		원칙 등에게 보고하다. 기계 있는 사회 기계 환경이다.	
ANNEX	13 DETAILS OF T	HE PROJECT CO	STS

1. Estimate of the Hardware and Basic Software: Plan A

galanda (alignos) ya kata kata kata da kata da Kata da kata d		1		general and the second
	Phase 1		Phase 2	Total
Hardware	7,487,900		295,000	7,782,900
Basic Software	2,643,536		128,610	2,772,146
Total	10,131,436		423,610	10,555,046

ESTIMATE ON THE HARDWARE AND BASIC SOFTWARE: PLAN A

Items	Unit Price	Qty	Price	Phase :	1	Phase	2
		~ ,	· · · · · · · · · · · · · · · · · · ·	Hardware	Software	Hardware	Software
l. Development System		a care		Same care so		Application of the state of	
At Kyrgyz					1		
Server systems	210,000	1	210,000	210,000			
Client systems	35,000	10	350,000	350,000			
Peripherals	5,000	2	10,000	10,000			Harris Land
Accessories		참 사는	37,000	37,000		grand and a second	was in the great
Basic software	TP Monitor, DE	1	765,776	5.,	382,888		382,888
Develop, software	Compiler, etc		100,000		50,000		50,000
Sub Total			1,472,776	607,000	432,888		432,888
				507,000	10.2,000		102,000
Outside Kyrgyz						· · · · · · · · · · · · · · · · · · ·	
Server systems	210,000	1	0	210,000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-210,000	
Client systems	35,000	10	Ö	350,000	-100×700	-350,000	
Peripherals	5,000	2	ŏ	10,000		-10,000	
Accessories	2,000	-	0	37,000		-37,000	garan en ar e
Basic software	TP Monitor, DI	R.	0	37,000	382,888	-57,000	-382,888
Develop, software	Compiler, etc		0		50,000		
Sub Total	Compiler, etc		0	607,000	432,888	-607,000	
Total of dev. systems			1,472,776	1,214,000	865,776	-607,000	<u>-432,888</u>
rough of dev, systems			1,412,110	1,217,000	003,770	007,000	
2. General Processing S	vstem						
Server systems	225,000	2	450,000	450,000			1.
Secondary servers	35,000	2	430,000	450,000		70,000	
Client systems	15,000	5	75,000	75,000		70,000	
Peripherals		5				10.000	4
Accessories	5,000	3	25,000	15,000		10,000	,
	toto		54,000	54,000	257 220		-
Basic software	DB		257,220	. 100.000	257,220		
Communication	Router	- :	100,000		255.000	50.555	
Sub Total Total	(No. of -14)	1	961,220	694,000	257,220	80,000	
10181	(No. of sites)	<u> </u>	1,031,220	694,000	257,220	80,000	
3. NBK-Net					* * *		
Server system	210,000	- 1	210,000			210,000	•
▼	85,000						
Server system	•	1	85,000			85,000	
Client systems	15,000	5	75,000			75,000	
Peripherals	5,000	3	15,000			15,000	100
Accessories			57,000			57,000	
Basic software	DB		128,610		1 1		128,610
Communication	Router	·	100,000	· · · · · · · · · · · · · · · · · · ·		100,000	·
Sub Total	···		670,610	·	<u> </u>	542,000	128,61
Total	(No. of sites)	l	670,610		····	542,000	128,61
				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
4. Switching System				Mark The Control			
Server systems	105,600	2	211,200	211,200			
Secondary servers	35,000		70,000			70,000	1.7
Client systems	15,000		90,000				
Peripherals	110,000	1	110,000	110,000			
Accessories		٠.	32,000			the same to the	
Basic software	DB		187,220		187,220		
Communication	Intelli, hub		301,500		<u>. </u>		
Sub Total			1,001,920		187,220	70,000	
Total	(No. of sites)	1	1,001,920		187,220		

