	3,127	0	0	0	0
	1,932	976	2,908	0	0	1,932	976	2,908	0	0	0	0
- HE-II Total (1-9) -	30,080	19,723	49,803	0	0	30,080	19,723	49,803	0	0	0	0
	29,529	16,365	45,895	0	0	29,529	16,365	45,895	0	0	0	0
10. Price Contingency F.C. 4.8 % L.C. 15.5 %	42,888	57,431	100,329	0	0	42,888	57,431	100,329	0	0	0	0
	42,233	49,573	91,806	0	0	42,233	49,573	91,806	0	0	0	0
Total	72,978	77,154	150,132	0	0	72,978	77,154	150,132	0	0	0	0
	71,822	65,929	137,751	0	0	71,822	65,929	137,751	0	0	0	0
				2,879	3,228				2,879	3,228		
				1,723	1,046				1,723	1,046		
				680	2,769				680	2,769		
				3,560	4,240				3,560	4,240		
				2,946	3,526				2,946	3,526		

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	1996			1997			1998			1999		
	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %
C. Haraz East District(II)												
1. Construction Cost												
1.1. Storage Dam												
1.2. Diversion Dam												
1.3. Main Canal/Drain												
Kari Rud M.C.												
1.4. Secondary Canal												
1.5. Tertiary Canal												
1.6. Land Consolidation												
1.7. River Training												
1.8. O/M Road												
1.9. Miscellaneous												
- HE-II Sub-Total (1) -	276	299	575	2,020	1,211	3,231	2,074	1,263	3,337	2,880	1,666	4,546
2. Procurement of Equipment	1,876	182	2,058	1,876	182	2,058	2,074	1,112	3,186	2,890	1,493	4,383
3. Survey & Investigation												
4. D.D. and Supervision	271	356	627	406	533	939	541	711	1,252	406	533	939
5. Building/Noter Pool	13	294	307	406	427	833	541	569	1,110	406	427	833
6. Land Acquisition and Compensation	13	16	29									
7. O & M Equipment	0	682	682									
8. Administration (% of 1.)	14	15	29	101	61	162	104	63	167	145	83	228
9. Physical Contingency (% of 1.)	14	11	25	101	54	155	104	56	160	145	75	220
- HE-II-Total (1-9) -	2,478	1,755	4,233	4,505	2,108	6,613	2,926	1,848	4,774	3,730	2,144	5,874
10. Price Contingency	2,478	1,388	3,866	4,685	1,605	6,290	3,877	1,195	5,072	3,730	1,195	4,925
F.C. 4.8 %	2,989	2,470	5,459	5,822	3,710	9,532	3,877	4,387	8,264	5,179	5,879	11,058
L.C. 15.5 %												
Total	5,467	4,878	10,345	10,427	6,441	16,868	6,803	7,288	14,101	6,909	8,164	15,073
	5,457	3,858	9,315	10,427	5,515	15,942	6,803	6,255	13,058	6,909	8,023	14,932