Items	Unit Price	Q'ty	Price	Phase 1	1	Phas	c 2
	2 4 5 5 T			Hardware	Software	Hardware	Software
. Node System in Bishke			444 400	***			
Server systems	105,600	2	211,200	211,200			
Secondary servers	35,000	1	35,000			35,000	
Client systems	15,000		120,000	120,000			
Peripherals	110,000	1	110,000	110,000			
Accessories			30,000	30,000			100
Basic software	DB	· · · · · · ·	187,220		187,220	da e	
Routers, Modems, Tel	exes		143,000	143,000			
Sub Total	4.		836,420	614,200	187,220	35,000	
Total	(No. of sites)	1	836,420	614,200	187,220	35,000	
Nada Sustans in Oak					•		
. Node System in Osh	05.000	2	100.000	100 000			
Server systems	95,000		190,000	190,000		25 000	
Secondary servers	35,000	1	35,000			35,000	
Client systems	15,000		90,000	90,000			
Peripherals	110,000	1	110,000	110,000			
Accessories			28,000	28,000			
Basic software	DB		187,220		187,220		
Routers, Modems, Tel	exes		133,000	133,000	· · · · · · · · · · · · · · · · · · ·		
Sub Total			773,220	551,000	187,220	35,000	
Total	(No. of sites)	1_	773,220	551,000	187,220	35,000	
. Node Systems in Other	regions			•			
Server systems	85,000	2	170,000	170,000			
Secondary servers	35,000		35,000	2.0,000		35,000	
Client systems	15,000		45,000	45,000		20,000	
Peripherals	110,000		110,000	110,000			
Accessories	110,000		26,000	26,000			
Basic software	DB		187,220	20,000	187,220		
Routers, Modems, Tel			131,500	131,500	107,220		
Sub Total	ICAGS		704,720	482,500	187,220	35,000	
No. of sites			104,720	482,300	4	35,000	
Total			2,818,880	1,930,000	748,880	140,000	- ,,,
20184	7		2,510,000	2,720,000		- 10,000	
. Terminal Systems							
Base system	3,500	1	3,500	3,500			
IC card reader	1,300	1	1,300	1,300			
Comm. hardware	1,000	1	1,000	1,000		•	
Comm. software	300	1	300		300		
Basic software	400	. 1	400	<u> </u>	400		
Sub Total			6,500	5,800	700		
No. of sites			300	300	300		
Totai			1,950,000	1,740,000	210,000		
0 10 11			10.555.046	7 107 000	2 642 526		

10,555,046

2,643,536

7,487,900

295,000

128,610

Grand Total

					(US\$)
_		Phase 1	Phase 2		Total
	Hardware	7,688,000	360,000	985 (\$. 50 700 (\$.	8,046,700
	Basic Software	2,894,980	128,610	eraktik i. Heletin	3,023,590
	Total	10,582,980	488,610		11,070,290

ESTIMATE ON THE HARDWARE AND BASIC SOFTWARE: PLAN B

Items Unit Price		Q'ty Price Phase 1				(US \$)		
nems	URR FIRE	Qty	Frice _	Hardware	Software	Hardware	Software	
		<u> </u>	 	Halowate	Sullwate	Haluwaic	OUIWAIC	
. Development System		San Januar						
At Kyrgyz		a sa a gisayii a				11	•	
Server systems	210,000	1	210,000	210,000				
Client systems	35,000	10	350,000	350,000				
		2	10,000	10,000				
Peripherals	5,000					gers in the		
Accessories	m	i tali sa	37,000	37,000	470 <10		470.610	
Basic software	TP Monitor, DB		957,220		478,610		478,610	
Develop, software	Compiler, etc		100,000	40-000	50,000		50,000	
Sub Total			1,664,220	607,000	528,610		528,610	
Outside Kyrgyz								
Server systems	210,000	1.	0	210,000		-210,000	:	
Client systems	35,000	10	0.	350,000		-350,000		
Peripherals	5,000	2	0	10,000		-10,000		
Accessories			0	37,000	*	-37,000		
Basic software	TP Monitor, DB	l .	0		478,610	•	-478,610	
Develop, software	Compiler, etc		Ö		50,000		-50,000	
Sub Total	Complici, cic		0	607,000	528,610	-607,000	-528,610	
Total of dev. system	16	<u> </u>	1,664,220	1,214,000	1,057,220	-607,000	-320,010 (
TUIMI OF UCY. SYSICH	18		1,004,220	1,214,000	1,037,220	-007,000		
Cancel Decoration C	velom							
2. General Processing S		•	500.000	500.000				
Server systems	250,000	2	500,000	500,000				
Second servers	35,000	2				70,000		
Client systems	15,000	5	75,000	75,000				
Peripherals	5,000	5	25,000	15,000		10,000		
Accessories			54,000	54,000		,		
Basic software	DB		257,220		257,220	*		
Communication	Router		100,000	100,000	·			
Sub Total		• • • • •	1,011,220	744,000	257,220	80,000	(
Total	(No. of sites)	1	1,081,220	744,000	257,220	80,000		
						· · · · · · · · · · · · · · · · · · ·		
3. NBK-Net								
Server system	210,000	1	210,000	*		210,000		
Server system	150,000	1	150,000			150,000		
Client systems	15,000	5	75,000			75,000		
Peripherals		3		•		15,000		
	5,000		15,000					
Accessories			57,000			57,000		
Basic software	DB	*.	128,610	*.			128,610	
Communication	Router		100,000	 	<u> </u>	100,000		
Sub Total			735,610	·		607,000	128,610	
Total	(No. of sites)	1	735,610			607,000	128,61	
· · ·	· ·							
4. Switching System						•	-	
Server systems	150,000	2	300,000	300,000	-			
Second servers	35,000	2	70,000			70,000		
Client systems	15,000	6	90,000	90,000		. ,0,000	•	
Peripherals		: 1						
	110,000	1	110,000	110,000			•	
Accessories		- '.	32,000	32,000	049.000		٠	
Basic software	DB	** *	217,220		217,220			
Communication	Intelli, hub		301,500	301,500		····		
Sub Total			1,120,720	833,500	217,220	70,000	 	
Total	(No. of sites)	1	1,120,720	833,500	217,220	70,000		

Estimate of the Hardware and Basic Software: Plan B

	<u> 1988) </u>	<u> Marketta eta eta eta eta eta eta eta eta eta</u>		(US\$)
Fig. Days		Phase 1	Phase 2	Total
	Hardware	7,688,000	360,000	8,046,700
	Basic Software	2,894,980	128,610	3,023,590
	Total	10,582,980	488,610	11,070,290

2. Detailed List of Software Development

Phase I			
	Design	Development	<u>Total</u>
Network Development	93	75	168
Application Development	114	133	247
Total	207	208	415
	n engane e e e e e e e e e e e e e e e e e e	(man	/month)
Development Cost:		\$ 4,	980,000

Phase II	Design Design	evelopment	Total
Network Development	_		
Application Development	46	50	. 96
Total	46	50	96
	ing a second	(man	/month)
Development Cost:			152,000

Development Cost Grand Total: \$6,132,000

ESTIMATION ON NETWORK DEVELOPMENT (NODE SYSTEM)

Development Item	Design	Development
1 Object design	5	
2 Database design	4	a Maria di generali di
3 File design	5	
4 Process design	5	从水 普拉塔尔
5 Network control function	5	5
6 Operation management function	3	3
7 Netwok structural information manintenar	3	3
8 File transfer function	3	3
9 Communication protocol setup	3	4
10 Message transfer function	4:	5
11 Address route inspection function	2	2
12 Error message creation function	3	4
13 Data impute function	3	3
14 FD/MT impute function	1	1
15 Remote terminal control function	2	2
16 Reporting and reply to inquiry	3	5
17 Back up recovery	5	5 1 5 1 m
Sub-total	59	45
Grand-total		104 man-months

ESTIMATION ON NETWORK DEVELOPMENT (SWITCHING SYSTEM)

Development Item	Design	Development
1 Object design	0	
2 Database design	3	
3 File design	4	
4 Process design	4	
5 Network control function	5	5
6 Operation management function	4	8
7 Network structural information maintenance	1	1
8 Message transfer function	2	2
9 Communication protocol setup	2	3
10 Address route inspection function	0	0
11 Error message creation function	4	4
12 Report creation/Reporting and reply inquiry	3	5
13 Back up recovery	2	2
Sub-total	34	30
Grand-total		64 man-months

Estimation on Payment Systems Development Process (Application Portion) 1/6

Total 114 133 247 X \$ 12,000 = \$ 2,964,000	Process (man/month)	Design Development Total	3	3	eposit account terminal) 3 3 6 Transfer, deposit,	2 2 withdraw and correction	balance (transfer, deposit 3 6		1 2 3	1 2	1 2	e of current deposit account 1 2 3	osti account by bank	9 8	3 3 5 6	ss, input rejection) 2 3 5	tement)	magement, DB/files) 2 3	or the recovery of failures) 3 5 8	32 30 C 22 W 21 200 - 4 864 000
Phase I Total		Development Item	(1) File design	(2) I/O interface design	(3) Screen, file note, output (current deposit account terminal)	(4) I/O preprocessing	(5) Update of current deposit account	withdraw)	(6) Daily deficit limit management	(7) Message output (to MSW system)	(8) Error handling	(9) Inquiry on Post-Settlement balance of current deposit account	(10) Inquiry on Balance of current depo	Other inquiry functions (about 3)	Reference documents (about 6)	(13) Systems operation (start/end process, input rejection)	(14) Systems operation (security management)	(15) Systems operation (registration management, DB/files)	(16) Systems operation (management for the recovery of failures)	1000