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	2000				2001				2002				2003			
	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	x Million Ris	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	x Million Ris	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	x Million Ris	Fin.F.C. %	Fin.L.C. Eco.L.C.	Fin.Total Eco.Total	x Million Ris
C. Hazrat East District(II)																
I. Construction Cost																
1.1. Storage Dam	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.2. Diversion Dam																
1.3. Main Canal/Drain																
Kari Rud M.C.	25	57	32	90												
1.4. Secondary Canal	15	161	155	316	15	161	155	316								
1.5. Tertiary Canal	15	172	159	331	172	159	331	388	15	172	159	331	388	15	172	159
1.6. Land Consolidation	15	2,364	1,193	3,557	2,364	1,193	3,557	3,495	15	2,364	1,193	3,557	10	1,576	796	2,372
1.7. River Training	15	32	14	46	32	14	46	46	15	32	14	46	10	21	9	30
1.8. O/M Road	15	43	21	64	43	21	64	43	15	43	21	64	10	21	8	29
1.9. Miscellaneous	15	50	3	53	50	3	53	50	15	50	3	53	10	33	2	35
- HE-II Sub-Total (i) -		2,836	1,614	4,450	2,779	1,581	4,360	4,205		2,836	1,614	4,450		1,930	807	2,437
2. Procurement of Equipment		2,836	1,453	4,289	2,779	1,426	4,205	4,205		2,836	1,426	4,263		1,930	765	2,395
3. Survey & Investigation																
4. D.D. and Supervision	15	406	533	939	406	533	939	939	5	406	533	939	5	406	533	939
5. Building/Motor Pool																
6. Land Acquisition and Compensation																
7. O & M Equipment																
8. Administration (% of I.)	5 %	142	81	223	139	79	218	218		139	79	218		139	79	218
9. Physical Contingency (% of I.)	10 %	284	161	445	278	158	436	436		278	158	436		278	158	436
- HE-II-Total (1-9) -		3,568	2,389	5,957	3,467	2,174	5,641	5,641		3,467	2,174	5,641		2,258	1,134	3,392
10. Price Contingency		3,568	2,098	5,666	3,467	1,924	5,391	5,391		3,467	1,924	5,391		2,258	1,044	3,302
F.C. 4.8 %		5,337	7,566	12,903	5,287	7,952	13,239	13,239		5,287	7,952	13,239		3,782	5,584	9,315
L.C. 15.5 %		5,337	6,644	11,981	5,287	7,038	12,325	12,325		5,287	7,038	12,325		3,782	5,095	8,877
Total		9,005	8,955	17,960	8,754	10,126	18,880	18,880		8,754	10,126	18,880		6,040	6,568	12,708
		9,005	8,742	17,747	8,754	8,982	17,716	17,716		8,754	8,982	16,739		5,040	5,139	12,179

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	2004				2005				2006				Total				
	x Million Rs				x Million Rs				x Million Rs				x Million Rs				
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	
C. Hazrat East District(II)																	
1. Construction Cost																	
1.1. Storage Dam	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.2. Diversion Dam																	
1.3. Main Canal/Drain																	
Kari Rud N.C.																	
1.4. Secondary Canal																	
1.5. Tertiary Canal																	
1.6. Land Consolidation	10	1,575	796	2,372													
1.7. River Training	10	1,578	754	2,332													
1.8. O/R Road	10	21	9	30													
1.9. Miscellaneous	10	33	6	39													
	10	33	2	35													
	10	33	3	36													
	10	0	0	0													
- HE-II Sub-Total (1) -		1,630	807	2,437													
		1,630	765	2,395													
2. Procurement of Equipment																	
3. Survey & Investigation																	
4. D.D. and Supervision																	
5. Building/Motor Fuel																	
6. Land Acquisition and Compensation																	
7. O & M Equipment	50	248	28	276													
		248	22	270													
8. Administration (% of 1.)	5%	82	40	122													
		82	38	120													
9. Physical Contingency (% of 1.)	10%	163	81	244													
		163	77	240													
- HE-II-Total (1-9) -		2,123	956	3,079													
		2,123	902	3,025													
10. Price Contingency		3,725	5,988	9,713													
F.C. 4.8%		3,725	5,984	9,709													
L.C. 15.5%																	
Total		5,849	6,344	12,193													
		5,849	5,986	11,835													

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	1993				1994				1995			
	Total		x Million Rls		Total		x Million Rls		Total		x Million Rls	
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%
D. Haraz East District(III)												
1. Construction Cost												
1.1. Storage Dam	0	0	0	0	0	0	0	0	0	0	0	0
1.2. Diversion Dam	158	237	395	100	158	237	395	100	158	237	395	100
1.3. Main Canal/Drain	92	153	245	100	92	153	245	100	92	153	245	100
Kari Rud M.C.	116	69	187		0	0	0		0	0	0	
1.4. Secondary Canal	1,451	1,378	2,829									
1.5. Tertiary Canal	542	971	1,513									
1.6. Land Consolidation	8,522	4,841	13,363									
1.7. River Training	109	47	156									
1.8. O/M Road	141	7	148									
1.9. Miscellaneous	141	12	153									
- HE-III Sub-Total (1) -	11,133	7,703	18,836	0	0	0	0	0	250	390	640	0
	10,683	6,298	17,181						0	0	0	0
2. Procurement of Equipment	2,046	198	2,244									
3. Survey & Investigation	144	306	450						50	72	122	225
4. D.D. and Supervision	1,476	1,839	3,415									
5. Building/Motor Pool	24	36	60						20	5	25	30
6. Land Acquisition and Compensation	0	775	775						5	6	11	15
7. O & M Equipment	225	20	245									
8. Administration (% of 1.)	557	942	1,499						12	20	32	33
9. Physical Contingency (% of 1.)	544	315	859						0	0	0	0
- HE-III Total (1-9) -	16,718	12,137	28,855	0	0	0	0	0	293	456	749	84
10. Price Contingency	16,430	9,866	26,296						5	6	11	13
	26,787	51,236	78,023						322	508	830	87
	25,470	43,150	68,620						5	8	13	13
F.C. 4.8%												
L.C. 5.5%												
Total	43,505	63,373	106,878	0	0	0	0	0	615	1,054	1,679	181
	42,900	53,016	95,916						10	14	24	181
												351
												532

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	1986			1987			1988			1989		
	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %	Fin.F.C. %	Fin.L.C. %	Fin.Total %
D. Haraz East District(III)												
I. Construction Cost												
1.1. Storage Dam							10	0	0	0	0	0
1.2. Diversion Dam												
1.3. Main Canal/Drain												
Kari Rud M.C.												
1.4. Secondary Canal				25	30	17	47	25	30	17	47	25
1.5. Tertiary Canal				30	30	14	44	15	30	14	44	15
1.6. Land Consolidation								10	54	97	151	125
1.7. River Training									54	71		0
1.8. O/N Road												0
1.9. Miscellaneous												0
- RE-III Sub-Total (I) -	0	0	0	0	30	17	47	47	30	17	47	30
	0	0	0	0	30	14	44	44	30	14	44	30
2. Procurement of Equipment								50	1,023	99	1,122	79
3. Survey & Investigation	72	153	225	50	72	153	225	50	1,023	99	1,122	79
4. D.D. and Supervision	72	123	195		72	123	195					
5. Building/Motor Pool	7	11	18	30	7	11	18	5	74	97	171	231
6. Land Acquisition and Compensation	7	9	16		7	9	16		74	78	152	233
7. O & M Equipment								50	0	388	388	50
8. Administration (% of I.)	0	0	0		2	1	3		2	1	3	15
9. Physical Contingency (% of I.)	0	0	0		2	1	3		2	1	3	15
- HE-III - Total (I-9) -	79	164	243		35	20	55		109	505	614	1,147
	79	132	211		35	16	51		109	404	513	1,591
10. Price Contingency	95	232	387		44	41	85		144	1,199	1,343	2,209
F.C. 4.8%	95	235	330		44	33	77		144	959	1,103	2,209
I.C. 15.5%												
Total	174	456	630		79	61	140		253	1,704	1,957	3,800
	174	367	541		79	49	128		253	1,363	1,616	3,800

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	2000				2001				2002				2003			
	x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls			
	Fin.F.C.	Fin.L.C.	Fin.F.C.	Fin.L.C.	Fin.F.C.	Fin.L.C.	Fin.F.C.	Fin.L.C.	Fin.F.C.	Fin.L.C.	Fin.F.C.	Fin.L.C.	Fin.F.C.	Fin.L.C.		
D. Hazrat East District(III)																
1. Construction Cost																
1.1. Storage Dam	15	0	0	0	0	0	0	0	0	0	0	0	0	0		
1.2. Diversion Dam																
1.3. Main Canal/Drain																
Kari Rud X.C.	25	30	17	47												
1.4. Secondary Canal	15	218	207	425	290	276	566	20	290	276	566	15	218	425		
1.5. Tertiary Canal	15	218	158	376	290	210	500	290	290	210	500	158	376	290		
1.6. Land Consolidation	15	81	146	227	81	146	227	15	81	146	227	15	81	146		
1.7. River Training	15	81	106	187	81	106	187	81	106	187	81	106	187	81		
1.8. O/M Road	15	1,278	726	2,004	1,278	726	2,004	15	1,278	726	2,004	15	1,278	726		
1.9. Miscellaneous	15	1,278	865	1,943	1,278	865	1,943	1,278	1,278	865	1,943	1,278	1,278	865		
- HE-III Sub-Total (1) -		1,844	1,104	2,748	1,686	1,156	2,842	1,686	1,686	1,156	2,842	1,614	1,087	2,701		
2. Procurement of Equipment	50	1,644	951	2,595	1,686	989	2,675	1,686	1,686	989	2,675	1,614	937	2,551		
3. Survey & Investigation		1,023	79	1,102												
4. D.D. and Supervision	15	221	291	512	295	388	683	15	221	291	512	221	291	512		
5. Building/Motor Pool		221	233	454	295	310	605	221	221	233	454	221	233	454		
6. Land Acquisition and Compensation																
7. O & N Equipment																
8. Administration (% of 1.)	5%	82	55	137	84	58	142	84	84	58	142	81	54	135		
9. Physical Contingency (% of 1.)	10%	82	48	130	84	49	133	84	84	49	133	81	47	126		
10. Price Contingency		184	110	274	169	116	285	169	169	116	285	161	109	270		
F.C. 4.8%		4,560	5,254	9,814	3,407	6,284	9,691	3,452	3,452	6,849	10,301	3,479	7,520	10,999		
L.C. 15.5%		4,560	4,453	9,013	3,407	5,293	8,700	3,452	3,452	5,788	9,240	3,479	6,397	9,676		
Total		7,694	6,913	14,507	5,641	8,802	13,643	5,612	5,612	8,470	14,082	5,556	9,061	14,617		
		7,694	5,865	13,559	5,641	6,740	12,381	5,612	5,612	7,158	12,770	5,556	7,708	13,264		