Estimation on Payment Systems Development Process (Application Portion) 2/6

Соттоя		Pro	Process (man/month)	(H	
Common	Development Item	Design	Development	Total	Note
	(1) File design	ε	-	4	
	(2) I/O interface design	3		4	
Transfer	(3) I/O preprocessing	2	ε	S	
Process	(4) Update of file, journal	: (f) :	m	9	
	(5) Message output (to MSW system)		-	7	
	(6) Error handling	2	2	4	
Settlement	(7) Inter-bank settlement function	\$	5	10	Transfer request of current deposit account to
					NBK-net
	(8) Intra-bank settlement function	5	5	10	Head, branch office totalling process
Inquiry,	(9) Inquiry on remittance/receipt list	2	4	9	
others	(10) Inquiry on summary of remittances and receipts	7	4	9	
	(11) Other inquiry function (about 5)	لا	01	15	
	(12) Reference documents (about 10)	9	4	10	
Operation	(13) Forward summary of remittances and receipts	2	2	4	
	(14) Create transmission file for the message carried over	2	2	4	
	(15) Systems operation (start/end process, input rejection)	2	m	5	
	(16) Systems operation (security management)	10	10	8	
	(17) Systems operation (registration management, DB/files)		'n	ν,	
	(18) Systems operation (management for the recovery of failures)	<u>е</u>	יע	ø	

3. Automatic Payroll Service (Gross Settlement)	1 - 1 - 1 2 - 1			
	Pr	Process (man/month	(4	
Development Item	Design	Development	Total	Note
RCC				
Data (1) Payment transfer message (creation and send-out)	ा. स्व 1	2	60	
Entry				
Total	F	2	3	3 X \$ 12,000 = \$ 36,000

Estimation on Payment Systems Development Process (Application Portion) 3/6 4. Automatic Transfer Service (Gross Settlement)

		2	Descrete (man/month)		
		- 1	OCCSS (Many month		
٠.	Development Item	Design	Development	lotal	Note
RCC					The second secon
Data	(1) Automated transfer message (creation/send out)	-	7	£	The second of th
Entry				Т	
	Total	1	2	3	3 X \$ 12,000 = \$ 36,000
5. Office Syst	5. Office System Dedicated (Transfer System)				
		£.	Process (man/month))	· · · · · · · · · · · · · · · · · · ·
	Development Item	Design	Development	Total	Note
Common	(1) File design	2	-	m	
	(2) I/O interface design	2	-	3	and the second of the second o
Transfer-	(3) Transfer message processing	2	7	4	Customer transfer/fund transaction
related	(4) Change/cancellation processing	-	7	ن	
Process	(5) Authorization processing/transfer	-	7	m	
,	(6) Notification of reception processing	-	62	m	
	(7) Broadcast function	-	7	m i	
	(8) Message printer function	7	m	'n	
	(9) Systems operation (security management)	5	5	٦	
	Total	17	20	37	37 X \$ 12,000 = \$ 444,000
6. Operation 1	6. Operation Day of Interface				THE PARTY OF THE P
		F.	Process (man/month)		The community of the second se
	Development Item	Design	Development	Total	Note
File					Conversion from operation day file to new
Conversion	(1) Creation of sending file (convert)	24	2	4	payment systems file
				- 1	
	Total	2	2	4	$4 \times 12,000 = \$48,000$

Estimation on Payment Systems Development Process (Application Portion) 4/6

Phase II

					4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
	Phase II Total	46	20	8	96 X \$ 12,000 = \$ 1,152,000	
:						
Linking l	Linking Remittance and Deposit (Send-out)					
		Pro	Process (man/month	(q.		Ė
	Development Item	Design	Development Development	Total	Note	
edicated						_
ansfer	(1) Update of operation day original file (original file share)	63	Б.	δ.		
stem						
٠	Total	2	3	S	5 X \$ 12,000 =\$ 60,000	
						1

		Pr	Process (man/month)	(q	
_	Development Item	Design	Development	Total	Note
Dedicated					
Transfer	Transfer (1) Update of operation day original file (original file share)	7	ĸ	V)	
System					
	Total	2	3	'n	5 5 X \$ 12,000 = \$ 60,000

Correcting bank computers to the network
 No response in application (Need message route response in network system).

Need message route response on network system Calculation of net position, request of current Note 22 X \$ 12,000 = \$ 264,000 account transfer 9 Total Process (man/month) Development Design (5) Current deposit account transfer of netting settlement balance 4. CD/ATM Service (Respond to Netting Center Processing) (2) Netting Central processing function(3) Reference documents (about 4) (4) Respond to message type addition Development Item (6) Reference document (about 2) (1) File design Operation **Iransfer** NBK net System

Estimation on Payment Systems Development Process (Application Portion) 5/6

J. TIGHTSTOT	3. Transici Service of Accounting Intollination, etc.					
		Pre	rocess (man/month)	b)		
	Development Item	Design	Design Development Total	Total	Note Note	
Transfer	(1) Respon	1	1	2		
Process						
Transfer	Transfer (2) Transfer/receive of accounting information	2	2	4		
System						
	Total	3	3	9	$6 \times 12,000 = \$72,000$	

Estimation on Payment Systems Development Process (Application Portion) 6/6

6. Transfer Service for Foreign Exchange Som Clearing Message

		I.d.	Process (man/month)	(H)	
	Development Item	Design	Development	Total	Note
Dedicated	(1) FX transfer message processing	2	. 2	4	
Transfer	(2) Change/cancellation processing	H	H	. 6	
System	(3) Authorization processing/transfer	2	2	4	
Transfer	(4) Respond to additional message type	1		2	Request of NBK current deposit account transfer
Operation	(5) Reference document (about 4)	7	7	4	
System					
	Total	8	80	16	16.X \$ 12,000 = \$ 192,000
7. Expansion	7. Expansion of Payment Transfer Service (Additional Processing at the Day-end)				
		Pre	Process (man/month)	h)	
	Development Item	Design	Development	Total	Note
RCC	(1) FD exchange processing	1	1	2	
Data	(2) Calculation of net position by days	2	2	4	
Entry	(3) Send of net position transfer message	. 2	61	4	
	(4) Data transfer of other clarification	—		7	
	(5) Reference document (about 2)	-	-	7	
Transfer	(6) Addition of carry over Q	2	3	S	Both intra- and inter-processing
Operation	(7) Reference document (about 2)	-	-	2	
System					
	Total	10	11	21	21 X \$ 12,000 = \$ 252,000
			: . :		
8. Expansion	8. Expansion of Automated Transfer Service (Respond to Vise Versa Message, Additional Process at the Day-end)	tional Process at	the Day-end)		
		Pro	Process (man/month)	h)	
	Development Item	Design	Development	Total	Note
RCC	(1) FD exchange processing	-	7	2	Banks which desire in the same region
Data	(2) Calculation of net position by days	2	7	4	Vice versa netting process
Entry	(3) Send of net position transfer message		63	4	
	(4) Respond to additional message type	-	F	73	Vice versa message
	(5) Reference document (about 2)	1	1	2	
Transfer	(6) Addition of carry over Q	2	3	5	Both intra- and inter-processing
Operation	(7) Reference document (about 2)	. -1	7	. 23	

21

3. CALCULATION DATA

(1) Hardware Purchase

1) Condition

- All hardwares are assumed to be purchased in Japan at listed prise in the market.
- All hardwares together with other imported equipment and goods are assumed to be purchased on CIF Bishkek basis, and such goods are transported by air.
- All imported goods are assumed to be exempted import duty, excise tax or other levies.

2) Listed Prices of Hardwares in Market

(Unit: US\$)

	Phase	se−I	Phase-	<u>[]</u>
a.	Development System	1,214,000		-607,000
b.	General Purpose Processing System	694,000		80,000
c.	NBK-NET	0		542,000
đ.	Switching System	744,700		70,000
e.	Node System (Bishkek)	614,200		35,000
f.	Node System (Osh)	551,000		35,000
g.	Node System (Other region)	1,930,000		140,000
h.	Terminal System	1,950,000		0
	Total	7,487,900		295,000

3) Distribution Schedule of Cargoes

Bishkek	•	378 p'ces	18,008kg
Osh	:	20 p'ces	685kg
Jalal-abad	•	15 p'ces	578kg
Karakol		15 p'ces	578kg
Naryn		15 p'ces	578kg
Talas	•	15 p'ces	578kg
Total		458 p'ces	21,005kg

4) Packing SpecificationCraton Box – export standard packing by air

5) Transportation Cost

	Phase-I	Phase-II
Air Freight (Japan-Bishkek)	\$172,000	\$17,000
Custom Clearance/Cargo handling	\$2,100	\$700
Total	<u>\$174,100</u>	<u>\$17,700</u>

6) Local Transportation

٠.			Trucking Charge	Phase-I	Phase-II
(1)	Bishkek Airport-NBK	(18,008kg)	@\$50/Truck	250	100
(2)	-Osh	(685kg)	@\$500/Truck	500	300
(3)	-Jalal-abad	(578kg)	@\$500/Truck	500	500
(4)	-Karakol	(578kg)	@\$450/Truck	450	500
(5)	-Naryn	(578kg)	@\$500/Truck	500	500
(6)	-Talas	(578kg)	@\$300/Truck	300	300
	Total	(21,005kg))		2,500	2,300