TABLE E. 2. 2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB - DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	2004				2005				2006				Total			
	x Million Rls				x Million Rls				x Million Rls				x Million Rls			
	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%	Fin.F.C.	Fin.L.C.	Fin.Total	%
D. Haraz East District(III)																
1. Construction Cost	0	0	0	0.10	0	0	0	0	0	0	0	0	0	0	0	0
I.1. Storage Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I.2. Diversion Dam																
I.3. Main Canal/Drain																
Kari Rud M.C.																
I.4. Secondary Canal	218	207	425													
I.5. Tertiary Canal	158	376	534													
I.6. Land Consolidation	81	146	227	15	81	108	189	10	852	484	1,336	10	1,433	968	10	
I.7. River Training	16	7	23	1	16	6	22	1	11	5	16	1	107	47	154	1
I.8. O/H Road	21	1	22	1	21	1	22	1	14	1	15	1	140	7	147	1
I.9. Miscellaneous	21	2	23	1	21	2	23	1	14	1	15	1	140	7	147	1
- HE-III Sub-Total (I) -	1,614	1,057	2,671		1,398	880	2,278		877	490	1,367		11,129	7,705	18,834	
I.10. Price Contingency	1,614	937	2,551		1,398	779	2,175		877	448	1,325		10,879	6,301	17,180	
2. Procurement of Equipment																
3. Survey & Investigation																
4. D.D. and Supervision	148	194	342	5	74	97	171		171	171	133		2,045	198	2,244	
5. Building/Motor Pool	148	155	303	74	74	78	152		152	152	113		2,045	198	2,244	
6. Land Acquisition and Compensation																
7. O & M Equipment																
8. Administration (% of I.)	81	54	135	5	81	44	125		125	125	93		2,045	198	2,244	
9. Physical Contingency (% of I.)	161	109	270	10	161	88	249		249	249	183		2,045	198	2,244	
- HE-III-Total (I-9) -	2,004	1,444	3,448		1,793	1,122	2,915		1,793	1,122	2,915		16,715	12,145	28,860	
10. Price Contingency	3,517	8,139	11,656		3,298	984	4,282		3,298	984	4,282		16,427	9,873	26,300	
F.C. 4.8 %	3,517	5,949	9,466		3,298	6,406	9,704		3,298	6,406	9,704		26,470	51,235	77,705	
L.C. 15.5 %																
Total	5,521	9,563	15,104		5,091	8,426	13,517		5,091	8,426	13,517		43,502	63,381	106,883	
Total	5,521	8,182	13,703		5,091	7,390	12,481		5,091	7,390	12,481		42,897	59,023	99,920	