7) Summary

	Air Freight	Custom Clearance/	Local	Total
		Cargo Handling	Transportation	
Phase-I	\$172,000	\$2,100	\$2,500	\$176,600
Phase-II	\$17,000	\$700	\$2,300	\$20,000
Total	\$189,000	\$2,800	\$4,800	\$196,600
	(Foreign)	(Local)	(Local)	

4. Estimation on Air Conditioners

(1) 5,000kcal Aircon:	US\$7,000/Unit
Auxiliary Materials	US\$700/Unit
Export Packing (Carton):	US\$200/Unit
Air Freight (Chartered rate): @US\$6.40 x 120 kg =	US\$768
Insurance: (1%)	US\$100

	Loading Charge	US\$200
	Total CIF Bishkek	<u>US\$8,968/Unit</u>
(2)	2,500kcal Aircon:	US\$2,100/Unit
	Auxiliary Materials	US\$300/Unit
.*	Export Packing (Carton):	US\$100/Unit
	Air Freight (Chartered rate): @US\$6.40 x 30) kg = US\$192
	Insurance: (1%)	US\$40
	Loading Charge	US\$150
	Total CIF Bishkek	US\$2,882/Unit
5,000	0kcal: @US\$8,968 x 8 units =	US\$71,744
2,500	0kcal: @US\$2,882 x 20 units =	US\$57,640
	Total CIF Bishkek	US\$129,384
Weig	ght: 5,000kcal: @120kg x 8 =	960kg
· .	2,500kcal : @ 30kg x 20 =	600kg
	Total () and the second of th	1,560kg

5. Estimates on Office Equipment

(1)	Fax		
	NTT Fax J-300: @\footage 390,000 x 6 =		¥2,340,000
(2)	Telephone		
	Matsushita VJH120: @38,600 x 10 =		¥386,000
(3)	P/C Dynabook V486J @¥245,000 x 6 =		¥1,470,000
	Software @¥100,000 x 6 =		Y600,000
•			
(4)	Printer (Laser)		
	Canon LLH304E @Y694,000 x 6 =		¥4,164,000
	Ricoh SP-10PS @681,000		er og er og i kliger. Klade er og i kliger
	Option + Soft @\f344,000 x 6 =	ri di ka Janaka K	¥2,064,000
	Tonner ¥30,000 + Ink @¥4,500		¥180,000

(5) Copier Rie	coh IMA610 MF-150	Model-2		
@¥800,00	00 x 6 =	to de la sign	Graduation of the same	¥4,800,000
Soft @¥10	00,000 x 6 =			¥600,000
(6) Shredder	@¥233,000 x 6 =			¥1,398,000
				*
(7) Paper Cut	ter @¥17,500 x 6 =			¥105,000
		1.		
(8) Stationary	Stack @¥51,000 x 6 :	· =		¥306,000
	MAN THE STATE OF	Total		¥18,413,000
		. r		
Consumable				1.1
Stationeries @¥1	,000,000 x 6 =			¥6,000,000
Paper @Y5,250 x		inger Dina		¥315,000
Ink for Laser Prin	nter @Y4,500 x 60 =			¥270,000
	Total			¥6,585,000
				: : : : :
Weight Data				v [*]
Fax	@50 kg x 6 =		300 kg	
Telephone			20 kg	
P/C	@5 kg x 6 =		30 kg	
Printer			300 kg	
Copier	@60 kg x 6 =		360 kg	
Shredder	@50 kg x 6 =		300 kg	
Paper Cutter	@7kg x 6 =		42 kg	
	©, 6		12 ng	

1,200 kg

2,525 kg

Stationary, etc.

@200kg x 6 =

6. Estimates on Installation Cost

Ale Conditionar (©4.0 man 14-	v humle u 10	gale ta di. Marahaman	-117 4-	
Air Conditioner: @4.0 man/da 1) Direct Labor Cost: @US			US\$560	Staty Sees C
General O.H.+Tax+Profit		· 114	US\$560	
Sub-To			US\$1,120	
		Tax: 31		
				e de la companya de l
2) Supervision by Foreign Er	ngineer			
Absence Fee @\$400/day	-		US\$12,000	ere Englis
Accommodation @\$80 x	7	eren Transfer	US\$2,400	
Transportation \$200 x 5 si			US\$1,000	
Perdiem Allowance @\$50			US\$1,500	
Other Expenses @\$20 x 3	0 days =		US\$600	
Sub-To	otal		US\$17,500	e . De jost
		Tax: 0		
				1 . 41
3) Local Transportation Cost				
Custom Clearance/Cargo	Handling		US\$500	
Trucking (Bishkek) @\$20	/unit		US\$160	
Trucking (5 cities) @\$500) x 5days =		US\$2,500	
Sub-To	otal		<u>US\$3,160</u>	
	1.50			
Tota	1		US\$21,780	
		(L:	US\$9,030)	
		(F:	US\$12,750)	. :
		Tax:	24%	
	÷**			
Rearrangement of Office Space				
@20 man-day/office x @\$5/n		ffice =	US\$600	
materials @\$1,000/office x 6			US\$6,000	
General O.H. + Tax + Profit =		·	US\$6,600	-,
Total			US\$13,200	5 . /
Tax:	Labor costs		0%→ \$ 379) , ,
	Materials co	sts 21.9	7%→ \$ 2,636	2

7. NBK Project Team Expenses

1. Organization

。	Phase-I	Phase-II
a. Project Manager	1	0
b. Assistance P.M.	2	1
c. System Engineer	6	3
d. Operator	6	3
e. Clark	3	1
f. Secretary	2	1
Total	(20)	(9)

2. Direct Personnel Costs

(US\$)

and the state of t	Annual Salary	Phase-I	Phase-II
a. Project Manager	3,000	3,000	-
b. Assistance P.M.	2,400	4,800	2,400
c. System Engineer	2,400	14,400	7,200
d. Operator	1,440	8,640	4,320
e. Clark	720	2,160	720
f. Secretary	600	1,200	600
Total		(34,200)	(15,240)

3. Personal Income Tax

		Tax Rate	Phase-I	Phas	e-II
a. Project Manager		39.912%	1,197		h :
b. Assistance P.M.	10.00	28.890%	1,387	. 1	693
c. System Engineer	Section 1	28.890%	4,160		2,080
d. Operator		21.98%	1,899		950
e. Clark		17.16%	371		124
f. Secretary		17.587%	211		. 106
Total			(9.225)	- 169	(3.953)

4. Economic Cost

		Shadow	Wage Rate	Phase-I	Phase-II
a. Project Manager			1.0	1,803	-
b. Assistance P.M.			1.0	3,413	1,707
c. System Engineer			1.0	10,240	5,120
d. Operator			1.0	6,741	3,370
e. Clark	· • • • •	.*	0.9	1,610	536
f. Secretary			0.7	692,	346 ;
Total				(24,499)	(11,079)

5. Personnel Costs

	Phase-I	Phase-II
District Labor Cost	\$34,200	\$15,240
Economic Cost	\$24,499	\$11,079
Transferable Cost	\$9,225 (26.97%)	\$3,953 (25.94%)
S.W. Adjustment Cost	\$476 (1.39%)	\$208 (1.36%)

6. General Overhead

(1) Total: Phase-I:

\$34,200

Phase-II:

\$15,240

(2) Composition

William Tolland		Composition	Tax(P-l)	Tax(P-II)	S.W.R.
Payroll Tax	į	- 37.0%	37.0%	37.0%	1.00
Indirect Personnel	Costs (40%	6) 25.2%	*1 6.80%	6.54%	0.85
Material Costs	(309	6) 18.9%	*2 3.78%	3.78%	1.00
Others	(30%	%) 18.9%	*3 3.78%	3.78%	1.00
Total		(100.0%)	(51.36%)	(51.10%)	

(Note)*1: Refer 5. above, *2: 20% (VAT), *3: 20%

(3) General Overhead

Phase-I

General Overhead : \$34,200 (100.00%) Economic Cost : \$15,342 (44.86%)

Transferable Cost

\$17,565 (51,36%)

S.W. Adjustment Cost : \$1,293 (3.78%)

Phase-II

 General Overhead
 :
 \$15,240 (100.00%)

 Economic Cost
 :
 \$6,876 (45.12%)

 Transferable Cost
 :
 \$7,788 (51.10%)

 S.W. Adjustment Cost
 :
 \$576 (3.78%)

7. Summary

Annual Cost		Phase-l			Phase-II			
Annual Cost		F	L	Total	F	L	Total	
Personnel Cost		18,000	34,200	52,200	8,000	15,240	23,240	
General Overhead		0	34,200	34,200	0	15,240	15,240	
Other Costs		1,800	6,840	8,640	800	3,048	3,848	
Total		19,800	<u>75,240</u>	<u>95,040</u>	8,800	33,528	42,328	
					15		•	
Economic Cost		19,800	43,825	63,625	8,800	19,751	28,551	
Transfer able Cost	1	0	29,469	29,469	0	12,915	12,915	
S.W. Adjustment	4+2	0	1,946	1,946	0	862	862	
(Total Period)	*.		(35 months)			(24 months)		
Economic Cost	:	58,333	127,823	186,156	17,600	39,502	57,102	
Transfer able Cost		. 0	85,951	85,951	0	25,830	25,830	
S.W. Adjustment Cost		0	5,676	5,676	0	1,724	1,724	
Total		<u>58,333</u>	219,450	277,783	<u>17,600</u>	<u>67,056</u>	84,656	