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT-WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	Total			1993			1994			1995		
	x Million Rs			x Million Rs			x Million Rs			x Million Rs		
	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.Total
E. Amol West District(I)												
1. Construction Cost												
1.1. Storage Dam	0	0	0	0	0	0	0	0	0	0	0	0
1.2. Diversion Dam	80	120	200	80	120	200	80	120	200	80	120	200
1.3. Main Canal/Drain	625	816	1,441	625	816	1,441	625	816	1,441	625	816	1,441
1.4. Secondary Canal	516	558	1,074	516	558	1,074	516	558	1,074	516	558	1,074
1.5. Tertiary Canal	785	996	1,781	785	996	1,781	785	996	1,781	785	996	1,781
1.6. Land Consolidation	11,714	4,854	16,568	11,714	4,854	16,568	11,714	4,854	16,568	11,714	4,854	16,568
1.7. River Training	355	52	407	355	52	407	355	52	407	355	52	407
1.8. O/M Road	210	11	221	210	11	221	210	11	221	210	11	221
1.9. Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0
- AW- I Sub-Total (I) -	14,285	7,427	21,712	14,285	7,427	21,712	14,285	7,427	21,712	14,285	7,427	21,712
2. Procurement of Equipment	2,387	231	2,618	2,387	231	2,618	2,387	231	2,618	2,387	231	2,618
3. Survey & Investigation	259	551	810	259	551	810	259	551	810	259	551	810
4. D.D. and Supervision	1,722	2,262	3,984	1,722	2,262	3,984	1,722	2,262	3,984	1,722	2,262	3,984
5. Building/Motor Pool	28	42	70	28	42	70	28	42	70	28	42	70
6. Land Acquisition and Compensation	0	1,395	1,395	0	1,395	1,395	0	1,395	1,395	0	1,395	1,395
7. O & M Equipment	405	45	450	405	45	450	405	45	450	405	45	450
8. Administration (% of 1.)	714	371	1,085	714	371	1,085	714	371	1,085	714	371	1,085
9. Physical Contingency (% of 1.)	1,429	742	2,172	1,429	742	2,172	1,429	742	2,172	1,429	742	2,172
- AW- I Total (1-9) -	21,229	13,067	34,296	21,229	13,067	34,296	21,229	13,067	34,296	21,229	13,067	34,296
10. Price Contingency	32,872	47,738	80,610	32,872	47,738	80,610	32,872	47,738	80,610	32,872	47,738	80,610
F.C. 4.8 %	32,872	47,738	80,610	32,872	47,738	80,610	32,872	47,738	80,610	32,872	47,738	80,610
L.C. 15.5 %	32,872	47,738	80,610	32,872	47,738	80,610	32,872	47,738	80,610	32,872	47,738	80,610
Total	54,101	60,805	114,906	54,101	60,805	114,906	54,101	60,805	114,906	54,101	60,805	114,906
	54,101	53,732	107,833	54,101	53,732	107,833	54,101	53,732	107,833	54,101	53,732	107,833

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	1996				1997				1998				1999			
	Fin.F.C.		x Million Ris		Fin.F.C.		x Million Ris		Fin.F.C.		x Million Ris		Fin.F.C.		x Million Ris	
	%	Fin.L.C. Fin.Total	%	Fin.L.C. Fin.Total	%	Fin.L.C. Fin.Total	%	Fin.L.C. Fin.Total	%	Fin.L.C. Fin.Total	%	Fin.L.C. Fin.Total	%	Fin.L.C. Fin.Total	%	Fin.L.C. Fin.Total
E. Aocl West District(1)																
i. Construction Cost																
1.1. Storage Dam																
1.2. Diversion Dam	30	24	35	60 40	32	48	80 30	0	0	0	0	0	0	0	0	0
1.3. Main Canal/Drain		24	32	56	63	43	75	24	24	36	60	24	24	36	60	0
1.4. Secondary Canal				16	63	82	145 15	94	122	122	215 15	94	122	122	215	216
1.5. Tertiary Canal					63	86	129	84	99	132	193	94	99	132	193	193
1.6. Land Consolidation							10	52	57	109 15	77	85	162	142	142	142
1.7. River Training							10	79	79	100	179 15	118	149	267	267	267
1.8. O/M Road								79	73	152	110	228	228	228	228	228
1.9. Miscellaneous										0	0	0	0	0	0	0
- AW- I Sub-Total (1) -		24	36	60	95	130	225	248	248	315	584	2,131	1,096	3,227	8	61
2. Procurement of Equipment	50	130	276	406	95	109	204	249	249	247	496	2,131	1,001	3,132	11	64
3. Survey & Investigation		130	221	351	86	113	189 15	258	258	272	530	1,194	1,194	1,194	118	34
4. D.D. and Supervision		8	13	21	86	91	177	258	258	272	530	1,194	1,194	1,194	32	35
5. Building/Motor Pool		8	10	18	86	86	150	258	258	272	530	1,194	1,194	1,194	32	35
6. Land Acquisition and Compensation					50	50	698 50	0	0	598	698	0	0	0	0	0
7. O & M Equipment							558	558	558	558	558	558	558	558	558	558
8. Administration (% of 1.)	5 %	1	2	3	5	7	12	12	12	16	28	107	107	107	55	162
9. Physical Contingency (% of 1.)	10 %	1	2	3	5	5	10	10	10	13	24	107	107	107	50	157
- AW- I Total (1-9) -		185	331	496	196	361	1,157	1,738	1,738	1,516	3,254	3,903	1,715	5,619	118	313
10. Price Contingency		185	266	433	196	774	970	1,738	1,738	1,207	2,945	3,903	1,516	5,419	118	313
F.C. 4.6 %		199	589	786	248	1,975	2,223	2,303	2,303	3,599	5,902	5,419	4,705	10,124	118	313
L.C. 15.5 %		199	477	676	248	1,591	1,839	2,303	2,303	2,865	5,168	5,419	4,157	9,576	118	313
Total		364	920	1,284	444	2,936	3,380	4,041	4,041	5,115	9,156	9,322	5,421	15,743	118	313
		364	745	1,109	444	2,366	2,809	4,041	4,041	4,072	8,113	9,322	5,673	14,995	118	313

TABLE E.2.2-14 ANNUAL DISBURSEMENT SCHEDULE BY SUB-DISTRICT - WISE (WITHOUT MANGOL DAM CASE)

Work Description/Item	2000				2001				2002				2003			
	x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls		x Million Rls			
	Fin.F.C.	Fin.L.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.L.C.	Fin.Total	Fin.F.C.	Fin.L.C.	Fin.L.C.	Fin.Total
E. Aol West District(I)																
1. Construction Cost																
1.1. Storage Dam	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.2. Diversion Dam																
1.3. Main Canal/Drain	15	54	122	216	94	122	216	15	94	122	216	15	94	122	216	
1.4. Secondary Canal	15	77	85	162	77	85	162	15	77	85	162	15	77	85	162	
1.5. Tertiary Canal	15	118	149	267	118	149	267	15	118	149	267	15	118	149	267	
1.6. Land Consolidation	15	1,757	730	2,487	1,757	730	2,487	15	1,757	730	2,487	15	1,757	730	2,487	
1.7. River Training	15	53	8	61	53	8	61	15	53	8	61	15	53	8	61	
1.8. D/W Road	15	32	2	34	32	2	34	15	32	2	34	15	32	2	34	
1.9. Miscellaneous	15	0	0	0	0	0	0	15	0	0	0	15	0	0	0	
- AW-I Sub-Total (1) -		2,131	1,096	3,227	2,131	1,096	3,227		2,131	1,096	3,227		2,131	1,096	3,227	
2. Procurement of Equipment		2,131	1,001	3,132	2,131	1,001	3,132		2,131	1,001	3,132		2,131	1,001	3,132	
3. Survey & Investigation		258	272	530	258	272	530		258	272	530		258	272	530	
4. D.D. and Supervision	15	258	339	597	258	339	597	15	258	339	597	15	258	339	597	
5. Building/Motor Pool		258	272	530	258	272	530		258	272	530		258	272	530	
6. Land Acquisition and Compensation																
7. O & M Equipment																
8. Administration (% of 1.)	5 %	107	55	162	107	55	162	5 %	107	55	162	5 %	107	55	162	
9. Physical Contingency (% cf 1.)	10 %	107	50	157	107	50	157	10 %	107	50	157	10 %	107	50	157	
- AW-I Total (1-9) -		2,709	1,600	4,309	2,709	1,600	4,309		2,709	1,600	4,309		2,709	1,600	4,309	
10. Price Contingency		2,709	1,423	4,132	2,709	1,423	4,132		2,709	1,423	4,132		2,709	1,423	4,132	
F.C. 4.8 %		3,942	5,067	8,449	3,942	5,067	8,449		3,942	5,067	8,449		3,942	5,067	8,449	
L.C. 15.5 %		3,942	4,507	8,449	3,942	4,507	8,449		3,942	4,507	8,449		3,942	4,507	8,449	
Total		6,651	6,657	13,318	6,651	6,657	13,318		6,651	6,657	13,318		6,651	6,657	13,318	
		6,651	5,930	12,581	6,651	5,930	12,581		6,651	5,930	12,581		6,651	5,930	12,581	