8. Calculation of Personal Income Tax of Operating Staff

1. Appreciable Tax Rate

Income		Som/M	(US\$/Y)	Tax Rate (%)	Add'&Tax (Som)	(US\$/Y)
0	_	68	(81.60)	0	0	(0)
69		408	(489.60)	12	0	(0)
409	. –	816	(979.60)	15	40	(40)
817	<u>-</u> -	1,360	(1,632.20)	20	102	(102)
1,361	_	2,380	(2,856.00)	30	210	(210)
2,381	_		(2,856 over)	40	516	(516)

2. Tax Calculation

(1) Annual Income

	Annual Income (US\$)	(Som)
a. General Manager	: 3,000 : .	30,000
b. System Engineer	2,400	24,000
c. Operator	1,440	14,400
d. Secretary	600	6,000

(2) Tax Calculation (in US\$)

	a.	General	Man	ager
--	----	---------	-----	------

Total				1,197.36 (39.912%)
(489.6 – 81.6)	x	0.12	=	48.96
(979.2 – 489.6)	x	0.15	=	73.44
(1,632 – 979.2)	x	0.20	=	130.56
(2,856 – 1,632)	A 10 10 10 10 10 10 10 10 10 10 10 10 10	0.30	= 1	367.20
(3,000 - 2,856)	x	0.40 + 516	=	577.20

b. System Engineer

(2,400 – 1,632)	x	0.30	+ 210	= '	440.40	1
(1,632 – 979.2)	х	0.20		=	130.56	
(979.2 – 489.6)	x	0.15		=	73.44	
(489.6 – 81.6)	X	0.12	4.5	=	48.96	
Total					963.36	(28.89%)

c. Operator

			o .			1000
Total	:				316.56	(21.98%)
(489.6 - 81.6)	x	0.12		=	48.96	
(979.2 – 489.6)	x	0.15		=	73.44	
(1,440 - 979.2)	X	0.20	+ 102	=	194.16	

d. Secretary

u. Secretary	e e		The second second
(600 - 489.6)	x = 0.15 + 40	=	56.56
(489.6 – 81.6)	x 0.12	<u>=</u>	48.96

Total

105.56 (17.587%)

3. Weighted Average Tax Amount

	Tax Amount	
	(US\$)	
General Manager	$@1,197.36 \times 1 =$	1,197.36
System Engineer	$@693.36 \times 11 =$	7,626.96
Operator	$@316.56 \times 25 =$	7,914.00
Secretary	$@105.52 \times 1 =$	105.52
Total	•	16,843,84

Average Tax Rate = $16,843.84 \div 66,000 = 0.2552$ (25.52%)

9. General Overhead in Operation Stage

(1) Organization

1)	General Manager	V 1
2)	System Engineer	11
3)	Operator	25
<u>4)</u>	Secretary	1
	Total	38

(2) Direct Labor Cost

. :		Annual Salary	Total	S.W.R.
1)	General Manager	@\$3,000/Y	\$3,000	1.0
2)	System Engineer	@\$2,400/Y	\$26,400	1.0
3)	Operator	@\$1,440/Y	\$36,000	1.0
4)	Secretary	@\$600/Y	\$600	0.7
	Total		\$66,000	
		Tax(25.52%)	-\$16,843	÷
		S.W. Adjustment	-\$180	
		Economic Cost Total	\$48,977	(74.2%)

(2) General Overhead

	Shares	Composition	Tax	S.W. Adj.	Economic Cost
Payroll Tax	_	37%	-37%	· · · · · · · · ·	
Personnel Cost	40%	25.2%	-7.56%	-2.52%	15.12%
Material Cost	30%	18.9%	-3.78%		15.12%
Others	30%	18.9%	-1.74%		17.16%
	100%	100%	50.08%	2.52%	47.40%

Economic Cost: 48.16%=\$31,284

(3) Other Expences: 10%

(4) Economic Cost Total

	Economic Cost Tran	sferable Cost	S.W. Adj.	Total
Direct Labor Cost	\$48,977	\$16,843	\$180	\$66,000
General Overhead	\$31,284	\$33,053	\$1,663	\$66,000
Other Costs	\$8,076	\$4,990	\$134	\$13,200
Total	\$88,337	\$54,886	\$1,977	\$145,200

